

**CM-MISDK (ANSI C Version)**  
**Reference Manual**

[Rev.1.04]



## **CM-MISDK Reference Manual**

### **• Official application names used in this manual**

Abbreviated in this manual    Official name

as:

|             |   |
|-------------|---|
| Windows 7   | Microsoft® Windows® 7 Business Operating System |
| Windows 8.1 | Microsoft® Windows® 8.1                         |
| Windows 10  | Microsoft® Windows® 10                          |
| C#          | Microsoft® Visual C#®                           |
| C++         | Microsoft® Visual C++®                          |
| VB          | Microsoft® Visual Basic .NET                    |

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## Introduction

The SDK is a tool for developing PC applications for instruments that measure object color. This manual describes how to use the SDK.

## 1. System Environment

The following table lists the verified development environments.

|                             |  |
|-----------------------------|--|
| Supported operating systems | Windows 7(x86), Windows 7(x64)<br>Windows 8.1(x86), Windows 8.1(x64)<br>Windows 10(x86), Windows 10(x64)   |
| Development environment     | Visual Studio 2012<br>Visual Studio 2013<br>Visual Studio 2015<br>Visual Studio 2017<br>Visual Studio 2019   |
| Development languages       | VC++, VC#, VB.NET  |
| Controllable instruments    | <ul style="list-style-type: none"><li>• CM-M6</li><li>• CM-25cG</li><li>• CM-26dG</li><li>• CM-26d</li><li>• CM-25d</li><li>• CM-23d</li><li>• CM-3630A</li><li>• CM-36dG(CM-36dGV)</li><li>• CM-36d</li></ul> |

## **2. Installing/Uninstalling the SDK**

### **2.1. Installation**

Install this SDK according to the following procedure.

- (1) Expand the contents of the provided "cm-misdk\_verXXXrX.zip" file to the desired location on the PC.
- (2) "cm-misdk\_verXXXrX" will be displayed and the following folders will be present when the files are expanded.

| No. | Folder name | Overview                  |
|-----|-------------|---------------------------|
| 1   | SDK         | CM-MISDK files            |
| 2   | Manual      | CM-MISDK Reference Manual |
| 3   | Driver      | USB driver for instrument |
| 4   | SampleCode  | Sample code files         |
| 5   | License     | License agreement         |

- (3) To develop applications using the SDK, configure the appropriate settings so that the following files in the above SDK folder can be accessed from the development environment. For details, refer to "3. SDK Overview".

| No. | Folder name             | Overview                                  |
|-----|-------------------------|---|
| 1   | CMMISDK_x86.dll         | SDK DLL file (32-bit version)             |
| 2   | CMMISDK_x86.lib         | VC++ import library file (32-bit version) |
| 3   | CMMISDK_x64.dll         | SDK DLL file (64-bit version)             |
| 4   | CMMISDK_x64.lib         | VC++ import library file (64-bit version) |
| 5   | CMMISDK.NET.dll         | C# version DLL file                       |
| 6   | CMMISDK.h               | Definitions file                          |
| 7   | CMMISDK_Api.h           | API definitions file                      |
| 8   | CMMISDK_Error.h         | Error definitions file                    |
| 9   | CMMISDK_Parameters.h    | Parameter and structure definitions file  |
| 10  | CMMISDK_TypeDefDefine.h | Type definitions file                     |
| 11  | TypeDefine.h            | Type definitions file                     |

### **2.2. Uninstallation**

Delete the cm-misdk\_verXXXrX folder and manually copied folders.

### **3. SDK Overview**

#### **3.1 Function list**

The following processing can be performed with the SDK.

| <b>Connect/disconnect</b>                           |   |
|---|---|
| <a href="#">CMMISDK_Connect</a>                     | Connects to the instrument.                             |
| <a href="#">CMMISDK_Disconnect</a>                  | Ends the connection with the instrument.                |
| <a href="#">CMMISDK_GetInstrumentInfo</a>           | Obtains instrument information.                         |
| <a href="#">CMMISDK_GetSDKVersion</a>               | Obtains the SDK version.                                |
| <a href="#">CMMISDK_GetWarning</a>                  | Obtains the warning status.                             |
| <b>Calibrate/measure</b>                            |   |
| <a href="#">CMMISDK_GetCalibrationStatus</a>        | Obtains the calibration status.                         |
| <a href="#">CMMISDK_PerformZeroCalibration</a>      | Executes zero calibration.                              |
| <a href="#">CMMISDK_PerformWhiteCalibration</a>     | Executes white calibration.                             |
| <a href="#">CMMISDK_PerformGlossCalibration</a>     | Executes gloss calibration.                             |
| <a href="#">CMMISDK_PerformUserCalibration</a>      | Executes user calibration.                              |
| <a href="#">CMMISDK_PerformMeasurement</a>          | Executes the measurement.                               |
| <a href="#">CMMISDK_PollingMeasurement</a>          | Judges if the measurement is complete.                  |
| <a href="#">CMMISDK_CancelMeasurement</a>           | Cancels measurement.                                    |
| <a href="#">CMMISDK_ReadLatestData</a>              | Reads the latest data.                                  |
| <a href="#">CMMISDK_LoadLaterstData</a>             | Loads the latest data onto the PC.                      |
| <a href="#">CMMISDK_GetLatestData</a>               | Obtains the latest data on the PC.                      |
| <a href="#">CMMISDK_SetWhiteCalibrationData</a>     | Sets the white calibration plate data.                  |
| <a href="#">CMMISDK_GetWhiteCalibrationData</a>     | Obtains the white calibration plate data.               |
| <a href="#">CMMISDK_SetGlossCalibrationData</a>     | Sets the gloss calibration plate data.                  |
| <a href="#">CMMISDK_GetGlossCalibrationData</a>     | Obtains the gloss calibration plate data.               |
| <a href="#">CMMISDK_SetUserCalibrationData</a>      | Sets the user calibration data.                         |
| <a href="#">CMMISDK.GetUserCalibrationData</a>      | Obtains the user calibration data.                      |
| <a href="#">CMMISDK_SetUserCalibrationEnable</a>    | Enables and disables user calibration.                  |
| <a href="#">CMMISDK_GetUserCalibrationEnable</a>    | Obtains the user calibration enabled or disabled state. |
| <a href="#">CMMISDK_SetTriggerMode</a>              | Sets the trigger mode.                                  |
| <a href="#">CMMISDK_GetTriggerMode</a>              | Obtains the trigger mode.                               |
| <a href="#">CMMISDK_ClearTriggerData</a>            | Clears the trigger mode data.                           |
| <a href="#">CMMISDK_IsTriggerData</a>               | Obtains the availability of trigger mode data.          |
| <a href="#">CMMISDK_GetZeroCalibrationDate</a>      | Obtains the zero calibration date and time.             |
| <a href="#">CMMISDK_GetWhiteCalibrationDate</a>     | Obtains the white calibration date and time.            |
| <a href="#">CMMISDK_GetGlossCalibrationDate</a>     | Obtains the gloss calibration date and time.            |
| <a href="#">CMMISDK GetUserCalibrationDate</a>      | Obtains the user calibration date and time.             |
| <a href="#">CMMISDK_ClearUvAdjustInfo</a>           | Clears various data for fluorescence adjustment.        |
| <a href="#">CMMISDK_SetProfileForUvAdjust</a>       | Sets the fluorescence adjustment profile.               |
| <a href="#">CMMISDK_GetProfileForUvAdjust</a>       | Obtains the fluorescence adjustment profile.            |
| <a href="#">CMMISDK_SetWiForUvAdjust</a>            | Sets the WI for fluorescence adjustment.                |
| <a href="#">CMMISDK_GetWiForUvAdjust</a>            | Obtains the WI for fluorescence adjustment.             |
| <a href="#">CMMISDK_SetTintForUvAdjust</a>          | Sets the Tint for fluorescence adjustment.              |
| <a href="#">CMMISDK_GetTintForUvAdjust</a>          | Obtains the Tint for fluorescence adjustment.           |
| <a href="#">CMMISDK_SetIsoBrightnessForUvAdjust</a> | Sets the ISO brightness for fluorescence adjustment.    |
| <a href="#">CMMISDK_GetIsoBrightnessForUvAdjust</a> | Obtains the ISO brightness for fluorescence adjustment. |
| <a href="#">CMMISDK_SetGanzForUvAdjust</a>          | Sets the Ganz & Griesser for fluorescence adjustment.   |

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|                               |  |   |
|-------------------------------|--|---|
|                               | <a href="#">CMMISDK_GetGanzForUvAdjust</a>       | Obtains the Ganz & Griesser for fluorescence adjustment.          |
|                               | <a href="#">CMMISDK_SetDataForUvAdjust</a>       | Sets the data for fluorescence adjustment.                        |
|                               | <a href="#">CMMISDK_GetDataForUvAdjust</a>       | Obtains the data for fluorescence adjustment.                     |
|                               | <a href="#">CMMISDK_PerformUvAdjust</a>          | Executes fluorescence adjustment and sets the coefficient.        |
|                               | <a href="#">CMMISDK_PerformUvAdjustUsingData</a> | Executes fluorescence adjustment and sets the coefficient.        |
|                               | <a href="#">CMMISDK_ClearCoefForUvAdjust</a>     | Clears the fluorescence adjustment coefficient in the instrument. |
|                               | <a href="#">CMMISDK_SetCoefForUvAdjust</a>       | Sets the fluorescence coefficient.                                |
|                               | <a href="#">CMMISDK_GetCoefForUvAdjust</a>       | Obtains the fluorescence coefficient.                             |
|                               | <a href="#">CMMISDK_SetOutputMinus</a>           | Enables and disables output of negative values.                   |
|                               | <a href="#">CMMISDK_GetOutputMinus</a>           | Obtains the output of negative values enabled or disabled state.  |
| <b>Measurement Conditions</b> |  |   |
| •                             | <a href="#">CMMISDK_SetMeasurementArea</a>       | Sets the measurement area.  |
| •                             | <a href="#">CMMISDK_GetMeasurementArea</a>       | Obtains the measurement area.                                     |
| •                             | <a href="#">CMMISDK_SetMeasurementType</a>       | Sets the measurement type.  |
| •                             | <a href="#">CMMISDK_GetMeasurementType</a>       | Obtains the measurement type.                                     |
| •                             | <a href="#">CMMISDK_SetMeasurementAngle</a>      | Sets the measurement angle.                                       |
| •                             | <a href="#">CMMISDK_GetMeasurementAngle</a>      | Obtains the measurement angle.                                    |
| •                             | <a href="#">CMMISDK_SetTiltDetection</a>         | Sets tilt detection.  |
| •                             | <a href="#">CMMISDK_GetTiltDetection</a>         | Obtains tilt detection.   |
| •                             | <a href="#">CMMISDK_SetMeasurementMode</a>       | Sets the measurement mode.  |
| •                             | <a href="#">CMMISDK_GetMeasurementMode</a>       | Obtains the measurement mode.                                     |
| •                             | <a href="#">CMMISDK_SetSpecularComponent</a>     | Sets the specular component.                                      |
| •                             | <a href="#">CMMISDK_GetSpecularComponent</a>     | Obtains the specular component.                                   |
| •                             | <a href="#">CMMISDK_SetUv</a>                    | Sets the UV condition.  |
| •                             | <a href="#">CMMISDK_GetUv</a>                    | Obtains the UV condition.   |
| •                             | <a href="#">CMMISDK_SetAutoAverageTimes</a>      | Sets the number of times of automatic averaging.                  |
| •                             | <a href="#">CMMISDK_GetAutoAverageTimes</a>      | Obtains the number of times of automatic averaging.               |
|                               | <a href="#">CMMISDK_SetManualAverageTimes</a>    | Sets the number of times of manual averaging.                     |
|                               | <a href="#">CMMISDK_GetManualAverageTimes</a>    | Obtains the number of times of manual averaging.                  |
|                               | <a href="#">CMMISDK_SetManualAverageSaveMode</a> | Sets the manual averaging save method.                            |
|                               | <a href="#">CMMISDK_GetManualAverageSaveMode</a> | Obtains the manual averaging save method.                         |
|                               | <a href="#">CMMISDK_SetCondSMC</a>               | Sets the SMC conditions.  |
|                               | <a href="#">CMMISDK_GetCondSMC</a>               | Obtains the SMC conditions.                                       |
| <b>Display conditions</b>     |  |   |
|                               | <a href="#">CMMISDK_SetDisplayType</a>           | Sets the display type.  |
|                               | <a href="#">CMMISDK_GetDisplayType</a>           | Obtains the display type.   |
|                               | <a href="#">CMMISDK_SetObserverAndIlluminant</a> | Sets the observation field and illuminant.                        |
|                               | <a href="#">CMMISDK_GetObserverAndIlluminant</a> | Obtains the observation field and illuminant.                     |
|                               | <a href="#">CMMISDK_SetUserIlluminant</a>        | Sets the user illuminant data.                                    |
|                               | <a href="#">CMMISDK.GetUserIlluminant</a>        | Obtains the user illuminant data.                                 |
|                               | <a href="#">CMMISDK_SetColorSpace</a>            | Sets the color space.   |
|                               | <a href="#">CMMISDK_GetColorSpace</a>            | Obtains the color space.  |
|                               | <a href="#">CMMISDK_SetEquation</a>              | Sets the color difference equation.                               |
|                               | <a href="#">CMMISDK_GetEquation</a>              | Obtains the color difference equation.                            |
|                               | <a href="#">CMMISDK_SetCustomIndex</a>           | Sets the custom items.  |

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|               |  |  |
|---------------|--|--|
|               | <a href="#">CMMISDK_GetCustomIndex</a>         | Obtains the custom items.  |
|               | <a href="#">CMMISDK_SetDirection</a>           | Sets the irradiation direction to display.                             |
|               | <a href="#">CMMISDK_GetDirection</a>           | Obtains the irradiation direction to display.                          |
|               | <a href="#">CMMISDK_SetUserEquation</a>        | Sets the user index.   |
|               | <a href="#">CMMISDK_GetUserEquation</a>        | Obtains the user index.  |
| <b>Data</b>   |  |  |
|               | <a href="#">CMMISDK_SetActiveTarget</a>        | Sets the active target.  |
|               | <a href="#">CMMISDK_GetActiveTarget</a>        | Obtains the active target.   |
|               | <a href="#">CMMISDK_GetSavedTargetList</a>     | Obtains the list of saved target numbers.                              |
|               | <a href="#">CMMISDK_GetTargetListInFilter</a>  | Obtains the list of target numbers when the display filter is applied. |
|               | <a href="#">CMMISDK_DeleteTargetData</a>       | Deletes the target data.   |
|               | <a href="#">CMMISDK_DeleteAllTargetData</a>    | Deletes all target data.   |
|               | <a href="#">CMMISDK_ClearTargetInfo</a>        | Clears target information on the PC.                                   |
|               | <a href="#">CMMISDK_LoadTargetInfo</a>         | Loads target information on the PC.                                    |
|               | <a href="#">CMMISDK_SaveTargetInfo</a>         | Saves target information on the PC to the instrument.                  |
|               | <a href="#">CMMISDK_SetTargetProperty</a>      | Sets target information properties.                                    |
|               | <a href="#">CMMISDK_GetTargetProperty</a>      | Obtains target information properties.                                 |
|               | <a href="#">CMMISDK_SetTargetData</a>          | Sets target information data.  |
|               | <a href="#">CMMISDK_GetTargetData</a>          | Obtains target information data.                                       |
|               | <a href="#">CMMISDK_SetToleranceForTarget</a>  | Sets the target tolerance list.  |
|               | <a href="#">CMMISDK_GetToleranceForTarget</a>  | Obtains the target tolerance list.                                     |
|               | <a href="#">CMMISDK_SetParametricForTarget</a> | Sets the parametric coefficient for a target color.                    |
|               | <a href="#">CMMISDK_GetParametricForTarget</a> | Obtains the parametric coefficient for a target color.                 |
|               | <a href="#">CMMISDK_SetTargetFilter</a>        | Sets the target filter conditions.                                     |
|               | <a href="#">CMMISDK_GetTargetFilter</a>        | Obtains the target filter conditions.                                  |
|               | <a href="#">CMMISDK_SetTargetProtect</a>       | Sets target protection.  |
|               | <a href="#">CMMISDK_GetTargetProtect</a>       | Obtains target protection.   |
|               | <a href="#">CMMISDK_GetSavedSampleCount</a>    | Obtains the number of saved measurement values.                        |
|               | <a href="#">CMMISDK_DeleteSampleData</a>       | Deletes measurement value data.  |
|               | <a href="#">CMMISDK_DeleteAllSampleData</a>    | Deletes all measurement value data.                                    |
|               | <a href="#">CMMISDK_LoadSampleInfo</a>         | Loads measurement value information on the PC.                         |
|               | <a href="#">CMMISDK_GetSampleProperty</a>      | Obtains measurement value information properties.                      |
|               | <a href="#">CMMISDK_GetSampleData</a>          | Obtains measurement value information data.                            |
| <b>Others</b> |  |  |
|               | <a href="#">CMMISDK_SetActiveGroup</a>         | Sets the active group.   |
|               | <a href="#">CMMISDK_GetActiveGroup</a>         | Obtains the active group.  |
|               | <a href="#">CMMISDK_SetGroupName</a>           | Sets the group name.   |
|               | <a href="#">CMMISDK_GetGroupName</a>           | Obtains the group name.  |
|               | <a href="#">CMMISDK_SetMultipleGroupName</a>   | Sets group names in batch.   |
|               | <a href="#">CMMISDK_GetMultipleGroupName</a>   | Obtains group names in batch.  |
|               | <a href="#">CMMISDK_LoadDefaultInfo</a>        | Loads default information on the PC.                                   |
|               | <a href="#">CMMISDK_SaveDefaultInfo</a>        | Saves default information on the PC to the instrument.                 |
|               | <a href="#">CMMISDK_SetTolerance</a>           | Sets default tolerance data.   |
|               | <a href="#">CMMISDK_GetTolerance</a>           | Obtains default tolerance data.  |
|               | <a href="#">CMMISDK_SetParametric</a>          | Sets the default parametric coefficient.                               |
|               | <a href="#">CMMISDK_GetParametric</a>          | Obtains the default parametric coefficient.                            |
|               | <a href="#">CMMISDK_SetWarningLevel</a>        | Sets the warning level.  |
|               | <a href="#">CMMISDK_GetWarningLevel</a>        | Obtains the warning level.   |

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|  |  |
|--|--|
| <a href="#">CMMISDK_SetInstrumentMode</a>      | Sets the instrument mode.  |
| <a href="#">CMMISDK_GetInstrumentMode</a>      | Obtains the instrument mode.                                       |
| <a href="#">CMMISDK_SetUserType</a>            | Sets the user type.  |
| <a href="#">CMMISDK_GetUserType</a>            | Obtains the user type.   |
| <a href="#">CMMISDK_SetAdminPassword</a>       | Sets the administrator password.                                   |
| <a href="#">CMMISDK_GetAdminPassword</a>       | Obtains the administrator password.                                |
| <a href="#">CMMISDK_SetAutoPrint</a>           | Sets automatic printing.   |
| <a href="#">CMMISDK_GetAutoPrint</a>           | Obtains the automatic printing setting.                            |
| <a href="#">CMMISDK_SetBrightness</a>          | Sets the brightness of the display.                                |
| <a href="#">CMMISDK_GetBrightness</a>          | Obtains the brightness of the display.                             |
| <a href="#">CMMISDK_SetScreenDirection</a>     | Sets the direction of the display.                                 |
| <a href="#">CMMISDK_GetScreenDirection</a>     | Obtains the direction of the display.                              |
| <a href="#">CMMISDK_SetSound</a>               | Sets the sound.  |
| <a href="#">CMMISDK_GetSound</a>               | Obtains the sound.   |
| <a href="#">CMMISDK_SetCalibrationInterval</a> | Sets the calibration interval.                                     |
| <a href="#">CMMISDK_GetCalibrationInterval</a> | Obtains the calibration interval.                                  |
| <a href="#">CMMISDK_SetAnnualCalibration</a>   | Sets the periodical calibration notice.                            |
| <a href="#">CMMISDK_GetAnnualCalibration</a>   | Obtains the periodical calibration notice.                         |
| <a href="#">CMMISDK_SetZeroCalibrationSkip</a> | Sets whether or not to skip zero calibration.                      |
| <a href="#">CMMISDK_GetZeroCalibrationSkip</a> | Obtains whether or not zero calibration can be skipped.            |
| <a href="#">CMMISDK_SetDateTime</a>            | Sets the date and time.  |
| <a href="#">CMMISDK_SetDateFormat</a>          | Sets the date format.  |
| <a href="#">CMMISDK_GetDateFormat</a>          | Obtains the date format.   |
| <a href="#">CMMISDK_SetLanguage</a>            | Sets the display language.   |
| <a href="#">CMMISDK_GetLanguage</a>            | Obtains the display language.                                      |
| <a href="#">CMMISDK_SetPowerSaving</a>         | Sets power saving mode.  |
| <a href="#">CMMISDK_GetPowerSaving</a>         | Obtains power saving mode.   |
| <a href="#">CMMISDK_ClearJobInfo</a>           | Clears job information.  |
| <a href="#">CMMISDK_SetJobInfo</a>             | Sets job information.  |
| <a href="#">CMMISDK_GetJobInfo</a>             | Obtains job information.   |
| <a href="#">CMMISDK_GetJobStepType</a>         | Obtains the step type of the job.                                  |
| <a href="#">CMMISDK_SetJobStepForOperation</a> | Sets an operation step of the job.                                 |
| <a href="#">CMMISDK_GetJobStepForOperation</a> | Obtains an operation step of the job.                              |
| <a href="#">CMMISDK_SetJobStepForResult</a>    | Sets a result step of the job.                                     |
| <a href="#">CMMISDK_GetJobStepForResult</a>    | Obtains a result step of the job.                                  |
| <a href="#">CMMISDK_SetJobImage</a>            | Sets job images.   |
| <a href="#">CMMISDK_GetJobImage</a>            | Obtains job images.  |
| <a href="#">CMMISDK_ResetSetting</a>           | Restores setting values to the initial state.                      |
| <a href="#">CMMISDK_ResetSettingAndData</a>    | Restores setting values to the initial state and deletes all data. |
| <a href="#">CMMISDK_SetFinderEnable</a>        | Enables or disables the finder.                                    |
| <a href="#">CMMISDK_GetFinderImage</a>         | Obtains the finder image.  |
| <a href="#">CMMISDK_GetMeasurementImage</a>    | Obtains the finder image at the time of measurement.               |
| <a href="#">CMMISDK_GetDetectedMask</a>        | Obtains the detected measurement area.                             |

\* “●” indicates functions that are used also as conditions when calibrating and measuring via communications, not only when the instrument is standalone.

## **3.2 Basic processing flow**

### **3.2.1 Measurements**

#### **3.2.1.1 Measurements using the SDK**

##### **Connect (4.2)**

CMMISDK\_Connect

##### **Set measurement conditions (4.4)**



##### **Calibrate (4.3)**

CMMISDK\_PerformZeroCalibration

CMMISDK\_PerformWhiteCalibration

CMMISDK\_PerformGlossCalibration

##### **Measure (4.3)**

CMMISDK\_PerformMeasurement

CMMISDK\_PollingMeasurement

Monitor by polling until the measurement has completed.

##### **Get data (4.3)**

CMMISDK\_LoadLatestData

CMMISDK\_ReadLatestData

CMMISDK\_GetLatestData

##### **Disconnect (4.2)**

CMMISDK\_Disconnect

##### **Terminate**

### **3.2.1.2 Measurements using an instrument key**

#### **Connect (4.2)**

CMMISDK\_Connect

#### **Set measurement conditions (4.4)**



#### **Calibrate (4.3)**

CMMISDK\_PerformZeroCalibration

CMMISDK\_PerformWhiteCalibration

CMMISDK\_PerformGlossCalibration

#### **Measure (4.3)**

CMMISDK\_SetTriggerMode

CMMISDK\_ClearTriggerData

Press the measure key on the instrument.

CMMISDK\_IsTriggerData

To repeat the operation, clear the previously obtained data.

Monitor by polling until the data can be readied.

#### **Get data (4.3)**

CMMISDK\_ReadLatestData

#### **Disconnect (4.2)**

CMMISDK\_Disconnect

#### **Terminate**

### 3.2.2 Target writing (when new)

#### Connect (4.2)

CMMISDK\_Connect

#### Data

CMMISDK\_ClearTargetInfo

The necessary data must be set for the conditions that are set by the properties.

CMMISDK\_SetTargetProperty

CMMISDK\_SetTargetData

CMMISDK\_SaveTargetInfo

The default tolerances are used if tolerances are not set.

CMMISDK\_LoadTargetInfo

To set a new tolerance, first load it, and then rewrite only the necessary location.

CMMISDK\_SetParametricForTarget

CMMISDK\_SaveTargetInfo

#### Disconnect

CMMISDK\_Disconnect

#### Terminate

### **3.2.3 Default tolerance setting**

#### **Connect (4.2)**

CMMISDK\_Connect

#### **Data**

CMMISDK\_LoadDefaultInfo

CMMISDK\_SetTolerance

First load, set only necessary locations, and then save.

CMMISDK\_SetParametric

CMMISDK\_SaveDefaultInfo

#### **Disconnect**

CMMISDK\_Disconnect

#### **Terminate**

### 3.2.4 Job

#### Connect (4.2)

CMMISDK\_Connect

#### Data

CMMISDK\_ClearJobInfo

Always clear the job info when redoing the job from the beginning.

CMMISDK\_SetJobInfo

Set the basic job information, such as number of steps.

CMMISDK\_SetJobStepForOperation

CMMISDK\_SetJobStepForResult

Register content for the number of steps set in the job information.

CMMISDK\_SetJobImage

Register images in only the amount required.

#### Disconnect

CMMISDK\_Disconnect

#### Terminate

### 3.2.5 Fluorescence Adjustment

#### Connect (4.2)

CMMISDK\_Connect

#### Calibrate (4.3)

CMMISDK\_PerformZeroCalibration

CMMISDK\_PerformWhiteCalibration

CMMISDK\_PerformGlossCalibration

#### Prepare for fluorescence adjustment

CMMISDK\_SetMeasurementMode

CMMISDK\_SetMeasurementType

CMMISDK\_SetMeasurementArea

CMMISDK\_SetSpecularComponent

CMMISDK\_SetUv

CMMISDK\_ClearUvAdjustInfo

Sets the measurement conditions for executing fluorescence adjustment.

Sets the necessary reference data according to the fluorescence adjustment mode used.

CMMISDK\_SetProfileForUvAdjust or CMMISDK\_SetEachProfileForUvAdjust

CMMISDK\_SetWiForUvAdjust or CMMISDK\_SetEachWiForUvAdjust

CMMISDK\_SetTintForUvAdjust or CMMISDK\_SetEachTintForUvAdjust

CMMISDK\_SetIsoBrightnessForUvAdjust or CMMISDK\_SetEachIsoBrightnessForUvAdjust

CMMISDK\_SetGanzForUvAdjust or CMMISDK\_SetEachGanzForUvAdjust

#### Performing fluorescence adjustment and writing results to instrument

[When not using Ganz & Griesser method]

CMMISDK\_ClearCoefForUvAdjust

CMMISDK\_PerformUvAdjust

Performs measurement under the current conditions to calculate the fluorescence coefficient, which is then written to the instrument.

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[When using Ganz & Griesser method]

CMMISDK\_SetDataForUvAdjust

Sets all measurement data required for fluorescence adjustment.

CMMISDK\_ClearCoefForUvAdjust

CMMISDK\_PerformUvAdjustUsingData

Calculates the fluorescent coefficient using input data, and writes the coefficient to the instrument.  
Can be used for methods other than Ganz & Griesser.

[When coefficients are available]

CMMISDK\_ClearCoefForUvAdjust

CMMISDK\_SetCoefForUvAdjust

Sets the necessary coefficients according to the conditions and fluorescence adjustment mode used.

**Disconnect**

CMMISDK\_Disconnect

**Terminate**

### **3.3 How to create programs with the SDK**

#### **3.3.1 Using the SDK from a Development Environment**

This section describes how to use the SDK with Visual Studio 2013 as an example.

- (1) Create a C++ application project (referred to as "the project").
- (2) Place "CMMISDK\_\*\*\*.dll" in either of the following locations.

The DLL is available as a 32-bit and 64-bit version. Use the appropriate version for the application that will be created.

- Execution folder of the application that will be created
- Folder set as an environment path

- (3) To use the import library, place "CMMISDK\_\*\*\*.lib" in the same location as in step (2), open the project properties, select "Linker" - "Input" - "Additional Dependencies", and add "CMMISDK\_\*\*\*.lib".
- (4) Add the header files to the project and include them in the code file.
- (5) Create and build an application that uses the SDK.

#### **3.3.2 Sample Code Overview**

Three types of sample code have been prepared for this SDK.

- (1) PerformMeasurement: Calibrate, measure, and get measurement data
- (2) ReadSampleData: Get saved measurement data
- (3) WriteTargetData: Write target data

Refer to the sample code for the specific implementation methods.

## **4. SDK Reference**

### **4.1 Format of SDK functions**

#### **4.1.1 Format**

The functions in the SDK are described using the following format.

**Format:**

Describes the format of the function.

**Arguments:**

Describes the arguments of the function.

**Return Value:**

Describes the return value that is returned when the function is used.

There are three types of return values.

| Type    | Value                     |  |
|---------|---------------------------|--|
| Success | 0                         | Returned when the processing was successful.   |
| Warning | 1                         | Returned when the processing was successful, but with restrictions.<br>Use <a href="#">CMMISDK_GetWarning</a> to get detailed information. |
| Error   | Value<br>larger<br>than 1 | Returned when the processing failed.<br>Refer to " <a href="#">6. List of errors</a> " to make processing complete successfully.           |

**Description:**

Describes necessary information and precautions when using the function.

## **4.2 Connect/disconnect**

### **CMMISDK\_Connect: Connects to the instrument.**

#### **Format:**

error\_km CMMISDK\_Connect(const [CMMISDK\\_Port](#)\* inPortInfo, int32\_km\* outInstrumentNo)

#### **Arguments:**

| Name            | I/O | Explanation  |
|-----------------|-----|--|
| inPortInfo      | I   | Communication port to which the instrument is connected<br>* When connecting to COM1, for example, specify "COM1". |
| outInstrumentNo | O   | Instrument number (0 to 7)<br>* -1 is returned when failed.  |

#### **Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

#### **Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

#### **Description:**

This method connects the computer to the instrument that is connected to the specified virtual COM port.

If the connection to the instrument succeeds, the instrument number is returned.

The instrument number is a number between 0 and 7, and this number is passed as a parameter to subsequent functions.

The SDK can simultaneously communicate with up to 8 instruments.

This function must be called 8 times to connect to 8 instruments.

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**CMMISDK\_Disconnect: Ends the communication with an instrument.**

**Format:**

error\_km CMMISDK\_Disconnect(int32\_km inInstrumentNo)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |

**Return Value:**

| Definition value  | Explanation   |
|-------------------|---|
| KmSuccess         | The processing was completed normally.  |
| KmErConnectFailed | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function ends the communication with the instrument connected to the specified virtual COM port. When communications are ended, the measurement data of the specified instrument is cleared.

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**CMMISDK\_GetInstrumentInfo: Obtains instrument information.**

**Format:**

error\_km CMMISDK\_GetInstrumentInfo(int32\_km inInstrumentNo, [CMMISDK\\_InstrumentInfo](#)\* outInfo)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outInfo        | O   | Instrument information     |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function obtains instrument information.

**CMMISDK\_GetSDKVersion: Obtains the SDK version.**

**Format:**

error\_km CMMISDK\_GetSDKVersion([CMMISDK\\_Version](#)\* version)

**Arguments:**

| Name    | I/O | Explanation         |
|---------|-----|---------------------|
| version | O   | Version information |

**Return Value:**

| Definition value          | Explanation                            |
|---------------------------|--|
| <a href="#">KmSuccess</a> | The processing was completed normally. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function obtains the SDK version.

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**CMMISDK\_GetWarning: Obtains the warning status.**

**Format:**

error\_km CMMISDK\_GetWarning(int32\_km inInstrumentNo, [CMMISDK\\_Warning](#)\* warning)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| warning        | O   | Warning status             |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function obtains the warning status.

If the return value of functions is [KmWarning](#), use this function to obtain the warning.

Refer to the [List of warnings](#) for details on the warnings.

## **4.3 Calibration and measurement**

### **CMMISDK\_GetCalibrationStatus: Obtains the calibration status.**

#### **Format:**

error\_km CMMISDK\_GetCalibrationStatus(int32\_km inInstrumentNo, [CMMISDK\\_CalStatus](#)\* outCalStatus)

#### **Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outCalStatus   | O   | Calibration status         |

#### **Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

#### **Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

#### **Description:**

This function gets the calibration status.

Execute measurements after checking the calibration status and performing calibration if necessary.

The calibration status is managed for each condition type (e.g. measurement area, specular component). This function obtains the calibration status based on the conditions set on the instrument.

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**CMMISDK\_PerformZeroCalibration: Executes zero calibration.**

**Format:**

error\_km CMMISDK\_PerformZeroCalibration(int32\_km inInstrumentNo)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |
| <a href="#">KmErCalibration</a>   | Calibration was not executed in the correct procedure.                                |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This command executes zero calibration.

No response is returned until zero calibration has completed.

If the zero calibration fails, the normal state immediately before the zero calibration is attempted is maintained.

Zero calibration does not need to be performed each time, but it should be performed when the measurement environment changes greatly and when the instrument has not been used for a long period of time.

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**CMMISDK\_PerformWhiteCalibration: Executes white calibration.**

**Format:**

```
error_km CMMISDK_PerformWhiteCalibration(int32_km inInstrumentNo)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |

**Return Value:**

| Definition value                        | Explanation   |
|---|---|
| <a href="#">KmSuccess</a>               | The processing was completed normally.  |
| <a href="#">KmWarning</a>               | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>           | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErConnectFailed</a>       | Failed to connect to the instrument. Or, connection is not established using Connect. |
| <a href="#">KmErCalibration</a>         | Calibration was not executed in the correct procedure.                                |
| <a href="#">KmErCalibrationRequired</a> | Necessary calibration was not executed beforehand.                                    |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function executes white calibration. Check the IDs of the white calibration plates, and use the matching plate.

No response is returned until white calibration has completed.

If the white calibration fails, the normal state immediately before the white calibration is attempted is maintained.

Because the calibration status is managed for each condition type (e.g. measurement area, specular component), re-calibration may be required if any condition is changed.

Use [CMMISDK\\_GetCalibrationStatus](#) to determine whether calibration is necessary.

If no white calibration data is set, use [CMMISDK\\_SetWhiteCalibrationData](#) to set the data.

**CMMISDK\_PerformGlossCalibration: Executes gloss calibration.**

**Format:**

error\_km CMMISDK\_PerformGlossCalibration(int32\_km inInstrumentNo)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |

**Return Value:**

| Definition value                        | Explanation   |
|---|---|
| <a href="#">KmSuccess</a>               | The processing was completed normally.  |
| <a href="#">KmWarning</a>               | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>           | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a>       | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>       | Failed to connect to the instrument. Or, connection is not established using Connect. |
| <a href="#">KmErCalibration</a>         | Calibration was not executed in the correct procedure.                                |
| <a href="#">KmErCalibrationRequired</a> | Necessary calibration was not executed beforehand.                                    |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |     |     |     |    |       |     |       |
|-------|-------|-----|-----|-----|----|-------|-----|-------|
| 25cG  | 26dG  | 26d | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| V1.0~ | V1.1~ | x   | x   | x   | x  | V1.0~ | x   | x     |

**Description:**

This function executes gloss calibration. Check the IDs of the gloss calibration plates, and use the matching plate.

No response is returned until gloss calibration has completed.

If the gloss calibration fails, the normal state immediately before the gloss calibration is attempted is maintained.

Because the calibration status is managed for each condition type (e.g. measurement area, specular component), re-calibration may be required if any condition is changed.

Use [CMMISDK\\_GetCalibrationStatus](#) to determine whether calibration is necessary.

If no gloss calibration plate data is set, use [CMMISDK\\_SetGlossCalibrationData](#) to set the data.

**CMMISDK\_PerformUserCalibration: Executes user calibration.**

**Format:**

error\_km CMMISDK\_PerformUserCalibration(int32\_km inInstrumentNo)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |

**Return Value:**

| Definition value                        | Explanation   |
|---|---|
| <a href="#">KmSuccess</a>               | The processing was completed normally.  |
| <a href="#">KmWarning</a>               | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>           | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a>       | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>       | Failed to connect to the instrument. Or, connection is not established using Connect. |
| <a href="#">KmErCalibration</a>         | Calibration was not executed in the correct procedure.                                |
| <a href="#">KmErCalibrationRequired</a> | Necessary calibration was not executed beforehand.                                    |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |     |    |       |       |       |
|-------|-------|-------|-------|-----|----|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d | M6 | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | x   | x  | V1.0~ | V1.0~ | V1.0~ |

**Description:**

This function executes user calibration. Check the IDs of the user calibration plates, and use the matching plate.

No response is returned until user calibration has completed.

If the user calibration fails, the normal state immediately before the user calibration is attempted is maintained.

Because the calibration status is managed for each condition type (e.g. measurement area, specular component), re-calibration may be required if any condition is changed.

Use [CMMISDK\\_GetCalibrationStatus](#) to determine whether calibration is necessary.

If no user calibration data is set, use [CMMISDK\\_SetUserCalibrationData](#) to set the data.

\*CM-36dG/CM-36d

If you conclude a license agreement and perform wavelength correction, use [CMMISDK\\_PerformWhiteCalibration](#) before executing this API.

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**CMMISDK\_PerformMeasurement: Executes the measurement.**

**Format:**

error\_km CMMISDK\_PerformMeasurement(int32\_km inInstrumentNo)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function executes the measurement.

This function returns a response when the measurement starts.

Use [CMMISDK\\_PollingMeasurement](#) to determine the completion of the measurement, and after the measurement is complete, use [CMMISDK\\_ReadLatestData](#) or [CMMISDK\\_LoadLatestData](#) to get data.

- Errors related to the measurement can be obtained only with [CMMISDK\\_PollingMeasurement](#).

When this function has completed successfully and the next measurement is started, the retained measurement data is cleared. For this reason, the previous data cannot be retrieved in case measurement fails.

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**CMMISDK\_PollingMeasurement: Obtains the measurement status.**

**Format:**

error\_km CMMISDK\_PollingMeasurement(int32\_km inInstrumentNo, [CMMISDK\\_MeasStatus](#)\* outStatus)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outStatus      | O   | Measurement status         |

**Return Value:**

| Definition value                        | Explanation   |
|---|---|
| <a href="#">KmSuccess</a>               | The processing was completed normally.  |
| <a href="#">KmWarning</a>               | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>           | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErOutOfRangeValue</a>     | The value is outside the range that can be measured by the instrument.                |
| <a href="#">KmErConnectFailed</a>       | Failed to connect to the instrument. Or, connection is not established using Connect. |
| <a href="#">KmErCalibrationRequired</a> | Necessary calibration was not executed beforehand.                                    |
| <a href="#">KmErTiltDetection</a>       | The instrument could not measure correctly because it is tilted.                      |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function gets the measurement status.

After verifying that the status has changed from 'measuring' to 'idling,' use [CMMISDK\\_ReadLatestData](#) or [CMMISDK\\_LoadLatestData](#) to retrieve data.

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**CMMISDK\_CancelMeasurement: Stops the measurement.**

**Format:**

error\_km CMMISDK\_CancelMeasurement(int32\_km inInstrumentNo)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function stops the measurement.

It can be used when the number of times of automatic averaging is set to multiple times using [CMMISDK\\_SetAutoAverageTimes](#).

If this function is executed when a measurement is not being executed, it will return [KmSuccess](#) or [KmWarning](#).

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**CMMISDK\_ReadLatestData: Obtains the latest measurement data.**

**Format 1:**

```
error_km CMMISDK_ReadLatestDataSpec(int32_km inInstrumentNo, CMMISDK\_DataType inDataType,
CMMISDK\_Data* outData)
```

**Arguments:**

| Name           | I/O | Explanation  |
|----------------|-----|--|
| inInstrumentNo | I   | Instrument number (0 to 7)   |
| inDataType     | I   | Data type  |
| outData        | O   | Reflectance data<br>* Data in the amount of DataSize that was obtained with <a href="#">CMMISDK_GetInstrumentInfo</a> is stored from the beginning of the array. |

**Format 2:**

```
error_km CMMISDK_ReadLatestDataColor(int32_km inInstrumentNo, CMMISDK\_DataType inDataType,
inDataType, const CMMISDK\_ColorCond* inColorCond, CMMISDK\_Data* outData)
```

**Arguments:**

| Name           | I/O | Explanation   |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)  |
| inDataType     | I   | Data type   |
| inColorCond    | I   | Color value calculation conditions<br>* The color value is calculated with the specified conditions               |
| outData        | O   | Color value data<br>* Data in the amount of the number of color values is stored from the beginning of the array. |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErNoData</a>        | No data   |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function retrieves the latest measurement data.

For reflectance, the result is output according to the specified data type. For color value, the result is output according to the specified data type and color space.

Use this function to obtain data even when a key on the instrument was used for the measurement.

The size of data to allocate will depend on the instrument.

Use [CMMISDK\\_GetInstrumentInfo](#) to check the size of data.

Gloss data can be obtained with both format 1 and format 2.

When gloss data is obtained, it is stored from the beginning of the array.

\* When gloss data is error, it is stored negative value.

\* For the 26dG/26d/25d/23d

Opacity measurement is standalone only. If the measurement mode is opacity, the instrument operates in the following states.

|      |                        |
|------|------------------------|
| 26dG | MEASMODE_COLORANDGLOSS |
| 26d  | MEASMODE_COLORONLY     |
| 25d  | MEASMODE_COLORONLY     |
| 23d  | MEASMODE_COLORONLY     |

**CMMISDK\_LoadLatestData: Loads the latest data onto the PC.**

**Format:**

error\_km CMMISDK\_LoadLatestData(int32\_km inInstrumentNo)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErNoData</a>        | No data   |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function loads the latest measurement data onto the PC.

Measurement data refers to all data that can be obtained according to the measurement conditions.

Use of this function instead of [CMMISDK\\_ReadLatestData](#) is recommended when collectively acquiring data because all measurement data can be acquired at once.

Use this function to load data even when a key on the instrument was used for the measurement.

After the data is loaded, use [CMMISDK\\_GetLatestData](#) to obtain data individually.

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**CMMISDK\_GetLatestData: Obtains the latest data on the PC.**

**Format 1:**

```
error_km CMMISDK_GetLatestDataSpec(int32_km inInstrumentNo, CMMISDK\_DataType inDataType,
CMMISDK\_Data* outData)
```

**Arguments:**

| Name           | I/O | Explanation  |
|----------------|-----|--|
| inInstrumentNo | I   | Instrument number (0 to 7)   |
| inDataType     | I   | Data type  |
| outData        | O   | Reflectance data<br>* Data in the amount of DataSize that was obtained with <a href="#">CMMISDK_GetInstrumentInfo</a> is stored from the beginning of the array. |

**Format 2:**

```
error_km CMMISDK_GetLatestDataColor(int32_km inInstrumentNo, CMMISDK\_DataType inDataType,
const CMMISDK\_ColorCond* inColorCond, CMMISDK\_Data* outData)
```

**Arguments:**

| Name           | I/O | Explanation   |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)  |
| inDataType     | I   | Data type   |
| inColorCond    | I   | Color value calculation conditions<br>* The color value is calculated with the specified conditions               |
| outData        | O   | Color value data<br>* Data in the amount of the number of color values is stored from the beginning of the array. |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErNoData</a>        | No data   |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function obtains the latest measurement data on the PC.

The data for the specified number on the PC can be obtained by using [CMMISDK\\_LoadLatestData](#). For reflectance, the result is output according to the specified data type. For color value, the result is output according to the specified data type and color space.

The size of data to allocate will depend on the instrument.

Use [CMMISDK\\_GetInstrumentInfo](#) to check the size of data.

Gloss data can be obtained with both format 1 and format 2.

When gloss data is obtained, it is stored from the beginning of the array.

\* When gloss data is error, it is stored negative value.

\* For the 26dG/26d/25d/23d

Opacity measurement is standalone only. If the measurement mode is opacity, the instrument operates in the following states.

|      |                        |
|------|------------------------|
| 26dG | MEASMODE_COLORANDGLOSS |
| 26d  | MEASMODE_COLORONLY     |
| 25d  | MEASMODE_COLORONLY     |
| 23d  | MEASMODE_COLORONLY     |

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**CMMISDK\_SetWhiteCalibrationData: Sets the white calibration data.**

**Format:**

```
error_km CMMISDK_SetWhiteCalibrationData(int32_km inInstrumentNo, CMMISDK\_CalDataType
inDataType, int32_km inCalId, const CMMISDK\_Data* inCalData)
```

**Arguments:**

| Name           | I/O | Explanation   |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)  |
| inDataType     | I   | Data type   |
| inCalId        | I   | White calibration plate ID<br>* The calibration plate ID will be overwritten by the ID that was last set.   |
| inCalData      | I   | White calibration data<br>* Store the data from the beginning of the array in the amount of DataSize that was obtained with <a href="#">CMMISDK_GetInstrumentInfo</a> . |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function sets the white calibration data.

White calibration is executed using the data set via this function.

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**CMMISDK\_GetWhiteCalibrationData: Obtains the white calibration data.**

**Format:**

```
error_km CMMISDK_GetWhiteCalibrationData(int32_km inInstrumentNo, CMMISDK\_CalDataType
inDataType, int32_km* outCalId, CMMISDK\_Data\* outCalData)
```

**Arguments:**

| Name           | I/O | Explanation  |
|----------------|-----|--|
| inInstrumentNo | I   | Instrument number (0 to 7)   |
| inDataType     | I   | Data type  |
| outCalId       | O   | White calibration plate ID   |
| outCalData     | O   | White calibration data<br>* Data in the amount of DataSize that was obtained with<br><a href="#">CMMISDK_GetInstrumentInfo</a> is stored from the beginning<br>of the array. |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function obtains the white calibration data.

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**CMMISDK\_SetGlossCalibrationData: Sets the gloss calibration data.**

**Format:**

error\_km CMMISDK\_SetGlossCalibrationData(int32\_km inInstrumentNo, [CMMISDK\\_MeasArea](#) inArea, int32\_km inCalId, float64\_km inCalData)

**Arguments:**

| Name           | I/O | Explanation   |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)  |
| inArea         | I   | Measurement area  |
| inCalId        | I   | Gloss calibration plate ID<br>* The calibration plate ID will be overwritten by the ID that was last set. |
| inCalData      | I   | Gloss calibration data  |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |     |     |     |    |       |     |       |
|-------|-------|-----|-----|-----|----|-------|-----|-------|
| 25cG  | 26dG  | 26d | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| V1.0~ | V1.1~ | ×   | ×   | ×   | ×  | V1.0~ | ×   | ×     |

**Description:**

This function sets the gloss calibration data.

Gloss calibration is executed using the data set via this function.

**CMMISDK\_GetGlossCalibrationData: Obtains the gloss calibration data.**

**Format:**

error\_km CMMISDK\_GetGlossCalibrationData(int32\_km inInstrumentNo, [CMMISDK\\_MeasArea](#) inArea, int32\_km\* outCalId, float64\_km\* outCalData)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inArea         | I   | Measurement area           |
| outCalId       | O   | Gloss calibration plate ID |
| outCalData     | O   | Gloss calibration data     |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |     |     |     |    |       |     |       |
|-------|-------|-----|-----|-----|----|-------|-----|-------|
| 25cG  | 26dG  | 26d | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| V1.0~ | V1.1~ | x   | x   | x   | x  | V1.0~ | x   | x     |

**Description:**

This function obtains the gloss calibration data.

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**CMMISDK\_SetUserCalibrationData: Sets the user calibration data.**

**Format:**

```
error_km CMMISDK_SetUserCalibrationData(int32_km inInstrumentNo, CMMISDK\_CalDataType
inDataType, const CMMISDK\_UserCalId* inCalId, const CMMISDK\_Data* inCalData)
```

**Arguments:**

| Name           | I/O | Explanation   |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)  |
| inDataType     | I   | Data type   |
| inCalId        | I   | User ID (8 characters)<br>* The user ID will be overwritten by the ID that was last set.  |
| inCalData      | I   | User calibration data (range: 50.0 to 150.0)<br>* Store the data from the beginning of the array in the amount of DataSize that was obtained with <a href="#">CMMISDK_GetInstrumentInfo</a> . |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |     |    |       |       |       |
|-------|-------|-------|-------|-----|----|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d | M6 | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | x   | x  | V1.0~ | V1.0~ | V1.0~ |

**Description:**

This function sets the user calibration data.

User calibration is executed using the data set via this function.

If the user ID is blank, it will be treated as if there is no data.

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**CMMISDK\_GetUserCalibrationData: Obtains the user calibration data.**

**Format:**

```
error_km CMMISDK.GetUserCalibrationData(int32_km inInstrumentNo, CMMISDK\_CalDataType
inDataType, CMMISDK\_UserCalId* outCalId, CMMISDK\_Data* outCalData)
```

**Arguments:**

| Name           | I/O | Explanation   |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)  |
| inDataType     | I   | Data type   |
| outCalId       | O   | User ID   |
| outCalData     | O   | User calibration data<br>* Data in the amount of DataSize that was obtained with<br><a href="#">CMMISDK_GetInstrumentInfo</a> is stored from the beginning<br>of the array. |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |     |    |       |       |       |
|-------|-------|-------|-------|-----|----|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d | M6 | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | x   | x  | V1.0~ | V1.0~ | V1.0~ |

**Description:**

This function obtains the user calibration data.

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**CMMISDK\_SetUserCalibrationEnable: Enables and disables user calibration.**

**Format:**

```
error_km     CMMISDK_SetUserCalibrationEnable(int32_km      inInstrumentNo,      CMMISDK\_OnOff
inCalEnable)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inCalEnable    | I   | User calibration on/off    |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |     |    |       |       |       |
|-------|-------|-------|-------|-----|----|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d | M6 | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | x   | x  | V1.0~ | V1.0~ | V1.0~ |

**Description:**

This function enables and disables user calibration.

If user calibration is turned on, perform user calibration instead of white calibration.

**CMMISDK\_GetUserCalibrationEnable: Obtains the user calibration enabled or disabled state.**

**Format:**

```
error_km    CMMISDK_GetUserCalibrationEnable(int32_km    inInstrumentNo,    CMMISDK\_OnOff*  
outCalEnable)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outCalEnable   | O   | User calibration on/off    |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |     |    |       |       |       |
|-------|-------|-------|-------|-----|----|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d | M6 | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | x   | x  | V1.0~ | V1.0~ | V1.0~ |

**Description:**

This function obtains the user calibration enabled or disabled state.

**CMMISDK\_SetTriggerMode: Enables and disables trigger mode.**

**Format:**

error\_km CMMISDK\_SetTriggerMode(int32\_km inInstrumentNo, [CMMISDK\\_OnOff](#) inTrigger)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inTrigger      | I   | Trigger mode               |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |

**Description:**

This function enables and disables trigger mode.

If the trigger mode is turned on, the instrument key can be used as a measurement trigger.

To obtain the data, confirm the availability of the data with [CMMISDK\\_IsTriggerData](#), and then use [CMMISDK\\_ReadLatestData](#) or [CMMISDK\\_LoadLatestData](#).

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**CMMISDK\_GetTriggerMode:** Obtains the trigger mode enabled or disabled state.

**Format:**

error\_km CMMISDK\_GetTriggerMode(int32\_km inInstrumentNo, [CMMISDK\\_OnOff](#)\* outTrigger)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outTrigger     | O   | Trigger mode               |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |

**Description:**

This function obtains the trigger mode enabled or disabled state.

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**CMMISDK\_ClearTriggerData: Clears the trigger mode data.**

**Format:**

error\_km CMMISDK\_ClearTriggerData(int32\_km inInstrumentNo)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |

**Description:**

This function clears the data measured with the instrument key.

Use this function to clear the data after you have taken a measurement using the instrument key and finished obtaining the data.

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**CMMISDK\_IsTriggerData: Obtains the availability of trigger mode data.**

**Format:**

error\_km CMMISDK\_IsTriggerData(int32\_km inInstrumentNo, [CMMISDK\\_OnOff](#)\* outData)

**Arguments:**

| Name           | I/O | Explanation                       |
|----------------|-----|-----------------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)        |
| outData        | O   | Availability of trigger mode data |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |

**Description:**

This function obtains the availability of trigger mode data.

If the function returns a value of on, there is data. The data can be obtained by using

[CMMISDK\\_ReadLatestData](#).

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**CMMISDK\_GetZeroCalibrationDate:** Obtains the zero calibration date and time.

**Format:**

error\_km CMMISDK\_GetZeroCalibrationDate(int32\_km inInstrumentNo, [CMMISDK\\_DateType](#) inType,  
[CMMISDK\\_DateTime](#)\* outDate)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inDateTime     | I   | Date/time type             |
| outDate        | O   | Zero calibration date/time |

**Return Value:**

| Definition value                        | Explanation   |
|---|---|
| <a href="#">KmSuccess</a>               | The processing was completed normally.  |
| <a href="#">KmWarning</a>               | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>           | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a>    | The specified parameter is incorrect.   |
| <a href="#">KmErConnectFailed</a>       | Failed to connect to the instrument. Or, connection is not established using Connect. |
| <a href="#">KmErCalibrationRequired</a> | Necessary calibration was not executed beforehand.                                    |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function obtains the zero calibration date and time.

If calibration was not executed, this function returns [KmErCalibrationRequired](#).

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**[Rev1.04]**

**CMMISDK\_GetWhiteCalibrationDate: Obtains the white calibration date and time.**

**Format:**

```
error_km  CMMISDK_GetWhiteCalibrationDate(int32_km  inInstrumentNo,  CMMISDK\_DateTime*  
outDate)
```

**Arguments:**

| Name           | I/O | Explanation                 |
|----------------|-----|-----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)  |
| outDate        | O   | White calibration date/time |

**Return Value:**

| Definition value                        | Explanation   |
|---|---|
| <a href="#">KmSuccess</a>               | The processing was completed normally.  |
| <a href="#">KmWarning</a>               | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>           | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a>    | The specified parameter is incorrect.   |
| <a href="#">KmErConnectFailed</a>       | Failed to connect to the instrument. Or, connection is not established using Connect. |
| <a href="#">KmErCalibrationRequired</a> | Necessary calibration was not executed beforehand.                                    |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function obtains the white calibration date and time.

If calibration was not executed, this function returns [KmErCalibrationRequired](#).

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**[Rev1.04]**

**CMMISDK\_GetGlossCalibrationDate:** Obtains the gloss calibration date and time.

**Format:**

```
error_km  CMMISDK_GetGlossCalibrationDate(int32_km    inInstrumentNo,    CMMISDK\_DateTime*  
outDate)
```

**Arguments:**

| Name           | I/O | Explanation                 |
|----------------|-----|-----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)  |
| outDate        | O   | Gloss calibration date/time |

**Return Value:**

| Definition value                        | Explanation   |
|---|---|
| <a href="#">KmSuccess</a>               | The processing was completed normally.  |
| <a href="#">KmWarning</a>               | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>           | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a>    | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>       | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>       | Failed to connect to the instrument. Or, connection is not established using Connect. |
| <a href="#">KmErCalibrationRequired</a> | Necessary calibration was not executed beforehand.                                    |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |     |     |     |    |       |     |       |
|-------|-------|-----|-----|-----|----|-------|-----|-------|
| 25cG  | 26dG  | 26d | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| V1.0~ | V1.1~ | x   | x   | x   | x  | V1.0~ | x   | x     |

**Description:**

This function obtains the gloss calibration date and time.

If calibration was not executed, this function returns [KmErCalibrationRequired](#).

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**[Rev1.04]**

**CMMISDK\_GetUserCalibrationDate:** Obtains the user calibration date and time.

**Format:**

error\_km CMMISDK\_GetUserCalibrationDate(int32\_km inInstrumentNo, [CMMISDK\\_DateTime](#)\* outDate)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outDate        | O   | User calibration date/time |

**Return Value:**

| Definition value                        | Explanation   |
|---|---|
| <a href="#">KmSuccess</a>               | The processing was completed normally.  |
| <a href="#">KmWarning</a>               | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>           | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a>    | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>       | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>       | Failed to connect to the instrument. Or, connection is not established using Connect. |
| <a href="#">KmErCalibrationRequired</a> | Necessary calibration was not executed beforehand.                                    |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |     |    |       |       |       |
|-------|-------|-------|-------|-----|----|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d | M6 | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | x   | x  | V1.0~ | V1.0~ | V1.0~ |

**Description:**

This function obtains the user calibration date and time.

If calibration was not executed, this function returns [KmErCalibrationRequired](#).

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**[Rev1.04]**

**CMMISDK\_ClearUvAdjustInfo: Clears various data for fluorescence adjustment.**

**Format:**

error\_km CMMISDK\_ClearUvAdjustInfo(int32\_km inInstrumentNo)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |     |     |    |       |     |       |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| x    | V1.1~ | V1.1~ | x   | x   | x  | V1.0~ | x   | V1.0~ |

**Description:**

This function clears various data for fluorescence adjustment.

Such data includes profile, WI, Tint, ISO brightness, Ganz & Griesser, and fluorescence coefficient/correction value information.

To clear fluorescence coefficient/correction value information in the instrument, use [CMMISDK\\_ClearCoefForUvAdjust](#).

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**[Rev1.04]**

**CMMISDK\_SetProfileForUvAdjust:** Sets the fluorescence adjustment profile data.

**Format 1:**

```
error_km CMMISDK_SetProfileForUvAdjust(int32_km inInstrumentNo, const CMMISDK\_Data\* inData)
```

**Format 2:**

```
error_km CMMISDK_SetEachProfileForUvAdjust(int32_km inInstrumentNo,  
CMMISDK\_UvAdjustDataType inType, const CMMISDK\_Data\* inData)
```

**Arguments:**

| Name           | I/O | Explanation   |                |
|----------------|-----|---|----------------|
| inInstrumentNo | I   | Instrument number (0 to 7)                          |                |
| inType         | I   | Type of data to be set                              |                |
| inData         | I   | Fluorescence adjustment profile data<br>Value range | 0.01 to 200.00 |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |     |     |    |       |     |       |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| x    | V1.1~ | V1.1~ | x   | x   | x  | V1.0~ | x   | V1.0~ |

**Description:**

This function sets the fluorescence adjustment profile data.

For Format 1, this function sets the same value for all data types that can be set.

**CMMISDK\_GetProfileForUvAdjust: Obtains the fluorescence adjustment profile data.**

**Format 1:**

error\_km CMMISDK\_GetProfileForUvAdjust(int32\_km inInstrumentNo, [CMMISDK\\_Data\\*](#) outData)

**Format 2:**

error\_km CMMISDK\_GetEachProfileForUvAdjust(int32\_km inInstrumentNo, [CMMISDK\\_UvAdjustDataType](#) inType, [CMMISDK\\_Data\\*](#) outData)

**Arguments:**

| Name           | I/O | Explanation                          |
|----------------|-----|--------------------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)           |
| inType         | I   | Type of data to be get               |
| outData        | O   | Fluorescence adjustment profile data |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErNoData</a>           | No data   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |     |     |    |       |     |       |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| ×    | V1.1~ | V1.1~ | ×   | ×   | ×  | V1.0~ | ×   | V1.0~ |

**Description:**

This function obtains the fluorescence adjustment profile data.

For Format 1, this function returns the first data for the data type.

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**[Rev1.04]**

**CMMISDK\_SetWiForUvAdjust:** Sets the WI for fluorescence adjustment.

**Format 1:**

```
error_km CMMISDK_SetWiForUvAdjust(int32_km inInstrumentNo, const CMMISDK\_UvAdjustIndex\*  
inData)
```

**Format 2:**

```
error_km CMMISDK_SetEachWiForUvAdjust(int32_km inInstrumentNo, CMMISDK\_UvAdjustDataType  
inType, const CMMISDK\_UvAdjustIndex\* inData)
```

**Arguments:**

| Name           | I/O | Explanation                    |                 |
|----------------|-----|--------------------------------|-----------------|
| inInstrumentNo | I   | Instrument number (0 to 7)     |                 |
| inType         | I   | Type of data to be set         |                 |
| inData         | I   | WI for fluorescence adjustment |                 |
|                |     | Value range                    | 40.00 to 250.00 |
|                |     | Tolerance range                | 0.20 to 3.00    |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |     |     |    |       |     |       |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| x    | V1.1~ | V1.1~ | x   | x   | x  | V1.0~ | x   | V1.0~ |

**Description:**

This function sets the WI for fluorescence adjustment.

For Format 1, this function sets the same value for all data types that can be set.

**CMMISDK\_GetWiForUvAdjust: Obtains the WI for fluorescence adjustment.**

**Format 1:**

```
error_km CMMISDK_GetWiForUvAdjust(int32_km inInstrumentNo, CMMISDK\_UvAdjustIndex\*  
outData)
```

**Format 2:**

```
error_km CMMISDK_GetEachWiForUvAdjust(int32_km inInstrumentNo, CMMISDK\_UvAdjustDataType  
inType, CMMISDK\_UvAdjustIndex\* outData)
```

**Arguments:**

| Name           | I/O | Explanation                    |
|----------------|-----|--------------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)     |
| inType         | I   | Type of data to be get         |
| outData        | O   | WI for fluorescence adjustment |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErNoData</a>           | No data   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |     |     |    |       |     |       |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| x    | V1.1~ | V1.1~ | x   | x   | x  | V1.0~ | x   | V1.0~ |

**Description:**

This function obtains the WI for fluorescence adjustment.

For Format 1, this function returns the first data for the data type.

**CMMISDK\_SetTintForUvAdjust: Sets the Tint for fluorescence adjustment.**

**Format 1:**

```
error_km CMMISDK_SetTintForUvAdjust(int32_km inInstrumentNo, const CMMISDK\_UvAdjustIndex\*  
inData)
```

**Format 2:**

```
error_km CMMISDK_SetEachTintForUvAdjust(int32_km inInstrumentNo, CMMISDK\_UvAdjustDataType  
inType, const CMMISDK\_UvAdjustIndex\* inData)
```

**Arguments:**

| Name           | I/O | Explanation                      |               |
|----------------|-----|----------------------------------|---------------|
| inInstrumentNo | I   | Instrument number (0 to 7)       |               |
| inType         | I   | Type of data to be set           |               |
| inData         | I   | Tint for fluorescence adjustment |               |
|                |     | Value range                      | -6.00 to 6.00 |
|                |     | Tolerance range                  | 0.05 to 0.30  |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| x    | V1.1~ | V1.1~ | x   | x   | x  | V1.0~ | x   | V1.0~ |

**Description:**

This function sets the Tint for fluorescence adjustment.

For Format 1, this function sets the same value for all data types that can be set.

**CMMISDK\_GetTintForUvAdjust: Obtains the Tint for fluorescence adjustment.**

**Format 1:**

```
error_km CMMISDK_GetTintForUvAdjust(int32_km inInstrumentNo, CMMISDK\_UvAdjustIndex\*  
outData)
```

**Format 2:**

```
error_km CMMISDK_GetEachTintForUvAdjust(int32_km inInstrumentNo, CMMISDK\_UvAdjustDataType  
inType, CMMISDK\_UvAdjustIndex\* outData)
```

**Arguments:**

| Name           | I/O | Explanation                      |
|----------------|-----|----------------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)       |
| inType         | I   | Type of data to be get           |
| outData        | O   | Tint for fluorescence adjustment |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErNoData</a>           | No data   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |     |     |    |       |     |       |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| x    | V1.1~ | V1.1~ | x   | x   | x  | V1.0~ | x   | V1.0~ |

**Description:**

This function obtains the Tint for fluorescence adjustment.

For Format 1, this function returns the first data for the data type.

**CMMISDK\_SetIsoBrightnessForUvAdjust:** Sets the ISO brightness for fluorescence adjustment.

**Format 1:**

```
error_km      CMMISDK_SetIsoBrightnessForUvAdjust(int32_km      inInstrumentNo,      const
CMMISDK_UvAdjustIndex* inData)
```

**Format 2:**

```
error_km      CMMISDK_SetEachIsoBrightnessForUvAdjust(int32_km      inInstrumentNo,
CMMISDK_UvAdjustDataType inType, const CMMISDK_UvAdjustIndex* inData)
```

**Arguments:**

| Name           | I/O | Explanation                                |                 |
|----------------|-----|--|-----------------|
| inInstrumentNo | I   | Instrument number (0 to 7)                 |                 |
| inType         | I   | Type of data to be set                     |                 |
| inData         | I   | ISO brightness for fluorescence adjustment |                 |
|                |     | Value range                                | 40.00 to 250.00 |
|                |     | Tolerance range                            | 0.50 to 3.00    |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |     |     |    |       |     |       |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| x    | V1.1~ | V1.1~ | x   | x   | x  | V1.0~ | x   | V1.0~ |

**Description:**

This function sets the ISO brightness for fluorescence adjustment.

For Format 1, this function sets the same value for all data types that can be set.

**CMMISDK\_GetIsoBrightnessForUvAdjust: Obtains the ISO brightness for fluorescence adjustment.**

**Format 1:**

|          |   |                 |
|----------|---|-----------------|
| error_km | CMMISDK_GetIsoBrightnessForUvAdjust(int32_km<br><a href="#">CMMISDK_UvAdjustIndex*</a> outData) | inInstrumentNo, |
|----------|---|-----------------|

**Format 2:**

|          |  |                 |
|----------|--|-----------------|
| error_km | CMMISDK_GetEachIsoBrightnessForUvAdjust(int32_km<br><a href="#">CMMISDK_UvAdjustDataType</a> inType, <a href="#">CMMISDK_UvAdjustIndex*</a> outData) | inInstrumentNo, |
|----------|--|-----------------|

**Arguments:**

| Name           | I/O | Explanation                                |
|----------------|-----|--|
| inInstrumentNo | I   | Instrument number (0 to 7)                 |
| inType         | I   | Type of data to be get                     |
| outData        | O   | ISO brightness for fluorescence adjustment |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErNoData</a>           | No data   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |     |     |    |       |     |       |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| x    | V1.1~ | V1.1~ | x   | x   | x  | V1.0~ | x   | V1.0~ |

**Description:**

This function obtains the ISO brightness for fluorescence adjustment.

For Format 1, this function returns the first data for the data type.

**CMMISDK\_SetGanzForUvAdjust: Sets the Ganz & Griesser for fluorescence adjustment.**

**Format 1:**

```
error_km CMMISDK_SetGanzForUvAdjust(int32_km inInstrumentNo, const CMMISDK\_UvAdjustGG\*
inData)
```

**Format 2:**

```
error_km CMMISDK_SetGanzForUvAdjust(int32_km inInstrumentNo, CMMISDK\_UvAdjustDataType
inType, const CMMISDK\_UvAdjustGG\* inData)
```

**Arguments:**

| Name           | I/O | Explanation                                 |                 |
|----------------|-----|---|-----------------|
| inInstrumentNo | I   | Instrument number (0 to 7)                  |                 |
| inType         | I   | Type of data to be set                      |                 |
| inData         | I   | Ganz & Griesser for fluorescence adjustment |                 |
|                |     | WI range                                    | 40.00 to 250.00 |
|                |     | Tint range                                  | -6.00 to 6.00   |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| x    | V1.1~ | V1.1~ | x   | x   | x  | V1.0~ | x   | V1.0~ |

**Description:**

This function sets the Ganz & Griesser targets for fluorescence adjustment.

For Format 1, this function sets the same value for all data types that can be set.

**CMMISDK\_GetGanzForUvAdjust: Obtains the Ganz & Griesser for fluorescence adjustment.**

**Format 1:**

error\_km CMMISDK\_GetGanzForUvAdjust(int32\_km inInstrumentNo, [CMMISDK\\_UvAdjustGG\\*](#) outData)

**Format 2:**

error\_km CMMISDK\_GetGanzForUvAdjust(int32\_km inInstrumentNo, [CMMISDK\\_UvAdjustDataType](#) inType, [CMMISDK\\_UvAdjustGG\\*](#) outData)

**Arguments:**

| Name           | I/O | Explanation                                 |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)                  |
| inType         | I   | Type of data to be get                      |
| outData        | O   | Ganz & Griesser for fluorescence adjustment |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErNoData</a>           | No data   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |     |     |    |       |     |       |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| x    | V1.1~ | V1.1~ | x   | x   | x  | V1.0~ | x   | V1.0~ |

**Description:**

This function obtains the Ganz & Griesser targets for fluorescence measurement.

For Format 1, this function returns the first data for the data type.

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**CMMISDK\_SetDataForUvAdjust: Sets the data for fluorescence adjustment.**

**Format:**

```
error_km CMMISDK_SetDataForUvAdjust(int32_km inInstrumentNo, CMMISDK\_UvAdjustDataType
inType, int32_km inNum, const CMMISDK\_Data* inFull, const CMMISDK\_Data* inCut)
```

**Arguments:**

| Name           | I/O            | Explanation   |  |             |                |
|----------------|----------------|---|--|-------------|----------------|
| inInstrumentNo | I              | Instrument number (0 to 7)  |  |             |                |
| inType         | I              | Data types for fluorescence adjustment  |  |             |                |
| inNum          | I              | No.<br>* When not using Ganz & Griesser: "0" only<br>* When using Ganz & Griesser: "0" to "3" or "0" to "4" |  |             |                |
| inFull         | I              | UV full measurement data  | <table border="1"><tr><td>Value range</td><td>0.00 to 300.00</td></tr></table> | Value range | 0.00 to 300.00 |
| Value range    | 0.00 to 300.00 |   |  |             |                |
| inCut          | I              | UV cut measurement data   | <table border="1"><tr><td>Value range</td><td>0.00 to 300.00</td></tr></table> | Value range | 0.00 to 300.00 |
| Value range    | 0.00 to 300.00 |   |  |             |                |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |     |     |    |       |     |       |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| x    | V1.1~ | V1.1~ | x   | x   | x  | V1.0~ | x   | V1.0~ |

**Description:**

This function sets the data for fluorescence adjustment.

When using the Ganz & Griesser method, the data must be set by using this API.

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**[Rev1.04]**

**CMMISDK\_GetDataForUvAdjust: Obtains the data for fluorescence adjustment.**

**Format:**

```
error_km CMMISDK_GetDataForUvAdjust(int32_km inInstrumentNo, CMMISDK\_UvAdjustDataType
inType, int32_km inNum, CMMISDK\_Data* outFull, CMMISDK\_Data* outCut)
```

**Arguments:**

| Name           | I/O | Explanation   |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)  |
| inType         | I   | Data types for fluorescence adjustment  |
| inNum          | I   | No.<br>* When not using Ganz & Griesser: "0" only<br>* When using Ganz & Griesser: "0" to "3" or "0" to "4" |
| outFull        | O   | UV full measurement data  |
| outCut         | O   | UV cut measurement data   |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErNoData</a>           | No data   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |     |     |    |       |     |       |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| x    | V1.1~ | V1.1~ | x   | x   | x  | V1.0~ | x   | V1.0~ |

**Description:**

This function obtains the data for fluorescence adjustment.

**CMMISDK\_PerformUvAdjust:** Executes fluorescence adjustment and sets the coefficient to the instrument.

**Format:**

error\_km CMMISDK\_PerformUvAdjust(int32\_km inInstrumentNo, [CMMISDK\\_CondUvAdjust](#) inCond)

**Arguments:**

| Name           | I/O | Explanation                            |
|----------------|-----|--|
| inInstrumentNo | I   | Instrument number (0 to 7)             |
| inCond         | I   | Conditions for fluorescence adjustment |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |
| <a href="#">KmErNoData</a>           | The data does not exist (the required data is not available).                         |
| <a href="#">KmErUvAdjust</a>         | The measurement sample does not contain fluorescence.                                 |
| <a href="#">KmErCalculateCoef</a>    | The fluorescence coefficient cannot be calculated.                                    |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |     |     |    |       |     |       |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| x    | V1.1~ | V1.1~ | x   | x   | x  | V1.0~ | x   | V1.0~ |

**Description:**

This function executes fluorescence adjustment.

This API executes measurement, calculates the fluorescence coefficient under the specified conditions, and then writes the data to the instrument.

If UVADJ\_GG is specified in the conditions, [KmErInvalidParameter](#) will be returned.

If fluorescence adjustment is performed using the Ganz & Griesser method,

[CMMISDK\\_PerformUvAdjustUsingData](#) should be used.

**CMMISDK\_PerformUvAdjustUsingData: Executes fluorescence adjustment and sets the coefficient to the instrument.**

**Format:**

error\_km CMMISDK\_PerformUvAdjustUsingData(int32\_km inInstrumentNo, [CMMISDK\\_CondUvAdjust](#) inCond)

**Arguments:**

| Name           | I/O | Explanation                            |
|----------------|-----|--|
| inInstrumentNo | I   | Instrument number (0 to 7)             |
| inCond         | I   | Conditions for fluorescence adjustment |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |
| <a href="#">KmErNoData</a>           | The data does not exist (the required data is not available).                         |
| <a href="#">KmErUvAdjust</a>         | The measurement sample does not contain fluorescence.                                 |
| <a href="#">KmErCalculateCoef</a>    | The fluorescence coefficient cannot be calculated.                                    |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |     |     |    |       |     |       |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| x    | V1.1~ | V1.1~ | x   | x   | x  | V1.0~ | x   | V1.0~ |

**Description:**

This function executes fluorescence adjustment.

This API uses the data from [CMMISDK\\_SetDataForUvAdjust](#), calculates the fluorescence coefficient under the specified conditions, and then writes the data to the instrument.

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**CMMISDK\_ClearCoefForUvAdjust: Clears the fluorescence adjustment coefficient in the instrument.**

**Format:**

```
error_km CMMISDK_ClearCoefForUvAdjust(int32_km inInstrumentNo)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |     |     |    |       |     |       |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| x    | V1.1~ | V1.1~ | x   | x   | x  | V1.0~ | x   | V1.0~ |

**Description:**

This function clears the fluorescence adjustment coefficient saved in the instrument.

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**[Rev1.04]**

**CMMISDK\_SetCoefForUvAdjust:** Sets the fluorescence coefficient.

**Format:**

```
error_km CMMISDK_SetCoefForUvAdjust(int32_km inInstrumentNo, CMMISDK\_MeasArea inArea,  
CMMISDK\_UvAdjustDataType inType, CMMISDK\_CondUvAdjust inCond, const CMMISDK\_UvAdjustCoef*  
inCoef)
```

**Arguments:**

| Name           | I/O | Explanation                            |
|----------------|-----|--|
| inInstrumentNo | I   | Instrument number (0 to 7)             |
| inArea         | I   | Measurement area                       |
| inType         | I   | Type of data to be set                 |
| inCond         | I   | Conditions for fluorescence adjustment |
| inCoef         | I   | Fluorescence adjustment coefficient    |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |     |     |    |       |     |       |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| x    | V1.1~ | V1.1~ | x   | x   | x  | V1.0~ | x   | V1.0~ |

**Description:**

This function sets the fluorescence coefficient in the instrument.

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**CMMISDK\_GetCoefForUvAdjust: Obtains the fluorescence coefficient.**

**Format:**

```
error_km CMMISDK_GetCoefForUvAdjust(int32_km inInstrumentNo, CMMISDK\_MeasArea inArea,  
CMMISDK\_UvAdjustDataType inType, CMMISDK\_CondUvAdjust* outCond, CMMISDK\_UvAdjustCoef*  
outCoef)
```

**Arguments:**

| Name           | I/O | Explanation                            |
|----------------|-----|--|
| inInstrumentNo | I   | Instrument number (0 to 7)             |
| inArea         | I   | Measurement area                       |
| inType         | I   | Type of data to be get                 |
| outCond        | O   | Conditions for fluorescence adjustment |
| outCoef        | O   | Fluorescence adjustment coefficient    |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErNoData</a>           | No data   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |     |     |    |       |     |       |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| x    | V1.1~ | V1.1~ | x   | x   | x  | V1.0~ | x   | V1.0~ |

**Description:**

This method obtains the fluorescence coefficient in the instrument.

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**[Rev1.04]**

**CMMISDK\_SetOutputMinus: Enables and disables output of negative values.**

**Format:**

error\_km CMMISDK\_SetOutputMinus(int32\_km inInstrumentNo, [CMMISDK\\_OnOff](#) inCalEnable)

**Arguments:**

| Name           | I/O | Explanation                              |
|----------------|-----|--|
| inInstrumentNo | I   | Instrument number (0 to 7)               |
| inEnable       | I   | Enable/disable output of negative values |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

| 25cG | 26dG | 26d | 25d | 23d | M6 | 36dG  | 36d   | 3630A |
|------|------|-----|-----|-----|----|-------|-------|-------|
| x    | x    | x   | x   | x   | x  | V1.0~ | V1.0~ | x     |

**Description:**

This function sets whether or not to output negative reflectance values.

If OutputMinus is enabled, the instrument will output reflectance/transmittance values of 0% or less.

If OutputMinus is disabled, the instrument will output reflectance/transmittance of 0% or less as 0.01. This function can be used when calculating strength and absorbance.

**CMMISDK\_GetOutputMinus: Obtains the output of negative values enabled or disabled state.**

**Format:**

error\_km CMMISDK\_GetOutputMinus(int32\_km inInstrumentNo, [CMMISDK\\_OnOff](#)\* outCalEnable)

**Arguments:**

| Name           | I/O | Explanation                              |
|----------------|-----|--|
| inInstrumentNo | I   | Instrument number (0 to 7)               |
| outEnable      | O   | Enable/disable output of negative values |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

| 25cG | 26dG | 26d | 25d | 23d | M6 | 36dG  | 36d   | 3630A |
|------|------|-----|-----|-----|----|-------|-------|-------|
| x    | x    | x   | x   | x   | x  | V1.0~ | V1.0~ | x     |

**Description:**

This function obtains the output of negative values enabled or disabled state.

#### **4.4 Measurement conditions (instruments settings)**

**CMMISDK\_SetMeasurementArea:** Sets the measurement area.

**Format:**

error\_km CMMISDK\_SetMeasurementArea(int32\_km inInstrumentNo, [CMMISDK\\_MeasArea](#) inArea)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inArea         | I   | Measurement area           |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

| 25cG | 26dG | 26d | 25d | 23d | M6 | 36dG  | 36d   | 3630A |
|------|------|-----|-----|-----|----|-------|-------|-------|
| x    | x    | x   | x   | x   | x  | V1.0~ | V1.0~ | V1.0~ |

**Description:**

This function sets the measurement area.

Calibration may be required again when conditions are changed.

Use [CMMISDK\\_GetCalibrationStatus](#) to determine whether calibration is necessary.

\* For the 36dG

Regarding gloss measurement, if the measurement area is SAV, it is set to SAV.

If the measurement area is not SAV, it is set to MAV.

\* When this API sets AREA\_AUTO

Use [CMMISDK\\_SetFinderEnable](#) to enable the camera.

Use [CMMISDK\\_GetDetectedMask](#) to get the measurement area.

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**CMMISDK\_GetMeasurementArea: Obtains the measurement area.**

**Format:**

error\_km CMMISDK\_GetMeasurementArea(int32\_km inInstrumentNo, [CMMISDK\\_MeasArea](#)\* outArea)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outArea        | O   | Measurement area           |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |     |     |    |       |       |       |
|-------|-------|-------|-----|-----|----|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ | x   | x   | x  | V1.0~ | V1.0~ | V1.0~ |

**Description:**

This function obtains the measurement area.

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**CMMISDK\_SetMeasurementType:** Sets the measurement type.

**Format:**

error\_km CMMISDK\_SetMeasurementType(int32\_km inInstrumentNo, [CMMISDK\\_MeasType](#) inType)

**Arguments:**

| Name           | I/O | Explanation                 |
|----------------|-----|-----------------------------|
| inInstrumentNo | I   | Colorimeter number (0 to 7) |
| inType         | I   | Measurement type            |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |      |     |     |     |    |       |     |       |
|------|------|-----|-----|-----|----|-------|-----|-------|
| 25cG | 26dG | 26d | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| x    | x    | x   | x   | x   | x  | V1.0~ | x   | x     |

**Description:**

This function sets the measurement type.

Calibration may be required again when conditions are changed.

Use [CMMISDK\\_GetCalibrationStatus](#) to determine whether calibration is necessary.

When using transmitted, use [CMMISDK\\_SetMeasurementMode](#) to set MEASMODE\_COLORONLY.

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**CMMISDK\_GetMeasurementType:** Obtains the measurement type.

**Format:**

error\_km CMMISDK\_GetMeasurementType(int32\_km inInstrumentNo, [CMMISDK\\_MeasType](#)\* outType)

**Arguments:**

| Name           | I/O | Explanation                 |
|----------------|-----|-----------------------------|
| inInstrumentNo | I   | Colorimeter number (0 to 7) |
| outType        | O   | Measurement type            |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

| 25cG | 26dG | 26d | 25d | 23d | M6 | 36dG  | 36d | 3630A |
|------|------|-----|-----|-----|----|-------|-----|-------|
| x    | x    | x   | x   | x   | x  | V1.0~ | x   | x     |

**Description:**

This function obtains the measurement type.

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**CMMISDK\_SetMeasurementAngle: Sets the measurement angle.**

**Format:**

error\_km CMMISDK\_SetMeasurementAngle(int32\_km inInstrumentNo, [CMMISDK\\_MeasAngle](#) inAngle)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inAngle        | I   | Measurement angle          |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |      |     |     |     |       |      |     |       |
|------|------|-----|-----|-----|-------|------|-----|-------|
| 25cG | 26dG | 26d | 25d | 23d | M6    | 36dG | 36d | 3630A |
| x    | x    | x   | x   | x   | V1.0~ | x    | x   | x     |

**Description:**

This function sets the measurement angle.

If at least one angle is specified, the angle(s) can be set with any combination.

**CMMISDK\_GetMeasurementAngle: Obtains the measurement angle.**

**Format:**

error\_km CMMISDK\_GetMeasurementAngle(int32\_km inInstrumentNo, [CMMISDK\\_MeasAngle](#)\* outAngle)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outAngle       | O   | Measurement angle          |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |      |     |     |     |       |      |     |       |
|------|------|-----|-----|-----|-------|------|-----|-------|
| 25cG | 26dG | 26d | 25d | 23d | M6    | 36dG | 36d | 3630A |
| x    | x    | x   | x   | x   | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the measurement angle.

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**CMMISDK\_SetTiltDetection: Sets tilt detection.**

**Format:**

error\_km CMMISDK\_SetTiltDetection(int32\_km inInstrumentNo, [CMMISDK\\_OnOff](#) inDetection)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inDetection    | I   | Tilt detection             |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |      |     |     |     |       |      |     |       |
|------|------|-----|-----|-----|-------|------|-----|-------|
| 25cG | 26dG | 26d | 25d | 23d | M6    | 36dG | 36d | 3630A |
| x    | x    | x   | x   | x   | V1.0~ | x    | x   | x     |

**Description:**

This function sets tilt detection.

If tilt detection is on, an error will be output when tilting is detected that exceeds a certain degree during measurements.

**CMMISDK\_GetTiltDetection: Obtains whether tilt detection is enabled or disabled.**

**Format:**

error\_km CMMISDK\_GetTiltDetection(int32\_km inInstrumentNo, [CMMISDK\\_OnOff](#)\* outDetection)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outDetection   | O   | Tilt detection             |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |      |     |     |     |       |      |     |       |
|------|------|-----|-----|-----|-------|------|-----|-------|
| 25cG | 26dG | 26d | 25d | 23d | M6    | 36dG | 36d | 3630A |
| x    | x    | x   | x   | x   | V1.0~ | x    | x   | x     |

**Description:**

This function obtains whether tilt detection is enabled or disabled.

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**CMMISDK\_SetMeasurementMode: Sets the measurement mode.**

**Format:**

error\_km CMMISDK\_SetMeasurementMode(int32\_km inInstrumentNo, [CMMISDK\\_MeasMode](#) inMode)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inMode         | I   | Measurement mode           |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |    |       |     |       |
|-------|-------|-------|-------|-------|----|-------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG  | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | V1.0~ | x   | x     |

**Description:**

This function sets the measurement mode.

Calibration may be required again when conditions are changed.

Use [CMMISDK\\_GetCalibrationStatus](#) to determine whether calibration is necessary.

**CMMISDK\_GetMeasurementMode: Obtains the measurement mode.**

**Format:**

error\_km CMMISDK\_GetMeasurementMode(int32\_km inInstrumentNo, [CMMISDK\\_MeasMode](#)\* outMode)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outMode        | O   | Measurement mode           |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |    |       |     |       |
|-------|-------|-------|-------|-------|----|-------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG  | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | V1.0~ | x   | x     |

**Description:**

This function obtains the measurement mode.

### **CMMISDK\_SetSpecularComponent: Sets the specular component.**

**Format:**

```
error_km CMMISDK_SetSpecularComponent(int32_km inInstrumentNo, CMMISDK\_SpecularComponent
inSpecularComponent)
```

**Arguments:**

| Name                | I/O | Explanation                |
|---------------------|-----|----------------------------|
| inInstrumentNo      | I   | Instrument number (0 to 7) |
| inSpecularComponent | I   | Specular component         |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

| 25cG | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG  | 36d   | 3630A |
|------|-------|-------|-------|-------|----|-------|-------|-------|
| x    | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | V1.0~ | V1.0~ | x     |

**Description:**

This function sets the specular component.

Calibration may be required again when conditions are changed.

Use [CMMISDK\\_GetCalibrationStatus](#) to determine whether calibration is necessary.

### **CMMISDK\_GetSpecularComponent: Obtains the specular component.**

**Format:**

```
error_km CMMISDK_GetSpecularComponent(int32_km inInstrumentNo, CMMISDK\_SpecularComponent* outSpecularComponent)
```

**Arguments:**

| Name                 | I/O | Explanation                |
|----------------------|-----|----------------------------|
| inInstrumentNo       | I   | Instrument number (0 to 7) |
| outSpecularComponent | O   | Specular component         |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

| 25cG | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG  | 36d   | 3630A |
|------|-------|-------|-------|-------|----|-------|-------|-------|
| x    | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | V1.0~ | V1.0~ | x     |

**Description:**

This function obtains the specular component.

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### CMMISDK\_SetUv: Sets the UV condition.

**Format:**

error\_km CMMISDK\_SetUv(int32\_km inInstrumentNo, [CMMISDK\\_Uv](#) inUv)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inUv           | I   | UV condition               |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |     |     |    |       |     |       |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| x    | V1.1~ | V1.0~ | x   | x   | x  | V1.0~ | x   | V1.0~ |

**Description:**

This function sets the UV condition.

### CMMISDK\_GetUv: Obtains the UV condition.

**Format:**

error\_km CMMISDK\_GetUv(int32\_km inInstrumentNo, [CMMISDK\\_Uv](#)\* outUv)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outUv          | O   | UV condition               |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |     |     |    |       |     |       |
|------|-------|-------|-----|-----|----|-------|-----|-------|
| 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
| x    | V1.1~ | V1.0~ | x   | x   | x  | V1.0~ | x   | V1.0~ |

**Description:**

This function obtains the UV condition.

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**CMMISDK\_SetAutoAverageTimes:** Sets the number of times of automatic averaging.

**Format:**

error\_km CMMISDK\_SetAutoAverageTimes(int32\_km inInstrumentNo, int32\_km inTimes)

**Arguments:**

| Name           | I/O | Explanation                                   |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)                    |
| inTimes        | I   | Number of times of automatic averaging (1-10) |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function sets the number of times of automatic averaging.

[CMMISDK\\_PerformMeasurement](#) function executes measurements for the number of times specified in this condition.

[CMMISDK\\_CancelMeasurement](#) can be used when the number of times of automatic averaging is set to multiple times.

**CMMISDK\_GetAutoAverageTimes:** Obtains the number of times of automatic averaging.

**Format:**

error\_km CMMISDK\_GetAutoAverageTimes(int32\_km inInstrumentNo, int32\_km\* outTimes)

**Arguments:**

| Name           | I/O | Explanation                                   |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)                    |
| outTimes       | O   | Number of times of automatic averaging (1-10) |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function obtains the number of times of automatic averaging.

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**CMMISDK\_SetManualAverageTimes: Sets the number of times of manual averaging.**

**Format:**

error\_km CMMISDK\_SetManualAverageTimes(int32\_km inInstrumentNo, int32\_km inTimes)

**Arguments:**

| Name           | I/O | Explanation  |
|----------------|-----|--|
| inInstrumentNo | I   | Instrument number (0 to 7)   |
| inTimes        | I   | Manual average count<br>* The range of the setting is dependent on the instrument and version. Refer to <a href="#">Appendix C</a> . |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets the number of times of manual averaging.

This function is used when performing standalone measurements. It is not applied when communication is used.

**CMMISDK\_GetManualAverageTimes: Obtains the number of times of manual averaging.**

**Format:**

error\_km CMMISDK\_GetManualAverageTimes(int32\_km inInstrumentNo, int32\_km\* outTimes)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outTimes       | O   | Manual average count       |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the number of times of manual averaging.

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**CMMISDK\_SetManualAverageSaveMode: Sets the manual averaging save method.**

**Format:**

```
error_km CMMISDK_SetManualAverageSaveMode(int32_km inInstrumentNo, CMMISDK\_SaveMode inMode)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inMode         | I   | Save method                |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets the manual averaging save method.

**CMMISDK\_GetManualAverageSaveMode: Obtains the manual averaging save method.**

**Format:**

```
error_km CMMISDK_GetManualAverageSaveMode(int32_km inInstrumentNo, CMMISDK\_SaveMode* outMode)
```

**Arguments:**

| Name           | I/O | Explanation                  |
|----------------|-----|------------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)   |
| outMode        | O   | Manual averaging save method |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the manual averaging save method.

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### **CMMISDK\_SetCondSMC: Sets the SMC conditions.**

**Format:**

error\_km CMMISDK\_SetCondSMC(int32\_km inInstrumentNo, const [CMMISDK\\_CondSMC](#)\* inCond)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inCond         | I   | SMC conditions             |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |       |     |    |      |     |       |
|------|-------|-------|-------|-----|----|------|-----|-------|
| 25cG | 26dG  | 26d   | 25d   | 23d | M6 | 36dG | 36d | 3630A |
| x    | V1.1~ | V1.0~ | V1.0~ | x   | x  | x    | x   | x     |

**Description:**

This function sets the SMC conditions.

This condition is only applied to standalone measurements, and not applied when communication is used.

### **CMMISDK\_GetCondSMC: Obtains the SMC conditions.**

**Format:**

error\_km CMMISDK\_GetCondSMC(int32\_km inInstrumentNo, [CMMISDK\\_CondSMC](#)\* outCond)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outCond        | O   | SMC conditions             |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |       |     |    |      |     |       |
|------|-------|-------|-------|-----|----|------|-----|-------|
| 25cG | 26dG  | 26d   | 25d   | 23d | M6 | 36dG | 36d | 3630A |
| x    | V1.1~ | V1.0~ | V1.0~ | x   | x  | x    | x   | x     |

**Description:**

This function obtains the SMC conditions.

## **4.5 Display conditions (instruments settings)**

### **CMMISDK\_SetDisplayType: Sets the display type.**

**Format:**

```
error_km CMMISDK_SetDisplayType(int32_km inInstrumentNo, CMMISDK\_DisplayType inDisplayType)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inDisplayType  | I   | Display Type               |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets the display type.

The display type can be set with any combination.

### **CMMISDK\_GetDisplayType: Obtains the display type.**

**Format:**

```
error_km CMMISDK_GetDisplayType(int32_km inInstrumentNo, CMMISDK\_DisplayType* outDisplayType)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outDisplayType | O   | Display Type               |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the display type.

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**CMMISDK\_SetObserverAndIlluminant: Sets the observation field and illuminant.**

**Format:**

```
error_km = CMMISDK_SetObserverAndIlluminant(int32_km inInstrumentNo, int32_km inNum,  
CMMISDK_Observer inObs, CMMISDK_Illuminant inIll)
```

**Arguments:**

| Name           | I/O | Explanation                                 |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)                  |
| inNum          | I   | Observation field / illuminant number (0-1) |
| inObs          | I   | Observer                                    |
| inIll          | I   | Illuminant                                  |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets the observation field and illuminant.

Setting the illuminant to 'None' when the observation field / illuminant number is 1 enables the use of one observation field and illuminant set.

When using a user illuminant, use [CMMISDK\\_SetUserIlluminant](#) to register illuminant data in advance.

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**CMMISDK\_GetObserverAndIlluminant: Obtains the observation field and illuminant.**

**Format:**

```
error_km CMMISDK_GetObserverAndIlluminant(int32_km inInstrumentNo, int32_km inNum,  
CMMISDK_Observer* outObs, CMMISDK_Illuminant* outIll)
```

**Arguments:**

| Name           | I/O | Explanation                                 |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)                  |
| inNum          | I   | Observation field / illuminant number (0-1) |
| outObs         | O   | Observer                                    |
| outIll         | O   | Illuminant                                  |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the observation field and illuminant.

### **CMMISDK\_SetUserIlluminant: Sets the user illuminant.**

**Format:**

```
error_km CMMISDK_SetUserIlluminant(int32_km inInstrumentNo, const CMMISDK\_UserIlluminant*  
inIIIData)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inIIIData      | I   | Illuminant data            |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |     |       |      |     |       |
|-------|-------|-------|-------|-----|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | x   | V1.1~ | x    | x   | x     |

**Description:**

This function sets the user illuminant.

Set the illuminant data as 85 items of data between 360 to 780 nm (5-nm pitch).

The name setting is ignored for models that do not allow the name to be set.

### **CMMISDK\_GetUserIlluminant: Obtains the user illuminant.**

**Format:**

```
error_km CMMISDK_GetUserIlluminant(int32_km inInstrumentNo, CMMISDK\_UserIlluminant*  
outIIIData)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outIIIData     | O   | Illuminant data            |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |     |       |      |     |       |
|-------|-------|-------|-------|-----|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | x   | V1.1~ | x    | x   | x     |

**Description:**

This function obtains the user illuminant.

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**CMMISDK\_SetColorSpace: Sets the color space.**

**Format:**

error\_km CMMISDK\_SetColorSpace(int32\_km inInstrumentNo, [CMMISDK\\_ColorSpace](#) inColorSpace)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inColorSpace   | I   | Color space                |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets the color space.

**CMMISDK\_GetColorSpace: Obtains the color space.**

**Format:**

error\_km CMMISDK\_GetColorSpace(int32\_km inInstrumentNo, [CMMISDK\\_ColorSpace](#)\* outColorSpace)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outColorSpace  | O   | Color space                |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the color space.

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**CMMISDK\_SetEquation: Sets the color difference equation.**

**Format:**

error\_km CMMISDK\_SetEquation(int32\_km inInstrumentNo, [CMMISDK\\_Equation](#) inEquation)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inEquation     | I   | Color difference equation  |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets the color difference equation.

**CMMISDK\_GetEquation: Obtains the color difference equation.**

**Format:**

error\_km CMMISDK\_GetEquation(int32\_km inInstrumentNo, [CMMISDK\\_Equation](#)\* outEquation)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outEquation    | O   | Color difference equation  |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the color difference equation.

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**CMMISDK\_SetCustomIndex:** Sets the custom display items.

**Format:**

```
error_km CMMISDK_SetCustomIndex(int32_km inInstrumentNo, int32_km inCustomNum,
CMMISDK_CustomIndex* inCustomIndex)
```

**Arguments:**

| Name           | I/O | Explanation                              |
|----------------|-----|--|
| inInstrumentNo | I   | Instrument number (0 to 7)               |
| inCustomNum    | I   | Custom display number (14 numbers, 0-13) |
| inCustomIndex  | I   | Custom display item                      |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |    |      |     |       |
|-------|-------|-------|-------|-------|----|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | x    | x   | x     |

**Description:**

This function sets the custom display items.

To display custom items, use [CMMISDK\\_SetDisplayType](#) to enable 'custom.'

**CMMISDK\_GetCustomIndex:** Obtains the custom display items.

**Format:**

```
error_km CMMISDK_GetCustomIndex(int32_km inInstrumentNo, int32_km inCustomNum,
CMMISDK_CustomIndex* outCustomIndex)
```

**Arguments:**

| Name           | I/O | Explanation                              |
|----------------|-----|--|
| inInstrumentNo | I   | Instrument number (0 to 7)               |
| inCustomNum    | I   | Custom display number (14 numbers, 0-13) |
| outCustomIndex | O   | Custom display item                      |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |    |      |     |       |
|-------|-------|-------|-------|-------|----|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | x    | x   | x     |

**Description:**

This function obtains the custom display items.

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**CMMISDK\_SetDirection: Sets the irradiation direction to display.**

**Format:**

error\_km CMMISDK\_SetDirection(int32\_km inInstrumentNo, [CMMISDK\\_Direction](#) inDirection)

**Arguments:**

| Name           | I/O | Explanation                      |
|----------------|-----|----------------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)       |
| indirection    | I   | Irradiation direction to display |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |      |     |     |     |       |      |     |       |
|------|------|-----|-----|-----|-------|------|-----|-------|
| 25cG | 26dG | 26d | 25d | 23d | M6    | 36dG | 36d | 3630A |
| x    | x    | x   | x   | x   | V1.1~ | x    | x   | x     |

**Description:**

This function sets the irradiation direction to display.

The irradiation direction to display may not be settable depending on the version of the instrument, even if the instrument itself is supported.

**CMMISDK\_GetDirection: Obtains the irradiation direction to display.**

**Format:**

error\_km CMMISDK\_GetDirection(int32\_km inInstrumentNo, [CMMISDK\\_Direction](#)\* outDirection)

**Arguments:**

| Name           | I/O | Explanation                      |
|----------------|-----|----------------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)       |
| outDirection   | O   | Irradiation direction to display |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |      |     |     |     |       |      |     |       |
|------|------|-----|-----|-----|-------|------|-----|-------|
| 25cG | 26dG | 26d | 25d | 23d | M6    | 36dG | 36d | 3630A |
| x    | x    | x   | x   | x   | V1.1~ | x    | x   | x     |

**Description:**

This function obtains the irradiation direction to display.

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**CMMISDK\_SetUserEquation: Sets the user index.**

**Format:**

```
error_km = CMMISDK_SetUserEquation(int32_km inInstrumentNo, int32_km inNum, const
CMMISDK_UserEquation* inEquation)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inNum          | I   | User index number (0-2)    |
| inEquation     | I   | User index information     |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |    |      |     |       |
|-------|-------|-------|-------|-------|----|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | x    | x   | x     |

**Description:**

This function sets the user index.

The color space values that can be used for a user index are only the items that are selected in [CMMISDKSetColorSpace](#), [CMMISDK\\_SetEquation](#), and [CMMISDK\\_SetCustomIndex](#).

Sample user index: Equivalent to  $\Delta E^*ab$

$SQRT(POW([DL])+POW([DA])+POW([DB]))$

The following variables can be used for a user index.

|       |                |        |                |         |                      |
|-------|----------------|--------|----------------|---------|----------------------|
| [L]   | L*             | [DL]   | $\Delta L^*$   | [MI]    | MI                   |
| [A]   | a*             | [DA]   | $\Delta a^*$   | [WIE]   | WI(E313-73)          |
| [B]   | b*             | [DB]   | $\Delta b^*$   | [DWIE]  | $\Delta WI(E313-73)$ |
| [C]   | C*             | [DC]   | $\Delta C^*$   | [WIC]   | WI(CIE)              |
| [H]   | H              | [DH]   | $\Delta H^*$   | [DWIC]  | $\Delta WI(CIE)$     |
| [HL]  | L(Hunter)      | [DHL]  | $\Delta L$     | [TINT]  | Tint                 |
| [HA]  | a(Hunter)      | [DHA]  | $\Delta a$     | [DTINT] | $\Delta Tint$        |
| [HB]  | b(Hunter)      | [DHB]  | $\Delta b$     | [YIE]   | YI(E313-73)          |
| [X]   | X              | [DX]   | $\Delta X$     | [DYIE]  | $\Delta YI(E313-73)$ |
| [Y]   | Y              | [DY]   | $\Delta Y$     | [YID]   | YI(D1925)            |
| [Z]   | Z              | [DZ]   | $\Delta Z$     | [DYID]  | $\Delta YI(D1925)$   |
| [SX]  | x              | [DSX]  | $\Delta x$     | [BISO]  | B                    |
| [SY]  | y              | [DSY]  | $\Delta y$     | [DBISO] | $\Delta B$           |
| [GU]  | GU             | [DGU]  | $\Delta GU$    |         |                      |
| [DE]  | $\Delta E^*ab$ | [DE94] | $\Delta E^*94$ | [DEH]   | $\Delta E(Hunter)$   |
| [CMC] | CMC            | [DE00] | $\Delta E00$   |         |                      |

\* For the CM-26dG/26d/25d/23d, when items are limited by SCI and SCE, add "I" and "E" to the variables.

E.g.) To calculate  $L^*(SCI)+L^*(SCE)$ , set [LI]+[LE].

The operators and functions that can be used for a user index are as follows:

|   |     |     |
|---|-----|-----|
| + | A+B | A+B |
|---|-----|-----|

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|      |           |                                      |
|------|-----------|--------------------------------------|
| -    | A-B       | A-B                                  |
| *    | A*B       | A×B                                  |
| /    | A/B       | A÷B                                  |
| POW  | POW(A)    | Square of A                          |
| SQRT | SQRT(A)   | Square root of A                     |
| ABS  | ABS(A)    | Absolute value of A                  |
| SIN  | SIN(A)    | Sine of A (degree)                   |
| COS  | COS(A)    | Cosine of A (degree)                 |
| TAN  | TAN(A)    | Tangent of A (degree)                |
| ASIN | ASIN(A)   | Arcsine (degree)                     |
| ACOS | ACOS(A)   | Arccosine (degree)                   |
| ATAN | ATAN(A)   | Arctangent (degree)                  |
| LOG  | LOG(A)    | Common logarithm                     |
| LN   | LN(A)     | Natural logarithm                    |
| EXP  | EXP(A)    | Exponential function                 |
| POW2 | POW2(A,B) | Power function (A to the power of B) |

**Input format of the user classes**

**CLASS (n, "str1", d1, "str2", d2, "str3", d3, "str4", d4, "str5", ...)**

n: Indicates the number of threshold values that separate the classes. (Number of classes - 1). Specify this as a number within 50.

"str1",d1: When the judgment result of the user classes is d1 or higher, "str1" is displayed in the results field of the instrument.

d1 can be numeric value setting of 20 or fewer digits, but the effective digits in the calculation are 5 digits. Enter the threshold values from the left in order of the largest values, and always set a class to be displayed if a value is not classified into a threshold value greater than or equal to all of the threshold values.

The total length of characters that are entered (including CLASS()) must be within 200 single-byte characters.

Leave blank if the user classes will not be used.

Use "." for the decimal point and "," as the separator between parameters.

**Input format of the user classes**

**CLASS (4, "A", 4, "B", 3, "C", 2, "D", 1, "E")**

The result of the user index is split into 5 classes.

| User index result | Class |
|-------------------|-------|
| 4 or higher       | A     |
| 3 or higher       | B     |
| 2 or higher       | C     |
| 1 or higher       | D     |
| Less than 1       | E     |

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**CMMISDK\_GetUserEquation: Obtains the user index.**

**Format:**

```
error_km     CMMISDK_GetUserEquation(int32_km      inInstrumentNo,      int32_km      inNum,
CMMISDK_UserEquation* outEquation)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inNum          | I   | User index number (0-2)    |
| outEquation    | O   | User index information     |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |    |      |     |       |
|-------|-------|-------|-------|-------|----|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | x    | x   | x     |

**Description:**

This function obtains the user index.

## **4.6 Data**

### **CMMISDK\_SetActiveTarget: Sets the active target number.**

#### **Format:**

```
error_km CMMISDK_SetActiveTarget(int32_km inInstrumentNo, int32_km inNum)
```

#### **Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inNum          | I   | Target number              |

#### **Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

#### **Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

#### **Description:**

This function sets the active target number.

The active target is used as a target number associated for measurements after setting.

### **CMMISDK\_GetActiveTarget: Obtains the active target number.**

#### **Format:**

```
error_km CMMISDK_GetActiveTarget(int32_km inInstrumentNo, int32_km* outNum)
```

#### **Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outNum         | O   | Target number              |

#### **Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

#### **Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

#### **Description:**

This function obtains the active target number.

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**CMMISDK\_GetSavedTargetList: Obtains the list of saved target numbers.**

**Format:**

```
error_km CMMISDK_GetSavedTargetList(int32_km inInstrumentNo, CMMISDK\_SavedTargetList* outList)
```

**Arguments:**

| Name           | I/O | Explanation                  |
|----------------|-----|------------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)   |
| outList        | O   | List of saved target numbers |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the list of saved target numbers.

**CMMISDK\_GetTargetListInFilter: Obtains the list of target numbers when the display filter is applied.**

**Format:**

```
error_km CMMISDK_GetTargetListInFilter(int32_km inInstrumentNo, CMMISDK\_SavedTargetList* outList)
```

**Arguments:**

| Name           | I/O | Explanation   |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)                                |
| outList        | O   | List of target numbers when the display filter is applied |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |    |      |     |       |
|-------|-------|-------|-------|-------|----|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | x    | x   | x     |

**Description:**

This function obtains the list of target numbers when the display filter is applied.  
Set the display filter conditions with [CMMISDK\\_SetTargetFilter](#).

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**CMMISDK\_DeleteTargetData: Deletes the target.**

**Format:**

error\_km CMMISDK\_DeleteTargetData(int32\_km inInstrumentNo, int32\_km inNum)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inNum          | I   | Target number              |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function deletes the target for the specified number.

**CMMISDK\_DeleteAllTargetData: Deletes all targets.**

**Format:**

error\_km CMMISDK\_DeleteAllTargetData(int32\_km inInstrumentNo)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function deletes all targets.

**CMMISDK\_ClearTargetInfo: Clears target information on the PC.**

**Format:**

error\_km CMMISDK\_ClearTargetInfo(int32\_km inInstrumentNo)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function clears target information on the PC.

Target information means properties, data, tolerances, and parametric coefficients.

When cleared, tolerances and parametric coefficients are set to the default settings. When setting information, handle only the item to change.

Writing target information to the instrument can be handled by setting the information using the [CMMISDK\\_SetTargetProperty](#), [CMMISDK\\_SetTargetData](#), [CMMISDK\\_SetToleranceForTarget](#) and [CMMISDK\\_SetParametricForTarget](#) functions, and then using [CMMISDK\\_SaveTargetInfo](#).

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**CMMISDK\_LoadTargetInfo: Loads target information on the PC.**

**Format:**

error\_km CMMISDK\_LoadTargetInfo(int32\_km inInstrumentNo, int32\_km inNum)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inNum          | I   | Target number              |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErNoData</a>           | No data   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function loads target information on the PC.

Target information means properties, data, tolerances, and parametric coefficients.

To obtain information using the [CMMISDK\\_GetTargetProperty](#), [CMMISDK\\_GetTargetData](#), [CMMISDK\\_GetToleranceForTarget](#) and [CMMISDK\\_GetParametricForTarget](#) functions, always load the information on the PC using this function.

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**CMMISDK\_SaveTargetInfo: Saves target information on the PC to the instrument.**

**Format:**

error\_km CMMISDK\_SaveTargetInfo(int32\_km inInstrumentNo, int32\_km inNum)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inNum          | I   | Target number              |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function saves target information on the PC to the instrument.

Target information means properties, data, tolerances, and parametric coefficients.

Refer to "[3.2 Basic processing flow](#)" for the procedure.

Before saving the information, use the [CMMISDK\\_SetTargetProperty](#) and [CMMISDK\\_SetTargetData](#) functions to set the necessary information.

Setting information with [CMMISDK\\_SetToleranceForTarget](#) and [CMMISDK\\_SetParametricForTarget](#) is optional.

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**CMMISDK\_SetTargetProperty: Sets target information properties.**

**Format:**

```
error_km CMMISDK_SetTargetProperty(int32_km inInstrumentNo, const CMMISDK\_TargetProperty*  
inProperty)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inProperty     | I   | Target properties          |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets target information properties on the PC.

To apply target information to the instrument, set the target information (properties, data, tolerances, and parametric coefficients) and execute [CMMISDK\\_SaveTargetInfo](#).

The following table gives the properties that must be set for each instrument. Entered information is ignored for cells indicated by "-".

|                 | 25cG                     | 26dG                     | 26d                      | 25d                      | 23d                      | M6                       |
|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| date            | ✓                        | ✓                        | ✓                        | ✓                        | ✓                        | ✓                        |
| group_list      | ✓                        | ✓                        | ✓                        | ✓                        | ✓                        | -                        |
| meas_type       | -                        | -                        | -                        | -                        | -                        | -                        |
| meas_mode       | ✓                        | ✓                        | ✓                        | ✓                        | ✓                        | -                        |
| meas_area       | ✓                        | ✓                        | ✓                        | ✓                        | ✓                        | -                        |
| meas_angle      | -                        | -                        | -                        | -                        | -                        | ✓                        |
| meas_Idirection | -                        | -                        | -                        | -                        | -                        | ✓                        |
| meas_scie       | -                        | ✓                        | ✓                        | ✓                        | ✓                        | -                        |
| meas_uv         | -                        | ✓                        | ✓                        | ✓                        | ✓                        | -                        |
| warning_level   | ✓                        | ✓                        | ✓                        | ✓                        | ✓                        | ✓                        |
| warning         | ✓                        | ✓                        | ✓                        | ✓                        | ✓                        | ✓                        |
| diagnosis       | ✓                        | ✓                        | ✓                        | ✓                        | ✓                        | ✓                        |
| data_attr       | ✓                        | ✓                        | ✓                        | ✓                        | ✓                        | Spectral only            |
| name            | 30<br>characters<br>max. | 30<br>characters<br>max. | 30<br>characters<br>max. | 30<br>characters<br>max. | 30<br>characters<br>max. | 16<br>characters<br>max. |

\* If the character length is exceeded, the name is stored only up to the corresponding character length.

\* With opacity, the color value cannot be registered.

\* For 25d and 23d data, set AREA\_MAV for mea\_area, and UV\_CUT400 for meas\_uv.

If spectral is specified in data\_attr, use [CMMISDK\\_SetTargetData](#) to set the data.

If a value other than spectral is specified in data\_attr, use [CMMISDK\\_SetTargetDataColor](#) to set the

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data.

**CMMISDK\_GetTargetProperty: Obtains target information properties.**

**Format:**

```
error_km CMMISDK_GetTargetProperty(int32_km inInstrumentNo, CMMISDK\_TargetProperty*  
outProperty)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outProperty    | O   | Target properties          |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErNoData</a>           | No data   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains target information properties on the PC.

The data for the specified number on the PC can be obtained by using [CMMISDK\\_LoadTargetInfo](#).

If data\_attr is spectral, use [CMMISDK\\_GetTargetData](#) to obtain the data.

If data\_attr is a value other than spectral, use [CMMISDK\\_GetTargetDataColor](#) to obtain the data.

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**CMMISDK\_SetTargetData: Sets target information data.**

**Format 1:**

```
error_km CMMISDK_SetTargetData(int32_km inInstrumentNo, CMMISDK\_DataType inDataType, const CMMISDK\_Data* inData)
```

**Arguments:**

| Name           | I/O | Explanation   |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)  |
| inDataType     | I   | Data type   |
| inData         | I   | Reflectance data<br>* Store the data from the beginning of the array in the amount of DataSize that was obtained with <a href="#">CMMISDK_GetInstrumentInfo</a> . |

**Format 2:**

```
error_km CMMISDK_SetTargetDataColor(int32_km inInstrumentNo, CMMISDK\_DataType inDataType, int32_km inNum, const CMMISDK\_ColorCond* inCond, const CMMISDK\_Data* inData)
```

**Arguments:**

| Name           | I/O | Explanation   |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)  |
| inDataType     | I   | Data type   |
| inNum          | I   | Observation field / illuminant number (0-1)   |
| inCond         | I   | Color value calculation conditions  |
| inData         | I   | Color value data<br>* Store data from the beginning of the array in the amount of the number of color values. |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets target information data on the PC.

To apply target information to the instrument, set the target information (properties, data, tolerances, and parametric coefficients) and execute [CMMISDK\\_SaveTargetInfo](#).

The data that must be set for each instrument is determined by the following conditions. Set the necessary data according to the conditions.

|                 | 25cG | 26dG | 26d | 25d | 23d | M6 |
|-----------------|------|------|-----|-----|-----|----|
| meas_mode       | ✓    | ✓    | ✓   | ✓   | ✓   | -  |
| meas_angle      | -    | -    | -   | -   | -   | ✓  |
| meas_Idirection | -    | -    | -   | -   | -   | ✓  |
| meas_scie       | -    | ✓    | ✓   | ✓   | ✓   | -  |
| meas_uv         | -    | ✓    | ✓   | -   | -   | -  |

\* For the CM-M6

Six angles of data must always be set for each meas\_Idirection.

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If the data is insufficient, [KmErInvalidParameter](#) will be returned.

**CMMISDK\_GetTargetData: Obtains target information data.**

**Format:**

```
error_km CMMISDK_GetTargetData(int32_km inInstrumentNo, CMMISDK\_DataType inDataType,  
CMMISDK\_Data* outData)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inDataType     | I   | Data type                  |
| outData        | O   | Reflectance data           |

**Format:**

```
error_km CMMISDK_GetTargetDataColor(int32_km inInstrumentNo, CMMISDK\_DataType inDataType,  
int32_km inNum, CMMISDK\_ColorCond* outCond, CMMISDK\_Data* outData)
```

**Arguments:**

| Name           | I/O | Explanation  |
|----------------|-----|--|
| inInstrumentNo | I   | Instrument number (0 to 7)   |
| inDataType     | I   | Data type  |
| inNum          | I   | Observation field / illuminant number (0-1)  |
| outCond        | O   | Observation field / illuminant information   |
| outData        | O   | Color value data<br>* Data in the amount of the number of color values is stored<br>from the beginning of the array. |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErNoData</a>           | No data   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains target information data on the PC.

The data for the specified number on the PC can be obtained by using [CMMISDK\\_LoadTargetInfo](#).

The data that can be obtained with each instrument is determined by the following conditions obtained with [CMMISDK\\_GetTargetProperty](#).

|                 | 25cG | 26dG | 26d | 25d | 23d | M6 |
|-----------------|------|------|-----|-----|-----|----|
| meas_mode       | ✓    | ✓    | ✓   | ✓   | ✓   | -  |
| meas_angle      | -    | -    | -   | -   | -   | ✓  |
| meas_Idirection | -    | -    | -   | -   | -   | ✓  |
| meas_scie       | -    | ✓    | ✓   | ✓   | ✓   | -  |
| meas_uv         | -    | ✓    | ✓   | -   | -   | -  |

For example, the CM-25cG has the following three output patterns depending on the measurement mode: reflectance and gloss value, reflectance only, and gloss only.

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**CMMISDK\_SetToleranceForTarget:** Sets the tolerance for target information.

**Format:**

```
error_km CMMISDK_SetToleranceForTarget(int32_km inInstrumentNo, CMMISDK\_ToleranceType
inType, int32_km inObsIII, CMMISDK\_ToleranceId inId, const CMMISDK\_ToleranceData* inTolerance)
```

**Arguments:**

| Name           | I/O | Explanation                                 |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)                  |
| inType         | I   | Tolerance type                              |
| inObsIII       | I   | Observation field / illuminant number (0-1) |
| inId           | I   | Tolerance ID                                |
| inTolerance    | I   | Tolerance data                              |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets the tolerance for the target on the PC.

To apply target information to the instrument, set the target information (properties, data, tolerances, and parametric coefficients) and execute [CMMISDK\\_SaveTargetInfo](#).

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**CMMISDK\_GetToleranceForTarget:** Obtains the tolerance for the target information.

**Format:**

```
error_km CMMISDK_GetToleranceForTarget(int32_km inInstrumentNo, CMMISDK\_ToleranceType
inType, int32_km inObsIII, CMMISDK\_ToleranceId inId, CMMISDK\_ToleranceData* outTolerance)
```

**Arguments:**

| Name           | I/O | Explanation                                 |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)                  |
| inType         | I   | Tolerance type                              |
| inObsIII       | I   | Observation field / illuminant number (0-1) |
| inId           | I   | Tolerance ID                                |
| outTolerance   | O   | Tolerance data                              |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErNoData</a>           | No data   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the tolerance for the target information on the PC.

The data for the specified number on the PC can be obtained by using [CMMISDK\\_LoadTargetInfo](#).

**CMMISDK\_SetParametricForTarget:** Sets the parametric coefficient for the target information.

**Format:**

```
error_km CMMISDK_SetParametricForTarget(int32_km inInstrumentNo, CMMISDK\_ToleranceType
inType, CMMISDK\_ParametricId inId, const CMMISDK\_ParametricCoef* inParametric)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inType         | I   | Tolerance type             |
| inId           | I   | Parametric coefficient ID  |
| inParametric   | I   | Parametric coefficient     |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets the tolerance for the target on the PC.

To apply target information to the instrument, set the target information (properties, data, tolerances, and parametric coefficients) and execute [CMMISDK\\_SaveTargetInfo](#).

**CMMISDK\_GetParametricForTarget: Obtains the parametric coefficient for the target information.**

**Format:**

```
error_km CMMISDK_GetParametricForTarget(int32_km inInstrumentNo, CMMISDK\_ToleranceType
inType, CMMISDK\_ParametricId inId, CMMISDK\_ParametricCoef* outParametric)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inType         | I   | Tolerance type             |
| inId           | I   | Parametric coefficient ID  |
| outParametric  | O   | Parametric coefficient     |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErNoData</a>           | No data   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the parametric coefficient for the target information on the PC.

The data for the specified number on the PC can be obtained by using [CMMISDK\\_LoadTargetInfo](#).

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**CMMISDK\_SetTargetFilter: Sets the target filter conditions.**

**Format:**

```
error_km CMMISDK_SetTargetFilter(int32_km inInstrumentNo, CMMISDK\_FilterIndex inIndex, const  
CMMISDK\_GroupList* inGroup)
```

**Arguments:**

| Name           | I/O | Explanation   |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)  |
| inIndex        | I   | Filter index  |
| inGroup        | I   | Group list<br>* This item is only used when the filter index is 'group.'<br>Otherwise, set this to 0. |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |    |      |     |       |
|-------|-------|-------|-------|-------|----|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | x    | x   | x     |

**Description:**

This function sets the target filter conditions.

If the filter is not set to OFF, only the target data with the number that matches the condition is displayed.

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**CMMISDK\_GetTargetFilter: Obtains the target filter conditions.**

**Format:**

```
error_km CMMISDK_GetTargetFilter(int32_km inInstrumentNo, CMMISDK\_FilterIndex* outIndex,  
CMMISDK\_GroupList* outGroup)
```

**Arguments:**

| Name           | I/O | Explanation   |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)  |
| outIndex       | O   | Filter index  |
| outGroup       | O   | Group list<br>* This item is only used when the filter index is 'group.'<br>Otherwise, set this to 0. |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |    |      |     |       |
|-------|-------|-------|-------|-------|----|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | x    | x   | x     |

**Description:**

This function obtains the target filter conditions.

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### **CMMISDK\_SetTargetProtect: Sets target protection.**

**Format:**

error\_km CMMISDK\_SetTargetProtect(int32\_km inInstrumentNo, [CMMISDK\\_OnOff](#) inProtect)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inProtect      | I   | Protection ON/OFF          |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets target protection.

When target protection is turned on, only new measurement (save) operations are allowed.

### **CMMISDK\_GetTargetProtect: Obtains target protection.**

**Format:**

error\_km CMMISDK\_GetTargetProtect(int32\_km inInstrumentNo, [CMMISDK\\_OnOff](#)\* outProtect)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outProtect     | O   | Protection ON/OFF          |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the target protection setting.

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**CMMISDK\_GetSavedSampleCount: Obtains the number of saved measurement values.**

**Format:**

error\_km CMMISDK\_GetSavedSampleCount(int32\_km inInstrumentNo, int32\_km\* outCount)

**Arguments:**

| Name           | I/O | Explanation                        |
|----------------|-----|------------------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)         |
| outCount       | O   | Number of saved measurement values |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the number of saved measurement values.

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**CMMISDK\_DeleteSampleData: Deletes a measurement value.**

**Format:**

error\_km CMMISDK\_DeleteSampleData(int32\_km inInstrumentNo, int32\_km inNum)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inNum          | I   | Measurement value number   |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function deletes the measurement value for the specified number.

**CMMISDK\_DeleteAllSampleData: Deletes all measurement values.**

**Format:**

error\_km CMMISDK\_DeleteAllSampleData(int32\_km inInstrumentNo)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function deletes all measurement values.

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**CMMISDK\_LoadSampleInfo: Loads measurement value information on the PC.**

**Format:**

error\_km CMMISDK\_LoadSampleInfo(int32\_km inInstrumentNo, int32\_km inNum)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inNum          | I   | Measurement value number   |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErNoData</a>           | No data   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function loads measurement value information on the PC.

Measurement value information means properties and data.

To obtain information using the [CMMISDK\\_GetSampleProperty](#) and [CMMISDK\\_GetSampleData](#) functions, always load the information on the PC using this function.

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**CMMISDK\_GetSampleProperty: Obtains measurement value information properties.**

**Format:**

```
error_km CMMISDK_GetSampleProperty(int32_km inInstrumentNo, CMMISDK\_SampleProperty*  
outProperty)
```

**Arguments:**

| Name           | I/O | Explanation                  |
|----------------|-----|------------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)   |
| outProperty    | O   | Measurement value properties |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErNoData</a>           | No data   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains measurement value information properties on the PC.

The data for the specified number on the PC can be obtained by using [CMMISDK\\_LoadSampleInfo](#).

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**CMMISDK\_GetSampleData: Obtains measurement value information data.**

**Format:**

error\_km CMMISDK\_GetSampleData(int32\_km inInstrumentNo, [CMMISDK\\_DataType](#) inDataType,  
[CMMISDK\\_Data](#)\* outData)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inDataType     | I   | Data type                  |
| outData        | O   | Reflectance data           |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErNoData</a>           | No data   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains measurement value information data on the PC.

The data for the specified number on the PC can be obtained by using [CMMISDK\\_LoadSampleInfo](#).

The data that can be obtained with each instrument is determined by the following conditions obtained with [CMMISDK\\_GetSampleProperty](#).

|                 | 25cG | 26dG | 26d | 25d | 23d | M6 |
|-----------------|------|------|-----|-----|-----|----|
| meas_mode       | ✓    | ✓    | ✓   | ✓   | ✓   | -  |
| meas_angle      | -    | -    | -   | -   | -   | ✓  |
| meas_Idirection | -    | -    | -   | -   | -   | ✓  |
| meas_scie       | -    | ✓    | ✓   | ✓   | ✓   | -  |
| meas_uv         | -    | ✓    | ✓   | -   | -   | -  |

For example, the CM-25cG has the following three output patterns depending on the measurement mode: reflectance and gloss value, reflectance only, and gloss only.

## **4.7 Other functions (instruments settings)**

### **CMMISDK\_SetActiveGroup: Sets the active group number.**

**Format:**

error\_km CMMISDK\_SetActiveGroup(int32\_km inInstrumentNo, const [CMMISDK\\_GroupList](#)\* inGroup)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inGroup        | I   | Group list                 |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |    |      |     |       |
|-------|-------|-------|-------|-------|----|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | x    | x   | x     |

**Description:**

This function sets the active group number.

The active group number is used as a group number associated for measurements after setting.

### **CMMISDK\_GetActiveGroup: Obtains the active group number.**

**Format:**

error\_km CMMISDK\_GetActiveGroup(int32\_km inInstrumentNo, [CMMISDK\\_GroupList](#)\* outGroup)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outGroup       | O   | Group list                 |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |    |      |     |       |
|-------|-------|-------|-------|-------|----|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | x    | x   | x     |

**Description:**

This function obtains the active group number.

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**CMMISDK\_SetGroupName: Sets the group name.**

**Format:**

```
error_km CMMISDK_SetGroupName(int32_km inInstrumentNo, int32_km inGroup, const CMMISDK_Group* inName)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inGroup        | I   | Group number (1-50)        |
| inName         | I   | Group name                 |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |    |      |     |       |
|-------|-------|-------|-------|-------|----|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | x    | x   | x     |

**Description:**

This function sets the group name for the specified number.

**CMMISDK\_GetGroupName: Obtains the group name.**

**Format:**

```
error_km CMMISDK_GetGroupName(int32_km inInstrumentNo, int32_km inGroup, CMMISDK_Group* outName)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inGroup        | I   | Group number (1-50)        |
| outName        | O   | Group name                 |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |    |      |     |       |
|-------|-------|-------|-------|-------|----|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | x    | x   | x     |

**Description:**

This function obtains the group name corresponding to the specified number.

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**CMMISDK\_SetMultipleGroupName: Sets group names in batch.**

**Format:**

```
error_km CMMISDK_SetMultipleGroupName(int32_km inInstrumentNo, const CMMISDK\_GroupAll*  
inName)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inName         | I   | All group names            |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |    |      |     |       |
|-------|-------|-------|-------|-------|----|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | x    | x   | x     |

**Description:**

This function sets all group names.

**CMMISDK\_GetMultipleGroupName: Obtains group names in batch.**

**Format:**

```
error_km CMMISDK_GetMultipleGroupName(int32_km inInstrumentNo, CMMISDK\_GroupAll*  
outName)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outName        | O   | All group names            |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |    |      |     |       |
|-------|-------|-------|-------|-------|----|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | x    | x   | x     |

**Description:**

This function obtains all group names.

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**CMMISDK\_LoadDefaultInfo: Loads default information on the PC.**

**Format:**

error\_km CMMISDK\_LoadDefaultInfo(int32\_km inInstrumentNo)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function loads default information on the PC.

Default information means the defaults for tolerances and parametric coefficients.

To obtain information using the [CMMISDK\\_GetTolerance](#) and [CMMISDK\\_GetParametric](#) functions, always load the information on the PC using this function.

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**CMMISDK\_SaveDefaultInfo:** Saves default information on the PC to the instrument.

**Format:**

error\_km CMMISDK\_SaveDefaultInfo(int32\_km inInstrumentNo)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function loads default information on the PC to the instrument.

Default information means the defaults for tolerances and parametric coefficients.

Refer to "[3.2 Basic processing flow](#)" for the procedure.

Before saving the information, use the [CMMISDK\\_SetTolerance](#) and [CMMISDK\\_SetParametric](#) functions to set the necessary information.

**CMMISDK\_SetTolerance: Sets tolerances in the default information.**

**Format:**

```
error_km CMMISDK_SetTolerance(int32_km inInstrumentNo, CMMISDK\_ToleranceType inType,  
int32_km inObsIII, CMMISDK\_ToleranceId inId, const CMMISDK\_ToleranceData* inTolerance)
```

**Arguments:**

| Name           | I/O | Explanation                                 |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)                  |
| inType         | I   | Tolerance type                              |
| inObsIII       | I   | Observation field / illuminant number (0-1) |
| inId           | I   | Tolerance ID                                |
| inTolerance    | I   | Tolerance data                              |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets the default tolerance on the PC.

To apply default information to the instrument, load the information on the PC with [CMMISDK\\_LoadDefaultInfo](#), set the default information (tolerances and parametric coefficients) to change, and execute [CMMISDK\\_SaveDefaultInfo](#).

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**CMMISDK\_GetTolerance:** Obtains tolerances in the default information.

**Format:**

```
error_km CMMISDK_GetTolerance(int32_km inInstrumentNo, CMMISDK\_ToleranceType inType,  
int32_km inObsIII, CMMISDK\_ToleranceId inId, CMMISDK\_ToleranceData* outTolerance)
```

**Arguments:**

| Name           | I/O | Explanation                                 |
|----------------|-----|---|
| inInstrumentNo | I   | Instrument number (0 to 7)                  |
| inType         | I   | Tolerance type                              |
| inObsIII       | I   | Observation field / illuminant number (0-1) |
| inId           | I   | Tolerance ID                                |
| outTolerance   | O   | Tolerance data                              |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErNoData</a>           | No data   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains tolerances in the default information on the PC.  
The data can be obtained by using [CMMISDK\\_LoadDefaultInfo](#).

**CMMISDK\_SetParametric: Sets parametric coefficients in the default information.**

**Format:**

```
error_km CMMISDK_SetParametric(int32_km inInstrumentNo, CMMISDK\_ToleranceType inType,  
CMMISDK\_ParametricId inId, const CMMISDK\_ParametricCoef* inParametric)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inType         | I   | Tolerance type             |
| inId           | I   | Parametric coefficient ID  |
| inParametric   | I   | Parametric coefficient     |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets the default tolerance on the PC.

To apply default information to the instrument, load the information on the PC with [CMMISDK\\_LoadDefaultInfo](#), set the default information (tolerances and parametric coefficients) to change, and execute [CMMISDK\\_SaveDefaultInfo](#).

**CMMISDK\_GetParametric: Obtains parametric coefficients in the default information.**

**Format:**

```
error_km CMMISDK_GetParametric(int32_km inInstrumentNo, CMMISDK\_ToleranceType inType,  
CMMISDK\_ParametricId inId, CMMISDK\_ParametricCoef* outParametric)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inType         | I   | Tolerance type             |
| inId           | I   | Parametric coefficient ID  |
| outParametric  | O   | Parametric coefficient     |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErNoData</a>           | No data   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains parametric coefficients in the default information on the PC.

The data can be obtained by using [CMMISDK\\_LoadDefaultInfo](#).

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**CMMISDK\_SetWarningLevel: Sets the warning level.**

**Format:**

error\_km CMMISDK\_SetWarningLevel(int32\_km inInstrumentNo, int32\_km inLevel)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inLevel        | I   | Warning level (0 to 100%)  |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets the warning level.

**CMMISDK\_GetWarningLevel: Obtains the warning level.**

**Format:**

error\_km CMMISDK\_GetWarningLevel(int32\_km inInstrumentNo, int32\_km\* outLevel)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outLevel       | O   | Warning level (0 to 100%)  |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the warning level.

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**CMMISDK\_SetInstrumentMode: Sets the instrument mode.**

**Format:**

```
error_km CMMISDK_SetInstrumentMode(int32_km inInstrumentNo, CMMISDK\_InstrumentMode inMode)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inMode         | I   | Instrument mode            |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |       |       |    |      |     |       |
|------|-------|-------|-------|-------|----|------|-----|-------|
| 25cG | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
| x    | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | x    | x   | x     |

**Description:**

This function sets the instrument mode.

When the power supply to the instrument is turned off, the setting reverts normal mode.

**CMMISDK\_GetInstrumentMode: Obtains the instrument mode.**

**Format:**

```
error_km CMMISDK_GetInstrumentMode(int32_km inInstrumentNo, CMMISDK\_InstrumentMode* outMode)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outMode        | O   | Instrument mode            |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |       |       |    |      |     |       |
|------|-------|-------|-------|-------|----|------|-----|-------|
| 25cG | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
| x    | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | x    | x   | x     |

**Description:**

This function obtains the instrument mode.

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**CMMISDK\_SetUserType: Sets the user type.**

**Format:**

error\_km CMMISDK\_SetUserType(int32\_km inInstrumentNo, [CMMISDK\\_UserType](#) inType)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inType         | I   | User type                  |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets the user type.  
It is applied during standalone use.

**CMMISDK\_GetUserType: Obtains the user type.**

**Format:**

error\_km CMMISDK\_GetUserType(int32\_km inInstrumentNo, [CMMISDK\\_UserType](#)\* outType)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outType        | O   | User type                  |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the user type.

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**CMMISDK\_SetAdminPassword:** Sets the administrator password.

**Format:**

```
error_km CMMISDK_SetAdminPassword(int32_km inInstrumentNo, const CMMISDK\_AdminPass* inPass)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inPass         | I   | Administrator password     |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |       |       |    |      |     |       |
|------|-------|-------|-------|-------|----|------|-----|-------|
| 25cG | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
| x    | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | x    | x   | x     |

**Description:**

This function sets the administrator password.

The password is used to change the settings from operator to administrator when the instrument is used standalone.

**CMMISDK\_GetAdminPassword:** Obtains the administrator password.

**Format:**

```
error_km CMMISDK_GetAdminPassword(int32_km inInstrumentNo, CMMISDK\_AdminPass* outPass)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outPass        | O   | Administrator password     |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |       |       |    |      |     |       |
|------|-------|-------|-------|-------|----|------|-----|-------|
| 25cG | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
| x    | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | x    | x   | x     |

**Description:**

This function obtains the administrator password.

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**CMMISDK\_SetAutoPrint: Sets automatic printing.**

**Format:**

error\_km CMMISDK\_SetAutoPrint(int32\_km inInstrumentNo, [CMMISDK\\_OnOff](#) inPrint)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inPrint        | I   | Automatic printing ON/OFF  |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets automatic printing.

**CMMISDK\_GetAutoPrint: Obtains the automatic printing setting.**

**Format:**

error\_km CMMISDK\_GetAutoPrint(int32\_km inInstrumentNo, [CMMISDK\\_OnOff](#)\* outPrint)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outPrint       | O   | Automatic printing ON/OFF  |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the automatic printing setting.

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**CMMISDK\_SetBrightness: Sets the brightness of the display.**

**Format:**

error\_km CMMISDK\_SetBrightness(int32\_km inInstrumentNo, int32\_km inBrightness)

**Arguments:**

| Name           | I/O | Explanation                 |
|----------------|-----|-----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)  |
| inBrightness   | I   | Display brightness (0 to 4) |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets the brightness of the display.

**CMMISDK\_GetBrightness: Obtains the brightness of the display.**

**Format:**

error\_km CMMISDK\_GetBrightness(int32\_km inInstrumentNo, int32\_km\* outBrightness)

**Arguments:**

| Name           | I/O | Explanation                 |
|----------------|-----|-----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)  |
| outBrightness  | O   | Display brightness (0 to 4) |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the brightness of the display.

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**CMMISDK\_SetScreenDirection: Sets the display direction of the screen.**

**Format:**

```
error_km CMMISDK_SetScreenDirection(int32_km inInstrumentNo, CMMISDK\_ScreeDirection
inScreenDirection)
```

**Arguments:**

| Name              | I/O | Explanation                |
|-------------------|-----|----------------------------|
| inInstrumentNo    | I   | Instrument number (0 to 7) |
| inScreenDirection | I   | Display direction          |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |       |       |       |      |     |       |
|------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| x    | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets the display direction of the screen.

**CMMISDK\_GetScreenDirection: Obtains the display direction of the screen.**

**Format:**

```
error_km CMMISDK_GetScreenDirection(int32_km inInstrumentNo, CMMISDK\_ScreeDirection*
outScreenDirection)
```

**Arguments:**

| Name               | I/O | Explanation                |
|--------------------|-----|----------------------------|
| inInstrumentNo     | I   | Instrument number (0 to 7) |
| outScreenDirection | O   | Screen display direction   |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |       |       |       |      |     |       |
|------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| x    | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the display direction of the screen.

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### **CMMISDK\_SetSound: Sets the beep.**

**Format:**

```
error_km CMMISDK_SetSound(int32_km inInstrumentNo, CMMISDK\_OnOff inSound)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inSound        | I   | Volume setting             |

**Return Value:**

| Definition value                     | 説明  |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets the beep.

When the sound is turned on, the instrument will generate a sound when calibration or measurement is completed or ends in an error.

### **CMMISDK\_GetSound: Obtains the beep.**

**Format:**

```
error_km CMMISDK_GetSound(int32_km inInstrumentNo, CMMISDK\_OnOff* outSound)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outSound       | O   | Volume setting             |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the beep.

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**CMMISDK\_SetCalibrationInterval: Sets the calibration interval.**

**Format:**

error\_km CMMISDK\_SetCalibrationInterval(int32\_km inInstrumentNo, int32\_km inInterval)

**Arguments:**

| Name           | I/O | Explanation                              |
|----------------|-----|--|
| inInstrumentNo | I   | Instrument number (0 to 7)               |
| inInterval     | I   | Calibration interval (1-24) (1-hr pitch) |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function sets the calibration interval.

Note that, although it is possible to run a measurement after the calibration interval ends, the instrument is in an alert state where calibration is recommended.

**CMMISDK\_GetCalibrationInterval: Obtains the calibration interval.**

**Format:**

error\_km CMMISDK\_GetCalibrationInterval(int32\_km inInstrumentNo, int32\_km\* outInterval)

**Arguments:**

| Name           | I/O | Explanation                              |
|----------------|-----|--|
| inInstrumentNo | I   | Instrument number (0 to 7)               |
| outInterval    | O   | Calibration interval (1-24) (1-hr pitch) |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function obtains the calibration interval.

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**CMMISDK\_SetAnnualCalibration: Sets the periodical calibration notice.**

**Format:**

error\_km CMMISDK\_SetAnnualCalibration(int32\_km inInstrumentNo, [CMMISDK\\_OnOff](#) inCal)

**Arguments:**

| Name           | I/O | Explanation                          |
|----------------|-----|--------------------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)           |
| inCal          | I   | Periodical calibration notice ON/OFF |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function sets the periodical calibration notice.

**CMMISDK\_GetAnnualCalibration: Obtains the periodical calibration notice.**

**Format:**

error\_km CMMISDK\_GetAnnualCalibration(int32\_km inInstrumentNo, [CMMISDK\\_OnOff](#)\* outCal)

**Arguments:**

| Name           | I/O | Explanation                          |
|----------------|-----|--------------------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)           |
| outCal         | O   | Periodical calibration notice ON/OFF |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function obtains the periodical calibration notice setting.

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**CMMISDK\_SetZeroCalibrationSkip: Sets whether or not to skip zero calibration.**

**Format:**

error\_km CMMISDK\_SetZeroCalibrationSkip(int32\_km inInstrumentNo, [CMMISDK\\_OnOff](#) inSkip)

**Arguments:**

| Name           | I/O | Explanation                  |
|----------------|-----|------------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)   |
| inSkip         | I   | Skip zero calibration on/off |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

| 25cG | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
|------|-------|-------|-------|-------|----|------|-----|-------|
| x    | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | x    | x   | x     |

**Description:**

This function sets whether or not to skip zero calibration.

If skip zero calibration is turned on, zero calibration can be skipped when the instrument starts. If turned off, zero calibration must always be performed.

**CMMISDK\_GetZeroCalibrationSkip: Obtains the skip zero calibration setting.**

**Format:**

error\_km CMMISDK\_GetZeroCalibrationSkip(int32\_km inInstrumentNo, [CMMISDK\\_OnOff](#)\* outSkip)

**Arguments:**

| Name           | I/O | Explanation                  |
|----------------|-----|------------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)   |
| outSkip        | O   | Skip zero calibration on/off |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

| 25cG | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
|------|-------|-------|-------|-------|----|------|-----|-------|
| x    | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | x    | x   | x     |

**Description:**

This function obtains whether skip zero calibration is on or off.

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**CMMISDK\_SetDateTime: Sets the date and time.**

**Format:**

error\_km CMMISDK\_SetDateTime(int32\_km inInstrumentNo, const [CMMISDK\\_DateTime](#)\* inDate)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inDate         | I   | Date/time                  |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets the date and time.

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**CMMISDK\_SetDateFormat: Sets the date format.**

**Format:**

error\_km CMMISDK\_SetDateFormat(int32\_km inInstrumentNo, [CMMISDK\\_DateFormat](#) inFormat)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inFormat       | I   | Date format                |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets the date format.

**CMMISDK\_GetDateFormat: Obtains the date format.**

**Format:**

error\_km CMMISDK\_GetDateFormat(int32\_km inInstrumentNo, [CMMISDK\\_DateFormat](#)\* outFormat)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outFormat      | O   | Date format                |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the date format.

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**CMMISDK\_SetLanguage: Sets the display language.**

**Format:**

error\_km CMMISDK\_SetLanguage(int32\_km inInstrumentNo, [CMMISDK\\_Language](#) inLanguage)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inLanguage     | I   | Display language           |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function sets the display language.

**CMMISDK\_GetLanguage: Obtains the display language.**

**Format:**

error\_km CMMISDK\_GetLanguage(int32\_km inInstrumentNo, [CMMISDK\\_Language](#)\* outLanguage)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outLanguage    | O   | Display language           |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x    | x   | x     |

**Description:**

This function obtains the display language.

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**CMMISDK\_SetPowerSaving: Sets the time to switch to power saving mode.**

**Format:**

error\_km CMMISDK\_SetPowerSaving(int32\_km inInstrumentNo, int32\_km inPowerSaving)

**Arguments:**

| Name           | I/O | Explanation  |
|----------------|-----|--|
| inInstrumentNo | I   | Instrument number (0 to 7)   |
| inPowerSaving  | I   | Time to switch to power saving mode (0 to 60 minutes)<br>* 0 minutes is treated as off |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.1~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.1~ | x    | x   | x     |

**Description:**

This function sets the time to switch to power saving mode.

**CMMISDK\_GetPowerSaving: Obtains the time to switch to power saving mode.**

**Format:**

error\_km CMMISDK\_GetPowerSaving(int32\_km inInstrumentNo, int32\_km\* outPowerSaving)

**Arguments:**

| Name           | I/O | Explanation  |
|----------------|-----|--|
| inInstrumentNo | I   | Instrument number (0 to 7)   |
| outPowerSaving | O   | Time to switch to power saving mode (0 to 60 minutes)<br>* 0 minutes is treated as off |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |      |     |       |
|-------|-------|-------|-------|-------|-------|------|-----|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
| V1.1~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.1~ | x    | x   | x     |

**Description:**

This function obtains the time to switch to power saving mode.

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**CMMISDK\_ClearJobInfo: Clears job information.**

**Format:**

error\_km CMMISDK\_ClearJobInfo(int32\_km inInstrumentNo, int32\_km inJobNum)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inJobNum       | I   | Job number (0 to 4)        |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |       |     |    |      |     |       |
|------|-------|-------|-------|-----|----|------|-----|-------|
| 25cG | 26dG  | 26d   | 25d   | 23d | M6 | 36dG | 36d | 3630A |
| x    | V1.1~ | V1.0~ | V1.0~ | x   | x  | x    | x   | x     |

**Description:**

This function clears job information.

It clears the step information and image information registered to the specified jog number.

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**[Rev1.04]**

**CMMISDK\_SetJobInfo: Sets job information.**

**Format:**

```
error_km    CMMISDK_SetJobInfo(int32_km    inInstrumentNo,    int32_km    inJobNum,    const  
CMMISDK_JobInfo* inInfo)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inJobNum       | I   | Job number (0 to 4)        |
| inInfo         | I   | Job information            |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |       |     |    |      |     |       |
|------|-------|-------|-------|-----|----|------|-----|-------|
| 25cG | 26dG  | 26d   | 25d   | 23d | M6 | 36dG | 36d | 3630A |
| x    | V1.1~ | V1.0~ | V1.0~ | x   | x  | x    | x   | x     |

**Description:**

This function sets job information.

Use [CMMISDK\\_SetJobStepForOperation](#) and [CMMISDK\\_SetJobStepForResult](#) to set the number of steps specified here.

Refer to "[3.2 Basic processing flow](#)" for the procedure.

After the job information is registered to the instrument, perform trial operation to determine if the job has been configured appropriately before putting the job into operation.

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**CMMISDK\_GetJobInfo: Obtains job information.**

**Format:**

```
error_km CMMISDK_GetJobInfo(int32_km inInstrumentNo, int32_km inJobNum, CMMISDK\_JobInfo* outInfo)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inJobNum       | I   | Job number (0 to 4)        |
| outInfo        | O   | Job information            |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |       |     |    |      |     |       |
|------|-------|-------|-------|-----|----|------|-----|-------|
| 25cG | 26dG  | 26d   | 25d   | 23d | M6 | 36dG | 36d | 3630A |
| x    | V1.1~ | V1.0~ | V1.0~ | x   | x  | x    | x   | x     |

**Description:**

This function obtains job information.

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**CMMISDK\_GetJobStepType: Obtains the step type of the job.**

**Format:**

```
error_km CMMISDK_GetJobStepType(int32_km inInstrumentNo, int32_km inJobNum, int32_km  
inStepNum, CMMISDK\_JobStepType* outType)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inJobNum       | I   | Job number (0 to 4)        |
| inStepNum      | I   | Step number (0 to 19)      |
| outType        | O   | Step type                  |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |       |     |    |      |     |       |
|------|-------|-------|-------|-----|----|------|-----|-------|
| 25cG | 26dG  | 26d   | 25d   | 23d | M6 | 36dG | 36d | 3630A |
| x    | V1.1~ | V1.0~ | V1.0~ | x   | x  | x    | x   | x     |

**Description:**

This function obtains the step type of the job.

If the job type is operation step, use [CMMISDK\\_GetJobStepForOperation](#). If the job type is result step, use [CMMISDK\\_GetJobStepForResult](#).

**CMMISDK\_SetJobStepForOperation: Sets an operation step of the job.**

**Format:**

```
error_km CMMISDK_SetJobStepForOperation(int32_km inInstrumentNo, int32_km inJobNum,
int32_km inStepNum, const CMMISDK\_JobStepOperation* inOperation)
```

**Arguments:**

| Name           | I/O | Explanation                   |
|----------------|-----|-------------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)    |
| inJobNum       | I   | Job number (0 to 4)           |
| inStepNum      | I   | Step number (0 to 19)         |
| inOperation    | I   | Step content (operation step) |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

| 25cG | 26dG  | 26d   | 25d   | 23d | M6 | 36dG | 36d | 3630A |
|------|-------|-------|-------|-----|----|------|-----|-------|
| x    | V1.1~ | V1.0~ | V1.0~ | x   | x  | x    | x   | x     |

**Description:**

This function sets an operation step of the job.

The steps (operation steps or result steps) must be set in the amount of the number of steps specified by [CMMISDK\\_SetJobInfo](#).

Refer to "[3.2 Basic processing flow](#)" for the procedure.

The following table gives the items that must be set for each instrument. Entered information is ignored for cells indicated by "-".

|                 | 26dG | 26d | 25d |
|-----------------|------|-----|-----|
| meas_type       | -    | -   | -   |
| meas_mode       | ✓    | -   | -   |
| meas_area       | ✓    | ✓   | -   |
| meas_angle      | -    | -   | -   |
| meas_Idirection | -    | -   | -   |
| meas_scie       | ✓    | ✓   | ✓   |
| meas_uv         | ✓    | ✓   | -   |

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**CMMISDK\_GetJobStepForOperation: Obtains an operation step of the job.**

**Format:**

```
error_km CMMISDK_GetJobStepForOperation(int32_km inInstrumentNo, int32_km inJobNum,  
int32_km inStepNum, CMMISDK\_JobStepOperation* outOperation)
```

**Arguments:**

| Name           | I/O | Explanation                   |
|----------------|-----|-------------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7)    |
| inJobNum       | I   | Job number (0 to 4)           |
| inStepNum      | I   | Step number (0 to 19)         |
| outOperation   | O   | Step content (operation step) |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |       |     |    |      |     |       |
|------|-------|-------|-------|-----|----|------|-----|-------|
| 25cG | 26dG  | 26d   | 25d   | 23d | M6 | 36dG | 36d | 3630A |
| x    | V1.1~ | V1.0~ | V1.0~ | x   | x  | x    | x   | x     |

**Description:**

This function obtains an operation step of the job.

**CMMISDK\_SetJobStepForResult: Sets a result step of the job.**

**Format:**

error\_km CMMISDK\_SetJobStepForResult(int32\_km inInstrumentNo, int32\_km inJobNum, int32\_km inStepNum, const [CMMISDK\\_JobStepResult](#)\* inResult)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inJobNum       | I   | Job number (0 to 4)        |
| inStepNum      | I   | Step number (0 to 19)      |
| inResult       | I   | Step content (result step) |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |       |     |    |      |     |       |
|------|-------|-------|-------|-----|----|------|-----|-------|
| 25cG | 26dG  | 26d   | 25d   | 23d | M6 | 36dG | 36d | 3630A |
| x    | V1.1~ | V1.0~ | V1.0~ | x   | x  | x    | x   | x     |

**Description:**

This function sets a result step of the job.

The steps (operation steps or result steps) must be set in the amount of the number of steps specified by [CMMISDK\\_SetJobInfo](#).

Refer to "[3.2 Basic processing flow](#)" for the procedure.

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**CMMISDK\_GetJobStepForResult: Obtains a result step of the job.**

**Format:**

error\_km CMMISDK\_GetJobStepForResult(int32\_km inInstrumentNo, int32\_km inJobNum, int32\_km inStepNum, [CMMISDK\\_JobStepResult](#)\* outResult)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inJobNum       | I   | Job number (0 to 4)        |
| inStepNum      | I   | Step number (0 to 19)      |
| outResult      | O   | Step content (result step) |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |       |     |    |      |     |       |
|------|-------|-------|-------|-----|----|------|-----|-------|
| 25cG | 26dG  | 26d   | 25d   | 23d | M6 | 36dG | 36d | 3630A |
| x    | V1.1~ | V1.0~ | V1.0~ | x   | x  | x    | x   | x     |

**Description:**

This function obtains a result step of the job.

**CMMISDK\_SetJobImage: Sets job images.**

**Format:**

```
error_km CMMISDK_SetJobImage(int32_km inInstrumentNo, int32_km inJobNum, int32_km  
inImageNum, const CMMISDK\_JobImage* inImage)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inJobNum       | I   | Job number (0 to 4)        |
| inImageNum     | I   | Image number (0 to 9)      |
| inImage        | I   | Image                      |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |       |     |    |      |     |       |
|------|-------|-------|-------|-----|----|------|-----|-------|
| 25cG | 26dG  | 26d   | 25d   | 23d | M6 | 36dG | 36d | 3630A |
| x    | V1.1~ | V1.0~ | V1.0~ | x   | x  | x    | x   | x     |

**Description:**

This function sets job images.

To set an image, job information must be set with [CMMISDK\\_SetJobInfo](#).

Refer to "[3.2 Basic processing flow](#)" for the procedure.

This function directly writes to the flash memory on the instrument.

Up to 10 images can be set for one job.

The resolutions of images that can be registered on each instrument are as follows. From the top left, register data left-aligned in the amount of the size.

|            | 26dG             | 26d              | 25d              |
|------------|------------------|------------------|------------------|
| Resolution | W: 240<br>H: 128 | W: 240<br>H: 128 | W: 240<br>H: 128 |

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**CMMISDK\_GetJobImage: Obtains job images.**

**Format:**

```
error_km CMMISDK_GetJobImage(int32_km inInstrumentNo, int32_km inJobNum, int32_km  
inImageNum, CMMISDK\_JobImage* outImage)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inJobNum       | I   | Job number (0 to 4)        |
| inImageNum     | I   | Image number (0 to 9)      |
| outImage       | O   | Image                      |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |       |       |       |     |    |      |     |       |
|------|-------|-------|-------|-----|----|------|-----|-------|
| 25cG | 26dG  | 26d   | 25d   | 23d | M6 | 36dG | 36d | 3630A |
| x    | V1.1~ | V1.0~ | V1.0~ | x   | x  | x    | x   | x     |

**Description:**

This function obtains job images.

### **CMMISDK\_ResetSetting: Restores settings to the initial state.**

**Format:**

```
error_km CMMISDK_ResetSetting(int32_km inInstrumentNo)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |    |       |       |       |
|-------|-------|-------|-------|-------|----|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x  | V1.0~ | V1.0~ | V1.0~ |

**Description:**

This function restores settings to the initial state.  
Measurement values and target data will not be deleted.

### **CMMISDK\_ResetSettingAndData: Restores settings to the initial state and deletes all data.**

**Format:**

```
error_km CMMISDK_ResetSettingAndData(int32_km inInstrumentNo)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
| V1.0~ | V1.1~ | V1.0~ |

**Description:**

This function restores settings to the initial state and deletes all data, measurement values, and targets.

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**CMMISDK\_SetFinderEnable: Enables or disables the finder function.**

**Format:**

error\_km CMMISDK\_SetFinderEnable(int32\_km inInstrumentNo, [CMMISDK\\_OnOff](#) inEnable)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| inEnable       | I   | Enable/disable             |

**Return Value:**

| Definition value                     | Explanation   |
|--------------------------------------|---|
| <a href="#">KmSuccess</a>            | The processing was completed normally.  |
| <a href="#">KmWarning</a>            | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>        | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErInvalidParameter</a> | The specified parameter is incorrect.   |
| <a href="#">KmErCannotCommand</a>    | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a>    | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |      |     |     |     |    |       |       |       |
|------|------|-----|-----|-----|----|-------|-------|-------|
| 25cG | 26dG | 26d | 25d | 23d | M6 | 36dG  | 36d   | 3630A |
| x    | x    | x   | x   | x   | x  | V1.0~ | V1.0~ | V1.0~ |

**Description:**

This function enables or disables the finder.

When set to ON, images can be obtained using [CMMISDK\\_GetFinderImage](#) when camera operation starts.

Immediately after starting the camera and after measurement, it may take some time for the image to stabilize depending on the illumination light source and the measurement target.

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**CMMISDK\_GetFinderImage: Obtains the finder image.**

**Format:**

error\_km CMMISDK\_GetFinderImage(int32\_km inInstrumentNo, [CMMISDK\\_FinderImage](#)\* outImage)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outImage       | O   | Image data                 |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |
| <a href="#">KmErCamera</a>        | The finder function is not enabled.   |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

|      |      |     |     |     |    |       |       |       |
|------|------|-----|-----|-----|----|-------|-------|-------|
| 25cG | 26dG | 26d | 25d | 23d | M6 | 36dG  | 36d   | 3630A |
| x    | x    | x   | x   | x   | x  | V1.0~ | V1.0~ | V1.0~ |

**Description:**

This function obtains the finder image for one measurement.

To obtain the finder image, operation using [CMMISDK\\_SetFinderEnable](#) must be enabled.

Obtained data includes width and height information.

The data is arranged in a Z pattern in order from the top left. Obtain the data for the required size.

**CMMISDK\_GetMeasurementImage:** Obtains the finder image at the time of measurement.

**Format:**

```
error_km CMMISDK_GetMeasurementImage(int32_km inInstrumentNo, CMMISDK\_FinderImage* outImage)
```

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outImage       | O   | Image data                 |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |
| <a href="#">KmErCamera</a>        | The finder function is not enabled.   |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

| 25cG | 26dG | 26d | 25d | 23d | M6 | 36dG  | 36d   | 3630A |
|------|------|-----|-----|-----|----|-------|-------|-------|
| x    | x    | x   | x   | x   | x  | V1.0~ | V1.0~ | V1.0~ |

**Description:**

This function obtains the finder image at the time of measurement.

To obtain the finder image at the time of measurement, operation using [CMMISDK\\_SetFinderEnable](#) must be enabled.

Obtained data includes width and height information.

The data is arranged in a Z pattern in order from the top left. Obtain the data for the required size.

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**CMMISDK\_GetDetectedMask: Obtains the detected measurement area.**

**Format:**

error\_km CMMISDK\_GetDetectedMask(int32\_km inInstrumentNo, [CMMISDK\\_MeasArea](#)\* outArea)

**Arguments:**

| Name           | I/O | Explanation                |
|----------------|-----|----------------------------|
| inInstrumentNo | I   | Instrument number (0 to 7) |
| outArea        | O   | Detected measurement area  |

**Return Value:**

| Definition value                  | Explanation   |
|-----------------------------------|---|
| <a href="#">KmSuccess</a>         | The processing was completed normally.  |
| <a href="#">KmWarning</a>         | The processing was completed normally (there was a warning).                          |
| <a href="#">KmErNoConnect</a>     | No instrument is connected to the specified virtual COM port.                         |
| <a href="#">KmErCannotCommand</a> | The current instrument does not support the specified function.                       |
| <a href="#">KmErConnectFailed</a> | Failed to connect to the instrument. Or, connection is not established using Connect. |

\* Refer to the [List of errors](#) for errors not listed above.

**Supported Instruments:**

| 25cG | 26dG | 26d | 25d | 23d | M6 | 36dG  | 36d   | 3630A |
|------|------|-----|-----|-----|----|-------|-------|-------|
| x    | x    | x   | x   | x   | x  | V1.0~ | V1.0~ | x     |

**Description:**

This function obtains the detected measurement area.

When [CMMISDK\\_SetMeasurementArea](#) is AREA\_AUTO, use this API.

## 5. Definitions/Structures

### 5.1 Type definitions

| Definition | Byte | Description                          | C/C++              | C# and VB.NET | VBA (VB6) |
|------------|------|--------------------------------------|--------------------|---------------|-----------|
| int8_km    | 1    | Signed byte type                     | char               | SByte         | (Byte)    |
| uint8_km   | 1    | Byte type                            | unsigned char      | Byte          | Byte      |
| int16_km   | 2    | Short integer type                   | short              | Short         | Integer   |
| uint16_km  | 2    | Short integer type (unsigned)        | unsigned short     | UShort        | (Integer) |
| int32_km   | 4    | Integer type                         | long(int)          | Integer       | Long      |
| uint32_km  | 4    | Integer type (unsigned)              | unsigned long      | UInteger      | (Long)    |
| int64_km   | 8    | Long integer type                    | long long          | Long          |           |
| uint64_km  | 8    | Long integer type (unsigned)         | unsigned long long | ULong         |           |
| float32_km | 4    | Single precision floating point type | float              | Single        | Single    |
| float64_km | 8    | Double precision floating point type | double             | Double        | Double    |

## **5.2 Structure definitions**

### **CMMISDK\_Port (COM port information)**

**Format:**

```
struct CMMISDK_Port
{
    char port_name[SIZE_PORTNAME];
}
```

**Variable:**

| Variable  | Explanation   |
|-----------|---------------|
| port_name | COM port name |

### **CMMISDK\_InstrumentInfo (Instrument information)**

**Format:**

```
struct CMMISDK_InstrumentInfo
{
    int32_km   DataSize;
    int32_km   WaveLengthStart;
    int32_km   WaveLengthEnd;
    int32_km   WaveLengthPitch;
    int32_km   SerialNo;
    int32_km   VersionMajor;
    int32_km   VersionMinor;
    int32_km   VersionFree;
    char       InstrumentName[SIZE_INSTRUMENT_NAME];
}
```

**Variable:**

| Variable        | Explanation   |
|-----------------|---|
| DataSize        | Reflectance Size of data (determined by minimum wavelength, maximum wavelength, and wavelength pitch) |
| WaveLengthStart | Reflectance Wavelength range: Minimum wavelength  |
| WaveLengthEnd   | Reflectance Wavelength range: Maximum wavelength  |
| WaveLengthPitch | Reflectance Wavelength range: Wavelength pitch  |
| SerialNo        | Serial number   |
| VersionMajor    | Product version (Major)   |
| VersionMinor    | Product version (Minor)   |
| VersionFree     | Product version (Free)  |
| InstrumentName  | Product name  |

### **CMMISDK\_Version (Version information)**

**Format:**

```
struct CMMISDK_Version
{
    int32_km   major;
    int32_km   minor;
    int32_km   free;
}
```

**Variable:**

| Variable | Explanation |
|----------|-------------|
| major    | Major       |
| minor    | Minor       |
| free     | Free        |

### **CMMISDK\_Data (Measurement data)**

**Format:**

```
struct CMMISDK_Data
{
    float64_km  data[SIZE_DATA];
}
```

**Variable:**

| Variable | Explanation   |
|----------|---|
| data     | Data<br>*the DataSize number obtained by <a href="#">CMMISDK_GetInstrumentInfo</a> is used. |

### **CMMISDK\_ColorCond (Color value calculation conditions)**

**Format:**

```
struct CMMISDK_ColorCond
{
    CMMISDK\_Observer    obs;
    CMMISDK\_Illuminant ill;
    CMMISDK\_ColorSpace colorSpace;
}
```

**Variable:**

| Variable   | Explanation  |
|------------|--|
| obs        | Observer   |
| ill        | Illuminant<br>* ILL_USER1 cannot be specified with <a href="#">CMMISDK_ReadLatestDataColor</a> .<br>* ILL_USER1 cannot be specified with <a href="#">CMMISDK_GetLatestDataColor</a> .  |
| colorSpace | Color space<br>* A value other than COLOR_MUNSELL_C can be specified with <a href="#">CMMISDK_ReadLatestDataColor</a> .<br>* A value other than COLOR_MUNSELL_C can be specified with <a href="#">CMMISDK_GetLatestDataColor</a> .<br>* Only L*a*b*, Hunter Lab, and XYZ can be specified with <a href="#">CMMISDK_SetTargetDataColor</a> and <a href="#">CMMISDK_GetTargetDataColor</a> . |

### **CMMISDK\_UserCalId (User calibration ID)**

**Format:**

```
struct CMMISDK_UserCalId
{
    char id[SIZE_USERCAL_ID];
}
```

**Variable:**

| Variable | Explanation |
|----------|-------------|
| id       | ID          |

### **CMMISDK\_UvAdjustIndex (Index data for fluorescence adjustment)**

**Format:**

```
struct CMMISDK_UvAdjustIndex
{
    float64_km  value;
    float64_km  tolerance;
}
```

**Variable:**

| Variable  | Explanation     |
|-----------|-----------------|
| value     | Value           |
| tolerance | Allowable width |

### **CMMISDK\_UvAdjustCoef (Fluorescence adjustment coefficient)**

**Format:**

```
struct CMMISDK_UvAdjustCoef
{
    float64_km coefficient[SIZE_DATA];
    float64_km correction[SIZE_DATA];
    float64_km param[SIZE_GG_PARAM];
    int32_km date[SIZE_DATE];
}
```

**Variable:**

| Variable    | Explanation  |
|-------------|--|
| coefficient | Fluorescence coefficient   |
| correction  | Fluorescence correction value  |
| param       | Parameter<br>* Stored in the order of P, Q, C, m, n, k, and dWdS only when using the Ganz & Griesser method. |
| date        | Adjustment date/time<br>Values are stored in the array in year/month/day/hours/minutes/seconds order.        |

### **CMMISDK\_UvAdjustGG (Ganz & Griesser fluorescence adjustment data)**

**Format:**

```
struct CMMISDK_UvAdjustGG
{
    int32_km count;
    float64_km WI[SIZE_GG];
    float64_km Tint[SIZE_GG];
}
```

**Variable:**

| Variable | Explanation                               |
|----------|---|
| count    | Number of samples to be used              |
| WI       | WI value for the number of samples used   |
| Tint     | Tint value for the number of samples used |

### **CMMISDK\_GGData (Measurement data for Ganz & Griesser)**

**Format:**

```
struct CMMISDK_GGData
{
    CMMISDK_UvAdjustData UvFull[SIZE_GG];
    CMMISDK_UvAdjustData UvCut[SIZE_GG];
}
```

**Variable:**

| Variable | Explanation         |
|----------|---------------------|
| UvFull   | UV full reflectance |
| UvCut    | UV cut reflectance  |

### **CMMISDK\_CondSMC (SMC conditions)**

**Format:**

```
struct CMMISDK_CondSMC
{
    CMMISDK_OnOff enable;
    int32_km times;
    float64_km threshold;
}
```

}

**Variable:**

| Variable  | Explanation                                |
|-----------|--|
| enable    | Enable or disable function                 |
| times     | Number of times to average (3 to 10 times) |
| threshold | Threshold value level (0.01 to 9.99)       |

### **CMMISDK\_UserIlluminant (User illuminant data)**

**Format:**

```
struct CMMISDK_UserIlluminant
{
    float64_km  data[SIZE_USER_ILLUMINANT];
    char        name[SIZE_USER_ILL_NAME];
}
```

**Variable:**

| Variable | Explanation   |
|----------|---|
| data     | User illuminant data<br>85 items of data between 360 to 780 nm at 5-nm pitch  |
| name     | User illuminant name<br>* The size is 16 bytes, but no more than 10 characters can be set.<br>* Name displayed on the menu. "User" will be applied if the character length is zero. |

### **CMMISDK\_SavedTargetList (Saved target list)**

**Format:**

```
struct CMMISDK_SavedTargetList
{
    int32_km  size;
    int32_km  list[SIZE_TARGET];
}
```

**Variable:**

| Variable | Explanation  |
|----------|--|
| size     | Number of saved targets  |
| list     | List of saved numbers<br>* Stores the target numbers in the amount of the size variable. |

### **CMMISDK\_TargetProperty (Target properties)**

**Format:**

```
struct CMMISDK_TargetProperty
{
    int32_km          date[SIZE_DATE];
    int32_km          group_list[SIZE_GROUP];
    CMMISDK\_MeasType      meas_type;
    CMMISDK\_MeasMode     meas_mode;
    CMMISDK\_MeasArea    meas_area;
    CMMISDK\_MeasAngle   meas_angle;
    CMMISDK\_LightDirection meas_ldirection;
    CMMISDK\_SpecularComponent  meas_scie;
    CMMISDK\_Uv           meas_uv;
    int32_km          warning_level;
    CMMISDK\_Warning    warning;
    int32_km          diagnosis;
    CMMISDK\_DataAttr   data_attr;
    char              name[SIZE_DATANAME];
}
```

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**Variable:**

| Variable        | Explanation  |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
|-----------------|--|--|------|-----------------------|------|-------------------------|------|-------------------------|------|-------------------------|------|---|------|-----------------------------------|
| date            | Measurement (registration) date/time<br>Values are stored in the array in year/month/day/hours/minutes/seconds order.  |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| group_list      | Group number list  |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| meas_type       | Measurement method   |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| meas_mode       | Measurement mode   |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| meas_area       | Measurement area   |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| meas_angle      | Measurement angle  |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| meas_Idirection | Irradiation direction  |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| meas_scie       | Specular component   |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| meas_uv         | UV condition   |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| warning_level   | Warning level  |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| warning         | Warning information <table border="1" style="margin-left: 20px;"> <tr><td>0x01</td><td>Voltage drop</td></tr> <tr><td>0x02</td><td>Calibration recommended</td></tr> <tr><td>0x04</td><td>Xe lamp deterioration</td></tr> <tr><td>0x08</td><td>LED lamp deterioration</td></tr> <tr><td>0x10</td><td>Reflectance outside of measurable range</td></tr> <tr><td>0x20</td><td>Gloss outside of measurable range</td></tr> </table> |  | 0x01 | Voltage drop          | 0x02 | Calibration recommended | 0x04 | Xe lamp deterioration   | 0x08 | LED lamp deterioration  | 0x10 | Reflectance outside of measurable range | 0x20 | Gloss outside of measurable range |
| 0x01            | Voltage drop   |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x02            | Calibration recommended  |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x04            | Xe lamp deterioration  |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x08            | LED lamp deterioration   |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x10            | Reflectance outside of measurable range  |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x20            | Gloss outside of measurable range  |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| diagnosis       | Diagnosis information <table border="1" style="margin-left: 20px;"> <tr><td>0x01</td><td>Repeatability failure</td></tr> <tr><td>0x02</td><td>Repeatability warning</td></tr> <tr><td>0x04</td><td>Reproducibility failure</td></tr> <tr><td>0x08</td><td>Reproducibility warning</td></tr> <tr><td>0x10</td><td>Intensity failure</td></tr> <tr><td>0x20</td><td>Intensity warning</td></tr> </table>                           |  | 0x01 | Repeatability failure | 0x02 | Repeatability warning   | 0x04 | Reproducibility failure | 0x08 | Reproducibility warning | 0x10 | Intensity failure                       | 0x20 | Intensity warning                 |
| 0x01            | Repeatability failure  |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x02            | Repeatability warning  |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x04            | Reproducibility failure  |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x08            | Reproducibility warning  |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x10            | Intensity failure  |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x20            | Intensity warning  |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| data_attr       | Data attribute   |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| name            | Data name<br>* The size is 64 bytes, but the character length depends on the instrument capabilities.  |  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |

**CMMISDK\_ToleranceData (Tolerance data)**

**Format:**

```
struct CMMISDK_ToleranceData
{
    int32_km upper_enable;
    int32_km upper_value;
    int32_km lower_enable;
    int32_km lower_value;
}
```

**Variable:**

| Variable     | Explanation  |
|--------------|--|
| upper_enable | Upper limit enable/disable (0: disable, 1: enable)   |
| upper_value  | Upper limit (Value multiplied by 100. However, only x · y is a value multiplied by 10000.) |
| lower_enable | Lower limit enable/disable (0: disable, 1: enable)   |
| lower_value  | Lower limit (Value multiplied by 100. However, only x · y is a value multiplied by 10000.) |

**CMMISDK\_ParametricCoef (Parametric coefficient data)**

**Format:**

```
struct CMMISDK_ParametricCoef
```

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```
{
    float64_km  coef[SIZE_PARAMETRIC_COEF];
}
```

**Variable:**

| Variable | Explanation   |
|----------|---|
| coef     | Parametric coefficient<br>* The coefficients have the following order: l, c, h. |

**CMMISDK\_SampleProperty (Measurement value properties)**

**Format:**

```
struct CMMISDK_SampleProperty
{
    int32_km          date[SIZE_DATE];
    CMMISDK\_MeasType      meas_type;
    CMMISDK\_MeasMode     meas_mode;
    CMMISDK\_MeasArea    meas_area;
    CMMISDK\_MeasAngle   meas_angle;
    CMMISDK\_LightDirection meas_ldirection;
    CMMISDK\_SpecularComponent  meas_scie;
    CMMISDK\_Uv           meas_uv;
    CMMISDK\_Warning      warning;
    int32_km          diagnosis;
    CMMISDK\_DataAttr    data_attr;
    int32_km          relation_target;
    char              name[SIZE_DATANAME];
}
```

**Variable:**

| Variable        | Explanation  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
|-----------------|--|------|-----------------------|------|-------------------------|------|-------------------------|------|-------------------------|------|---|------|-----------------------------------|
| date            | Measurement (registration) date/time<br>Values are stored in the array in year/month/day/hours/minutes/seconds order.  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| meas_type       | Measurement method   |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| meas_mode       | Measurement mode   |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| meas_area       | Measurement area   |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| meas_angle      | Measurement angle  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| meas_ldirection | Irradiation direction  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| meas_scie       | Specular component   |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| meas_uv         | UV condition   |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| warning         | Warning information <table border="1"> <tr><td>0x01</td><td>Voltage drop</td></tr> <tr><td>0x02</td><td>Calibration recommended</td></tr> <tr><td>0x04</td><td>Xe lamp deterioration</td></tr> <tr><td>0x08</td><td>LED lamp deterioration</td></tr> <tr><td>0x10</td><td>Reflectance outside of measurable range</td></tr> <tr><td>0x20</td><td>Gloss outside of measurable range</td></tr> </table> | 0x01 | Voltage drop          | 0x02 | Calibration recommended | 0x04 | Xe lamp deterioration   | 0x08 | LED lamp deterioration  | 0x10 | Reflectance outside of measurable range | 0x20 | Gloss outside of measurable range |
| 0x01            | Voltage drop   |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x02            | Calibration recommended  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x04            | Xe lamp deterioration  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x08            | LED lamp deterioration   |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x10            | Reflectance outside of measurable range  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x20            | Gloss outside of measurable range  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| diagnosis       | Diagnosis information <table border="1"> <tr><td>0x01</td><td>Repeatability failure</td></tr> <tr><td>0x02</td><td>Repeatability warning</td></tr> <tr><td>0x04</td><td>Reproducibility failure</td></tr> <tr><td>0x08</td><td>Reproducibility warning</td></tr> <tr><td>0x10</td><td>Intensity failure</td></tr> <tr><td>0x20</td><td>Intensity warning</td></tr> </table>                           | 0x01 | Repeatability failure | 0x02 | Repeatability warning   | 0x04 | Reproducibility failure | 0x08 | Reproducibility warning | 0x10 | Intensity failure                       | 0x20 | Intensity warning                 |
| 0x01            | Repeatability failure  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x02            | Repeatability warning  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x04            | Reproducibility failure  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x08            | Reproducibility warning  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x10            | Intensity failure  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| 0x20            | Intensity warning  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| data_attr       | Data attribute   |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| relation_target | Related target number  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |
| name            | Data name<br>* The size is 64 bytes, but the character length depends on the instrument capabilities.  |      |                       |      |                         |      |                         |      |                         |      |   |      |                                   |

### CMMISDK\_DateTime (Date and time data)

**Format:**

```
struct CMMISDK_DateTime  
{  
    int32_km    year;  
    int32_km    month;  
    int32_km    day;  
    int32_km    hour;  
    int32_km    minute;  
    int32_km    second;  
}
```

**Variable:**

| Variable | Explanation |
|----------|-------------|
| year     | Year        |
| month    | Month       |
| day      | Day         |
| hour     | Hour        |
| minute   | Minute      |
| second   | Second      |

### CMMISDK\_UserEquation (User index information)

**Format:**

```
struct CMMISDK_UserEquation  
{  
    char formula[SIZE_USER_EQUATION];  
    char user_class[SIZE_USER_EQUATION];  
}
```

**Variable:**

| Variable   | Explanation  |
|------------|--------------|
| formula    | User index   |
| user_class | User classes |

### CMMISDK\_GroupList (Group list)

**Format:**

```
struct CMMISDK_GroupList  
{  
    int32_km group[SIZE_GROUP];  
}
```

**Variable:**

| Variable | Explanation |
|----------|-------------|
| group    | Group list  |

### CMMISDK\_Group (Group information)

**Format:**

```
struct CMMISDK_Group  
{  
    char name[SIZE_GROUP_NAME];  
}
```

**Variable:**

| Variable | Explanation   |
|----------|---|
| name     | Name<br>* The size is 32 bytes, but the character length depends on the instrument. Refer to <a href="#">Appendix C</a> . |

### CMMISDK\_GroupAll (All group information)

**Format:**

```
struct CMMISDK_GroupAll
{
    char name[SIZE_GROUP_ALL][SIZE_GROUP_NAME];
}
```

**Variable:**

| Variable | Explanation   |
|----------|---|
| name     | Name<br>* The size is 32 bytes, but the character length depends on the instrument. Refer to <a href="#">Appendix C</a> . |

### CMMISDK\_AdminPass (Administrator password)

**Format:**

```
struct CMMISDK_AdminPass
{
    char password[SIZE_ADMIN_PASS];
}
```

**Variable:**

| Variable | Explanation            |
|----------|------------------------|
| password | Administrator password |

### CMMISDK\_JobInfo (Job information)

**Format:**

```
struct CMMISDK_JobInfo
{
    int32_km step_count;
    CMMISDK_OnOff step_loop;
    char name[SIZE_JOB_NAME];
}
```

**Variable:**

| Variable   | Explanation   |
|------------|---|
| step_count | Number of steps to register for job (1 to 20)                   |
| step_loop  | Repeat job on/off   |
| name       | Name<br>* Dependent on <a href="#">instrument and version</a> . |

### CMMISDK\_JobStepOperation (Job operation step)

**Format:**

```
struct CMMISDK_JobStepOperation
{
    int32_km image_num;
    CMMISDK_MeasType meas_type;
    CMMISDK_MeasMode meas_mode;
    CMMISDK_MeasArea meas_area;
    CMMISDK_MeasAngle meas_angle;
    CMMISDK_LightDirection meas_idirection;
    CMMISDK_SpecularComponent meas_scie;
    CMMISDK_Uv meas_uv;
    int32_km auto_ave_times;
    int32_km manu_ave_times;
    int32_km relation_target;
}
```

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```

CMMISDK_OnOff      enable_meas;
CMMISDK_OnOff      enable_prev;
CMMISDK_OnOff      enable_next;
CMMISDK_OnOff      enable_end;
char                name[SIZE_DATANAME];
char                comment[SIZE_JOB_COMMENT];
}

```

**Variable:**

| Variable        | Explanation  |
|-----------------|--|
| image_num       | Image number (0 to 10)<br>* 10 is handled as "No image".             |
| meas_type       | Measurement type   |
| meas_mode       | Measurement mode   |
| meas_area       | Measurement area   |
| meas_angle      | Measurement angle  |
| meas_Idirection | Irradiation direction  |
| meas_scie       | Specular component   |
| meas_uv         | UV condition   |
| auto_ave_times  | Auto average count (1 to 10)   |
| manu_ave_times  | Manual average count (1 to 30)                                       |
| relation_target | Related target number<br>* Opacity attribute data cannot be set.     |
| enable_meas     | Measurement button enable/disable                                    |
| eable_prev      | Display previous button on/off                                       |
| enable_next     | Display next button on/off   |
| enable_end      | End button enable/disable  |
| name            | Data name<br>* Dependent on <a href="#">instrument and version</a> . |
| comment         | Comment<br>* Dependent on <a href="#">instrument and version</a> .   |

### CMMISDK\_JobStepResult (Job result step)

**Format:**

```

struct CMMISDK_JobStepResult
{
    CMMISDK_SpecularComponent   meas_scie;
    CMMISDK_Observer            obs1;
    CMMISDK_Observer            obs2;
    CMMISDK_Illuminant          ill1;
    CMMISDK_Illuminant          ill2;
    CMMISDK_CustomIndex         index[SIZE_JOB_INDEX];
    CMMISDK_OnOff               enable_meas;
    CMMISDK_OnOff               enable_prev;
    CMMISDK_OnOff               enable_next;
    CMMISDK_OnOff               enable_end;
}

```

**Variable:**

| Variable    | Explanation                       |
|-------------|-----------------------------------|
| meas_scie   | Specular component                |
| obs1        | Observer 1                        |
| obs2        | Observer 2                        |
| ill1        | Illuminant 1                      |
| ill2        | Illuminant 2                      |
| index       | Custom items                      |
| enable_meas | Measurement button enable/disable |
| eable_prev  | Display previous button on/off    |
| enable_next | Display next button on/off        |

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|            |                           |
|------------|---------------------------|
| enable_end | End button enable/disable |
|------------|---------------------------|

### **CMMISDK\_JobImage (Job image)**

**Format:**

```
struct CMMISDK_JobImage
{
    int32_km width;
    int32_km height;
    int32_km data[SIZE_IMAGEDATA];
    char     name[SIZE_JOBIMAGE_NAME];
}
```

**Variable:**

| Variable | Explanation   |
|----------|---|
| width    | Width (240 fixed)   |
| height   | Height (128 fixed)  |
| data     | Image data (arranged in Z order from top left)<br>The data is stored as 1 pixel per element. R, G, and B are each 8 bits.<br>The data is stored right-aligned in BGR order. |
| name     | Image name  |

### **CMMISDK\_FinderImage (Finder image)**

**Format:**

```
struct CMMISDK_FinderImage
{
    int32_km width;
    int32_km height;
    int32_km data[SIZE_IMAGE_FINDER];
}
```

**Variable:**

| Variable | Explanation   |
|----------|---|
| width    | Width (240 fixed)   |
| height   | Height (128 fixed)  |
| data     | Image data (arranged in Z order from top left)<br>The data is stored as 1 pixel per element. R, G, and B are each 8 bits.<br>The data is stored right-aligned in BGR order. |

### **5.3 Value definition**

#### **CMMISDK\_Warning (Warning status)**

|                                       | <b>Value</b> | <b>Explanation</b>  |
|---------------------------------------|--------------|---|
| KmWrBattery                           | 0x0001       | Low battery voltage.  |
| KmWrCalibration                       | 0x0002       | Recalibration required. It has been a long time since calibration.  |
| KmWrPreAnnualCalibraton               | 0x0004       | Periodical calibration required soon.   |
| KmWrAnnualCalibraton                  | 0x0008       | Periodical calibration required.  |
| KmWrLampForColor                      | 0x0010       | Low illuminant intensity for color measurement.   |
| KmWrOutOfColorRange                   | 0x0020       | Reflectance outside range of guaranteed performance.  |
| KmWrOutOfGlossRange                   | 0x0040       | Gloss outside range of guaranteed performance.  |
| KmWrLampForGloss                      | 0x0080       | Low illuminant intensity for gloss measurement.   |
| KmWrPreWavelengthCorrection           | 0x0100       | The deadline for wavelength correction is approaching.  |
| KmWrWavelengthCorrection              | 0x0200       | The wavelength correction deadline has passed.  |
| KmWrLampForDiagnosis                  | 0x0400       | Low light intensity in illuminatin for wavelength correction.   |
| KmWrInsufficientLampForDiagnosis      | 0x0800       | Lack of light intensity in illuminatin for wavelength correction.<br><br>* If this problem persists even after the instrument is restarted, contact Customer Service.   |
| KmWrOutOfTemperatureRangeForDiagnosis | 0x1000       | Temperture outside range of guranteed wavelength correction performance. The correction accuracy has decreased.   |
| KmWrOutOfCorrectionRangeForDiagnosis  | 0x2000       | Correction amount outside range of guranteed wavelength correction perfomance. The correction accuracy has decreased.<br><br>* If this problem persists even after the instrument is restarted, contact Customer Service. |

\* Dependent on [instrument and version](#).

### CMMISDK\_CalStatus (Calibration status)

|                  | <b>Value</b> | <b>Explanation</b>                                |
|------------------|--------------|---|
| StatusZero       | 0            | Zero calibration is required                      |
| StatusWhite      | 1            | White calibration is required                     |
| StatusGloss      | 2            | Gloss calibration is required                     |
| StatusMeasure    | 3            | Measurement is possible                           |
| StatusMeasureWrn | 4            | Measurement is possible (calibration recommended) |
| StatusUser       | 5            | User calibration is required                      |

\* Dependent on [instrument and version](#).

### CMMISDK\_CalDataType (Calibration data type)

- For the CM-25cG

|             | <b>Value</b> | <b>Explanation</b> |
|-------------|--------------|--------------------|
| CALTYPE_MAV | 0            | MAV                |
| CALTYPE_SAV | 1            | SAV                |

- For the CM-26dG/CM-26d

|                 | <b>Value</b> | <b>Explanation</b> |
|-----------------|--------------|--------------------|
| CALTYPE_MAV_SCI | 0            | MAV/SCI            |
| CALTYPE_MAV_SCE | 1            | MAV/SCE            |
| CALTYPE_SAV_SCI | 2            | SAV/SCI            |
| CALTYPE_SAV_SCE | 3            | SAV/SCE            |

- For CM-25d/CM-23d

|                 | <b>Value</b> | <b>Explanation</b> |
|-----------------|--------------|--------------------|
| CALTYPE_MAV_SCI | 0            | MAV/SCI            |
| CALTYPE_MAV_SCE | 1            | MAV/SCE            |

- For the CM-M6

|                     | <b>Value</b> | <b>Explanation</b> |
|---------------------|--------------|--------------------|
| CALTYPE_L_ANGLE_M15 | 0            | Left -15°          |
| CALTYPE_L_ANGLE_15  | 1            | Left 15°           |
| CALTYPE_L_ANGLE_25  | 2            | Left 25°           |
| CALTYPE_L_ANGLE_45  | 3            | Left 45°           |
| CALTYPE_L_ANGLE_75  | 4            | Left 75°           |
| CALTYPE_L_ANGLE_110 | 5            | Left 110°          |
| CALTYPE_R_ANGLE_M15 | 6            | Right -15°         |
| CALTYPE_R_ANGLE_15  | 7            | Right 15°          |
| CALTYPE_R_ANGLE_25  | 8            | Right 25°          |
| CALTYPE_R_ANGLE_45  | 9            | Right 45°          |
| CALTYPE_R_ANGLE_75  | 10           | Right 75°          |
| CALTYPE_R_ANGLE_110 | 11           | Right 110°         |

- For the CM-36dG

|                  | <b>Value</b> | <b>Explanation</b>     |
|------------------|--------------|------------------------|
| CALTYPE_MAV_SCI  | 0            | MAV/SCI                |
| CALTYPE_MAV_SCE  | 1            | MAV/SCE                |
| CALTYPE_SAV_SCI  | 2            | SAV/SCI                |
| CALTYPE_SAV_SCE  | 3            | SAV/SCE                |
| CALTYPE_LAV_SCI  | 4            | LAV/SCI                |
| CALTYPE_LAV_SCE  | 5            | LAV/SCE                |
| CALTYPE_LMAV_SCI | 6            | LMAV/SCI               |
| CALTYPE_LMAV_SCE | 7            | LMAV/SCE               |
| CALTYPE_TRA      | 8            | Transmitted(LAV fixed) |

- For the CM-36d

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|                 | <b>Value</b> | <b>Explanation</b> |
|-----------------|--------------|--------------------|
| CALTYPE_MAV_SCI | 0            | MAV/SCI            |
| CALTYPE_MAV_SCE | 1            | MAV/SCE            |
| CALTYPE_SAV_SCI | 2            | SAV/SCI            |
| CALTYPE_SAV_SCE | 3            | SAV/SCE            |
| CALTYPE_LAV_SCI | 4            | LAV/SCI            |
| CALTYPE_LAV_SCE | 5            | LAV/SCE            |

- For the CM-3630A

|             | <b>Value</b> | <b>Explanation</b> |
|-------------|--------------|--------------------|
| CALTYPE_MAV | 0            | MAV                |
| CALTYPE_LAV | 2            | LAV                |

#### **CMMISDK\_MeasStatus (Measurement status)**

|           | <b>Value</b> | <b>Explanation</b> |
|-----------|--------------|--------------------|
| Idling    | 0            | Idling state       |
| Measuring | 1            | Measuring          |

#### **CMMISDK\_DataType (Data type)**

- For the CM-25cG

|                | <b>Value</b> | <b>Explanation</b> |
|----------------|--------------|--------------------|
| DATATYPE_GLOSS | 0            | GU (1 item)        |
| DATATYPE_SPEC  | 1            | Spectral data      |

- For the CM-26dG

|                     | <b>Value</b> | <b>Explanation</b>                                   |
|---------------------|--------------|--|
| DATATYPE_GLOSS      | 0            | GU (1 item)  |
| DATATYPE_SCI        | 1            | SCI (UV condition: Only when number of outputs is 1) |
| DATATYPE_SCE        | 2            | SCE (UV condition: Only when number of outputs is 1) |
| DATATYPE_BACKWHITE  | 3            | Opacity white back                                   |
| DATATYPE_BACKBLACK  | 4            | Opacity black back                                   |
| DATATYPE_SCI_UVFULL | 10           | SCI (UV100%)   |
| DATATYPE_SCE_UVFULL | 11           | SCE (UV100%)   |
| DATATYPE_SCI_UVCUT  | 12           | SCI (UV cut)   |
| DATATYPE_SCE_UVCUT  | 13           | SCE (UV cut)   |
| DATATYPE_SCI_UVADJ  | 14           | SCI (UV adjustment)                                  |
| DATATYPE_SCE_UVADJ  | 15           | SCE (UV adjustment)                                  |

- For the CM-26d

|                     | <b>Value</b> | <b>Explanation</b>                                   |
|---------------------|--------------|--|
| DATATYPE_SCI        | 1            | SCI (UV condition: Only when number of outputs is 1) |
| DATATYPE_SCE        | 2            | SCE (UV condition: Only when number of outputs is 1) |
| DATATYPE_BACKWHITE  | 3            | Opacity white back                                   |
| DATATYPE_BACKBLACK  | 4            | Opacity black back                                   |
| DATATYPE_SCI_UVFULL | 10           | SCI (UV100%)   |
| DATATYPE_SCE_UVFULL | 11           | SCE (UV100%)   |
| DATATYPE_SCI_UVCUT  | 12           | SCI (UV cut)   |
| DATATYPE_SCE_UVCUT  | 13           | SCE (UV cut)   |
| DATATYPE_SCI_UVADJ  | 14           | SCI (UV adjustment)                                  |
| DATATYPE_SCE_UVADJ  | 15           | SCE (UV adjustment)                                  |

- For the CM-25d/CM-23d

|                    | <b>Value</b> | <b>Explanation</b> |
|--------------------|--------------|--------------------|
| DATATYPE_SCI       | 1            | SCI                |
| DATATYPE_SCE       | 2            | SCE                |
| DATATYPE_BACKWHITE | 3            | Opacity white back |

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|                    |   |                    |
|--------------------|---|--------------------|
| DATATYPE_BACKBLACK | 4 | Opacity black back |
|--------------------|---|--------------------|

■ For the CM-M6

|                       | <b>Value</b> | <b>Explanation</b> |
|-----------------------|--------------|--------------------|
| DATATYPE_L_ANGLE_M15  | 0            | Left -15°          |
| DATATYPE_L_ANGLE_15   | 1            | Left 15°           |
| DATATYPE_L_ANGLE_25   | 2            | Left 25°           |
| DATATYPE_L_ANGLE_45   | 3            | Left 45°           |
| DATATYPE_L_ANGLE_75   | 4            | Left 75°           |
| DATATYPE_L_ANGLE_110  | 5            | Left 110°          |
| DATATYPE_R_ANGLE_M15  | 6            | Right -15°         |
| DATATYPE_R_ANGLE_15   | 7            | Right 15°          |
| DATATYPE_R_ANGLE_25   | 8            | Right 25°          |
| DATATYPE_R_ANGLE_45   | 9            | Right 45°          |
| DATATYPE_R_ANGLE_75   | 10           | Right 75°          |
| DATATYPE_R_ANGLE_110  | 11           | Right 110°         |
| DATATYPE_DP_ANGLE_M15 | 12           | Double path -15°   |
| DATATYPE_DP_ANGLE_15  | 13           | Double path 15°    |
| DATATYPE_DP_ANGLE_25  | 14           | Double path 25°    |
| DATATYPE_DP_ANGLE_45  | 15           | Double path 45°    |
| DATATYPE_DP_ANGLE_75  | 16           | Double path 75°    |
| DATATYPE_DP_ANGLE_110 | 17           | Double path 110°   |

■ For the CM-36dG

|                     | <b>Value</b> | <b>Explanation</b>                                   |
|---------------------|--------------|--|
| DATATYPE_GLOSS      | 0            | GU (1 item)  |
| DATATYPE_SCI        | 1            | SCI (UV condition: Only when number of outputs is 1) |
| DATATYPE_SCE        | 2            | SCE (UV condition: Only when number of outputs is 1) |
| DATATYPE_SCI_UVFULL | 10           | SCI (UV100%)   |
| DATATYPE_SCE_UVFULL | 11           | SCE (UV100%)   |
| DATATYPE_SCI_UVCUT  | 12           | SCI (UV cut)   |
| DATATYPE_SCE_UVCUT  | 13           | SCE (UV cut)   |
| DATATYPE_SCI_UVADJ  | 14           | SCI (UV adjustment)                                  |
| DATATYPE_SCE_UVADJ  | 15           | SCE (UV adjustment)                                  |
| DATATYPE_TRA        | 16           | Transmitted  |

■ For the CM-36d

|              | <b>Value</b> | <b>Explanation</b> |
|--------------|--------------|--------------------|
| DATATYPE_SCI | 1            | SCI                |
| DATATYPE_SCE | 2            | SCE                |

■ For the CM-3630A

|                      | <b>Value</b> | <b>Explanation</b> |
|----------------------|--------------|--------------------|
| DATATYPE_SPEC        | 1            | Spectral data      |
| DATATYPE_SPEC_UVFULL | 10           | (UV100%)           |
| DATATYPE_SPEC_UVCUT  | 12           | (UV cut)           |
| DATATYPE_SPEC_UVADJ  | 14           | (UV adjustment)    |

\* If no number is indicated, the DataSize number obtained by [CMMISDK\\_GetInstrumentInfo](#) is used.

**CMMISDK\_ConfUvAdjust (Fluorescence adjustment conditions)**

|                  | <b>Value</b> | <b>Explanation</b> |
|------------------|--------------|--------------------|
| UVADJ_PROFILE    | 0            | Profile            |
| UVADJ_WI         | 1            | WI                 |
| UVADJ_TINT       | 2            | Tint               |
| UVADJ_WITINT     | 3            | WI & Tint          |
| UVADJ_BRIGHTNESS | 4            | ISO brightness     |
| UVADJ_GG         | 5            | Ganz & Griesser    |

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|            |    |              |
|------------|----|--------------|
| UVADJ_NONE | -1 | No condition |
|------------|----|--------------|

\* Dependent on [instrument and version](#).

#### **CMMISDK\_UvAdjustDataType (Fluorescence coefficient data type)**

|                     | <b>Value</b> | <b>Explanation</b> |
|---------------------|--------------|--------------------|
| UVADJ_DATATYPE_SCI  | 0            | SCI                |
| UVADJ_DATATYPE_SCE  | 1            | SCE                |
| UVADJ_DATATYPE_NONE | -1           | No condition       |

\* Dependent on [instrument and version](#).

#### **CMMISDK\_MeasType (Measurement type)**

|               | <b>Value</b> | <b>Explanation</b> |
|---------------|--------------|--------------------|
| MEASTYPE_REF  | 0            | Reflected          |
| MEASTYPE_TRA  | 1            | Transmitted        |
| MEASTYPE_NONE | -1           | No condition       |

\* Dependent on [instrument and version](#).

#### **CMMISDK\_MeasArea (Measurement area)**

|             | <b>Value</b> | <b>Explanation</b>      |
|-------------|--------------|-------------------------|
| AREA_MAV    | 0            | MAV                     |
| AREA_SAV    | 1            | SAV                     |
| AREA_LAV    | 2            | LAV                     |
| AREA_LMAV   | 3            | LMAV                    |
| AREA_AUTO   | 10           | Detected mask           |
| AREA_NONE   | -1           | Area fixed(No mask)     |
| AREA_MOVING | -99          | Moving measurement area |

\* Dependent on [instrument and version](#).

#### **CMMISDK\_MeasAngle (Measurement angle)**

|                 | <b>Value</b> | <b>Explanation</b> |
|-----------------|--------------|--------------------|
| MEAS_ANGLE_M15  | 0x01         | -15°               |
| MEAS_ANGLE_15   | 0x02         | 15°                |
| MEAS_ANGLE_25   | 0x04         | 25°                |
| MEAS_ANGLE_45   | 0x08         | 45°                |
| MEAS_ANGLE_75   | 0x10         | 75°                |
| MEAS_ANGLE_110  | 0x20         | 110°               |
| MEAS_ANGLE_NONE | -1           | No condition       |

\* Dependent on [instrument and version](#).

#### **CMMISDK\_MeasMode (Measurement mode)**

|                        | <b>Value</b> | <b>Explanation</b>              |
|------------------------|--------------|---------------------------------|
| MEASMODE_COLORANDGLOSS | 0            | Obtain measured color and gloss |
| MEASMODE_COLORONLY     | 1            | Obtain measured color only      |
| MEASMODE_GLOSSONLY     | 2            | Obtain gloss only               |
| MEASMODE_OPACITY       | 3            | Opacity                         |
| MEASMODE_NONE          | -1           | No condition                    |

\* Dependent on [instrument and version](#).

### **CMMISDK\_SpecularComponent (Specular component)**

|         | <b>Value</b> | <b>Explanation</b> |
|---------|--------------|--------------------|
| SC_SCI  | 0            | SCI                |
| SC_SCE  | 1            | SCE                |
| SC_SCIE | 2            | SCI+SCE            |
| SC_NONE | -1           | No condition       |

\* Dependent on [instrument and version](#).

### **CMMISDK\_Uv (UV condition)**

|                  | <b>Value</b> | <b>Explanation</b>   |
|------------------|--------------|--|
| UV_100           | 0            | UV100%   |
| UV_CUT400        | 1            | UV Cut 400 nm  |
| UV_CUT400N       | 3            | UV adjustment Cut 400 nm, normal illumination  |
| UV_100_CUT400    | 7            | UV 100% + UV cut 400 nm  |
| UV_100_CUT420    | 8            | UV 100% + UV cut 420 nm  |
| UV_100_CUT400LOW | 15           | UV 100% + UV cut 400 nm, low illumination  |
| UV_100_CUT420LOW | 16           | UV 100% + UV cut 420 nm, low illumination  |
| UV_100_CUT400N   | 9            | UV 100% + UV cut 400 nm + UV adjustment cut 400 nm, normal illumination                |
| UV_100_CUT400L   | 10           | UV 100% + UV cut 400 nm, low illumination + UV adjustment cut 400 nm, low illumination |
| UV_100_CUT420N   | 11           | UV 100% + UV cut 420 nm + UV adjustment cut 420 nm, normal illumination                |
| UV_100_CUT420L   | 12           | UV 100% + UV cut 420 nm, low illumination + UV adjustment cut 420 nm, low illumination |
| UV_NONE          | -1           | No condition   |

\* Dependent on [instrument and version](#).

### **CMMISDK\_SaveMode (Save method)**

|                 | <b>Value</b> | <b>Explanation</b> |
|-----------------|--------------|--------------------|
| SAVEMODE_AUTO   | 0            | Auto save          |
| SAVEMODE_MANUAL | 1            | Manual save        |

### **CMMISDK\_DisplayType (Display type)**

|                      | <b>Value</b> | <b>Explanation</b>                |
|----------------------|--------------|-----------------------------------|
| DISPTYPE_ABS         | 0x001        | Absolute values                   |
| DISPTYPE_DIF         | 0x002        | Color difference                  |
| DISPTYPE_ABSDIF      | 0x004        | Absolute value & color difference |
| DISPTYPE_CUSTOM      | 0x008        | Custom                            |
| DISPTYPE_GRAPH_ABS   | 0x010        | Absolute value graph              |
| DISPTYPE_GRAPH_DIF   | 0x020        | Color difference graph            |
| DISPTYPE_GRAPH_REF   | 0x040        | Spectral graph                    |
| DISPTYPE_PASS_FAIL   | 0x080        | Judgment                          |
| DISPTYPE_MI          | 0x100        | MI                                |
| DISPTYPE_GRAPH_LINE  | 0x200        | Line graph                        |
| DISPTYPE_AUDI2000_EC | 0x400        | $\Delta E_c$ (Audi2000)           |
| DISPTYPE_AUDI2000_EP | 0x800        | $\Delta E_p$ (Audi2000)           |

\* Dependent on [instrument and version](#).

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**CMMISDK\_Observer (Observer)**

|        | <b>Value</b> | <b>Explanation</b> |
|--------|--------------|--------------------|
| OBS_02 | 0            | 2°                 |
| OBS_10 | 1            | 10°                |

**CMMISDK\_Illuminant (Illuminant)**

|           | <b>Value</b> | <b>Explanation</b> |
|-----------|--------------|--------------------|
| ILL_NONE  | 0            | None               |
| ILL_A     | 1            | A                  |
| ILL_C     | 2            | C                  |
| ILL_D50   | 3            | D50                |
| ILL_D65   | 4            | D65                |
| ILL_ID50  | 5            | ID50               |
| ILL_ID65  | 6            | ID65               |
| ILL_F2    | 7            | F2                 |
| ILL_F6    | 8            | F6                 |
| ILL_F7    | 9            | F7                 |
| ILL_F8    | 10           | F8                 |
| ILL_F10   | 11           | F10                |
| ILL_F11   | 12           | F11                |
| ILL_F12   | 13           | F12                |
| ILL_USER1 | 14           | User 1             |

\* Dependent on [instrument and version](#).

**CMMISDK\_ColorSpace (Color space)**

|                 | <b>Value</b> | <b>Explanation</b> |
|-----------------|--------------|--------------------|
| COLOR_LAB       | 0            | L*a*b*             |
| COLOR_LCH       | 1            | L*C*h              |
| COLOR_HLAB      | 2            | Hunter Laboratory  |
| COLOR_YXY       | 3            | Yxy                |
| COLOR_XYZ       | 4            | XYZ                |
| COLOR_MUNSELL_C | 5            | Munsell (C)        |

\* Dependent on [instrument and version](#).

**CMMISDK\_Equation (Color equation)**

|                 | <b>Value</b> | <b>Explanation</b> |
|-----------------|--------------|--------------------|
| EQUATION_DE1976 | 0            | ΔE*ab              |
| EQUATION_CMC    | 1            | CMC                |
| EQUATION_DE1994 | 2            | ΔE*94              |
| EQUATION_DE2000 | 3            | ΔE00               |
| EQUATION_DEH    | 4            | ΔE(Hunter)         |
| EQUATION_DEP    | 5            | Δep(DIN6175)       |
| EQUATION_DEC    | 6            | Δec(DIN6175)       |
| EQUATION_DE99o  | 7            | ΔE99(DN99o)        |

\* Dependent on [instrument and version](#).

**CMMISDK\_CustomIndex (Custom item)**

|             | <b>Value</b> | <b>Explanation</b> |
|-------------|--------------|--------------------|
| CUSTOM_NONE | 0            | None               |
| CUSTOM_L    | 1            | L*                 |

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|                |     |              |
|----------------|-----|--------------|
| CUSTOM_A       | 2   | a*           |
| CUSTOM_B       | 3   | b*           |
| CUSTOM_C       | 4   | C*           |
| CUSTOM_H       | 5   | h            |
| CUSTOM_HL      | 6   | L(Hunter)    |
| CUSTOM_HA      | 7   | a(Hunter)    |
| CUSTOM_HB      | 8   | b(Hunter)    |
| CUSTOM_X       | 9   | X            |
| CUSTOM_Y       | 10  | Y            |
| CUSTOM_Z       | 11  | Z            |
| CUSTOM_SX      | 12  | x            |
| CUSTOM_SY      | 13  | y            |
| CUSTOM_MH      | 14  | H            |
| CUSTOM_MV      | 15  | V            |
| CUSTOM_MC      | 16  | C            |
| CUSTOM_WI_E    | 17  | WI(E313-73)  |
| CUSTOM_WI_C    | 18  | WI(CIE)      |
| CUSTOM_TINT_C  | 19  | Tint(CIE)    |
| CUSTOM_YI_E    | 20  | YI(E313)     |
| CUSTOM_YI_D    | 21  | YI(D1925)    |
| CUSTOM_B_ISO   | 22  | B(ISO)       |
| CUSTOM_GU      | 23  | GU           |
| CUSTOM_USER_E1 | 24  | UserE1       |
| CUSTOM_USER_C1 | 25  | UserC1       |
| CUSTOM_USER_E2 | 26  | UserE2       |
| CUSTOM_USER_C2 | 27  | UserC2       |
| CUSTOM_USER_E3 | 28  | UserE3       |
| CUSTOM_USER_C3 | 29  | UserC3       |
| CUSTOM_GLOSS8  | 30  | 8° gloss     |
| CUSTOM_WI_G    | 31  | WI(Ganz)     |
| CUSTOM_TINT_G  | 32  | Tint(Ganz)   |
| CUSTOM_DL      | -1  | ΔL*          |
| CUSTOM_DA      | -2  | Δa*          |
| CUSTOM_DB      | -3  | Δb*          |
| CUSTOM_DC      | -4  | ΔC*          |
| CUSTOM_DH      | -5  | ΔH*          |
| CUSTOM_DHL     | -6  | ΔL(Hunter)   |
| CUSTOM_DHA     | -7  | Δa(Hunter)   |
| CUSTOM_DHB     | -8  | Δb(Hunter)   |
| CUSTOM_DX      | -9  | ΔX           |
| CUSTOM_DY      | -10 | ΔY           |
| CUSTOM_DZ      | -11 | ΔZ           |
| CUSTOM_DSX     | -12 | Δx           |
| CUSTOM_DSY     | -13 | Δy           |
| CUSTOM_DWI_E   | -14 | ΔWI(E313-73) |
| CUSTOM_DWI_C   | -15 | ΔWI(CIE)     |
| CUSTOM_DTINT_C | -16 | Δtint(CIE)   |
| CUSTOM_DYI_E   | -17 | ΔYI(E313)    |
| CUSTOM_DYI_D   | -18 | ΔYI(D1925)   |
| CUSTOM_DB_ISO  | -19 | ΔB(ISO)      |
| CUSTOM_DGU     | -20 | ΔGU          |
| CUSTOM_MI      | -21 | MI           |
| CUSTOM_DE      | -22 | ΔE*ab        |
| CUSTOM_CMC     | -23 | CMC          |
| CUSTOM_DE94    | -24 | ΔE*94        |
| CUSTOM_DE00    | -25 | ΔE00         |
| CUSTOM_DEH     | -26 | ΔE(Hunter)   |

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|                     |     |             |
|---------------------|-----|-------------|
| CUSTOM_DE990        | -27 | ΔE99o       |
| CUSTOM_STRENGTH_XYZ | -28 | StrengthXYZ |
| CUSTOM_STRENGTH_X   | -29 | StrengthX   |
| CUSTOM_STRENGTH_Y   | -30 | StrengthY   |
| CUSTOM_STRENGTH_Z   | -31 | StrengthZ   |
| CUSTOM_GREYSCALE    | -32 | GreyScale   |
| CUSTOM_DWI_G        | -33 | ΔWI(Ganz)   |
| CUSTOM_DTINT_G      | -34 | ΔTint(Ganz) |

\* Dependent on [instrument and version](#).

**CMMISDK\_Direction (Irradiation direction to display)**

|              | <b>Value</b> | <b>Explanation</b> |
|--------------|--------------|--------------------|
| DIRECTION_DP | 0            | Double path        |
| DIRECTION_L  | 1            | L direction        |

\* Dependent on [instrument and version](#).

**CMMISDK\_LightDirection (Irradiation direction)**

|                 | <b>Value</b> | <b>Explanation</b> |
|-----------------|--------------|--------------------|
| LDIRECTION_NONE | 0            | None               |
| LDIRECTION_L    | 0x01         | L direction        |
| LDIRECTION_R    | 0x02         | R direction        |
| LDIRECTION_DP   | 0x04         | Double path        |

\* Dependent on [instrument and version](#).

**CMMISDK\_DataAttr (Data attribute)**

|               | <b>Value</b> | <b>Explanation</b> |
|---------------|--------------|--------------------|
| DATAATTR_SPEC | 0            | Spectral data      |
| DATAATTR_LAB  | 1            | L*a*b*             |
| DATAATTR_HLAB | 2            | Hunter Laboratory  |
| DATAATTR_XYZ  | 3            | XYZ                |

**CMMISDK\_FilterIndex (Filter attribute)**

|              | <b>Value</b> | <b>Explanation</b>   |
|--------------|--------------|--|
| FILTER_OFF   | 0            | OFF  |
| FILTER_SAVE  | 1            | Displays only the saved data                                       |
| FILTER_GROUP | 2            | Displays only the data corresponding to the specified group number |

**CMMISDK\_InstrumentMode (Instrument mode)**

|                       | <b>Value</b> | <b>Explanation</b> |
|-----------------------|--------------|--------------------|
| INSTRUMENTMODE_NORMAL | 0            | Normal mode        |
| INSTRUMENTMODE_SIMPLE | 1            | Simple mode        |

\* Dependent on [instrument and version](#).

**CMMISDK\_UserType (User type)**

|                 | <b>Value</b> | <b>Explanation</b> |
|-----------------|--------------|--------------------|
| USERTYPE_ADMIN  | 0            | Administrator      |
| USERTYPE_WORKER | 1            | Operator           |

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\* Dependent on [instrument and version](#).

**CMMISDK\_ScreenDirection (Display direction of screen)**

|               | <b>Value</b> | <b>Explanation</b> |
|---------------|--------------|--------------------|
| SCREENDIR_0   | 0            | Not rotated        |
| SCREENDIR_180 | 1            | Rotated 180°       |

\* Dependent on [instrument and version](#).

**CMMISDK\_DateFormat (Date format)**

|             | <b>Value</b> | <b>Explanation</b> |
|-------------|--------------|--------------------|
| DF_YYYYMMDD | 0            | YYYY/MM/DD         |
| DF_MMDDYYYY | 1            | MM/DD/YYYY         |
| DF_DDMMYYYY | 2            | DD/MM/YYYY         |

**CMMISDK\_Language (Language)**

|                     | <b>Value</b> | <b>Explanation</b>   |
|---------------------|--------------|----------------------|
| LANGUAGE_ENGLISH    | 0            | English              |
| LANGUAGE_JAPANESE   | 1            | Japanese             |
| LANGUAGE_GERMAN     | 2            | German               |
| LANGUAGE_FRENCH     | 3            | French               |
| LANGUAGE_SPANISH    | 4            | Spanish              |
| LANGUAGE_ITALIAN    | 5            | Italian              |
| LANGUAGE_CHINESE_S  | 6            | Chinese (simplified) |
| LANGUAGE_PORTUGUESE | 7            | Portuguese           |
| LANGUAGE_RUSSIAN    | 8            | Russian              |
| LANGUAGE_POLISH     | 9            | Polish               |
| LANGUAGE_TURKISH    | 10           | Turkish              |

**CMMISDK\_JobStepType (Job step type)**

|                        | <b>Value</b> | <b>Explanation</b> |
|------------------------|--------------|--------------------|
| JOB_STEPTYPE_OPERATION | 0            | Operation step     |
| JOB_STEPTYPE_RESULT    | 1            | Result step        |

**CMMISDK\_OnOff (ON/OFF)**

|     | <b>Value</b> | <b>Explanation</b> |
|-----|--------------|--------------------|
| OFF | 0            | OFF (disabled)     |
| ON  | 1            | ON (enabled)       |

**CMMISDK\_ToleranceType (Tolerance type)**

- For the CM-25cG

|               | <b>Value</b> | <b>Explanation</b> |
|---------------|--------------|--------------------|
| TOLETYPE_SPEC | 0            |                    |

- For the CM-26dG/CM-26d/CM-25d/CM-23d

|              | <b>Value</b> | <b>Explanation</b> |
|--------------|--------------|--------------------|
| TOLETYPE_SCI | 0            | SCI                |
| TOLETYPE_SCE | 1            | SCE                |

- For the CM-M6

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|                       | <b>Value</b> | <b>Explanation</b> |
|-----------------------|--------------|--------------------|
| TOLETYPE_L_ANGLE_M15  | 0            | Left -15°          |
| TOLETYPE_L_ANGLE_15   | 1            | Left 15°           |
| TOLETYPE_L_ANGLE_25   | 2            | Left 25°           |
| TOLETYPE_L_ANGLE_45   | 3            | Left 45°           |
| TOLETYPE_L_ANGLE_75   | 4            | Left 75°           |
| TOLETYPE_L_ANGLE_110  | 5            | Left 110°          |
| TOLETYPE_R_ANGLE_M15  | 6            | Right -15°         |
| TOLETYPE_R_ANGLE_15   | 7            | Right 15°          |
| TOLETYPE_R_ANGLE_25   | 8            | Right 25°          |
| TOLETYPE_R_ANGLE_45   | 9            | Right 45°          |
| TOLETYPE_R_ANGLE_75   | 10           | Right 75°          |
| TOLETYPE_R_ANGLE_110  | 11           | Right 110°         |
| TOLETYPE_DP_ANGLE_M15 | 12           | Double path -15°   |
| TOLETYPE_DP_ANGLE_15  | 13           | Double path 15°    |
| TOLETYPE_DP_ANGLE_25  | 14           | Double path 25°    |
| TOLETYPE_DP_ANGLE_45  | 15           | Double path 45°    |
| TOLETYPE_DP_ANGLE_75  | 16           | Double path 75°    |
| TOLETYPE_DP_ANGLE_110 | 17           | Double path 110°   |

**CMMISDK\_ToleranceId (Tolerance ID)**

|                            | <b>Value</b> | <b>Explanation</b>             |
|----------------------------|--------------|--------------------------------|
| TOLERANCE_ID_L             | -1           | $\Delta L^*$                   |
| TOLERANCE_ID_A             | -2           | $\Delta a^*$                   |
| TOLERANCE_ID_B             | -3           | $\Delta b^*$                   |
| TOLERANCE_ID_C             | -4           | $\Delta C^*$                   |
| TOLERANCE_ID_H             | -5           | $\Delta H^*$                   |
| TOLERANCE_ID_HL            | -6           | $\Delta L$ (Hunter)            |
| TOLERANCE_ID_HA            | -7           | $\Delta a$ (Hunter)            |
| TOLERANCE_ID_HB            | -8           | $\Delta b$ (Hunter)            |
| TOLERANCE_ID_X             | -9           | $\Delta X$                     |
| TOLERANCE_ID_Y             | -10          | $\Delta Y$                     |
| TOLERANCE_ID_Z             | -11          | $\Delta Z$                     |
| TOLERANCE_ID_SX            | -12          | $\Delta x$                     |
| TOLERANCE_ID_SY            | -13          | $\Delta y$                     |
| TOLERANCE_ID_WI_E          | -14          | $\Delta WI$ (E313-73)          |
| TOLERANCE_ID_WI_C          | -15          | $\Delta WI$ (CIE)              |
| TOLERANCE_ID_TINT_C        | -16          | $\Delta tint$ (CIE)            |
| TOLERANCE_ID_YI_E          | -17          | $\Delta YI$ (E313)             |
| TOLERANCE_ID_YI_D          | -18          | $\Delta YI$ (D1925)            |
| TOLERANCE_ID_B_ISO         | -19          | $\Delta B$ (ISO)               |
| TOLERANCE_ID_GU            | -20          | $\Delta GU$                    |
| TOLERANCE_ID_MI            | -21          | $\Delta I$                     |
| TOLERANCE_ID_DE            | -22          | $\Delta E^{ab}$                |
| TOLERANCE_ID_CMC           | -23          | CMC                            |
| TOLERANCE_ID_DE94          | -24          | $\Delta E^{94}$                |
| TOLERANCE_ID_DE00          | -25          | $\Delta E00$                   |
| TOLERANCE_ID_DEH           | -26          | $\Delta E$ (Hunter)            |
| TOLERANCE_ID_DEP_DIN6175   | -27          | $\Delta ep$ (DIN6175)          |
| TOLERANCE_ID_DEC_DIN6175   | -28          | $\Delta ec$ (DIN6175)          |
| TOLERANCE_ID_FF            | -29          | $\Delta FF$                    |
| TOLERANCE_ID_DE990         | -30          | $\Delta E990$                  |
| TOLERANCE_ID_DEC_AUDI2000  | -31          | $\Delta ec$ (Audi2000)         |
| TOLERANCE_ID_MDEC_AUDI2000 | -32          | $\Delta ec$ average (Audi2000) |
| TOLERANCE_ID_DECM_AUDI2000 | -33          | $\Delta ec$ maximum (Audi2000) |
| TOLERANCE_ID_DEP_AUDI2000  | -34          | $\Delta ep$ (Audi2000)         |

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|                            |     |                                |
|----------------------------|-----|--------------------------------|
| TOLERANCE_ID_MDEP_AUDI2000 | -35 | $\Delta$ ep average (Audi2000) |
| TOLERANCE_ID_DEPM_AUDI2000 | -36 | $\Delta$ ep maximum (Audi2000) |
| TOLERANCE_ID_DSTRENGTH_XYZ | -37 | $\Delta$ StrengthXYZ           |
| TOLERANCE_ID_DSTRENGTH_X   | -38 | $\Delta$ strengthX             |
| TOLERANCE_ID_DSTRENGTH_Y   | -39 | $\Delta$ strengthY             |
| TOLERANCE_ID_DSTRENGTH_Z   | -40 | $\Delta$ strengthZ             |
| TOLERANCE_ID_DOPACITY      | -41 | Opacity difference             |
| TOLERANCE_ID_DGRAYSCALE    | -42 | Grayscale difference           |
| TOLERANCE_ID_WI_G          | -43 | $\Delta$ WI(Ganz)              |
| TOLERANCE_ID_TINT_G        | -44 | $\Delta$ Tint(Ganz)            |

\* Dependent on [instrument and version](#).

#### CMMISDK\_ParametricId (Parametric coefficient ID)

|                    | <b>Value</b> | <b>Explanation</b> |
|--------------------|--------------|--------------------|
| PARAMETRIC_ID_CMC  | 0            | CMC                |
| PARAMETRIC_ID_DE94 | 1            | $\Delta$ E*94      |
| PARAMETRIC_ID_DE00 | 2            | $\Delta$ E00       |

#### CMMISDK\_DateType (Date/time type)

|                | <b>Value</b> | <b>Explanation</b> |
|----------------|--------------|--------------------|
| DATETYPE_COLOR | 0            | Color              |
| DATETYPEGLOSS  | 1            | Gloss              |

\* Dependent on [instrument and version](#).

#### Size definitions

|                      |        |                                      |
|----------------------|--------|--------------------------------------|
| SIZE_PORTNAME        | 32     | Size of port number name             |
| SIZE_INSTRUMENT_NAME | 32     | Size of instrument name              |
| SIZE_DATA            | 39     | Amount of data                       |
| SIZE_USERCAL_ID      | 16     | Size of user ID                      |
| SIZE_GG              | 5      | Ganz & Griesser size                 |
| SIZE_GG_PARAM        | 7      | Ganz & Griesser parameter size       |
| SIZE_USER_ILLUMINANT | 85     | User illuminant data                 |
| SIZE_USER_ILL_NAME   | 16     | User illuminant name                 |
| SIZE_USER_EQUATION   | 200    | Size of user index syntax            |
| SIZE_TARGET          | 2500   | Amount of target data                |
| SIZE_TOLERANCE       | 14     | Size of tolerance list               |
| SIZE_DATE            | 6      | Size of date/time                    |
| SIZE_GROUP           | 5      | Size of group list                   |
| SIZE_GROUP_ALL       | 50     | Total size of groups                 |
| SIZE_DATANAME        | 64     | Size of data name                    |
| SIZE_PARAMETRIC_COEF | 3      | Size of parametric coefficient       |
| SIZE_GROUP_NAME      | 32     | Size of group name                   |
| SIZE_ADMIN_PASS      | 8      | Size of administrator password       |
| SIZE_JOB_NAME        | 32     | Size of job name                     |
| SIZE_JOB_COMMENT     | 128    | Size of job comment                  |
| SIZE_JOB_INDEX       | 7      | Size of job custom item              |
| SIZE_JOBIMAGE_NAME   | 32     | Size of job image name               |
| SIZE_IMAGEDATA       | 153600 | Image size (assuming 320 x 480 max.) |
| SIZE_IMAGE_FINDER    | 307200 | Image size (assuming 640 x 480 max.) |

## 6. Errors/Warnings

### 6.1 List of errors

| Error ID             | Value |             |   |
|----------------------|-------|-------------|---|
| KmSuccess            | 0     | Description | The processing was completed normally.  |
|                      |       | Action      |   |
| KmWarning            | 1     | Description | The processing was completed normally (there was a warning).  |
|                      |       | Action      | Use <a href="#">CMMISDK_GetWarning</a> to check the error status and then take action.  |
| KmErNoConnect        | 10    | Description | No instrument is connected to the specified virtual COM port.   |
|                      |       | Action      | Check the following:<br>• Is the instrument powered on?<br>• Is the cable correctly connected?<br>• Is the COM port number correct?<br>• No other software is controlling the instrument? |
| KmErInvalidParameter | 25    | Description | The specified parameter is incorrect.   |
|                      |       | Action      | • Check the input range and enter an appropriate value.   |
| KmErCannotCommand    | 30    | Description | The current instrument does not support the specified function.   |
|                      |       | Action      |   |
| KmErNoData           | 45    | Description | No data   |
|                      |       | Action      | • The necessary data must be registered beforehand.   |
| KmErDataProtected    | 46    | Description | The data is protected.  |
|                      |       | Action      | • Cancel data protection before performing the operation.   |
| KmErOutOfRangeValue  | 50    | Description | The value is outside the range that can be measured by the instrument.  |
|                      |       | Action      | The sample cannot be measured.  |
| KmErConnectFailed    | 100   | Description | Failed to connect to the instrument.<br>Or, connection is not established using Connect.  |
|                      |       | Action      | • Perform operation after establishing the connection using Connect.  |
| KmErDevice           | 110   | Description | A device in the instrument has malfunctioned.   |
|                      |       | Action      | * If this problem persists even after the instrument is restarted, contact Customer Service.  |
| KmErAd               | 111   | Description | The A/D converter in the instrument has malfunctioned.  |
|                      |       | Action      | * If this problem persists even after the instrument is restarted, contact Customer Service.  |
| KmErCharge           | 112   | Description | Charging of the light emission circuit in the instrument has malfunctioned.   |
|                      |       | Action      | * If this problem persists even after the instrument is restarted, contact Customer Service.  |
| KmErFlash            | 113   | Description | The light emission circuit in the instrument has malfunctioned.   |
|                      |       | Action      | * If this problem persists even after the instrument is restarted, contact Customer Service.  |

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|                         |     |             |   |
|-------------------------|-----|-------------|---|
| KmErFinder              | 114 | Description | Operation is not possible because the finder is open.   |
|                         |     | Action      | <ul style="list-style-type: none"> <li>• Close the finder before performing the operation.</li> </ul> <p>* If this error occurs even when the finder is closed, contact Customer Service.</p>   |
| KmErCalculation         | 115 | Description | The calculation cannot be performed because the required information is lacking.  |
|                         |     | Action      | <ul style="list-style-type: none"> <li>* If this problem persists even after the instrument is restarted, contact Customer Service.</li> </ul>  |
| KmErCamera              | 116 | Description | The camera for obtaining the finder image is not in operation.  |
|                         |     | Action      | Enable operation with CMMISDK_SetFinderEnable.  |
| KmErMeasuring           | 117 | Description | The camera cannot be used because instrument is measuring.  |
|                         |     | Action      | Wait until measurement is completed.  |
| KmErMotorDriving        | 118 | Description | This API cannot be used because the motor is being driven.  |
|                         |     | Action      | Wait until the motor drive is completed.  |
| KmErCalibration         | 120 | Description | Calibration was not executed in the correct procedure.  |
|                         |     | Action      | <ul style="list-style-type: none"> <li>• Is the zero calibration box used for zero calibration?</li> <li>• Is the white calibration plate used for white calibration?</li> <li>• Is the gloss calibration plate used for gloss calibration?</li> <li>• Does the target mask agree with the measurement area?</li> </ul> |
| KmErCalibrationRequired | 130 | Description | Necessary calibration was not executed beforehand.  |
|                         |     | Action      | <ul style="list-style-type: none"> <li>• Zero calibration must be completed before performing white calibration.</li> <li>• White calibration must be completed before performing gloss calibration.</li> <li>• Gloss calibration must be completed before performing measurements.</li> </ul>                          |
| KmErNoCalibrationData   | 131 | Description | Calibration data is not set.  |
|                         |     | Action      | <ul style="list-style-type: none"> <li>• Set calibration data.</li> </ul>   |
| KmErTiltDetection       | 140 | Description | The instrument is tilted.   |
|                         |     | Action      | <ul style="list-style-type: none"> <li>• Install the instrument correctly for the sample.</li> </ul>  |
| KmErNotUse              | 170 | Description | This API cannot be used due to its combination with another setting.  |
|                         |     | Action      | <ul style="list-style-type: none"> <li>• Change the other setting to solve this problem.</li> <li>• For the CM-36dG, when the UV condition is <u>UV adjustment</u>, the coefficient may not be set.</li> </ul>  |
| KmErDisagreeCond        | 171 | Description | This cannot be set because the conditions do not agree.   |
|                         |     | Action      | <ul style="list-style-type: none"> <li>• Data of the same mode must be associated. For example, opacity data cannot be associated with color+gloss data.</li> </ul>   |
| KmErUvAdjust            | 172 | Description | The measurement sample does not contain fluorescence.   |
|                         |     | Action      | Be sure to measure an appropriate sample.   |

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|                    |     |             |  |
|--------------------|-----|-------------|--|
| KmErBattery        | 180 | Description | Low battery voltage.   |
|                    |     | Action      | <ul style="list-style-type: none"> <li>Charge the battery or connect the instrument to a power supply.</li> <li>* If this problem persists even after charging, contact Customer Service.</li> </ul>                                 |
| KmErMemory         | 181 | Description | Reading or writing the memory in the instrument has failed.  |
|                    |     | Action      | <ul style="list-style-type: none"> <li>* If this problem persists even after the instrument is restarted, contact Customer Service.</li> </ul>   |
| KmErMotor          | 182 | Description | The motor in the instrument has malfunctioned.   |
|                    |     | Action      | <ul style="list-style-type: none"> <li>* If this problem persists even after the instrument is restarted, contact Customer Service.</li> </ul>   |
| KmErNotSupported   | 190 | Description | The instrument supports the function, but the function cannot be used.   |
|                    |     | Action      | <ul style="list-style-type: none"> <li>The format being used is not supported. Use another format of the function.</li> <li>The SDK version is old and the data cannot be used. Upgrade the SDK to a more recent version.</li> </ul> |
| KmErCalculateColor | 195 | Description | A color value cannot be calculated from reflectance.   |
|                    |     | Action      | Color cannot be calculated from the reflectance. Make sure the material being measured is appropriate for measurement.   |
| KmErCalculateCoef  | 196 | Description | The fluorescence coefficient cannot be calculated.   |
|                    |     | Action      | Check the tolerance.   |
| KmEr               | 200 | Description | An unexpected error has occurred.  |
|                    |     | Action      | Check again after restarting the instrument.   |

## 6.2 List of warnings

| Warning ID               | Value  |   |
|--------------------------|--------|---|
| KmWrBattery              | 0x0001 | Low battery voltage.  |
| KmWrCalibration          | 0x0002 | Recalibration recommended. It has been a long time since calibration. |
| KmWrPreAnnualCalibration | 0x0004 | Periodical calibration required soon.                                 |
| KmWrAnnualCalibration    | 0x0008 | Periodical calibration required. Perform periodical calibration.      |
| KmWrLampForColor         | 0x0010 | Low light intensity in illuminant for color measurements.             |
| KmWrOutOfColorRange      | 0x0020 | Reflectance outside range of guaranteed performance.                  |
| KmWrOutOfGlossRange      | 0x0040 | Gloss outside range of guaranteed performance.                        |
| KmWrLampForGloss         | 0x0080 | Low light intensity in illuminant for gloss                           |

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|                                       |        |   |
|---------------------------------------|--------|---|
|                                       |        | measurements.   |
| KmWrPreWavelengthCorrection           | 0x0100 | The deadline for wavelength correction is approaching.  |
| KmWrWavelengthCorrection              | 0x0200 | The wavelength correction deadline has passed.  |
| KmWrLampForDiagnosis                  | 0x0400 | Low light intensity in illuminatin for wavelength correction.   |
| KmWrInsufficientLampForDiagnosis      | 0x0800 | Lack of light intensity in illuminatin for wavelength correction.<br><br>* If this problem persists even after the instrument is restarted, contact Customer Service.   |
| KmWrOutOfTemperatureRangeForDiagnosis | 0x1000 | Temperture outside range of guranteed wavelength correction performance. The correction accuracy has decreased.   |
| KmWrOutOfCorrectionRangeForDiagnosis  | 0x2000 | Correction amount outside range of guranteed wavelength correction perfomance. The correction accuracy has decreased.<br><br>* If this problem persists even after the instrument is restarted, contact Customer Service. |

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**Appendix A. Available character codes**

The character codes that can be used for names and comments are listed below.

|          | <b>00</b> | <b>10</b> | <b>20</b> | <b>30</b> | <b>40</b> | <b>50</b> | <b>60</b> | <b>70</b> |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0</b> |           |           | (sp)      | 0         | @         | P         | `         | p         |
| <b>1</b> |           |           | !         | 1         | A         | Q         | a         | q         |
| <b>2</b> |           |           | "         | 2         | B         | R         | b         | r         |
| <b>3</b> |           |           | #         | 3         | C         | S         | c         | s         |
| <b>4</b> |           |           | \$        | 4         | D         | T         | d         | t         |
| <b>5</b> |           |           | %         | 5         | E         | U         | e         | u         |
| <b>6</b> |           |           | &         | 6         | F         | V         | f         | v         |
| <b>7</b> |           |           | '         | 7         | G         | W         | g         | w         |
| <b>8</b> |           |           | (         | 8         | H         | X         | h         | x         |
| <b>9</b> |           |           | )         | 9         | I         | Y         | i         | y         |
| <b>A</b> |           |           | *         | :         | J         | Z         | j         | z         |
| <b>B</b> |           |           | +         | ;         | K         | [         | k         | {         |
| <b>C</b> |           |           |           | <         | L         | ¥         | l         |           |
| <b>D</b> |           |           | -         | =         | M         | ]         | m         | }         |
| <b>E</b> |           |           | .         | >         | N         | ^         | n         | ~         |
| <b>F</b> |           |           | /         | ?         | O         | _         | o         |           |

## **Appendix B. Installing the device driver**

The device driver for the instrument must be installed in advance to connect the instrument to the PC via USB.

First connect the instrument to the PC, and then turn on the power supply to the instrument.

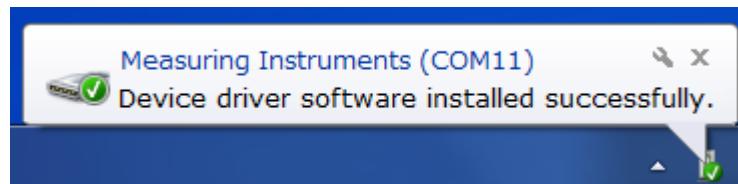
The driver installation will begin automatically. For Windows 7, the "Installing device driver software" popup will be displayed on the taskbar at the bottom right of the screen.



The device driver that is installed may not function correctly due to Windows 10. For this reason, manually install the "KMMIUSB.INF" device driver according to the following installation procedure.

### **Automatic installation**

The installation is finished if the automatic installation was successful.



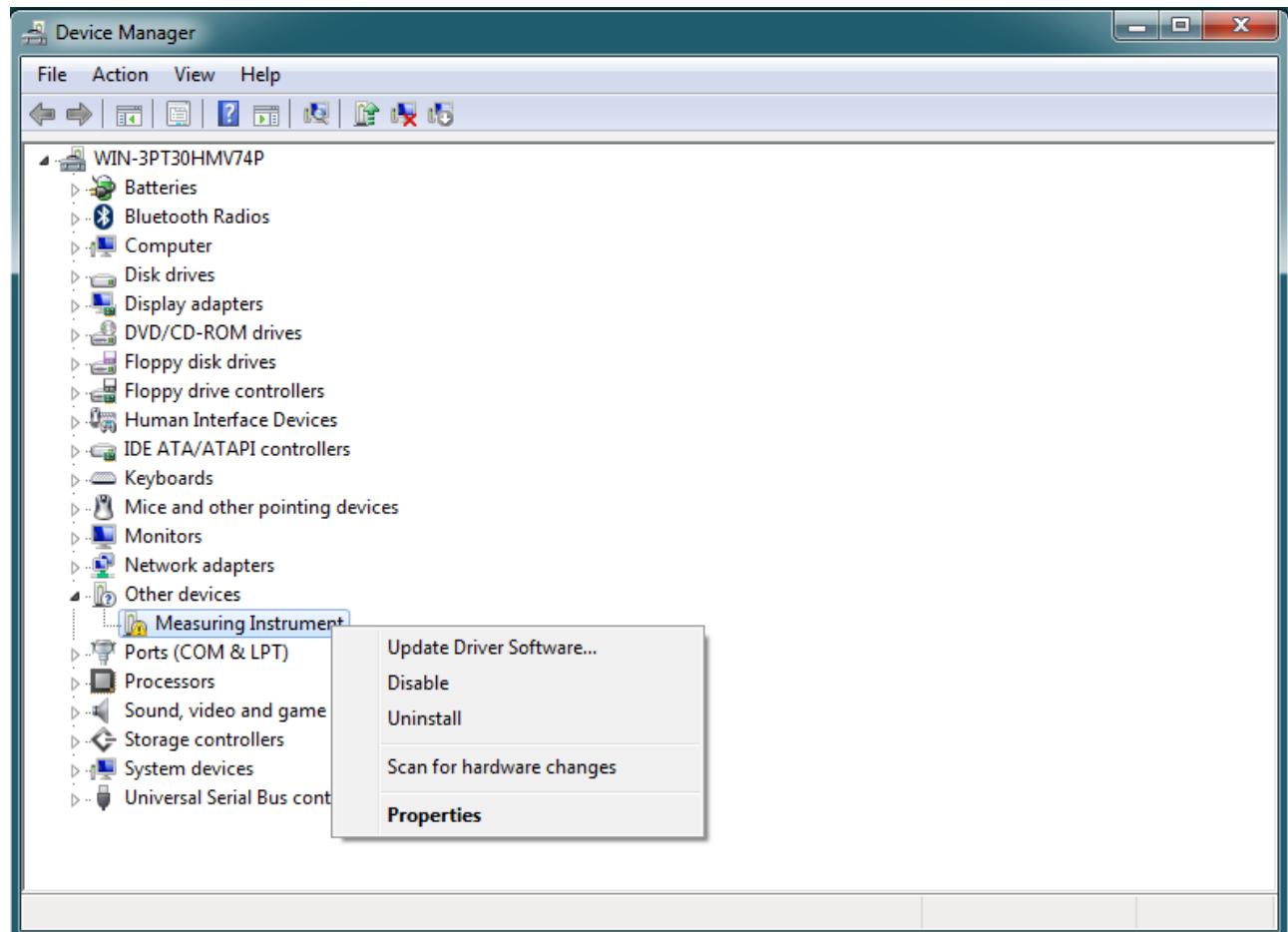
### **Manual installation**

If the automatic installation has failed, use the following procedure to perform manual installation.



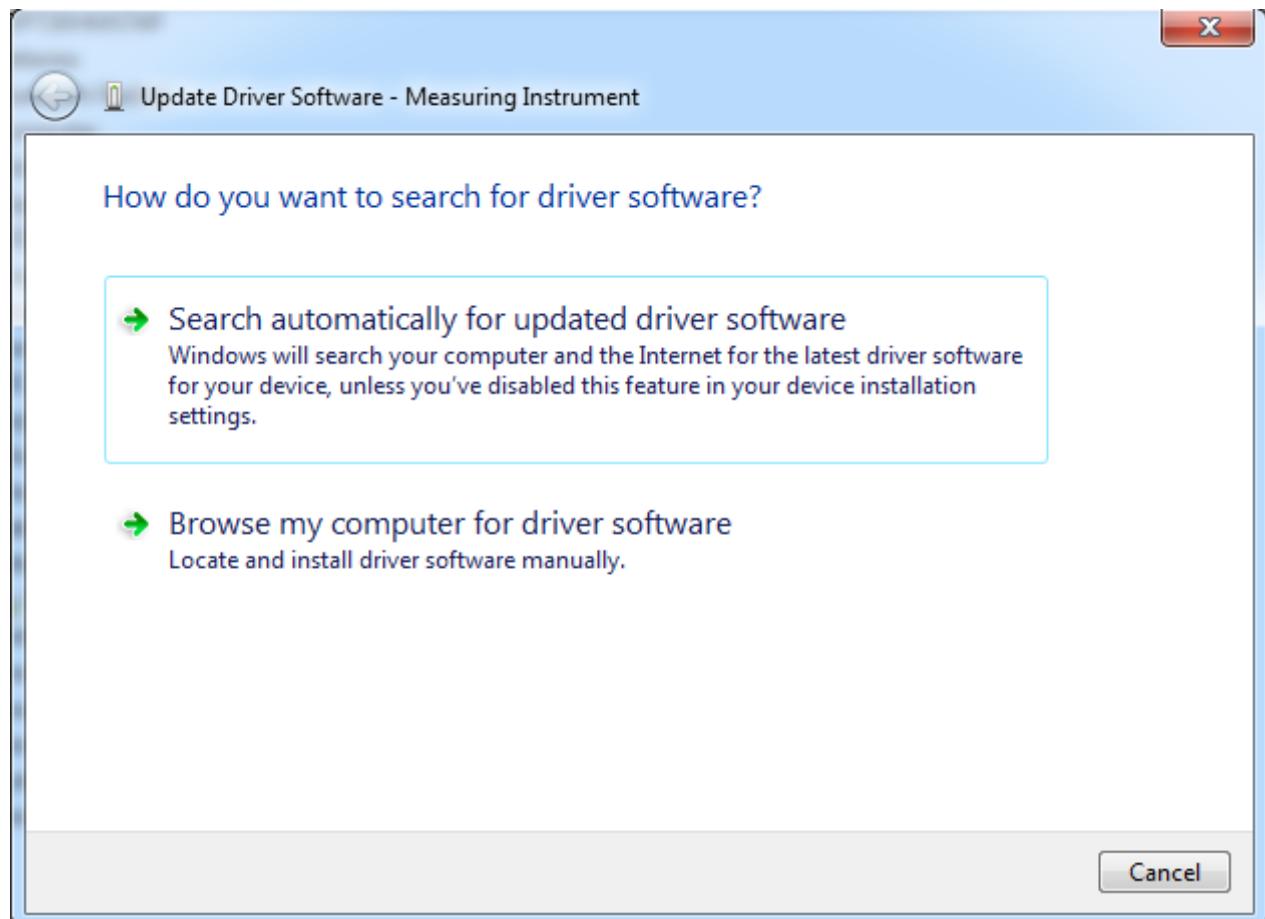
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Open Device Manager, right-click [Other devices]-[Measuring Instruments], and then click [Update Driver Software]. As shown in the following screenshot, the warning symbol will be added to [Measuring Instruments] if the driver installation has failed.



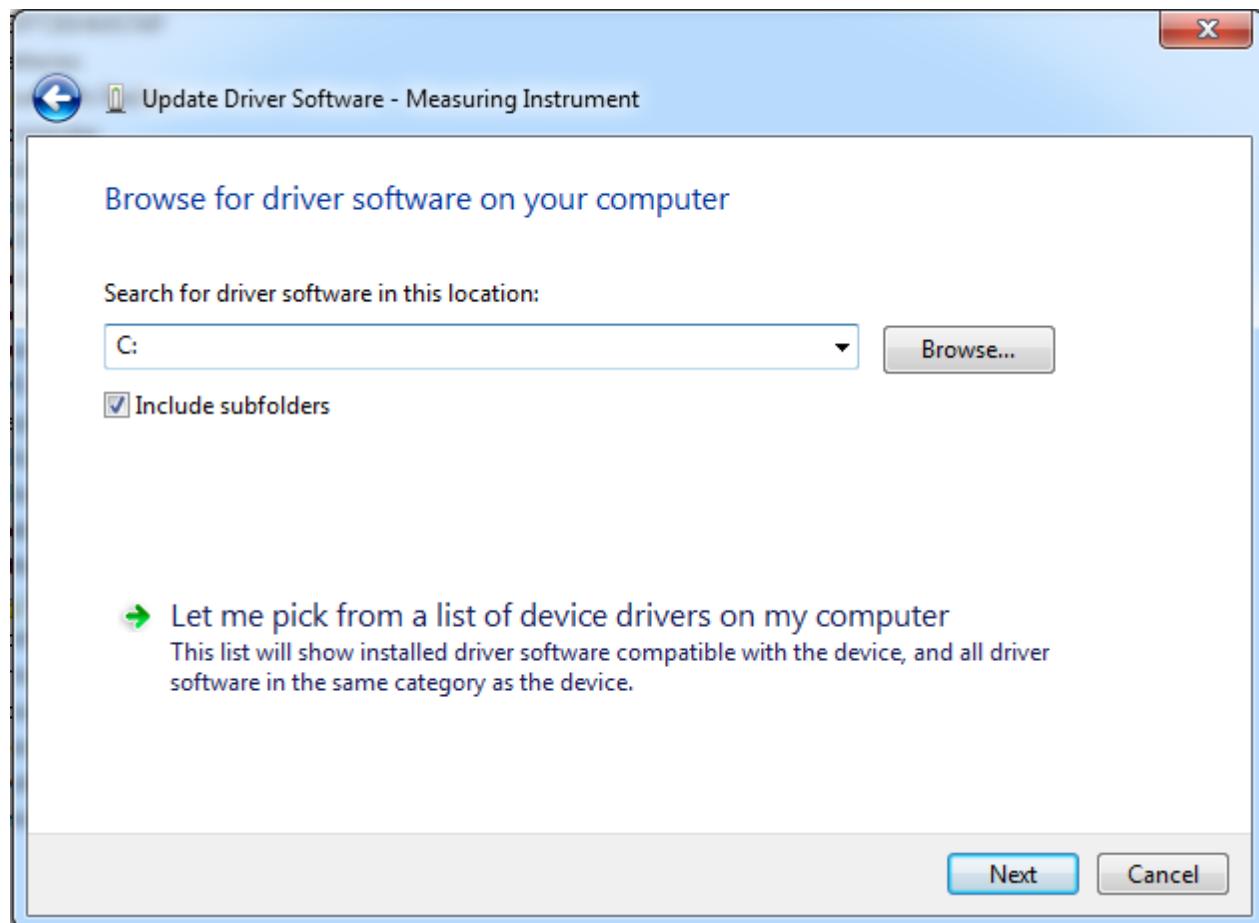
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Click [Browse my computer for driver software].

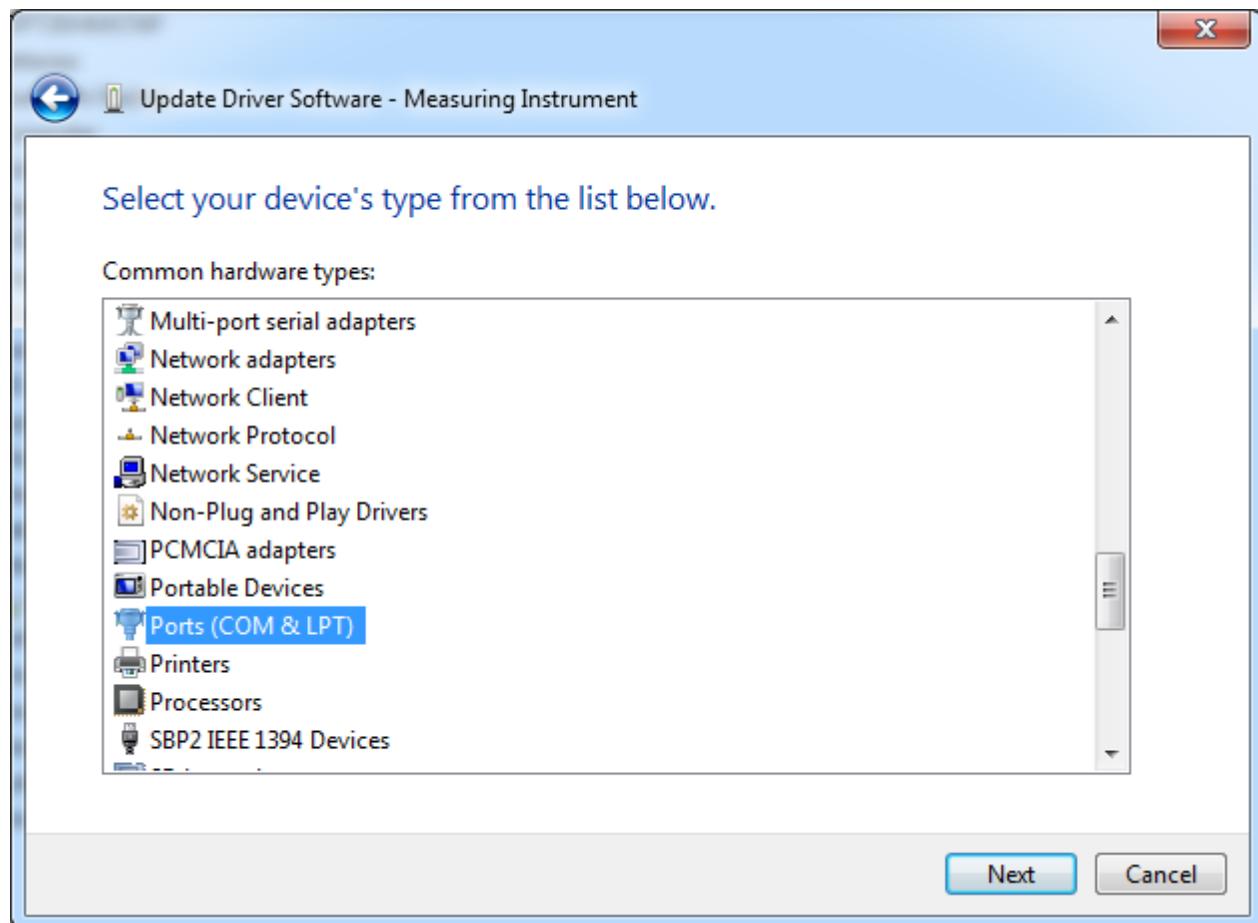


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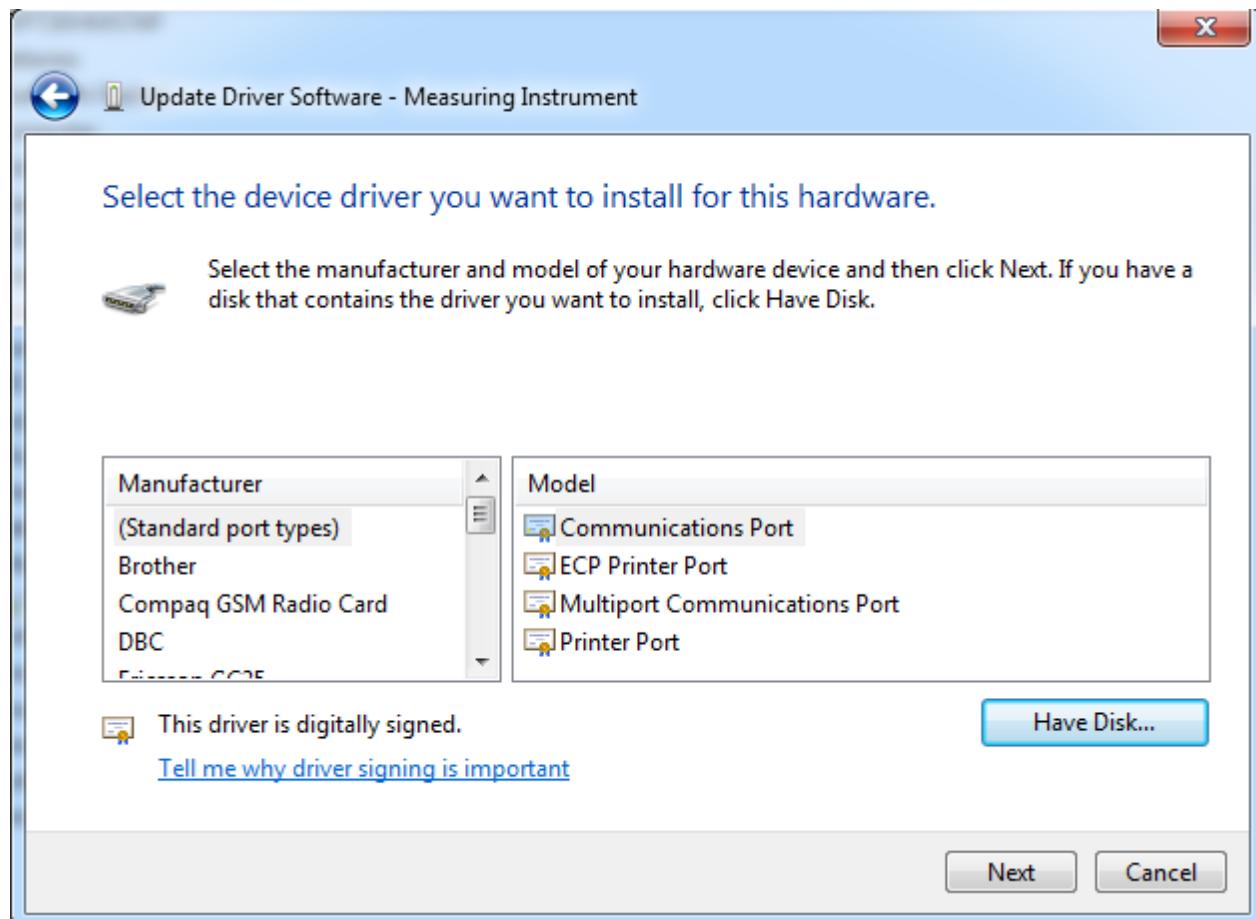
Click [Let me pick from a list of device drivers on my computer].



From the list of common hardware types, click [Ports (COM & LPT)], and then click [Next].

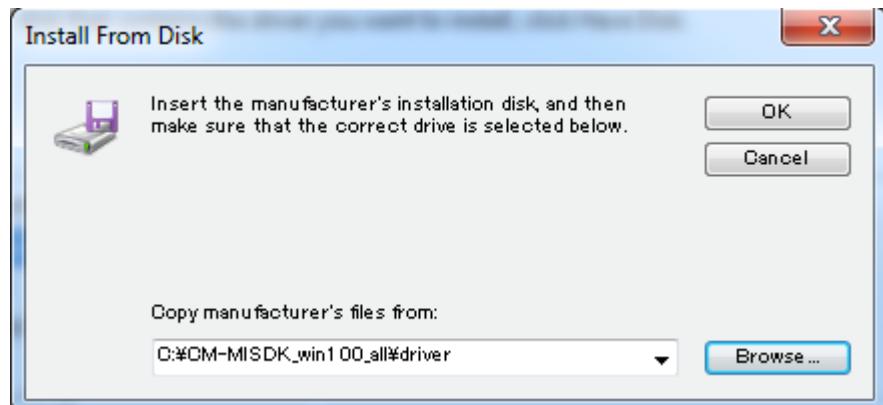


Click [Have Disk].

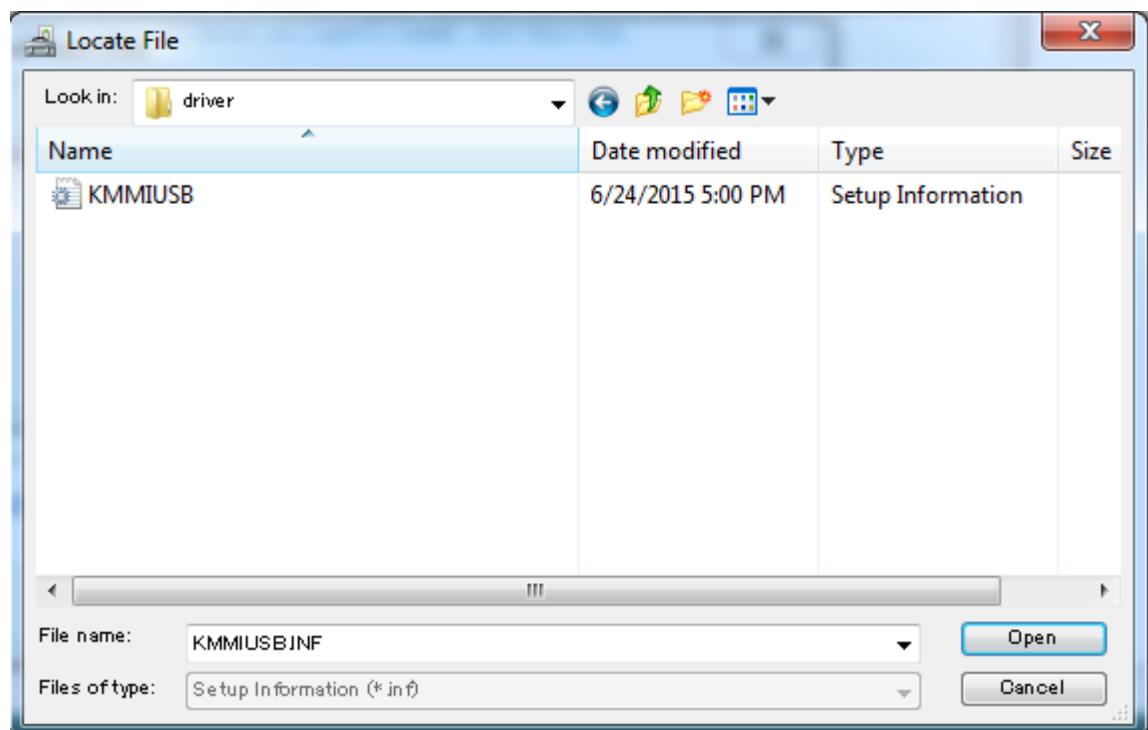


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Click [Browse].

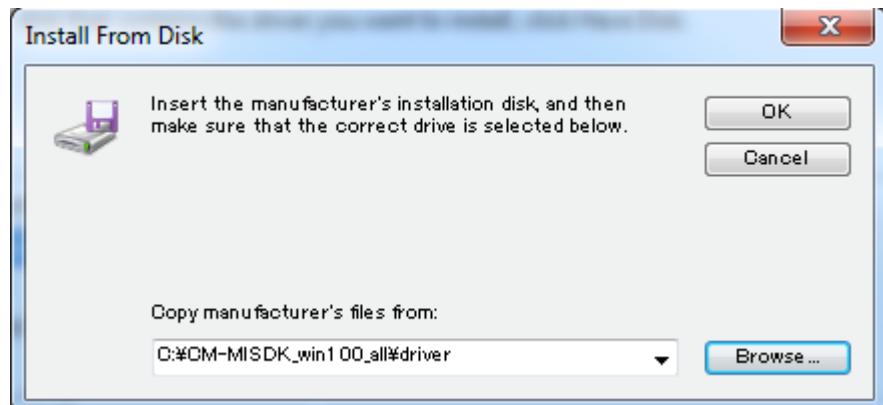


Select the "KMMIUSB.INF" file in "cm-misdk\_verXXXrX\driver/", and then click [Open].

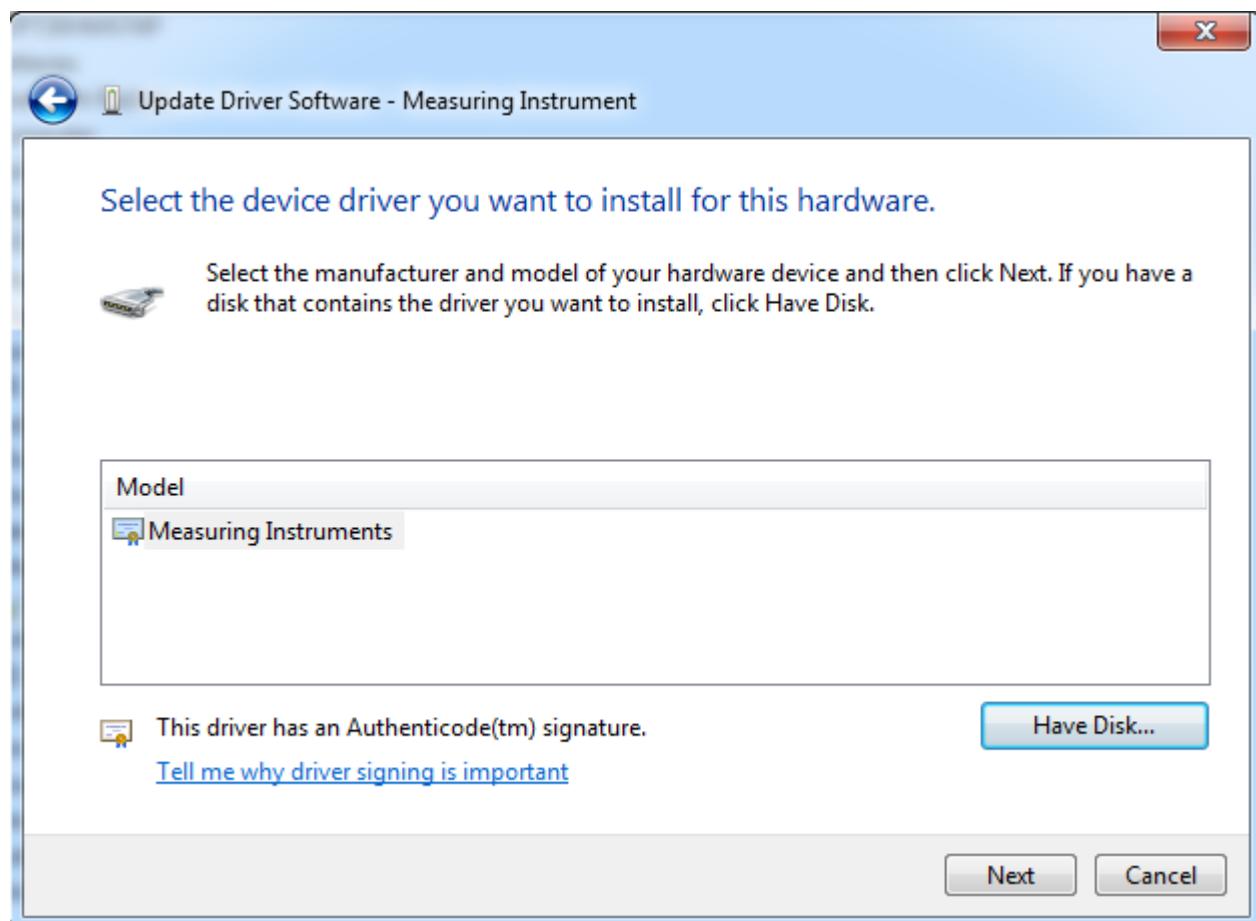


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Click [OK].

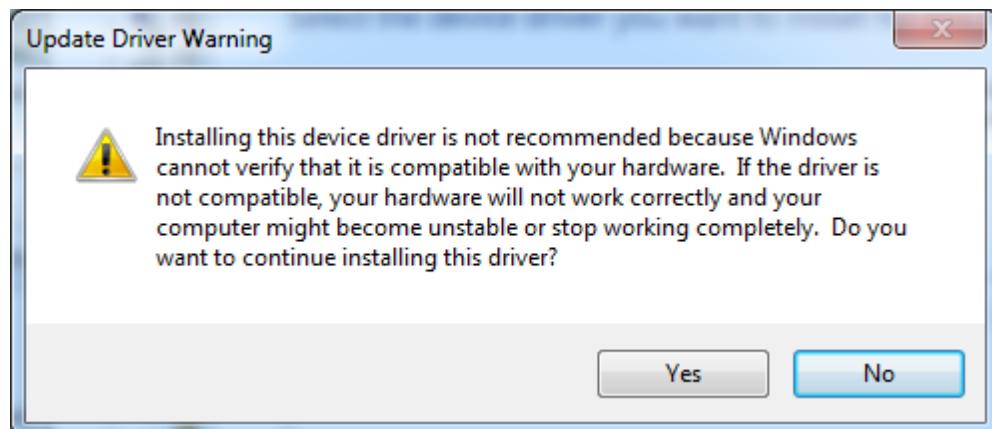


Click [Next].

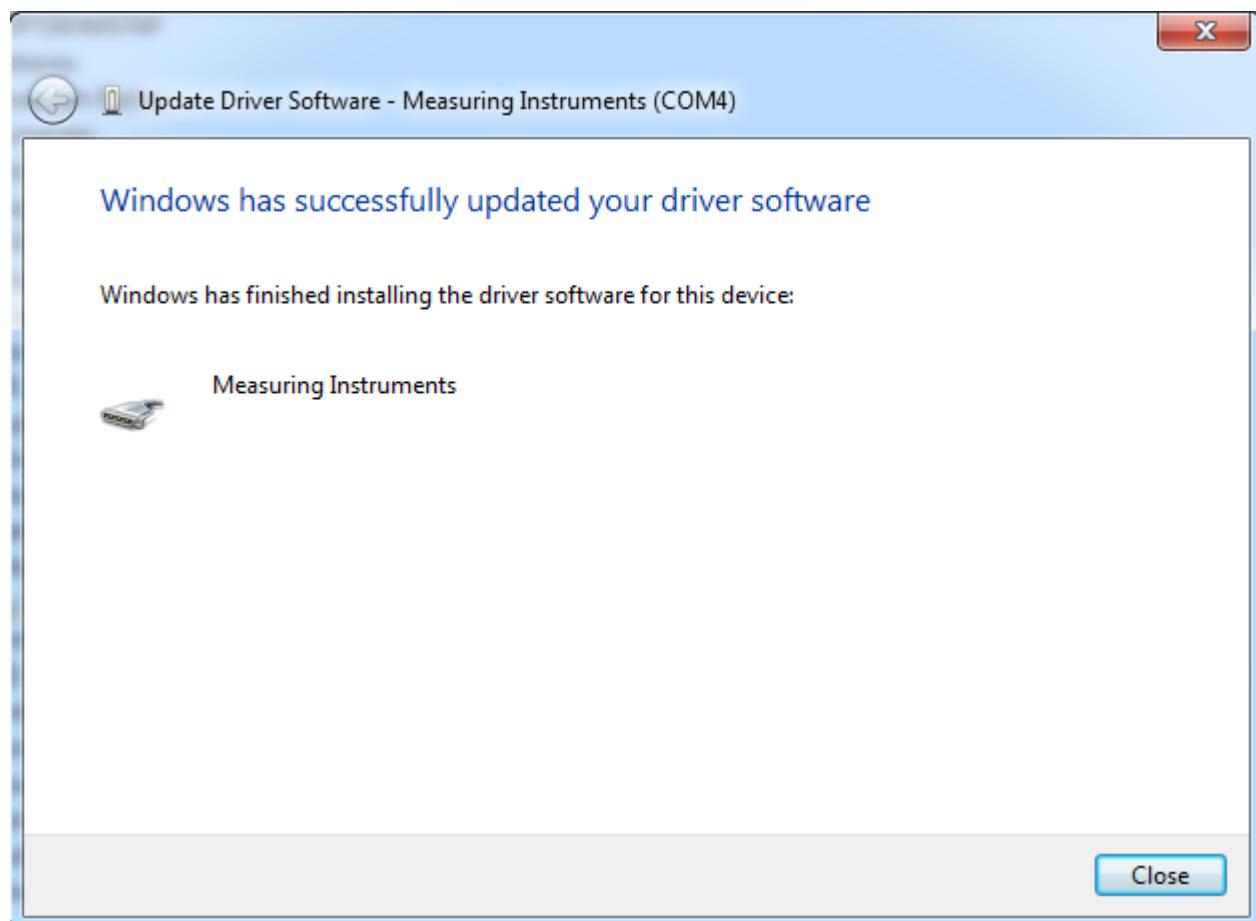


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Click [Yes].

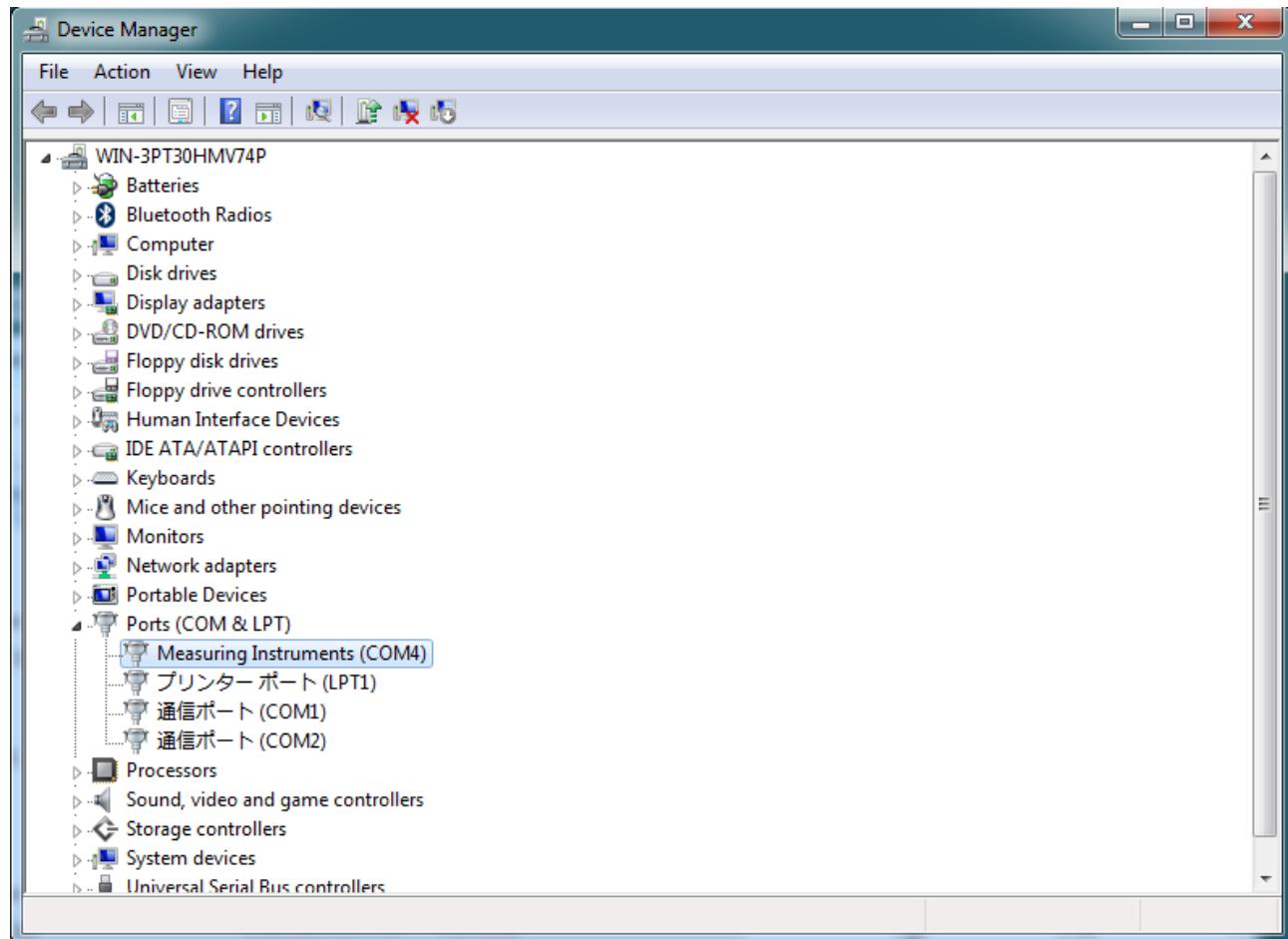


Click [Close] when you have confirmed that the installation has finished.



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The warning symbol on [Measuring Instruments] should no longer be displayed. Next, confirm that the COM number is displayed, and then close the window by clicking x at the top right.  
(COM11 is shown in the following screenshot, but the actual COM number will depend on the PC.)



This concludes installation of the driver.

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## Appendix C. List of parameters settable by instrument and version

Parameters that can be set on the instrument will depend on the instrument itself and its version. Refer to the following lists.

### Warning status

|                                       | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| KmWrBattery                           | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     | x     | x     |
| KmWrCalibration                       | V1.0~ |
| KmWrPreAnnualCalibrator               | V1.0~ |
| KmWrAnnualCalibrator                  | V1.0~ |
| KmWrLampForColor                      | V1.0~ |
| KmWrOutOfColorRange                   | V1.0~ |
| KmWrOutOfGlossRange                   | V1.0~ | V1.0~ | x     | x     | x     | x     | V1.0~ | x     | x     |
| KmWrLampForGloss                      | V1.0~ | V1.0~ | x     | x     | x     | x     | V1.0~ | x     | x     |
| KmWrPreWavelengthCorrection           | x     | x     | x     | x     | x     | x     | V1.0~ | V1.0~ | x     |
| KmWrWavelengthCorrection              | x     | x     | x     | x     | x     | x     | V1.0~ | V1.0~ | x     |
| KmWrLampForDiagnosis                  | x     | x     | x     | x     | x     | x     | V1.0~ | V1.0~ | x     |
| KmWrInsufficientLampForDiagnosis      | x     | x     | x     | x     | x     | x     | V1.0~ | V1.0~ | x     |
| KmWrOutOfTemperatureRangeForDiagnosis | x     | x     | x     | x     | x     | x     | V1.0~ | V1.0~ | x     |
| KmWrOutOfCorrectionRangeForDiagnosis  | x     | x     | x     | x     | x     | x     | V1.0~ | V1.0~ | x     |

### Calibration status

|                  | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| StatusZero       | V1.0~ |
| StatusWhite      | V1.0~ |
| StatusGloss      | V1.0~ | V1.0~ | x     | x     | x     | x     | V1.0~ | x     | x     |
| StatusMeasure    | V1.0~ |
| StatusMeasureWrn | V1.0~ |
| StatusUser       | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     | V1.0~ | V1.0~ | V1.0~ |

### Fluorescence adjustment conditions

|                  | 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d | 3630A |
|------------------|------|-------|-------|-----|-----|----|-------|-----|-------|
| UVADJ_PROFILE    |      | V1.1~ | V1.1~ |     |     |    | V1.1~ |     | V1.1~ |
| UVADJ_WI         |      | V1.1~ | V1.1~ |     |     |    | V1.1~ |     | V1.1~ |
| UVADJ_TINT       |      | x     | x     |     |     |    | V1.1~ |     | V1.1~ |
| UVADJ_WITINT     |      | V1.1~ | V1.1~ |     |     |    | V1.1~ |     | V1.1~ |
| UVADJ_BRIGHTNESS |      | V1.1~ | V1.1~ |     |     |    | V1.1~ |     | V1.1~ |
| UVADJ_GG         |      | V1.1~ | V1.1~ |     |     |    | V1.1~ |     | V1.1~ |

### Fluorescence coefficient data type

|                     | 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d   | 3630A |
|---------------------|------|-------|-------|-----|-----|----|-------|-------|-------|
| UVADJ_DATATYPE_SCI  |      | V1.1~ | V1.1~ |     |     |    | V1.0~ | x     |       |
| UVADJ_DATATYPE_SCE  |      | V1.1~ | V1.1~ |     |     |    | V1.0~ | x     |       |
| UVADJ_DATATYPE_NONE |      | x     | x     |     |     |    | x     | V1.0~ |       |

### Measurement type

|              | 25cG | 26dG | 26d | 25d | 23d | M6 | 36dG  | 36d | 3630A |
|--------------|------|------|-----|-----|-----|----|-------|-----|-------|
| MEASTYPE_REF |      |      |     |     |     |    | V1.0~ |     |       |
| MEASTYPE_TRA |      |      |     |     |     |    | V1.0~ |     |       |

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**Measurement area**

|           | 25cG  | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d   | 3630A |
|-----------|-------|-------|-------|-----|-----|----|-------|-------|-------|
| AREA_MAV  | V1.0~ | V1.0~ | V1.0~ |     |     |    | V1.0~ | V1.0~ | V1.0~ |
| AREA_SAV  | V1.0~ | V1.0~ | V1.0~ |     |     |    | V1.0~ | V1.0~ | x     |
| AREA_LAV  | x     | x     | x     |     |     |    | V1.0~ | V1.0~ | V1.0~ |
| AREA_LMAV | x     | x     | x     |     |     |    | V1.0~ | x     | x     |
| AREA_AUTO | x     | x     | x     |     |     |    | V1.0~ | V1.0~ | x     |

**Measurement angle**

|                | 25cG | 26dG | 26d | 25d | 23d | M6    | 36dG | 36d | 3630A |
|----------------|------|------|-----|-----|-----|-------|------|-----|-------|
| MEAS_ANGLE_M15 |      |      |     |     |     | V1.0~ |      |     |       |
| MEAS_ANGLE_15  |      |      |     |     |     | V1.0~ |      |     |       |
| MEAS_ANGLE_25  |      |      |     |     |     | V1.0~ |      |     |       |
| MEAS_ANGLE_45  |      |      |     |     |     | V1.0~ |      |     |       |
| MEAS_ANGLE_75  |      |      |     |     |     | V1.0~ |      |     |       |
| MEAS_ANGLE_110 |      |      |     |     |     | V1.0~ |      |     |       |

**Tilt detection**

|     | 25cG | 26dG | 26d | 25d | 23d | M6    | 36dG | 36d | 3630A |
|-----|------|------|-----|-----|-----|-------|------|-----|-------|
| OFF |      |      |     |     |     | V1.0~ |      |     |       |
| ON  |      |      |     |     |     | V1.0~ |      |     |       |

**Measurement mode**

|                        | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d   | 3630A |
|------------------------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| MEASMODE_COLORANDGLOSS |       | V1.0~ | V1.0~ | V1.0~ | x     | x     |      | V1.0~ |       |
| MEASMODE_COLORONLY     | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |       |      | V1.0~ |       |
| MEASMODE_GLOSSONLY     | V1.0~ | V1.0~ | V1.0~ | x     | x     |       |      | x     |       |
| MEASMODE_OPACITY       | x     | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |      | x     |       |

**Specular component**

|         | 25cG | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG  | 36d   | 3630A |
|---------|------|-------|-------|-------|-------|----|-------|-------|-------|
| SC_SCI  |      | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    | V1.0~ | V1.0~ |       |
| SC_SCE  |      | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    | V1.0~ | V1.0~ |       |
| SC_SCIE |      | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    | V1.0~ | V1.0~ |       |

**UV condition**

|               | 25cG | 26dG     | 26d      | 25d | 23d | M6 | 36dG  | 36d   | 3630A |
|---------------|------|----------|----------|-----|-----|----|-------|-------|-------|
| UV_100        |      | V1.0~    | V1.0~    |     |     |    | V1.0~ | V1.0~ | V1.0~ |
| UV_CUT400     |      | V1.0~    | V1.0~    |     |     |    | x     | x     | x     |
| UV_CUT400N    |      | V1.1~(*) | V1.1~(*) |     |     |    | x     | x     | x     |
| UV_100_CUT400 | x    | x        |          |     |     |    | V1.0~ | V1.0~ | V1.0~ |
| UV_100_CUT420 |      | x        | x        |     |     |    | V1.0~ | V1.0~ | V1.0~ |
| UV_CUT400LOW  |      | x        | x        |     |     |    | V1.0~ | V1.0~ | V1.0~ |

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|                | 25cG | 26dG  | 26d   | 25d | 23d | M6 | 36dG  | 36d   | 3630A |
|----------------|------|-------|-------|-----|-----|----|-------|-------|-------|
| UV_CUT420LOW   |      | x     | x     |     |     |    | V1.0~ | V1.0~ | V1.0~ |
| UV_100_CUT400N |      | V1.1~ | V1.1~ |     |     |    | V1.0~ | V1.0~ | V1.0~ |
| UV_100_CUT400L |      | x     | x     |     |     |    | V1.0~ | V1.0~ | V1.0~ |
| UV_100_CUT420N |      | x     | x     |     |     |    | V1.0~ | V1.0~ | V1.0~ |
| UV_100_CUT420L |      | x     | x     |     |     |    | V1.0~ | V1.0~ | V1.0~ |

(\*): \* Used for data properties and jobs.

### Auto average count

|         | 25cG | 26dG | 26d | 25d | 23d | M6 | 36dG | 36d | 3630A |
|---------|------|------|-----|-----|-----|----|------|-----|-------|
| Minimum | 1    | 1    | 1   | 1   | 1   | 1  | 1    | 1   | 1     |
| Maximum | 10   | 10   | 10  | 10  | 10  | 10 | 10   | 10  | 10    |

### Manual average count

|         | 25cG | 26dG | 26d | 25d | 23d | M6 | 36dG | 36d | 3630A |
|---------|------|------|-----|-----|-----|----|------|-----|-------|
| Minimum | 1    | 1    | 1   | 1   | 1   | 1  |      |     |       |
| Maximum | 30   | 30   | 30  | 30  | 30  | 10 |      |     |       |

### Manual averaging save mode

|                 | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG | 36d | 3630A |
|-----------------|-------|-------|-------|-------|-------|-------|------|-----|-------|
| SAVEMODE_AUTO   | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |      |     |       |
| SAVEMODE_MANUAL | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |      |     |       |

### SMC setting

|     | 25cG | 26dG  | 26d   | 25d   | 23d | M6 | 36dG | 36d | 3630A |
|-----|------|-------|-------|-------|-----|----|------|-----|-------|
| OFF |      | V1.0~ | V1.0~ | V1.0~ |     |    |      |     |       |
| ON  |      | V1.0~ | V1.0~ | V1.0~ |     |    |      |     |       |

### SMC number of times

|         | 25cG | 26dG | 26d | 25d | 23d | M6 | 36dG | 36d | 3630A |
|---------|------|------|-----|-----|-----|----|------|-----|-------|
| Minimum |      | 3    | 3   | 3   |     |    |      |     |       |
| Maximum |      | 10   | 10  | 10  |     |    |      |     |       |

### Display type

|                     | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    |
|---------------------|-------|-------|-------|-------|-------|-------|
| DISPTYPE_ABS        | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| DISPTYPE_DIF        | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| DISPTYPE_ABSDIF     | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |
| DISPTYPE_CUSTOM     | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |
| DISPTYPE_GRAPH_ABS  | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| DISPTYPE_GRAPH_DIF  | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| DISPTYPE_GRAPH_REF  | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |
| DISPTYPE_PASS_FAIL  | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| DISPTYPE_MI         | x     | x     | x     | x     | x     | V1.0~ |
| DISPTYPE_GRAPH_LINE | x     | x     | x     | x     | x     | V1.0~ |

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|                      | 25cG | 26dG | 26d | 25d | 23d | M6    |
|----------------------|------|------|-----|-----|-----|-------|
| DISPTYPE_AUDI2000_EC | x    | x    | x   | x   | x   | V1.1~ |
| DISPTYPE_AUDI2000_EP | x    | x    | x   | x   | x   | V1.1~ |

### Observer

|        | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    |
|--------|-------|-------|-------|-------|-------|-------|
| OBS_02 | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| OBS_10 | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |

### Illuminant

|           | 25cG      | 26dG      | 26d       | 25d       | 23d       | M6        |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ILL_NONE  | V1.0~ (*) |
| ILL_A     | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     |
| ILL_C     | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     |
| ILL_D50   | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     |
| ILL_D65   | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     |
| ILL_ID50  | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     | x         |
| ILL_ID65  | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     | x         |
| ILL_F2    | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     |
| ILL_F6    | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     |
| ILL_F7    | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     |
| ILL_F8    | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     |
| ILL_F10   | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     |
| ILL_F11   | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     |
| ILL_F12   | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     | V1.0~     |
| ILL_USER1 | V1.0~     | V1.0~     | V1.0~     | V1.0~     | x         | V1.1~     |

(\*) Only the second illuminant can be set.

### Color space

|                 | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    |
|-----------------|-------|-------|-------|-------|-------|-------|
| COLOR_LAB       | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| COLOR_LCH       | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| COLOR_HLAB      | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     | x     |
| COLOR_YXY       | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |
| COLOR_XYZ       | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |
| COLOR_MUNSELL_C | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |

### Color equation

|                 | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    |
|-----------------|-------|-------|-------|-------|-------|-------|
| EQUATION_DE1976 | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| EQUATION_CMC    | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| EQUATION_DE1994 | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| EQUATION_DE2000 | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| EQUATION_DEH    | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     | x     |
| EQUATION_DEP    | x     | x     | x     | x     | x     | V1.0~ |

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|                | 25cG  | 26dG  | 26d   | 25d   | 23d | M6    |
|----------------|-------|-------|-------|-------|-----|-------|
| EQUATION_DEC   | x     | x     | x     | x     | x   | V1.0~ |
| EQUATION_DE99o | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x   | V1.1~ |

### Custom items

|             | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 |
|-------------|-------|-------|-------|-------|-------|----|
| None        | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| L*          | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| a*          | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| b*          | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| C*          | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| h           | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| L(Hunter)   | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |    |
| a(Hunter)   | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |    |
| b(Hunter)   | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |    |
| X           | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| Y           | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| Z           | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| x           | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| y           | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| H           | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| V           | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| C           | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| WI(E313-73) | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| WI(CIE)     | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |    |
| Tint(CIE)   | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |    |
| YI(E313)    | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |    |
| YI(D1925)   | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| B(ISO)      | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |    |
| GU          | V1.0~ | V1.0~ | x     | x     | x     |    |
| UserE1      | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| UserC1      | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| UserE2      | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| UserC2      | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| UserE3      | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| UserC3      | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| 8° gloss    | x     | x     | V1.0~ | V1.0~ | x     |    |
| WI(Ganz)    | x     | V1.1~ | V1.1~ | x     | x     |    |
| Tint(Ganz)  | x     | V1.1~ | V1.1~ | x     | x     |    |
| ΔL*         | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| Δa*         | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| Δb*         | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| ΔC*         | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| ΔH*         | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| ΔL(Hunter)  | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |    |
| Δa(Hunter)  | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |    |

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|                       | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 |
|-----------------------|-------|-------|-------|-------|-------|----|
| $\Delta b$ (Hunter)   | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |    |
| $\Delta X$            | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| $\Delta Y$            | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| $\Delta Z$            | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| $\Delta x$            | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| $\Delta y$            | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| $\Delta WI$ (E313-73) | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| $\Delta WI$ (CIE)     | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |    |
| $\Delta Tint$ (CIE)   | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |    |
| $\Delta YI$ (E313)    | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |    |
| $\Delta YI$ (D1925)   | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| $\Delta B$ (ISO)      | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |    |
| $\Delta GU$           | V1.0~ | V1.0~ | x     | x     | x     |    |
| MI                    | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| $\Delta E^{*ab}$      | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| CMC                   | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| $\Delta E^{*94}$      | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| $\Delta E00$          | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| $\Delta E$ (Hunter)   | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |    |
| $\Delta E99o$         | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x     |    |
| StrengthXYZ           | x     | V1.0~ | V1.0~ | V1.0~ | x     |    |
| StrengthX             | x     | V1.0~ | V1.0~ | V1.0~ | x     |    |
| StrengthY             | x     | V1.0~ | V1.0~ | V1.0~ | x     |    |
| StrengthZ             | x     | V1.0~ | V1.0~ | V1.0~ | x     |    |
| GreyScale             | x     | V1.0~ | V1.0~ | V1.0~ | x     |    |
| $\Delta WI$ (Ganz)    | x     | V1.1~ | V1.1~ | x     | x     |    |
| $\Delta Tint$ (Ganz)  | x     | V1.1~ | V1.1~ | x     | x     |    |

### Irradiation direction to display

|              | 25cG | 26dG | 26d | 25d | 23d | M6    |
|--------------|------|------|-----|-----|-----|-------|
| DIRECTION_DP |      |      |     |     |     | V1.1~ |
| DIRECTION_L  |      |      |     |     |     | V1.1~ |

### Irradiation direction

|                 | 25cG | 26dG | 26d | 25d | 23d | M6    |
|-----------------|------|------|-----|-----|-----|-------|
| LDIRECTION_NONE |      |      |     |     |     | V1.0~ |
| LDIRECTION_L    |      |      |     |     |     | V1.0~ |
| LDIRECTION_R    |      |      |     |     |     | V1.0~ |
| LDIRECTION_DP   |      |      |     |     |     | V1.0~ |

### Target filter

|             | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 |
|-------------|-------|-------|-------|-------|-------|----|
| FILTER_OFF  | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| FILTER_SAVE | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |

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|              | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6 |
|--------------|-------|-------|-------|-------|-------|----|
| FILTER_GROUP | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |

**Target protection**

|     | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    |
|-----|-------|-------|-------|-------|-------|-------|
| OFF | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| ON  | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |

**Group name**

|           | 25cG | 26dG | 26d | 25d | 23d | M6 |
|-----------|------|------|-----|-----|-----|----|
| Name size | 30   | 30   | 30  | 30  | 30  |    |

**Tolerance ID**

|                        | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    |
|------------------------|-------|-------|-------|-------|-------|-------|
| $\Delta L^*$           | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| $\Delta a^*$           | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| $\Delta b^*$           | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| $\Delta C^*$           | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| $\Delta H^*$           | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| $\Delta L$ (Hunter)    | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     | x     |
| $\Delta a$ (Hunter)    | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     | x     |
| $\Delta b$ (Hunter)    | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     | x     |
| $\Delta X$             | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |
| $\Delta Y$             | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |
| $\Delta Z$             | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |
| $\Delta x$             | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |
| $\Delta y$             | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |
| $\Delta WI$ (E313-73)  | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |
| $\Delta WI$ (CIE)      | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     | x     |
| $\Delta Tint$ (CIE)    | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     | x     |
| $\Delta YI$ (E313)     | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     | x     |
| $\Delta YI$ (D1925)    | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     |
| $\Delta B$ (ISO)       | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     | x     |
| $\Delta GU$            | V1.0~ | V1.0~ | x     | x     | x     | x     |
| MI                     | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| $\Delta E^{*ab}$       | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| CMC                    | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| $\Delta E^{*94}$       | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| $\Delta E00$           | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| $\Delta E$ (Hunter)    | V1.0~ | V1.0~ | V1.0~ | V1.0~ | x     | x     |
| $\Delta Ep$ (DIN6175)  | x     | x     | x     | x     | x     | V1.0~ |
| $\Delta Ec$ (DIN6175)  | x     | x     | x     | x     | x     | V1.0~ |
| $\Delta FF$            | x     | x     | x     | x     | x     | V1.0~ |
| $\Delta E99o$          | V1.1~ | V1.0~ | V1.0~ | V1.0~ | x     | V1.1~ |
| $\Delta Ec$ (Audi2000) | x     | x     | x     | x     | x     | V1.1~ |

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|                        | 25cG | 26dG  | 26d   | 25d   | 23d | M6    |
|------------------------|------|-------|-------|-------|-----|-------|
| ΔEc average (Audi2000) | x    | x     | x     | x     | x   | V1.1~ |
| ΔEc maximum (Audi2000) | x    | x     | x     | x     | x   | V1.1~ |
| ΔEp(Audi2000)          | x    | x     | x     | x     | x   | V1.1~ |
| ΔEp average (Audi2000) | x    | x     | x     | x     | x   | V1.1~ |
| ΔEp maximum (Audi2000) | x    | x     | x     | x     | x   | V1.1~ |
| ΔStrengthXYZ           | x    | V1.0~ | V1.0~ | V1.0~ | x   | x     |
| ΔstrengthX             | x    | V1.0~ | V1.0~ | V1.0~ | x   | x     |
| ΔstrengthY             | x    | V1.0~ | V1.0~ | V1.0~ | x   | x     |
| ΔstrengthZ             | x    | V1.0~ | V1.0~ | V1.0~ | x   | x     |
| Opacity difference     | x    | V1.0~ | V1.0~ | V1.0~ | x   | x     |
| Grayscale difference   | x    | V1.0~ | V1.0~ | V1.0~ | x   | x     |
| ΔWI(Ganz)              | x    | V1.1~ | V1.1~ | x     | x   | x     |
| ΔTint(Ganz)            | x    | V1.1~ | V1.1~ | x     | x   | x     |

### Warning level

|         | 25cG | 26dG | 26d | 25d | 23d | M6  |
|---------|------|------|-----|-----|-----|-----|
| Minimum | 0    | 0    | 0   | 0   | 0   | 0   |
| Maximum | 100  | 100  | 100 | 100 | 100 | 100 |

### Instrument mode

|                       | 25cG | 26dG  | 26d   | 25d   | 23d   | M6 |
|-----------------------|------|-------|-------|-------|-------|----|
| INSTRUMENTMODE_NORMAL |      | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |
| INSTRUMENTMODE_SIMPLE |      | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |

### User type

|                 | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    |
|-----------------|-------|-------|-------|-------|-------|-------|
| USERTYPE_ADMIN  | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| USERTYPE_WORKER | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |

### Automatic printing

|     | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    |
|-----|-------|-------|-------|-------|-------|-------|
| OFF | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| ON  | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |

### Display brightness

|         | 25cG | 26dG | 26d | 25d | 23d | M6 |
|---------|------|------|-----|-----|-----|----|
| Minimum | 0    | 0    | 0   | 0   | 0   | 0  |
| Maximum | 4    | 4    | 4   | 4   | 4   | 4  |

### Display direction

|               | 25cG | 26dG  | 26d   | 25d   | 23d   | M6    |
|---------------|------|-------|-------|-------|-------|-------|
| SCREENDIR_0   |      | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| SCREENDIR_180 |      | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |

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### Sound

|     | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    |
|-----|-------|-------|-------|-------|-------|-------|
| OFF | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| ON  | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |

### Calibration interval

|         | 25cG | 26dG | 26d | 25d | 23d | M6 | 36dG | 36d | 3630A |
|---------|------|------|-----|-----|-----|----|------|-----|-------|
| Minimum | 1    | 1    | 1   | 1   | 1   | 1  | 1    | 1   | 1     |
| Maximum | 24   | 24   | 24  | 24  | 24  | 24 | 24   | 24  | 24    |

### User calibration

|     | 25cG  | 26dG  | 26d   | 25d   | 23d | M6 | 36dG  | 36d   | 3630A |
|-----|-------|-------|-------|-------|-----|----|-------|-------|-------|
| OFF | V1.0~ | V1.0~ | V1.0~ | V1.0~ |     |    | V1.0~ | V1.0~ | V1.0~ |
| ON  | V1.0~ | V1.0~ | V1.0~ | V1.0~ |     |    | V1.0~ | V1.0~ | V1.0~ |

### Periodical calibration notification

|     | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    | 36dG  | 36d   | 3630A |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| OFF | V1.0~ |
| ON  | V1.0~ |

### Skip zero calibration on/off

|     | 25cG | 26dG  | 26d   | 25d   | 23d   | M6 | 36dG | 36d | 3630A |
|-----|------|-------|-------|-------|-------|----|------|-----|-------|
| OFF |      | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |      |     |       |
| ON  |      | V1.0~ | V1.0~ | V1.0~ | V1.0~ |    |      |     |       |

### Date format

|             | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    |
|-------------|-------|-------|-------|-------|-------|-------|
| DF_YYYYMMDD | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| DF_MMDDYYYY | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| DF_DDMMYYYY | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |

### Language

|                     | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    |
|---------------------|-------|-------|-------|-------|-------|-------|
| LANGUAGE_ENGLISH    | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| LANGUAGE_JAPANESE   | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| LANGUAGE_GERMAN     | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| LANGUAGE_FRENCH     | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| LANGUAGE_SPANISH    | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| LANGUAGE_ITALIAN    | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| LANGUAGE_CHINESE_S  | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| LANGUAGE_PORTUGUESE | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| LANGUAGE_RUSSIAN    | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| LANGUAGE_POLISH     | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |
| LANGUAGE_TURKISH    | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ | V1.0~ |

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**Power savings**

|         | 25cG  | 26dG  | 26d   | 25d   | 23d   | M6    |
|---------|-------|-------|-------|-------|-------|-------|
|         | V1.1~ | V1.1~ | V1.0~ | V1.0~ | V1.0~ | V1.1~ |
| Minimum | 0     | 0     | 0     | 0     | 0     | 0     |
| Maximum | 60    | 60    | 60    | 60    | 60    | 60    |

**Job**

|                  | 25cG | 26dG | 26d | 25d | 23d | M6 |
|------------------|------|------|-----|-----|-----|----|
| Job name (size)  |      | 20   | 20  | 20  |     |    |
| Data name (size) |      | 30   | 30  | 30  |     |    |
| Comment (size)   |      | 100  | 100 | 100 |     |    |

**Date/time type**

|                | 25cG  | 26dG  | 26d | 25d | 23d | M6 | 36dG  | 36d | 3630A |
|----------------|-------|-------|-----|-----|-----|----|-------|-----|-------|
| DATETYPE_COLOR | V1.0~ | V1.0~ |     |     |     |    | V1.0~ |     |       |
| DATETYPE_GLOSS | V1.0~ | V1.0~ |     |     |     |    | V1.0~ |     |       |

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