

OLYCameraKit for Developer

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What is OLYCameraKit

OLYCameraKit is the Software Development Kit (SDK) for OLYMPUS wireless cameras. You can easily develop applications to control a camera via wireless communication.

Supported Camera

- Olympus Wireless Camera Prototype

Supported Wireless Communication Standards

- Wi-Fi

Supported Platforms

- iOS
- Android

What You Can Do with OLYCameraKit

OLYCameraKit supports below functions.

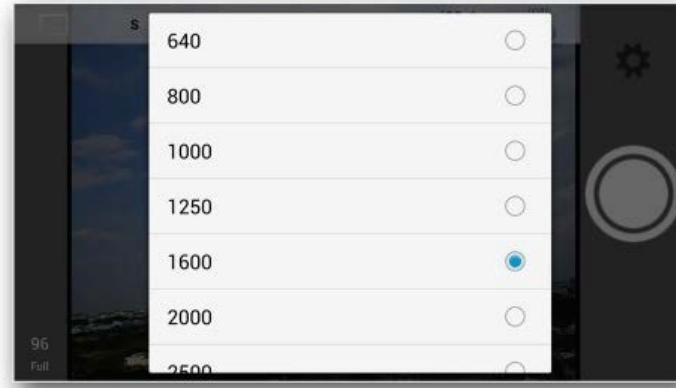
1. Shoot



- Shooting with or without live view.
- Continuous shooting and recording movies in addition to shooting still image.
- Issue notification when hardware button is pressed down.

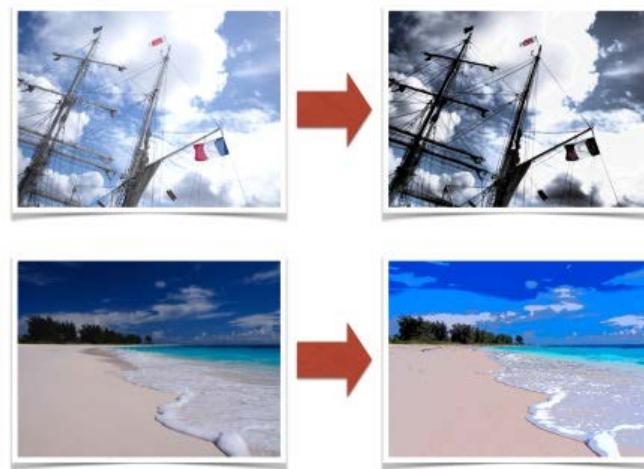
2. Set Basic Configuration

It is possible to set parameters corresponding to each basic function below.



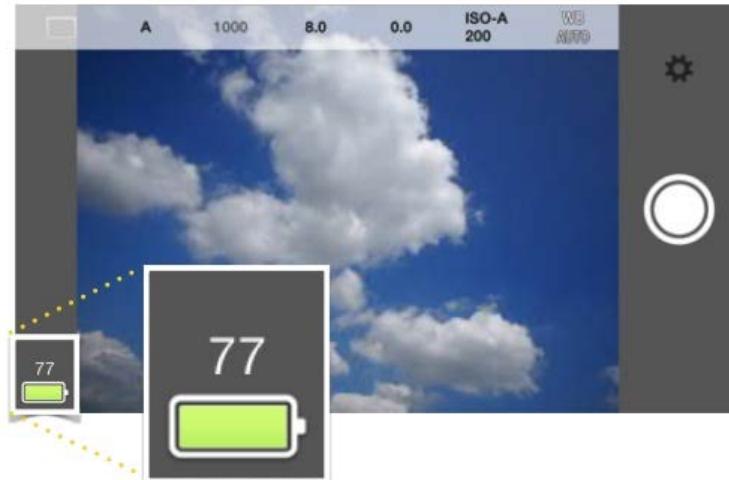
- Exposure mode (program, aperture-priority, shutter-priority, manual, full auto (iAuto))
- Shooting parameter (aperture value, shutter speed, exposure compensation value, ISO sensitivity, white balance)
- Zoom (optical*, digital) (*)Electric zoom lens needed.
- Auto focus, auto exposure.
- Recording format (RAW, JPEG*) (*)Compression rate and size can be configured for JPEG.

3. Set Configuration for Creative Shot



- Art Filters easily transform your photograph into a work of art.
- Change aspect ratio of still images.

4. Get and Set Information for Shooting Support



- Get current parameters of camera configuration.
- Get information on camera status including camera position and lens focal length.
- Change resolution of live view.

5. Playback of Still Image and Movie.



- Transfer and save still image and movie.
- Transfer resized still image and movie.

6. Other

- Control wireless connection to the camera.
- Get camera information such as battery power, number of storable still pictures, and firmware version.
- Change the volume of system sound.

Site Map

- Getting Started
 - [What is OLYCameraKit](#) Overview of OLYCameraKit.
 - [How to Develop](#) Steps of development and setup of OLYCameraKit
- Document
 - [API Reference\[iOS\] \[Android\]](#) Reference of API library.
 - [Property List](#) List of camera properties that define camera configuration. Common for both iOS and Android.
 - [Sample App](#) How to use sample apps and explanation of source code.

- Camera Sample App [\[iOS\]](#) [\[Android\]](#)
- Viewer Sample App [\[iOS\]](#) [\[Android\]](#)

- [FAQ](#) Frequently asked questions on SDK.
- [Event Handling Guideline](#) Guideline to handle notification of events that occur on the camera.

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SDK Package

Contents of Package

OLYCameraKit includes following contents.

API Library

Supported OS	Providing Format
iOS	framework format
Android	jar format

Sample Application

Sample Application	Functions
Shooting Application	Display live view, Shoot by touch-auto focus, Set shooting parameters, Confirm captured image
Viewer Application	List thumbnails of images in camera、Preview each image、Image transfer to mobile device

Operation Requirements

Please use following environment to develop or operate application. However, there is no guarantee of perfect operation.

iOS

- SDK: iOS 8.1 SDK or later
- Development Environment: Xcode 6.1 or later
- Operating Environment: iOS 7.0 or later

Android

- SDK: Android API level 9 or later
- Development Environment: Android Developer Tools 23 or later
- Operating Environment: Android 4.0 or later

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How to Develop

Procedure of developing an application

1. Try out the sample code.
 - Let's try out a sample app in the OLYCameraKit.
 - You can modify the sample application to make your original application.
2. Install Library to your development environment.
 - See setup guide here [\[iOS\]](#) [\[Android\]](#).
3. Develop an application referring to the API Reference and guideline.
 - If you install the application on an iOS device such as iPhone or iPad, you must become a member of the Apple Developer Program.

How to use the camera (over Wi-Fi network)

The camera must be connected to your device over Wi-Fi network before using an application written with OLYCameraKit. Here are some steps to connect the camera to your Wi-Fi terminal.

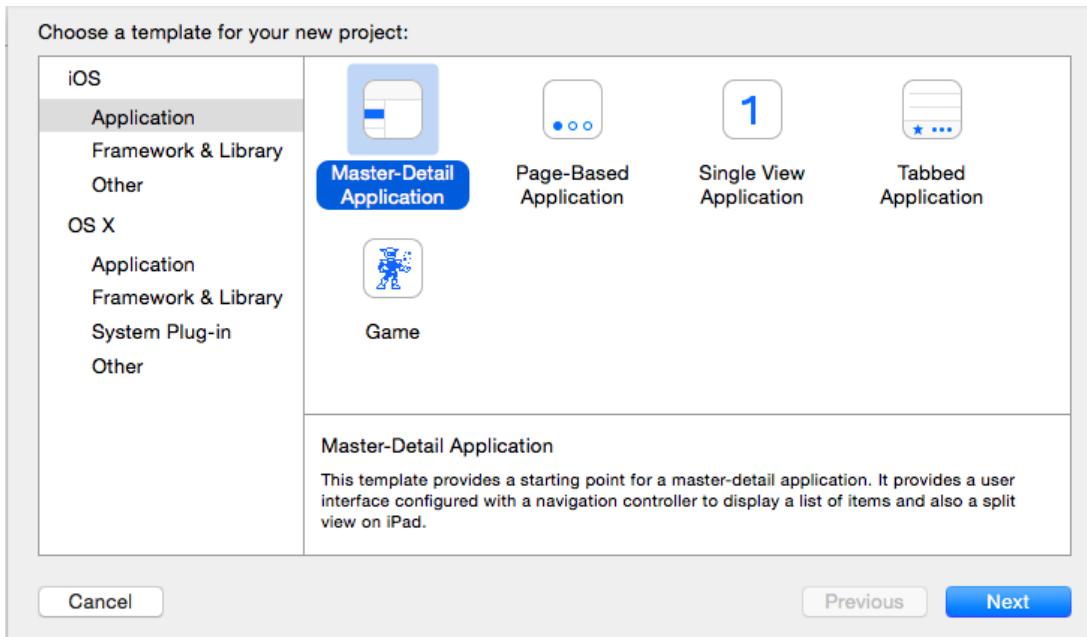
1. Power on the camera.
2. Automatically the camera works as a Wi-Fi access point.
3. Connect the camera to your Wi-Fi device such as smartphone or tablet using the setup screen of your device.
4. Start the application on your device.

Library Setup

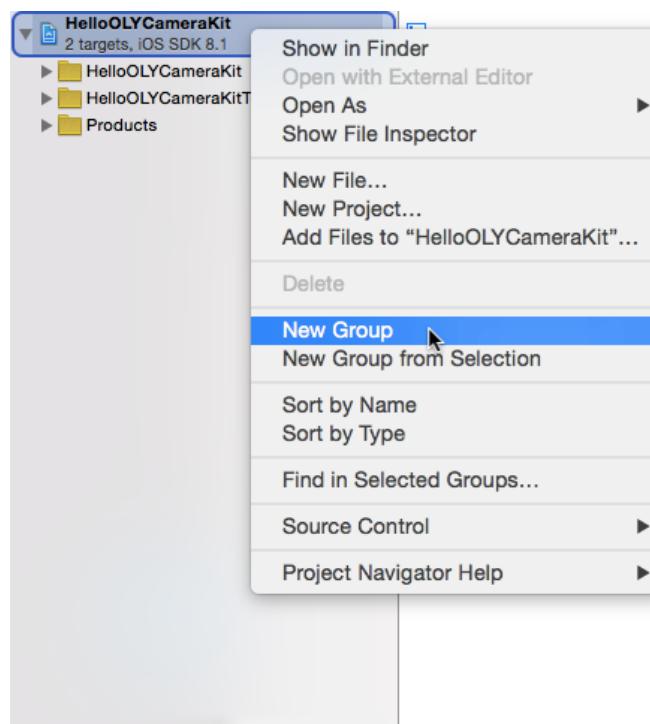
iOS

The OLYCameraKit for iOS is a static framework. Before developing a camera application, you must add this framework to the Xcode project and change build settings. The following description assumes building a Xcode project from scratch. You don't need to follow this procedure when you add a framework to an existing project. (The following contents was checked with Xcode 6.1.)

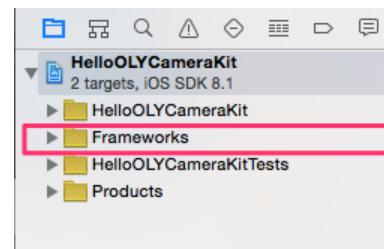
1. Open Xcode, and create a new empty project (File > New > Project). Here make a Single View Application named HelloOLYCameraKit. This document skips the details of making a new project.



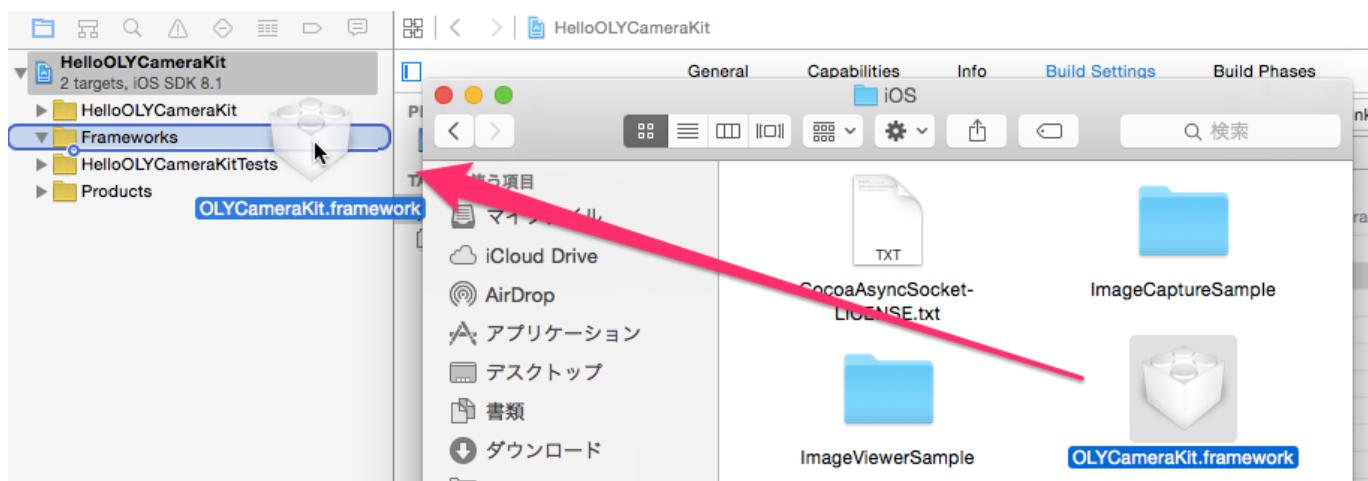
- Display the Project Navigator (View > Navigators > Show Project Navigator) and select the project "HelloOLYCameraKit". Select "New Group" from the context menu (Control + Click).



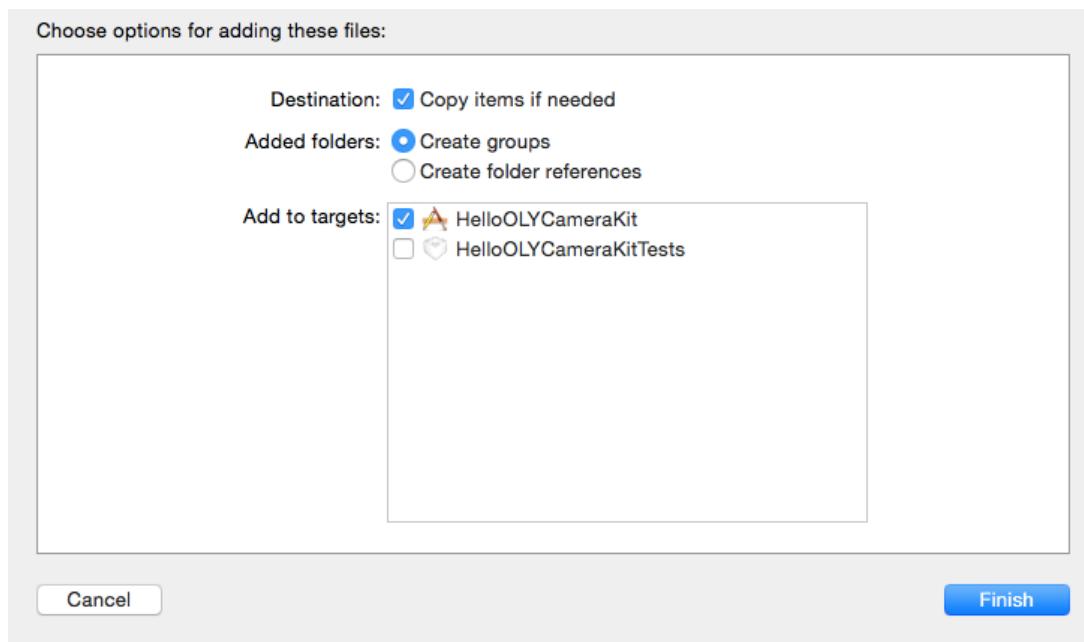
- Confirm the new group (new folder) named "New Group" is generated, and rename it "Frameworks".



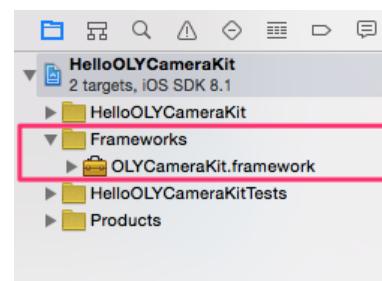
- Display the Project Navigator (View > Navigators > Show Project Navigator), drag the OLYCameraKit.framework, and drop it in the "Frameworks" folder.



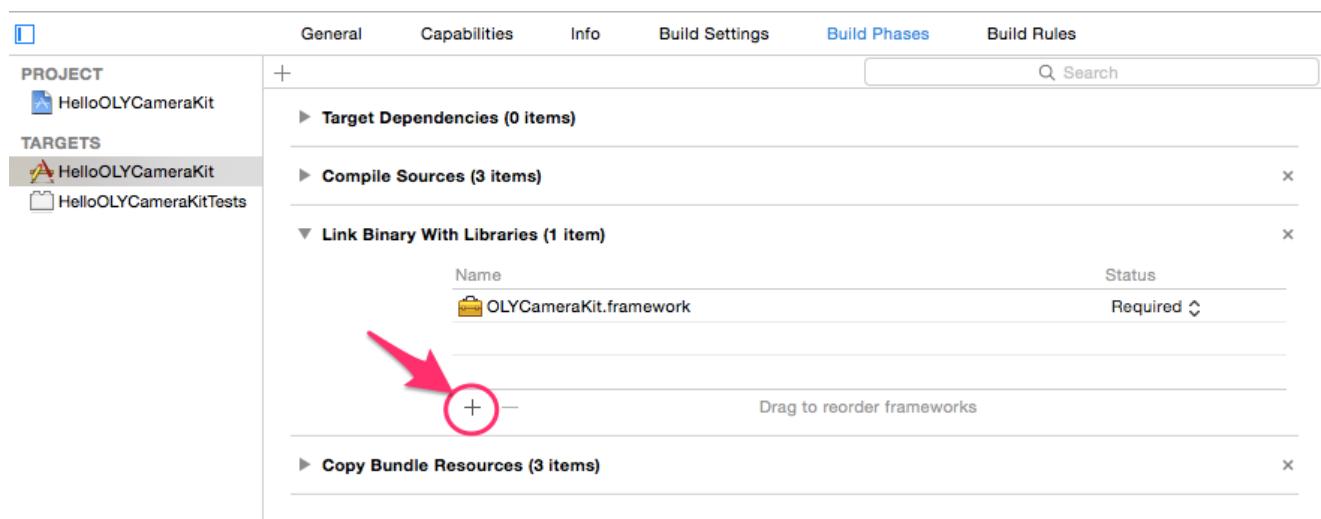
- Check the following on the option dialog box. Then push the Finish button.



- Check that the OLYCameraKit.framework has been added to the Frameworks folder.

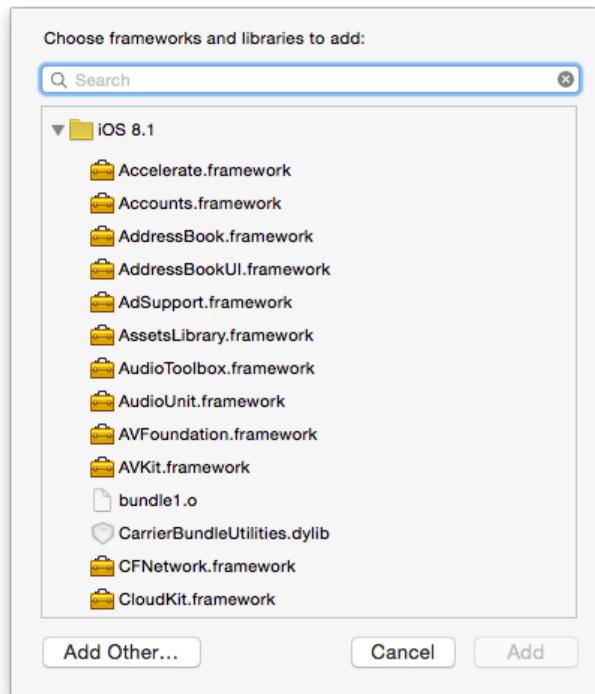


- On selecting OLYCameraKit.framework, select "Show in Finder" from the context menu (Control + Click). Confirm the OLYCameraKit.framework has been copied to the same folder as the new project file.
- Display the project navigator, and select the project (HelloOLYCameraKit). Select the target object in the editor area. Then click the "Build Phases" tab. Expand "Link Binary with Libraries" menu and press + button.

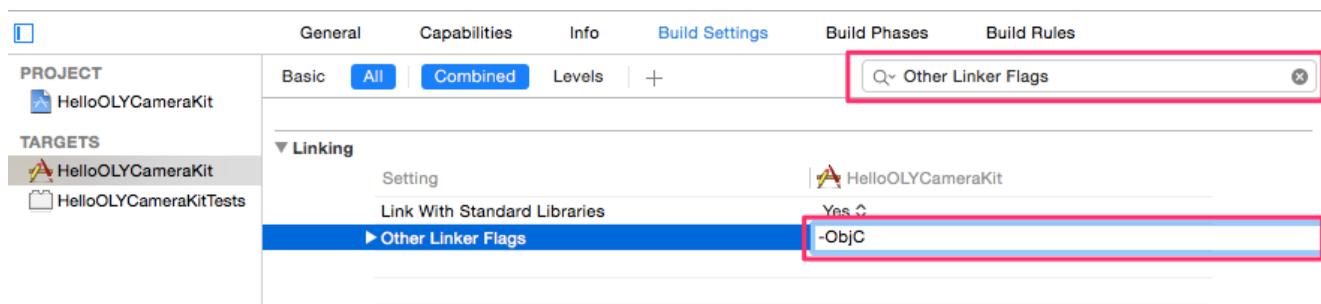


9. Add the following frameworks.

- o AudioToolbox.framework
- o CFNetwork.framework
- o ImageIO.framework
- o SystemConfiguration.framework
- o Foundation.framework
- o CoreGraphics.framework
- o UIKit.framework



10. Select the HelloOLYCameraKit project in the project navigator, and add “-ObjC” parameter in the editor area (Project > Build Settings > Linking > Other Linker Flags). You can quickly find the target parameter by searching with keyword “other linker flags”. **If you build without -ObjC settings, a run-time exception will occur when a method in OLYCamera class is called.**



11. Import the framework to your application source code, e.g., AppDelegate. If the framework is imported correctly, Xcode autocompletes the name of the imported framework. Generate an OLYCamera object from the application source code, call an API method and operate the camera. However, **DO NOT generate multiple OLYCamera objects for one camera**. OLYCamera object must be a singleton object.

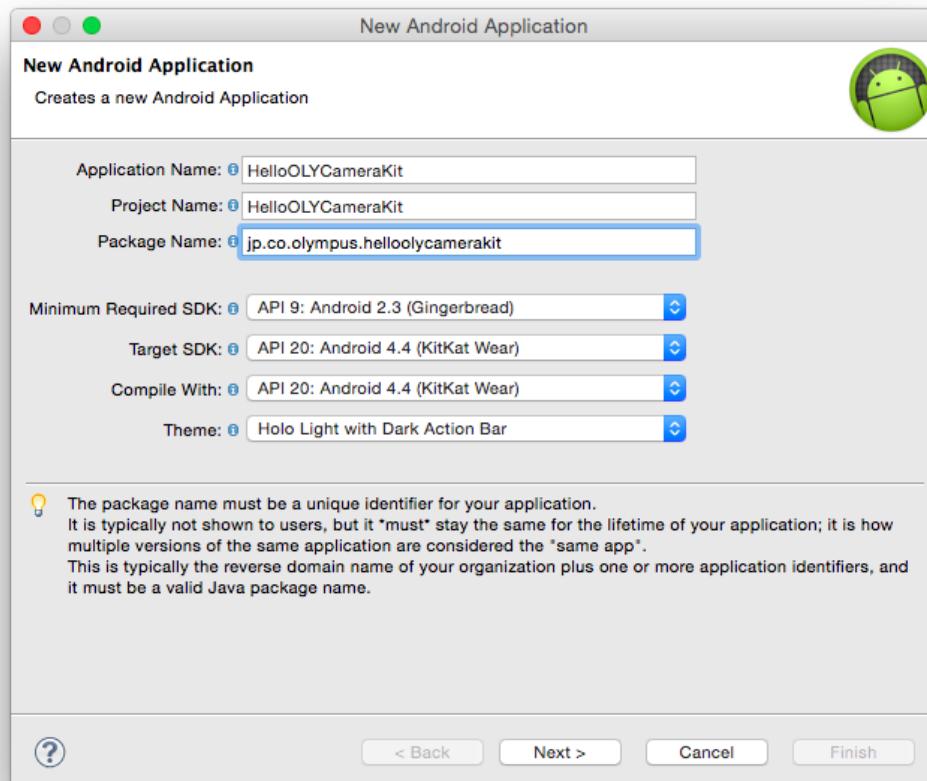
```
#import<OLYCameraKit/OLYCamera.h>
```

Now you are all done setting up OLYCameraKit for iOS.

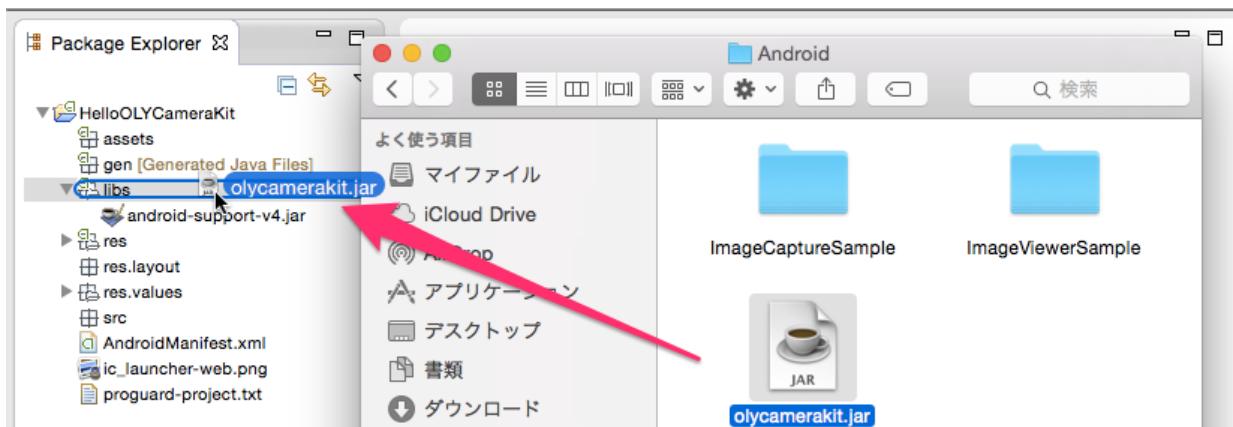
Android

OLYCameraKit for Android is a Java Archive (JAR). Before developing a camera application, you must add JAR file to your development environment such as Eclipse and Android Studio and change the build settings. The following description assumes building an Eclipse project from scratch. You don't need to follow this procedure when you add a JAR file to an existing project.

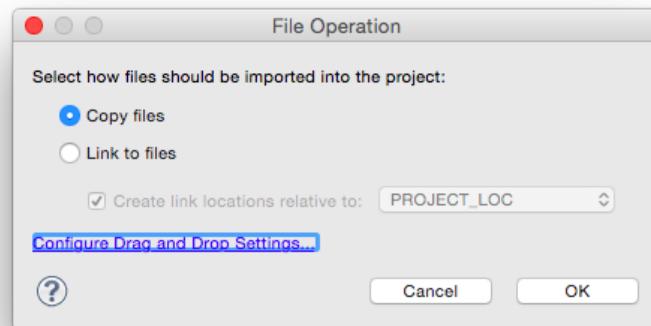
1. Open Eclipse, and create a new empty project in a suitable workspace. (File > New > Android Application Project). Here make the application named HelloOLYCameraKit. Change "Minimum Required SDK" and "Target SDK" according to your environment. This document skips the details of making a new project.



2. Display the Package Explorer (Window > Show View > Package Explorer) and find the "libs" (HelloOLYCameraKit > libs) folder in the package tree. Then drag the OLYCameraKit JAR file and drop it in the libs folder.



3. You will be prompted to either copy or link, select copy.



4. Check that OLYCameraKit.jar has been added to the libs folder on the Package Explorer.
5. Import the library to your application source code, e.g., Activity. If the library is imported correctly, Eclipse autocompletes the name of the imported library. Generate an OLYCamera object from the application source code, call an API method and operate the camera. However, **DO NOT generate multiple OLYCamera object for one camera**. OLYCamera object must be a singleton object.

```
import jp.co.olympus.cameralib.*;
```

Now you are all done setting up OLYCameraKit for Android OS.

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OLYCameraKit Property List

Overview

- Property is setting value of camera.
- Methods to control property in OLYCameraKit can read and write property.
- There are “Read Only” properties and “Read-Write (Writable)” properties.
- Writable property can change the value by specifying property name and property value.

Methods to control property

- The following table shows methods to control property to read and write property, and acquire the list of properties etc.

iOS

Operation	Corresponding Method
Reading	cameraPropertyValue:error:
Writing	setCameraPropertyValue:value:error:
More details	See methods in OLYCamera(CameraSystem) Category

Android

Operation	Corresponding Method
Reading	getCameraPropertyValue
Writing	setCameraPropertyValue
More details	See methods in Camera System group in OLYCamera Class

Sections and Legend of Property List

Sections

Section	Summary
Name and Function	Name and function of property. Property to read and write is specified by the property name.
Property Value	List of values to be set on the property. The values not in this list cannot be set to the property.
Access Permission	Read-only or read-write. See the subsection below for more details.
Supported Shooting Mode	List of shooting mode in which the property is valid. See the subsection below for more details.

Access Permission

Access Permission	Description
Read Only	You can only get the value of property from the camera.
Read Write	You can get and set the value of property to configure the camera.

Supported Shooting Mode

- The camera supports 11 shooting modes.
- Shooting mode can be changed by the following properties.
 - TAKEMODE
 - EXPOSE_MOVIE_SELECT
- See the table below for details of correspondence between shooting mode and property.
- See the description of property corresponding to each shooting mode in property list for more details of each shooting mode.

Shooting Mode	iAuto	P	A	S	M	ART	Photo Recipe	movie P	movie A	movie S	movie M
TAKEMODE	iAuto	P	A	S	M	ART	PhotoRecipe	movie	movie	movie	movie
EXPOSE_MOVIE_SELECT								P	A	S	M

Property List

a. Basics

Aperture Value
 Metering
 Shooting Mode
 ISO Sensitivity
 Exposure Compensation
 Drive Mode
 Aspect Ratio
 Shutter Speed
 Continuous Shooting Speed
 Shooting Mode for Movie
 AE Lock

b. Image Quality and Save

Image Size
 RAW Image Saving
 JPEG Compressoin Rate
 Movie Quality
 Image Saving Destination

c. Focusing

Focusing Mode for Still Image
 AF Lock
 Full-time AF
 Focusing Mode for Movie

d. Color and Tone

Custom White Balance
 Picture Mode
 White Balance
 Color Creator Hue
 Color Creator Saturation
 Art Filters
 Part Color Hue
 ART-BKT Pop Art
 ART-BKT Soft Focus
 ART-BKT Pale & Light
 ART-BKT Light Tone
 ART-BKT Grainy Film
 ART-BKT Pin Hole
 ART-BKT Diorama
 ART-BKT Cross Process
 ART-BKT Gentle Sepia
 ART-BKT Dramatic Tone
 ART-BKT Key Line
 ART-BKT Watercolor
 ART-BKT Vintage

a. Basics

Aperture Value

[Back to TOP](#)

Name and Function

Property Name	Function
APERTURE	Aperture Value (F Value) Value varies according to kind of lens. With WiFi connection, the camera gets/sets 2.8 for aperture value F2.8. With Bluetooth Low Energy connection, the camera uses ten-times value. For example, 28 for F2.8.

Property Value

Property Value	Description
1.0	F1.0
1.1	F1.1
1.2	F1.2
1.4	F1.4
1.6	F1.6
1.8	F1.8
2.0	F2.0
2.2	F2.2
2.5	F2.5
2.8	F2.8
3.2	F3.2
3.5	F3.5
4.0	F4.0
4.5	F4.5
5.0	F5.0
5.6	F5.6
6.3	F6.3
7.1	F7.1
8.0	F8.0
9.0	F9.0

ART-BKT Partial Color

e. Support

Battery Level
 Face Detection
 AF Touch Area (Upper-Left)
 AF Touch Area (Lower-Right)
 Image Preview
 Sound Volume
 AE Touch Area (Upper-Left)
 AE Touch Area (Lower-Right)
 GPS Tagging

10	F10
11	F11
13	F13
14	F14
16	F16
18	F18
20	F20
22	F22
25	F25
29	F29
32	F32
36	F36
40	F40
45	F45
51	F51
57	F57
64	F64
72	F72
81	F81
91	F91

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
		OK		OK			OK		OK

Metering[Back to TOP](#)**Name and Function**

Property Name	Function
AE	Metering (Method of metering subject brightness)

Property Value

Property Value	Description
AE_CENTER	Center weighted averaging metering This metering mode provides the average metering between the subject and the background lighting, placing more weight on the subject at the center.
AE_ESP	Digital ESP metering The camera meters exposure in 324 areas of the frame and optimizes exposure for the current scene or portrait subject. This mode is recommended for general use.
AE_PINPOINT	Spot metering Choose this option to meter a small area (about 2% of the frame) with the camera pointed at the object you wish to meter. Exposure will be adjusted according to the brightness at the metered point.

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
	OK	OK	OK	OK	OK				

Shooting Mode[Back to TOP](#)**Name and Function**

Property Name	Function
TAKEMODE	Shooting mode

Property Value

Property Value	Description
M	Manual mode (mode M) You choose both the aperture and the shutter speed.
P	Program mode (mode P) The camera automatically adjusts shutter speed and aperture in response to subject brightness.
A	Aperture-priority mode (mode A) You choose the aperture and let the camera automatically adjust shutter speed for optimal exposure.
S	Shutter-priority mode (mode S) You choose the shutter speed and let the camera automatically adjust aperture for optimal exposure.
iAuto	iAuto Taking pictures with automatically-optimized settings suitable for current scene.
ART	Art Filter mode Art filters allow you to control various creative effects, transforming your photography into works of art. They are built right into the camera.
movie	Movie mode Movie mode can be used to film movies.

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

ISO Sensitivity[Back to TOP](#)**Name and Function**

Property Name	Function
ISO	ISO sensitivity

Property Value

Property Value	Description
Auto	Auto
Low	Low (equivalent to ISO 100)
200	ISO 200
250	ISO 250

320	ISO 320
400	ISO 400
500	ISO 500
640	ISO 640
800	ISO 800
1000	ISO 1000
1250	ISO 1250
1600	ISO 1600
2000	ISO 2000
2500	ISO 2500
3200	ISO 3200
4000	ISO 4000
5000	ISO 5000
6400	ISO 6400
8000	ISO 8000
10000	ISO 10000
12800	ISO 12800

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
	OK	OK	OK	OK	OK				OK

Exposure Compensation[Back to TOP](#)**Name and Function**

Property Name	Function
EXPREV	Exposure compensation

Property Value

Property Value	Description
-5.0	-5.0
-4.7	-4.7
-4.3	-4.3
-4.0	-4.0
-3.7	-3.7
-3.3	-3.3
-3.0	-3.0
-2.7	-2.7
-2.3	-2.3
-2.0	-2.0
-1.7	-1.7
-1.3	-1.3
-1.0	-1.0
-0.7	-0.7

-0.3	-0.3
0.0	0.0
+0.3	+0.3
+0.7	+0.7
+1.0	+1.0
+1.3	+1.3
+1.7	+1.7
+2.0	+2.0
+2.3	+2.3
+2.7	+2.7
+3.0	+3.0
+3.3	+3.3
+3.7	+3.7
+4.0	+4.0
+4.3	+4.3
+4.7	+4.7
+5.0	+5.0

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
	OK	OK	OK		OK	OK	OK	OK	

Drive Mode[Back to TOP](#)**Name and Function**

Property Name	Function
TAKE_DRIVE	Drive mode

Property Value

Property Value	Description
DRIVE_NORMAL	Normal shooting mode Shoots one frame at a time.
DRIVE_CONTINUE	Continuous shooting mode Photographs are taken at the frame speed specified in CONTINUOUS_SHOOTING_VELOCITY property.

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK				

Aspect Ratio[Back to TOP](#)**Name and Function**

Property Name	Function

ASPECT_RATIO	Aspect ratio of image
--------------	-----------------------

Property Value

Property Value	Description
04_03	Changes aspect ratio to 4:3
03_02	Changes aspect ratio to 3:2
16_09	Changes aspect ratio to 16:9
03_04	Changes aspect ratio to 3:4
06_06	Changes aspect ratio to 1:1

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK				

Shutter Speed[Back to TOP](#)**Name and Function**

Property Name	Function
SHUTTER	Shutter speed

Property Value

Property Value	Description
4"	4
3.2"	3.2
2.5"	2.5
2"	2
1.6"	1.6
1.3"	1.3
1"	1
1.3	1/1.3
1.6	1/1.6
2	1/2
2.5	1/2.5
3	1/3
4	1/4
5	1/5
6	1/6
8	1/8
10	1/10
13	1/13
15	1/15
20	1/20
25	1/25
30	1/30

40	1/40
50	1/50
60	1/60
80	1/80
100	1/100
125	1/125
160	1/160
200	1/200
250	1/250
320	1/320
400	1/400
500	1/500
640	1/640
800	1/800
1000	1/1000
1250	1/1250
1600	1/1600
2000	1/2000
2500	1/2500
3200	1/3200
4000	1/4000
5000	1/5000
6400	1/6400
8000	1/8000

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
			OK	OK				OK	OK

Continuous Shooting Speed[Back to TOP](#)**Name and Function**

Property Name	Function
CONTINUOUS_SHOOTING_VELOCITY	Continuous shooting speed

Property Value

Property Value	Description
1	1fps
2	2fps
3	3fps
4	4fps
5	5fps
6	6fps

7	7fps
8	8fps

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK				

Shooting Mode for Movie[Back to TOP](#)**Name and Function**

Property Name	Function
EXPOSE_MOVIE_SELECT	Shooting mode for movie

Property Value

Property Value	Description
P	Program mode (mode P) The camera automatically adjusts shutter speed and aperture in response to subject brightness.
A	Aperture-priority mode (mode A) You choose the aperture and let the camera automatically adjust shutter speed for optimal exposure.
S	Shutter-priority mode (mode S) You choose the shutter speed and let the camera automatically adjust aperture for optimal exposure.
M	Manual mode (mode M) You choose both the aperture and the shutter speed.

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
						OK	OK	OK	OK

AE Lock[Back to TOP](#)**Name and Function**

Property Name	Function
AE_LOCK_STATE	Toggles auto exposure lock

Property Value

Property Value	Description
LOCK	Exposure lock (AE Lock) ON
UNLOCK	Exposure lock (AE Lock) OFF

Access Permission

Read Only

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

b. Image Quality and Save**Image Size**[Back to TOP](#)**Name and Function**

Property Name	Function
IMAGESIZE	Saving image size (height x width) when aspect ratio is 4:3. When aspect ratio is other than 4:3, image size is adjusted to maximum size inside the specified square.

Property Value

Property Value	Description
4608x3456	4608x3456
3200x2400	3200x2400
2560x1920	2560x1920
1920x1440	1920x1440
1600x1200	1600x1200
1280x960	1280x960
1024x768	1024x768
640x480	640x480

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK				

RAW Image Saving[Back to TOP](#)**Name and Function**

Property Name	Function
RAW	Enables/disables saving RAW image

Property Value

Property Value	Description
OFF	OFF RAW image is not saved. Only JPEG image is saved.
ON	ON Both RAW and JPEG images are saved.

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK				

JPEG Compressoion Rate[Back to TOP](#)**Name and Function**

Property Name	Function

COMPRESSIBILITY_RATIO	Compression rate of JPEG image
-----------------------	--------------------------------

Property Value

Property Value	Description
CMP_2_7	Super Fine
CMP_4	Fine
CMP_8	Normal
CMP_12	Basic

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK				

Movie Quality[Back to TOP](#)**Name and Function**

Property Name	Function
QUALITY_MOVIE	Movie quality

Property Value

Property Value	Description
QUALITY_MOVIE_FULL HD_FINE	Full HD (MOV, 1920x1080, Fine Quality)
QUALITY_MOVIE_FULL HD_NORMAL	Full HD (MOV, 1920x1080, Normal Quality)
QUALITY_MOVIE HD_FINE	HD (MOV, 1280x720, Fine Quality)
QUALITY_MOVIE HD_NORMAL	HD (MOV, 1280x720, Normal Quality)

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
						OK	OK	OK	OK

Image Saving Destination[Back to TOP](#)**Name and Function**

Property Name	Function
DESTINATION_FILE	Image saving destination

Property Value

Property Value	Description
DESTINATION_FILE_MEDIA	Stores a captured image to memory card inside of the camera. The image is not transferred to a mobile device.
DESTINATION_FILE_WIFI	Transfers a captured image to a mobile device without memory storing. This setting is valid when TAKE_DRIVE property is set to DRIVE_NORMAL. The camera retains the image for 60 seconds and removes it.

Access Permission

--

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK				

c. Focusing**Focusing Mode for Still Image**[Back to TOP](#)**Name and Function**

Property Name	Function
FOCUS_STILL	Focusing mode of still image shooting

Property Value

Property Value	Description
FOCUS_MF	Manual focus This function allows you to manually focus on any subject. Focus adjustment is performed using focus ring of lens.
FOCUS_SAF	Single auto focus The camera focuses once automatically.

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK				

AF Lock[Back to TOP](#)**Name and Function**

Property Name	Function
AF_LOCK_STATE	Toggles auto focus lock

Property Value

Property Value	Description
LOCK	Focus lock (AF Lock) ON
UNLOCK	Focus lock (AF Lock) OFF

Access Permission

Read Only

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

Full-time AF[Back to TOP](#)**Name and Function**

Property Name	Function
FULL_TIME_AF	Enables/disables full-time auto focus Full-time auto focus feature continues to focus even when the shutter button is not pressed halfway

Property Value

Property Value	Description
OFF	Disables full-time auto focus
ON	Enables full-time auto focus

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

Focusing Mode for Movie[Back to TOP](#)**Name and Function**

Property Name	Function
FOCUS_MOVIE	Focusing mode of movie recording

Property Value

Property Value	Description
FOCUS_MF	Manual focus This function allows you to manually focus on any subject. Focus adjustment is performed using focus ring of lens.
FOCUS_SAF	Single auto focus The camera focuses once automatically.
FOCUS_CAF	Continuous auto focus The camera performs tracking of the subject and repeats focusing automatically. Even if the subject moves or you change the composition of the picture, the camera continues trying to focus.

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
						OK	OK	OK	OK

d. Color and Tone**Custom White Balance**[Back to TOP](#)**Name and Function**

Property Name	Function
CUSTOM_WB_KELVIN_1	White balance using Kelvin This property is valid when WB property is set to WB_CUSTOM1.

Property Value

Property Value	Description
2000	2000K
2050	2050K
2100	2100K

2150	2150K
2200	2200K
2250	2250K
2300	2300K
2350	2350K
2400	2400K
2450	2450K
2500	2500K
2550	2550K
2600	2600K
2650	2650K
2700	2700K
2750	2750K
2800	2800K
2900	2900K
3000	3000K
3100	3100K
3200	3200K
3300	3300K
3400	3400K
3500	3500K
3600	3600K
3700	3700K
3800	3800K
3900	3900K
4000	4000K
4200	4200K
4400	4400K
4600	4600K
4800	4800K
5000	5000K
5200	5200K
5400	5400K
5600	5600K
5800	5800K
6000	6000K
6200	6200K
6400	6400K
6600	6600K
6800	6800K
7000	7000K
7400	7400K
7800	7800K
8200	8200K

8600	8600K
9000	9000K
9400	9400K
9800	9800K
10000	10000K
11000	11000K
12000	12000K
13000	13000K
14000	14000K

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
	OK	OK	OK	OK	OK	OK	OK	OK	OK

Picture Mode[Back to TOP](#)**Name and Function**

Property Name	Function
COLORTONE	Picture mode When TAKEMODE is set to P (Program Mode) and this property is set to one of properties for Art Filter, the camera operates in Art Filter Mode. The camera enters Art Filter Mode when TAKEMODE is set to ART.

Property Value

Property Value	Description
FLAT	Produces flat tones.
NATURAL	Produces natural colors.
Monotone	Produces black and white tone.
Portrait	Produces beautiful skin tones.
I_FINISH	Produces more impressive-looking results suited to the scene.
VIVID	Produces vivid colors.
ePortrait	Produces smooth skin textures.
COLOR_CREATOR	Hue and saturation of color creator is applied. Hue and saturation are specified in COLOR_CREATOR_COLOR property and COLOR_CREATOR_VIVID property respectively.
POPART	Art filter "Pop Art" is selected.
FANTASIC_FOCUS	Art filter "Soft Focus" is selected.
DAYDREAM	Art filter "Pale&Light Color" is selected.
LIGHT_TONE	Art filter "Light Tone" is selected.
ROUGH_MONOCHROME	Art filter "Grainy Film" is selected.
TOY_PHOTO	Art filter "Pin Hole" is selected.
MINIATURE	Art filter "Diorama" is selected.
CROSS_PROCESS	Art filter "Cross Process" is selected.
GENTLE_SEPIA	Art filter "Gentle Sepia" is selected.

DRAMATIC_TONE	Art filter "Dramatic Tone" is selected.
LIGNE_CLAIR	Art filter "Key Line" is selected.
PASTEL	Art filter "Watercolor" is selected.
VINTAGE	Art filter "Vintage" is selected.
PARTCOLOR	Art filter "Partial Color" is selected.

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
	OK	OK	OK	OK		OK	OK	OK	OK

White Balance[Back to TOP](#)**Name and Function**

Property Name	Function
WB	White balance

Property Value

Property Value	Description
WB_AUTO	Auto White Balance Used for most light conditions (when there is a white portion framed on the monitor). Use this mode for general use.
MWB_FINE	Preset white balance for shooting outdoors on a clear day, or to capture the reds in a sunset or the colors in a fireworks display. Color temperature is 5300K.
MWB_SHADE	Preset white balance for shooting outdoors in the shadows on a clear day. Color temperature is 7500K.
MWB_CLOUD	Preset white balance for shooting outdoors on a cloudy day. Color temperature is 6000K.
MWB_LAMP	Preset white balance for shooting under a tungsten light. Color temperature is 3000K.
MWB_FLUORESCENCE1	Preset white balance for subjects lit by fluorescent lights. Color temperature is 4000K.
MWB_WATER_1	Preset white balance for underwater photography. Color temperature is 5500K.
WB_CUSTOM1	Custom White Balance. Select color temperature in terms of Kelvin using CUSTOM_WB_KELVIN_1 property.

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
	OK	OK	OK	OK	OK	OK	OK	OK	OK

Color Creator Hue[Back to TOP](#)**Name and Function**

Property Name	Function
COLOR_CREATOR_COLOR	Hue for color creator Color creator feature lets you adjust hue of the subject. This property is valid when COLORTONE property is set to

COLOR_CREATOR.

Property Value

Property Value	Description	Color Sample
0	Hue Pattern 0 (No Effect)	
1	Hue Pattern 1	
2	Hue Pattern 2	
3	Hue Pattern 3	
4	Hue Pattern 4	
5	Hue Pattern 5	
6	Hue Pattern 6	
7	Hue Pattern 7	
8	Hue Pattern 8	
9	Hue Pattern 9	
10	Hue Pattern 10	
11	Hue Pattern 11	
12	Hue Pattern 12	
13	Hue Pattern 13	
14	Hue Pattern 14	
15	Hue Pattern 15	
16	Hue Pattern 16	
17	Hue Pattern 17	
18	Hue Pattern 18	
19	Hue Pattern 19	
20	Hue Pattern 20	
21	Hue Pattern 21	
22	Hue Pattern 22	
23	Hue Pattern 23	

24	Hue Pattern 24	
25	Hue Pattern 25	
26	Hue Pattern 26	
27	Hue Pattern 27	
28	Hue Pattern 28	
29	Hue Pattern 29	

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK		OK	OK	OK	OK

Color Creator Saturation[Back to TOP](#)**Name and Function**

Property Name	Function
COLOR_CREATOR_VIVID	Saturation for color creator Color creator feature lets you adjust saturation of the subject. This property is valid when COLORTONE property is set to COLOR_CREATOR.

Property Value

Property Value	Description
-4	Saturation -4
-3	Saturation -3
-2	Saturation -2
-1	Saturation -1
0	Saturation +-0
+1	Saturation +1
+2	Saturation +2
+3	Saturation +3

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK		OK	OK	OK	OK

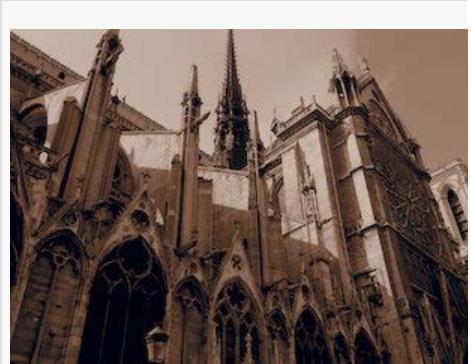
Art Filters[Back to TOP](#)**Name and Function**

Property Name	Function
	Art filter type

RECENTLY_ART_FILTER	Art filters allow you to control various creative effects, transforming your photography into works of art. They are built right into the camera. This property is valid when TAKEMODE property is set to ART.
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Property Value

Property Value	Description	Picture Sample
POPART	Pop Art Super-saturates colors, creating brighter, more vivid photographs.	
FANTASIC_FOCUS	Soft Focus Creates a dreamlike quality giving photographs a surreal look.	
DAYDREAM	Pale&Light Color Brings soft, flat light and pastel coloring to photographs.	
LIGHT_TONE	Light Tone Brightens the image, and its darker areas, providing more detail.	
ROUGH_MONOCHROME	Grainy Film Produces a gritty black-and-white film quality.	

		
TOY_PHOTO	Pin Hole Darkens the outer edges of a photograph, therefore enhancing the subject in the center and bringing the photograph to life.	
MINIATURE	Diorama Gives users a miniature model photo feeling by narrowing the depth of focus and enhancing color and contrast.	
CROSS_PROCESS	Cross Process Offers an unexpected look to images and videos by changing the color and contrast of subjects on the fly. Using this mode can result in surreal otherworldly images.	
GENTLE_SEPIA	Gentle Sepia Gives your images and videos a soft, warm sepia cast similar to historical images from the early days of photography. The sepia tones are softer and the blacks are a true black, unlike traditional sepia images.	
	Dramatic Tone Provides a daily landscape with a dramatic impression. It	

	DRAMATIC_TONE	applies local changes in contrast to the image to represent the real space in a fictitious style by creating unrealistic tones of light and darkness.	
	LIGNE_CLAIR	Key Line Enhances the edge lines of the image to make it look more like an illustration.	
	PASTEL	Watercolor Eliminates darker areas in the image to daringly represent bright color tones on a white canvas to express a world awash in color.	
	VINTAGE	Vintage Gives a nostalgic expression to casual everyday scenes, transforming them into "a special photo that has stood the test of time."	
	PARTCOLOR	Partial Color Emphasizes a specific part of the photo, done by choosing one specific color and leaving all the rest in black and white. Makes your photographic subjects more impressive.	
		Art Filter Bracket This function can generate multiple pictures with different Art Filters with a single shot,	

ART_BKT	freeing you from having to decide which Art Filter to use and surprising you with "unexpected discoveries" in ordinary, everyday scenes. Each art filter to use can be selected by turning BRACKET_PICT_** * property ON.
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Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
					OK				

Part Color Hue[Back to TOP](#)**Name and Function**

Property Name	Function
COLOR_PHASE	Hue for partial color Partial color, which is one of the art filters, makes a picture grayscale except area(s) similar to the color configured by this property. Partial color also works as a picture mode. This property is valid when TAKEMODE property is set to ART, and RECENTLY_ART_FILTER property is set to PARTCOLOR. Another case is when COLORTONE property is set to PARTCOLOR.

Property Value

Property Value	Description	Color Sample
0	Hue pattern 0	
1	Hue pattern 1	
2	Hue pattern 2	
3	Hue pattern 3	
4	Hue pattern 4	
5	Hue pattern 5	
6	Hue pattern 6	
7	Hue pattern 7	
8	Hue pattern 8	
9	Hue pattern 9	
10	Hue pattern 10	

11																			
12																			
13																			
14																			
15																			
16																			
17																			

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
	OK	OK	OK	OK	OK	OK	OK	OK	OK

ART-BKT Pop Art[Back to TOP](#)**Name and Function**

Property Name	Function
BRACKET_PICT_POPART	Toggle for using Pop Art filter in art filter bracketing. Valid only if TAKEMODE is ART and RECENTLY_ART_FILTER is ART_BKT. See RECENTLY_ART_FILTER property for detailed description of this art filter and sample image.

Property Value

Property Value	Description
OFF	Disable Pop Art filter in art filter bracketing.
ON	Enable Pop Art filter in art filter bracketing.

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
					OK				

ART-BKT Soft Focus[Back to TOP](#)**Name and Function**

Property Name	Function
BRACKET_PICT_FANTASIC_FOCUS	Toggle for using Soft Focus filter in art filter bracketing. Valid only if TAKEMODE is ART and RECENTLY_ART_FILTER is ART_BKT. See RECENTLY_ART_FILTER property for detailed description of this art filter and sample image.

Property Value

Property Value		Description							
OFF		Disable Soft Focus filter in art filter bracketing.							
ON		Enable Soft Focus filter in art filter bracketing.							

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
					OK				

ART-BKT Pale & Light[Back to TOP](#)**Name and Function**

Property Name		Function							
BRACKET_PICT_DAYDREAM		Toggle for using Pale & Light Color filter in art filter bracketing. Valid only if TAKEMODE is ART and RECENTLY_ART_FILTER is ART_BKT. See RECENTLY_ART_FILTER property for detailed description of this art filter and sample image.							

Property Value

Property Value		Description							
OFF		Disable Pale&Light Color filter in art filter bracketing.							
ON		Enable Pale&Light Color filter in art filter bracketing.							

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
					OK				

ART-BKT Light Tone[Back to TOP](#)**Name and Function**

Property Name		Function							
BRACKET_PICT_LIGHT_TONE		Toggle for using Light Tone filter in art filter bracketing. Valid only if TAKEMODE is ART and RECENTLY_ART_FILTER is ART_BKT. See RECENTLY_ART_FILTER property for detailed description of this art filter and sample image.							

Property Value

Property Value		Description							
OFF		Disable Light Tone filter in art filter bracketing.							
ON		Enable Light Tone filter in art filter bracketing.							

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
					OK				

ART-BKT Grainy Film[Back to TOP](#)**Name and Function**

Property Name	Function
BRACKET_PICT_ROUGH_MONOCHROME	Toggle for using Grainy Film filter in art filter bracketing. Valid only if TAKEMODE is ART and RECENTLY_ART_FILTER is ART_BKT. See RECENTLY_ART_FILTER property for detailed description of this art filter and sample image.

Property Value

Property Value	Description
OFF	Disable Grainy File filter in art filter bracketing.
ON	Enable Grainy File filter in art filter bracketing.

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
					OK				

ART-BKT Pin Hole[Back to TOP](#)**Name and Function**

Property Name	Function
BRACKET_PICT_TOY_PHOTO	Toggle for using Pin Hole filter in art filter bracketing. Valid only if TAKEMODE is ART and RECENTLY_ART_FILTER is ART_BKT. See RECENTLY_ART_FILTER property for detailed description of this art filter and sample image.

Property Value

Property Value	Description
OFF	Disable Pin Hole filter in art filter bracketing.
ON	Enable Pin Hole filter in art filter bracketing.

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
					OK				

ART-BKT Diorama[Back to TOP](#)**Name and Function**

Property Name	Function
BRACKET_PICT_MINIATURE	Toggle for using Diorama filter in art filter bracketing. Valid only if TAKEMODE is ART and RECENTLY_ART_FILTER is ART_BKT. See RECENTLY_ART_FILTER property for detailed description of this art filter and sample image.

Property Value

Property Value	Description
OFF	Disable Diorama filter in art filter bracketing.

ON	Enable Diorama filter in art filter bracketing.
----	---

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
					OK				

ART-BKT Cross Process[Back to TOP](#)**Name and Function**

Property Name	Function
BRACKET_PICT_CROSS_PROCESS	Toggle for using Cross Process filter in art filter bracketing. Valid only if TAKEMODE is ART and RECENTLY_ART_FILTER is ART_BKT. See RECENTLY_ART_FILTER property for detailed description of this art filter and sample image.

Property Value

Property Value	Description
OFF	Disable Cross Process filter in art filter bracketing.
ON	Enable Cross Process filter in art filter bracketing.

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
					OK				

ART-BKT Gentle Sepia[Back to TOP](#)**Name and Function**

Property Name	Function
BRACKET_PICT_GENTLE_SEPIA	Toggle for using Gentle Sepia filter in art filter bracketing. Valid only if TAKEMODE is ART and RECENTLY_ART_FILTER is ART_BKT. See RECENTLY_ART_FILTER property for detailed description of this art filter and sample image.

Property Value

Property Value	Description
OFF	Disable Gentle Sepia filter in art filter bracketing.
ON	Enable Gentle Sepia filter in art filter bracketing.

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
					OK				

ART-BKT Dramatic Tone[Back to TOP](#)**Name and Function**

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Property Name	Function
BRACKET_PICT_DRAMATIC_TONE	Toggle for using Dramatic Tone filter in art filter bracketing. Valid only if TAKEMODE is ART and RECENTLY_ART_FILTER is ART_BKT. See RECENTLY_ART_FILTER property for detailed description of this art filter and sample image.

Property Value

Property Value	Description
OFF	Disable Dramatic Tone filter in art filter bracketing.
ON	Enable Dramatic Tone filter in art filter bracketing.

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
					OK				

ART-BKT Key Line[Back to TOP](#)**Name and Function**

Property Name	Function
BRACKET_PICT_LIGNE_CLAIR	Toggle for using Key Line filter in art filter bracketing. Valid only if TAKEMODE is ART and RECENTLY_ART_FILTER is ART_BKT. See RECENTLY_ART_FILTER property for detailed description of this art filter and sample image.

Property Value

Property Value	Description
OFF	Disable Key Line filter in art filter bracketing.
ON	Enable Key Line filter in art filter bracketing.

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
					OK				

ART-BKT Watercolor[Back to TOP](#)**Name and Function**

Property Name	Function
BRACKET_PICT_PASTEL	Toggle for using Watercolor filter in art filter bracketing. Valid only if TAKEMODE is ART and RECENTLY_ART_FILTER is ART_BKT. See RECENTLY_ART_FILTER property for detailed description of this art filter and sample image.

Property Value

Property Value	Description
OFF	Disable Watercolor filter in art filter bracketing.
ON	Enable Watercolor filter in art filter bracketing.

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
					OK				

ART-BKT Vintage[Back to TOP](#)**Name and Function**

Property Name	Function
BRACKET_PICT_VINTAGE	Toggle for using Vintage filter in art filter bracketing. Valid only if TAKEMODE is ART and RECENTLY_ART_FILTER is ART_BKT. See RECENTLY_ART_FILTER property for detailed description of this art filter and sample image.

Property Value

Property Value	Description
OFF	Disable Vintage filter in art filter bracketing.
ON	Enable Vintage filter in art filter bracketing.

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
					OK				

ART-BKT Partial Color[Back to TOP](#)**Name and Function**

Property Name	Function
BRACKET_PICT_PARTCOLOR	Toggle for using Partial Color filter in art filter bracketing. Valid only if TAKEMODE is ART and RECENTLY_ART_FILTER is ART_BKT. See RECENTLY_ART_FILTER property for detailed description of this art filter and sample image.

Property Value

Property Value	Description
OFF	Disable Partcolor filter in art filter bracketing.
ON	Enable Partcolor filter in art filter bracketing.

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
					OK				

e. Support**Battery Level**[Back to TOP](#)**Name and Function**

Property Name	Function
BATTERY_LEVEL	Battery level

Property Value

Property Value		Description
UNKNOWN		Not Detected
CHARGE		Charging
EMPTY		Battery Empty
WARNING		Battery Level Warning
LOW		Low Battery
FULL		Fully Charged
EMPTY_AC		Battery Empty with Power Supply
SUPPLY_WARNING		Battery Level Warning with Power Supply
SUPPLY_LOW		Low Battery with Power Supply
SUPPLY_FULL		Fully Charged with Power Supply

Access Permission

Read Only

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

Face Detection[Back to TOP](#)**Name and Function**

Property Name	Function
FACE_SCAN	Camera detects faces automatically, and perform focusing and Digital ESP (Electro-Selective Pattern) metering.

Property Value

Property Value	Description
FACE_SCAN_OFF	Disables face priority auto focus.
FACE_SCAN_ON	Enables face priority auto focus. Performs auto focus at face-detected point.
FACE_SCAN_NEAR	Enables auto focus with near eye detection.

Access Permission

Read/Write

Supported Shooting Mode

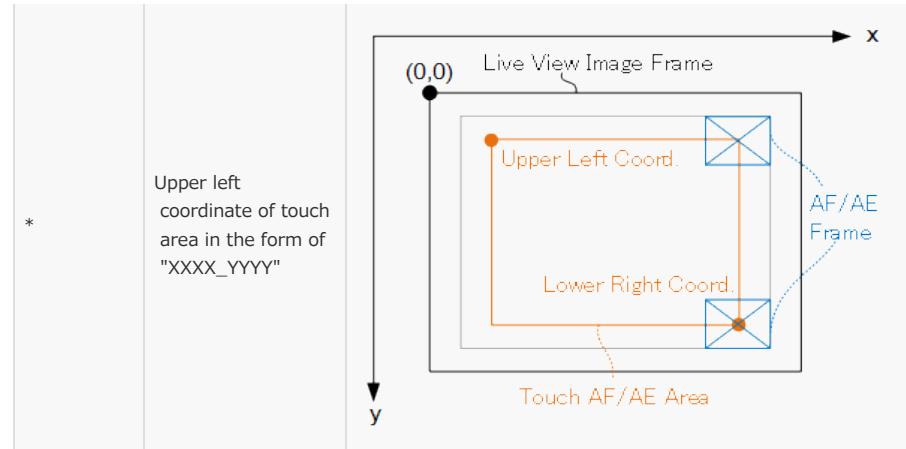
iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
	OK	OK	OK	OK	OK	OK	OK	OK	OK

AF Touch Area (Upper-Left)[Back to TOP](#)**Name and Function**

Property Name	Function
TOUCH_EFFECTIVE_AREA_UPPER_LEFT	Upper-left coordinate of valid area on live view image to specify auto focus point.

Property Value

Property Value	Description	Coordinate System

**Access Permission**

Read Only

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

AF Touch Area (Lower-Right)[Back to TOP](#)**Name and Function**

Property Name	Function
TOUCH_EFFECTIVE_AREA_LOWER_RIGHT	Lower-right coordinate of valid area on live view image to specify auto focus point.

Property Value

Property Value	Description	Coordinate System
*	Lower right coordinate of touch area in the form of "XXXX_YYYY"	

Access Permission

Read Only

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

Image Preview[Back to TOP](#)**Name and Function**

Property Name	Function
RECVIEW	Toggles generation of preview image after taking picture.

Property Value

Property Value		Description
ON		Generates preview image
OFF		Not generate preview image

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK				

Sound Volume[Back to TOP](#)**Name and Function**

Property Name		Function
SOUND_VOLUME_LEVEL		Volume level of system sounds including shutter and alarm.

Property Value

Property Value		Description
OFF		Muted
1		1
2		2
3		3
4		4
5		5 (Max Volume)

Access Permission

Read/Write

Supported Shooting Mode

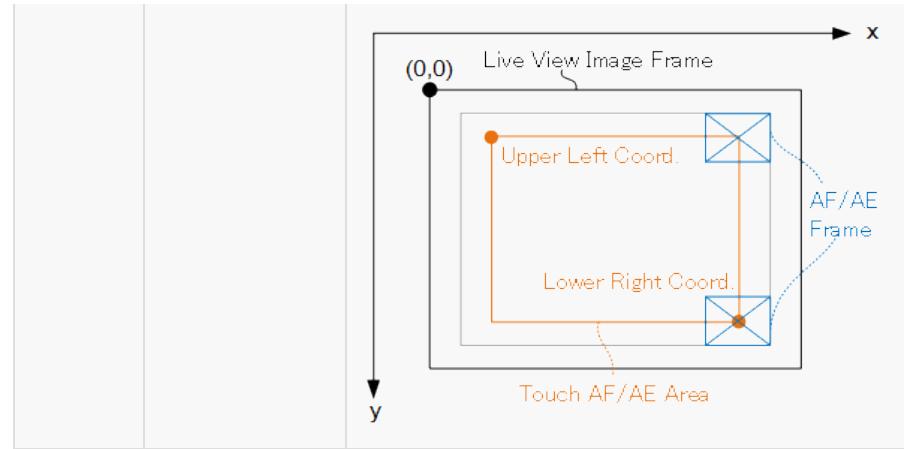
iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

AE Touch Area (Upper-Left)[Back to TOP](#)**Name and Function**

Property Name		Function
TOUCH_AE_EFFECTIVE_AREA_UPPER_LEFT		Upper-left coordinate of valid area on live view image to specify auto exposure point.

Property Value

Property Value	Description	Coordinate System
*	Upper left coordinate of touch area in the form of "XXXX_YYYY"	

**Access Permission**

Read Only

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

AE Touch Area (Lower-Right)[Back to TOP](#)**Name and Function**

Property Name	Function
TOUCH_AE_EFFECTIVE_AREA_LOWER_RIGHT	Lower-right coordinate of valid area on live view image to specify auto exposure point.

Property Value

Property Value	Description	Coordinate System
*	Lower right coordinate of touch area in the form of "XXXX_YYYY"	

Access Permission

Read Only

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

GPS Tagging[Back to TOP](#)**Name and Function**

Property Name	Function
	GPS Tagging

GPS	If turned ON, camera attaches geolocation information as EXIF tag to a captured still image after shooting. The geolocation information, which is generated by GPS sensor of mobile device, must be sent using API before shooting.
-----	---

Property Value

Property Value	Description
OFF	Disable GPS Tagging
ON	Enable GPS Tagging

Access Permission

Read/Write

Supported Shooting Mode

iAuto	P	A	S	M	ART	movie P	movie A	movie S	movie M
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

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Sample Capture App User Guide (iOS)

This document is an operation manual for ImageCaptureSample which uses OLYCameraKit for iOS. This document does not cover app installation or wireless connection between camera and mobile device.

Starting Application

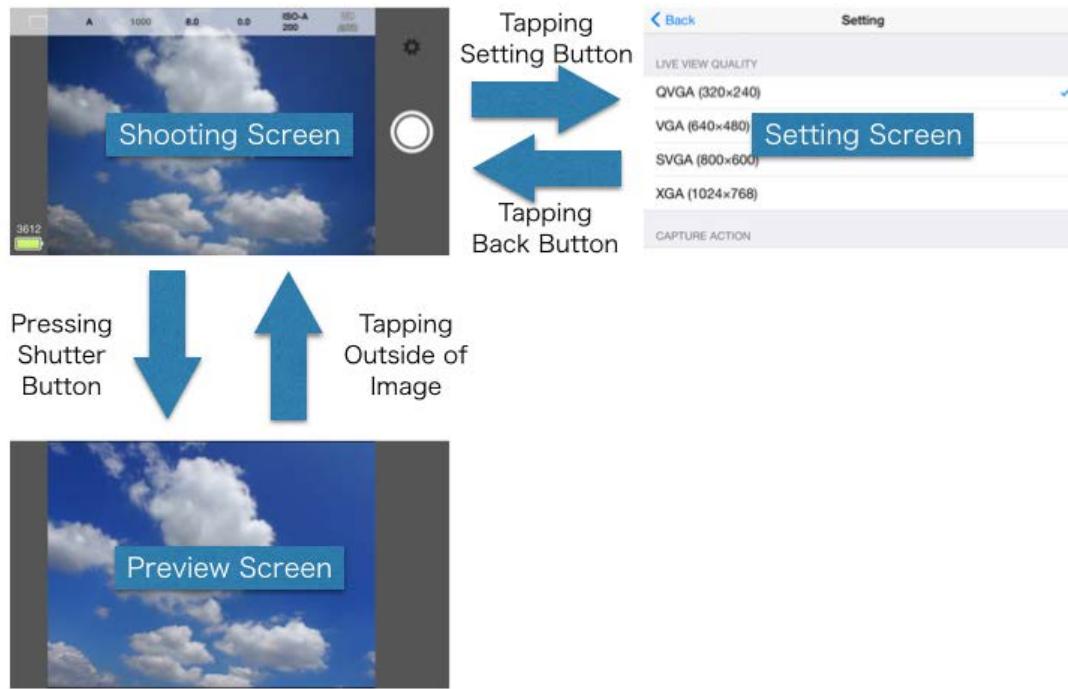
- Application will start by tapping icon of ImageCaptureSample in mobile device's home screen.
- Application starts communication with camera immediately after starting.
- Display of live view image will start.

Note) This application is designed for landscape orientation only. Rotation of the mobile device is not supported.

Terminating Application

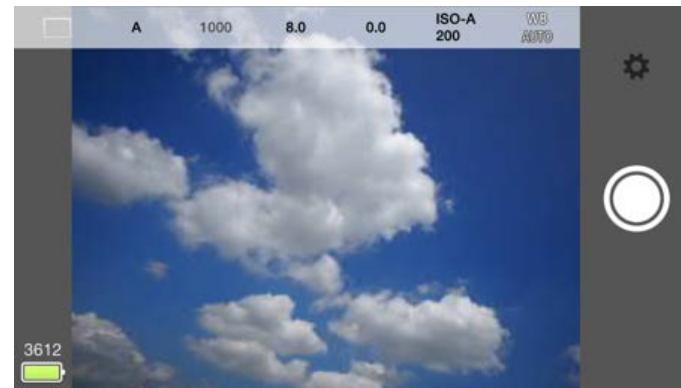
- Press home button.
- All communication stops when application terminates.

Screen Transition



Shooting Screen

- Can shoot still and movie image.
- Can shoot while watching live view image sent from camera in real time.



- Auto focus at tapped point in auto focus enabled area, which is smaller rectangle than live view image.
- Color of frame will be white during auto focus process.
- When auto focus succeeds, a beep sound is made and color of the frame becomes green.
- If auto focus fails, color of the frame becomes red.
- By tapping shutter button, camera shoots an image and shows taken image as a preview. In setting screen one can select whether to show preview image or not.
- Enter setting screen by tapping the setting button, which is above the shutter button.
- One can change shooting parameters by tapping menu bar displayed at top part of the screen. Following parameters can be changed from left to right.
 - Drive Mode
 - Single Shooting
 - Shoot one image each by pressing shutter button.
 - Continuous Shooting
 - Shoot images continuously while shutter button is pressed.
 - Shooting Mode
 - iAuto (Full Automatic Mode)
 - Cannot change shutter speed, lens aperture, exposure compensation, ISO sensitivity, or white balance mode.
 - P (Program Auto Exposure Mode)
 - Cannot change shutter speed or lens aperture.
 - A (Aperture Priority Auto Exposure)
 - Cannot change shutter speed.
 - S (Shutter Priority Auto Exposure)
 - Cannot change lens aperture.
 - M (Manual Mode)
 - Cannot change exposure compensation.
 - Movie (Movie Capture Mode)
 - Start taking movie by tapping shutter button. Stop taking movie by pressing shutter button again.
 - Color of shutter button will be gray when shooting movie.
 - Shutter Speed Value
 - Shutter speed value (set by user or camera) will be displayed in menu bar.
 - Lens Aperture Value
 - Lens aperture value (set by user or camera) will be displayed in menu bar.
 - Exposure Compensation Value + Exposure compensation value (set by user or camera) will be displayed in menu bar.
 - White Balance Mode
 - Selected white balance mode will be displayed in menu bar.

- ISO Sensitivity Value
 - When AUTO is selected, ISO sensitivity value set by camera and text ISO-A will be displayed in menu bar.
 - Otherwise, ISO sensitivity value will be displayed in menu bar.
- When long exposure value is set to camera, live view is not updated on screen after pressing shutter button during exposure time.
- Status will be displayed at lower left part of screen. Following status is displayed from top to bottom.
 - Number of images that can fit in remaining memory
 - Charge of camera battery (%)
- Alert will be displayed if application fails to communicate with camera. In such case, terminate application by pressing home button, check Wi-Fi connection, and restart application by tapping icon.

Preview Screen

- Displays captured image.
- Go back to shooting screen by tapping area outside preview image.



Setting Screen

- Current application settings are displayed.

Setting	
LIVE VIEW QUALITY	
QVGA (320x240)	<input checked="" type="checkbox"/>
VGA (640x480)	<input type="checkbox"/>
SVGA (800x600)	<input type="checkbox"/>
XGA (1024x768)	<input type="checkbox"/>
CAPTURE ACTION	
CAPTURE ACTION	
Show Preview	<input checked="" type="checkbox"/>
CAMERA CONTROL	
Power Off	Power Off
SDK VERSION	
1.0 (20140623)	<input type="checkbox"/>

- Can view and change following settings.

- Live View Quality
 - Select image size (quality) of live view image.
 - Lower resolution images (settings toward QVGA) have higher frame rate.
 - Higher resolution images (setting toward XGA) have lower frame rate.
 - Show Preview
 - By selecting ON, preview image will be displayed after shooting.
 - By selecting OFF, preview image will not be displayed after shooting.
 - Power Off
 - Can turn off power to the camera by tapping.
 - SDK Version
 - Shows version of SDK that the application is using.
- Parameters will be saved to application by pressing back button on top.

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Sample Capture App User Guide (Android OS)

This document is an operation manual for ImageCaptureSample which uses OLYCameraKit for Android OS. This document does not cover app installation or wireless connection between camera and mobile device.

Starting Application

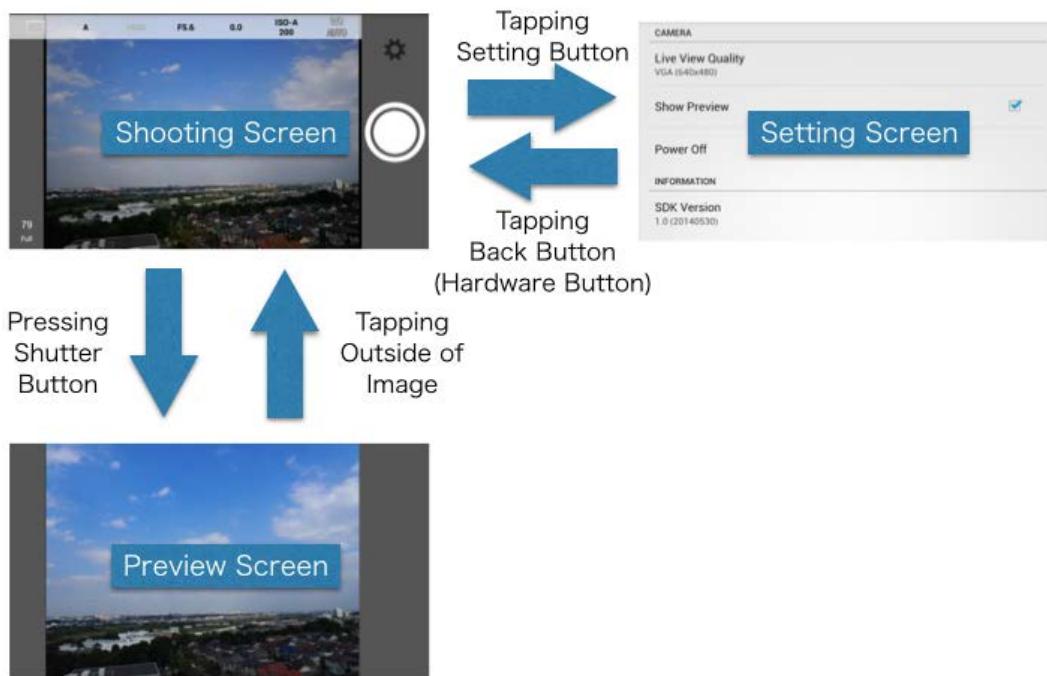
- Application will start by tapping icon of ImageCaptureSample in mobile device's home screen.
- Application starts communication with camera immediately after starting.
- Display of live view image will start.

Note) This application is designed for landscape orientation only. Rotation of the mobile device is not supported.

Terminating Application

- Press home button or back button.
- All communication stops when application terminates.

Screen Transition



Shooting Screen

- Can shoot still and movie image.
- Can shoot while watching live view image sent from camera in real time.



- Auto focus at tapped point in auto focus enabled area, which is smaller rectangle than live view image.
- Color of frame will be white during auto focus process.
- When auto focus succeeds, a beep sound is made and color of the frame becomes green.
- If auto focus fails, color of the frame becomes red.
- By tapping shutter button, camera shoots an image and shows taken image as a preview. In setting screen one can select whether to show preview image or not.
- Enter setting screen by tapping the setting button, which is above the shutter button.
- One can change shooting parameters by tapping menu bar displayed at top part of the screen. Following parameters can be changed from left to right.
 - Drive Mode
 - Single Shooting
 - Shoot one image each by pressing shutter button. + Continuous Shooting
 - Shoot images continuously while shutter button is pressed.
 - Shooting Mode
 - iAuto (Full Automatic Mode)
 - Cannot change shutter speed, lens aperture, exposure compensation, ISO sensitivity, or white balance mode.
 - P (Program Auto Exposure Mode)
 - Cannot change shutter speed or lens aperture.
 - A (Aperture Priority Auto Exposure)
 - Cannot change shutter speed.
 - S (Shutter Priority Auto Exposure)
 - Cannot change lens aperture.
 - M (Manual Mode)
 - Cannot change exposure compensation.
 - Movie (Movie Capture Mode)
 - Start taking movie by tapping shutter button. Stop taking movie by pressing shutter button again.
 - Color of shutter button will be gray when shooting movie.
 - Shutter Speed Value
 - Shutter speed value (set by user or camera) will be displayed in menu bar.
 - Lens Aperture Value
 - Lens aperture value (set by user or camera) will be displayed in menu bar.
 - Exposure Compensation Value + Exposure compensation value (set by user or camera) will be displayed in menu bar.
 - White Balance Mode
 - Selected white balance mode will be displayed in menu bar.

- ISO Sensitivity Value
 - When AUTO is selected, ISO sensitivity value set by camera and text ISO-A will be displayed in menu bar.
 - Otherwise, ISO sensitivity value will be displayed in menu bar.
- When long exposure value is set to camera, live view is not updated on screen after pressing shutter button during exposure time.
- Status will be displayed at lower left part of screen. Following status is displayed from top to bottom.
 - Number of images that can fit in remaining memory
 - Charge of camera battery (%)
- Alert will be displayed if application fails to communicate with camera. In such case, terminate application by pressing home button, check Wi-Fi connection, and restart application by tapping icon.

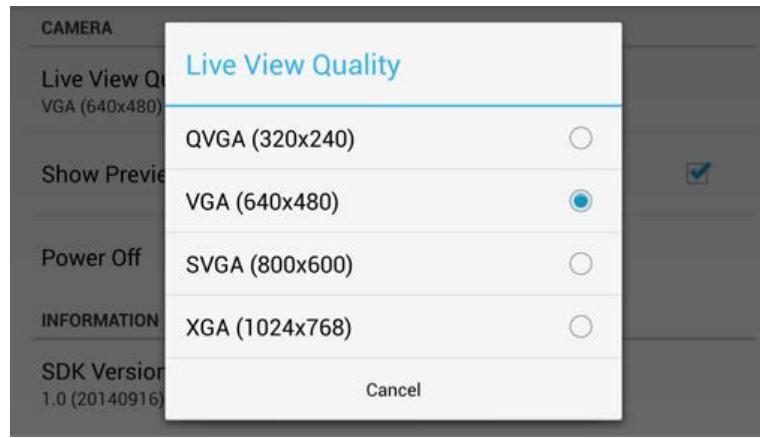
Preview Screen

- Displays captured image.
- Go back to shooting screen by tapping area outside preview image.



Setting Screen

- Current application settings are displayed.



- Can view and change following settings.
 - Live View Quality
 - Select image size (quality) of live view image.
 - Lower resolution images (settings toward QVGA) have higher frame rate.
 - Higher resolution images (setting toward XGA) have lower frame rate.
 - Show Preview
 - By selecting ON, preview image will be displayed after shooting.
 - By selecting OFF, preview image will not be displayed after shooting.
 - Power Off
 - Can turn off power to the camera by tapping.
 - SDK Version
 - Shows version of SDK that the application is using.
- Parameters will be saved to application by pressing back button (hardware button).

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Sample Viewer App User Guide (iOS)

This document is an operation manual for ImageViewerSample which uses OLYCameraKit for iOS. This document does not cover app installation or wireless connection between camera and mobile device.

Starting Application

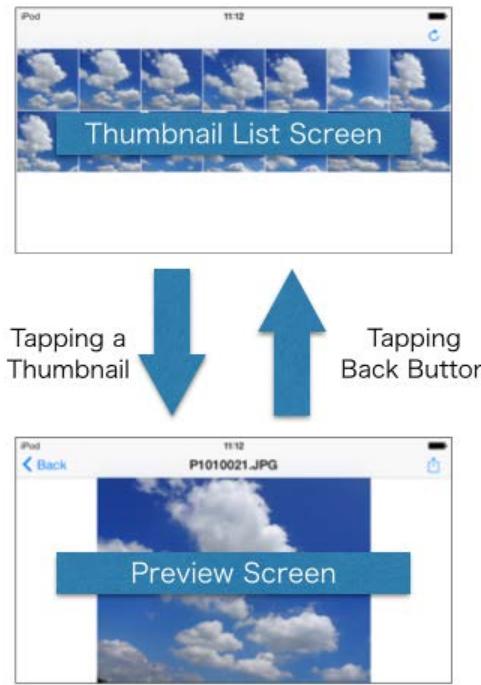
- Application will start by tapping icon of ImageViewerSample in mobile device's home screen.
- Application starts communication with camera immediately after starting.
- You can see thumbnail images downloaded from the camera memory.

Note) This application is designed for landscape orientation only. Rotation of the mobile device is not supported.

Terminating Application

- Push home button.
- When the application exits, connection between mobile device and the camera is closed.

Screen Transition



Thumbnail List Screen

- This screen shows thumbnails of images in camera's memory card (under DCIM folder).



- Only still images are shown. Thumbnails of movies are not shown here.
- The images are sorted by date taken.
- Images are reloaded by tapping “reload icon” on top of the screen.
- If an image is tapped, the application moves to Preview Screen.

Preview Screen

- The image selected in “Thumbnail List Screen” is previewed.



- Name of file is shown on top of the screen.
 - You can change the image’s scale by pinching. The magnitude of zoom is varied between the original size and fit-to-screen size. Double tap to toggle between the original size and fit-to-screen size.
 - A list of image sizes appears by tapping “save icon” on top of the screen. You can select one of the image sizes listed below.
- Original Size
 - 2048×1536
 - 1920×1440
 - 1600×1200
 - 1024×768



- Tap an image size to transfer that sized image from the camera to the mobile device’s Camera Roll.
- A message is shown after the image is transferred.
- To move to Thumbnail List Screen, tap the back button on the top of screen.

In Case of Communication Error

- An alert is displayed when a communication error occurs between camera and mobile device.
- When alert is displayed, check the communication settings of OS and restart application.

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Sample Viewer App User Guide (Android OS)

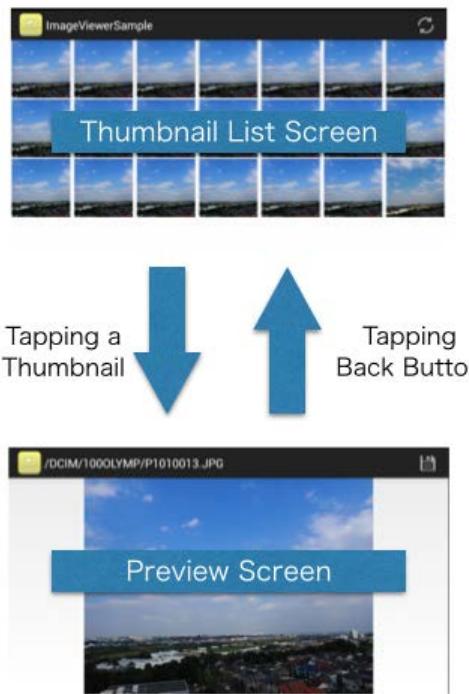
This document is an operation manual for ImageViewerSample which uses OLYCameraKit for Android OS. This document does not cover app installation or wireless connection between camera and mobile device.

Starting Application

- Application will start by tapping icon of ImageViewerSample in mobile device's home screen.
- Application starts communication with camera immediately after starting.
- You can see thumbnail images downloaded from the camera memory.

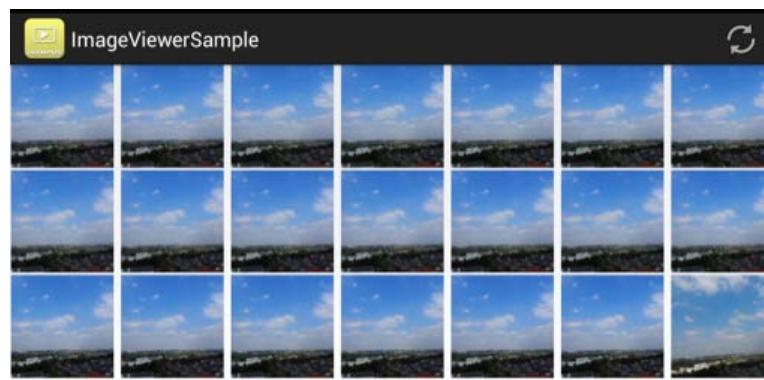
Note) This application is designed for landscape orientation only. Rotation of the mobile device is not supported.

Screen Transition



Thumbnail List Screen

- This screen shows thumbnails of images in camera's memory card (under DCIM folder).



- Only still images are shown. Thumbnails of movies are not shown here.
- The images are sorted by date taken.
- Images are reloaded by tapping “reload icon” on top of the screen.
- If an image is tapped, the application moves to Preview Screen.

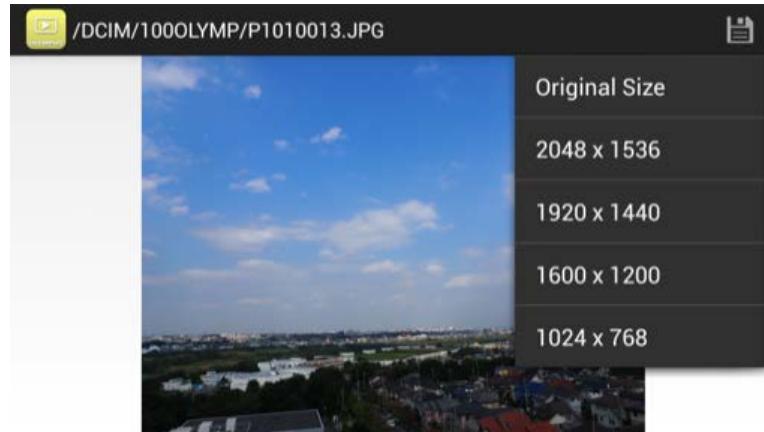
Preview Screen

- The image selected in “Thumbnail List Screen” is previewed.



- Name of file is shown on top of the screen.
- You can change the image’s scale by pinching. The magnitude of zoom is varied between the original size and fit-to-screen size. Double tap to toggle between the original size and fit-to-screen size.
- A list of image sizes appears by tapping “save icon” on top of the screen. You can select one of the image sizes listed below.

- Original Size
- 2048×1536
- 1920×1440
- 1600×1200
- 1024×768



- Tap an image size to transfer that sized image from the camera to the mobile device’s memory card. The downloaded image is stored under /DCIM/ImageViewerSample directory.
- A message is shown after the image is transferred.

- To move to Thumbnail List Screen, tap the back button (hardware button).

In Case of Communication Error

- An alert is displayed when a communication error occurs between camera and mobile device.
- When alert is displayed, check the communication settings of OS and restart application.

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Frequently Asked Questions

Communication

How does OLYCameraKit (SDK) communicate with the camera?

- Communicates through Wi-Fi.

Can SDK connect to multiple mobile devices simultaneously? Can multiple SDK connect to the camera simultaneously?

- No. Only one-to-one connection is supported.

Can the camera connect to a router in station mode?

- No.

Supported Platforms

What OS are supported?

- iOS and Android OS.

Which version is supported for iOS and Android?

- See "Operation Requirements" section in "SDK Package" page.

Does OLYCameraKit support PC?

- No.

Operation Environment

Can the camera be controlled from mobile device simulator?

- Yes, iOS and Android simulators can connect to and control the camera.

Is a wired connection possible while iOS and Android simulator runs?

- No. Simultaneous connection is not possible.

Shoot and Save

Where is the captured image saved?

- Saved to memory card inserted to the camera.
- When the drive mode is normal (single-frame shooting), the camera reserves the last picture. The picture can be transmitted through Wi-Fi connection.

How can one delete images or movies?

- Connect the camera using USB cable and delete it from PC.

Can the camera record a movie?

- Yes.

Can multiple art filters be applied at the same time?

- No. One type of art filter can be applied at shooting.

Can the camera detect its position?

- Yes. The camera detects orientation, pitch angle, and roll angle. You can access this data through OLYCameraKit. (iOS: levelGauge property, Android: getLevelGauge() method)

Misc

Does SDK notify an event after shutter button of the camera is pushed?

- Yes. See API reference for details.

How is an application developed?

- See "Getting Started" guide before starting development.

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Guidelines for Handling Event Notifications

The camera sends a notification to application when processing status or camera status changes. This change is called an “event”. Events are asynchronous notifications, which mean events occur regardless of application status. Application can continue processing while waiting for a notification. Application does not need to handle all event notifications from the camera. However, proper event handling creates better user experiences for your application.

There are two cases where the camera issues an event.

1. Change in status of camera itself regardless of API method called by user
2. Change in progress of processing according to API method called by user

1. Event of status of camera itself

The camera notifies the change of status of itself regardless of API method called by user.

Category 1

- Generated captured image or preview image
- Stopped driving zoom lens
- Disconnected network
- Updated live view image
- Updated result of focusing
- Stopped recording movie due to the camera, e.g., media has no capacity to record.

Category 2

- Updated camera property

Category 3

- Status of media was changed, e.g., remaining media capacity, mount status, and access status.
- Status of lens was changed, e.g., focal length.
- Updated shooting parameter
- Detected face
- Updated status of level gauge
- Reached high temperature
- Entered extended ISO range
- Could not decide exposure parameter corresponding to exposure value
- Subject was too bright or too dark to measure

iOS

Category 1

- Implement a protocol corresponding to an event you would like to receive, and the following delegate method notifies the event.
- See API reference for more details.

Protocol	Delegate Method	Event
OLYCameraRecordingSupportsDelegate	camera:didReceiveCapturedImage(Preview):metadata:	Generated captured image or preview image
OLYCameraRecordingSupportsDelegate	cameraDidStopDrivingZoomLens:	Stopped driving zoom lens
OLYCameraConnectionDelegate	camera:disconnectedByError:	Disconnected network
OLYCameraLiveViewDelegate	camera:didUpdateLiveView:	Updated live view image

OLYCameraRecordingDelegate	camera:didChangeAutoFocusResult:	Updated result of focusing
OLYCameraRecordingDelegate	cameraDidStopRecordingVideo:	Stopped recording movie due to the camera

Category 2

- Implement OLYCameraPropertyDelegate protocol to monitor change of camera property, and the following delegate method notifies updated property.
- See API reference for more details.

Protocol	Delegate Method	Event
OLYCameraPropertyDelegate	camera:didChangeCameraProperty:	Updated camera property

- Note that the camera does not notify of all changes to camera properties.
- Event is notified when camera property itself is updated or when the range of property values changes.
- The table below shows major properties to be notified upon update or notification timing.

Camera Property	Notification Timing
BATTERY_LEVEL	Battery power fell below a threshold.
SHUTTER	Range of property value was changed. Upper limit of shutter speed changes according to ISO sensitivity.
APERTURE	Range of property value was changed. Maximum aperture value changes according to zoom factor.
EXPREV	Range of property value was changed. +-5EV for still images, +-3EV for movies.
AF_LOCK_STATE	Auto focus lock was released.
AE_LOCK_STATE	Auto exposure lock was released.
FOCUS_STILL, FOCUS_MOVIE	Focus mode was changed by sliding focus ring of lens that supports snapshot focus.

Category 3

- SDK provides no interface to notify events in this category directly.
- Instead SDK has Objective-C property to retain information on camera status. Application can detect event using Key-Value Observing to monitor corresponding Objective-C property.
- The table below shows Objective-C property corresponding to the event in this category.

Objective-C Property	Category of OLYCamera Class	Notification Timing
mediaMountStatus	CameraSystem	Status of media was changed
mediaBusy	CameraSystem	
mediaError	CameraSystem	
remainingImageCapacity	CameraSystem	
remainingVideoCapacity	CameraSystem	
lensMountStatus	CameraSystem	Status of lens was changed
actualFocalLength	Recording	
minimumFocalLength	Recording	
maximumFocalLength	Recording	
actualAutoFocusPoint	Recording	Updated shooting parameter
actualApertureValue	Recording	
actualShutterSpeed	Recording	
actualExposureCompensation	Recording	
actualIsoSensitivity	Recording	
detectedHumanFaces	RecordingSupports	Detected face

digitalSpiritLevel	RecordingSupports	Updated status of level gauge
highTemperatureWarning	CameraSystem	Reached high temperature
actualIsoSensitivityWarning	Recording	Entered extended ISO range. Image taken in the extended ISO range may not meet a certain standard of quality.
exposureWarning	Recording	Could not decide exposure parameter corresponding to exposure value
exposureMeteringWarning	Recording	Subject was too bright or too dark to measure

NOTE) Objective-C property is totally different from camera property to configure camera settings.

Android

Category 1

- Implement listener interface corresponding to an event you would like to receive, and the following event handler method notifies the event.
- See API reference for more details.

Listener Interface	Handler Method	Event
OLYCamera.RecordingSupportsListener	onReceiveCapturedImage(Preview)	Generated captured image or a preview image
OLYCamera.RecordingSupportsListener	onStopDrivingZoomLens	Stopped driving zoom lens
OLYCamera.ConnectionListener	onDisconnectedByError	Disconnected network
OLYCamera.LiveViewListener	onUpdateLiveImage	Updated live view image
OLYCamera.RecordingListener	onChangeAutoFocusResult	Updated result of focusing
OLYCamera.RecordingListener	onStopRecordingVideo	Stopped recording movie due to the camera

Category 2

- Implement OLYCameraPropertyListener interface to monitor change to camera property, and the following event handler method notifies updated property.
- See API reference for more details.

Listener Interface	Handler Method	Event
OLYCameraPropertyListener	onUpdateCameraProperty	Updated camera property

- Note that the camera does not notify of all changes to camera properties.
- Event is notified when camera property itself is updated or when the range of property values changes.
- The table below shows major properties to be notified upon update or notification timing.

Camera Property	Notification Timing
CAMERA_PROPERTY_BATTERY_LEVEL	Battery power fell below a threshold.
CAMERA_PROPERTY_SHUTTER	Range of property value changed. Upper limit of shutter speed changes according to ISO sensitivity.
CAMERA_PROPERTY_APERTURE	Range of property value changed. Maximum aperture value changes according to zoom factor.
CAMERA_PROPERTY_EXPREV	Range of property value changed. +-5EV for still images, +-3EV for movies.
CAMERA_PROPERTY_AF_LOCK_STATE	Auto focus lock was released.
CAMERA_PROPERTY_AE_LOCK_STATE	Auto exposure lock was released.
CAMERA_PROPERTY_FOCUS_STILL CAMERA_PROPERTY_FOCUS_MOVIE	Focus mode was changed by sliding focus ring of lens which supports snapshot focus.

Category 3

- Implement OLYCameraStatusListener interface to monitor changes to camera status in this category, and the following event handler method notifies updated status.

See API reference for more details.

Listener Interface	Handler Method	Event
OLYCameraStatusListener	onUpdateStatus	Updated camera status

- The table below shows the name of camera status corresponding to notified event and methods to acquire camera status.

Camera Status to be notified	Get Method in OLYCamera Class	Notification Timing
MediaMountStatus	getMediaMountStatus	Status of media was changed
MediaBusy	isMediaBusy	
MediaError	isMediaError	
RemainingImageCapacity	getRemainingImageCapacity	
RemainingVideoCapacity	getRemainingVideoCapacity	
LensMountStatus	getLensMountStatus	Status of lens was changed
ActualFocalLength	getActualFocalLength	
MinimumFocalLength	getMinimumFocalLength	
MaximumFocalLength	getMaximumFocalLength	
ActualAutoFocusPoint	getActualAutoFocusPoint	Updated shooting parameter
ActualApertureValue	getActualApertureValue	
ActualShutterSpeed	getActualShutterSpeed	
ActualExposureCompensation	getActualExposureCompensation	
ActualIsoSensitivity	getActualIsoSensitivity	
DetectedHumanFaces	getDetectedHumanFaces	Detected face
LevelGauge	getLevelGauge	Updated status of level gauge
HighTemperatureWarning	isHighTemperatureWarning	Reached high temperature
ActualIsoSensitivityWarning	isActualIsoSensitivityWarning	Entered extended ISO range. Image taken in the extended ISO range may not meet a certain standard of quality.
ExposureWarning	isExposureWarning	Could not decide exposure parameter corresponding to exposure value
ExposureMeteringWarning	isExposureMeteringWarning	Subject was too bright or too dark to measure

2. Event of progress of processing

- There are some cases where the camera notifies application of an event according to the status and progress of processing.
- Following three kinds of event handlers are called according to event.
- Each method handles 0–3 events according to its function.

Event	iOS	Android	Notification Timing
Progress Notification	progressHandler	onProgress	Called once or multiple times according to the progress of processing.
Completion Notification	completionHandler	onCompleted	Called when process is finished. Result of processing is provided simultaneously in a general case.
Error Notification	errorHandler	onErrorOccurred	Called only when error occurs. Never called when the camera works normally.

Handler for Progress Notification

- Called once or multiple times according to the progress of processing.

Example: Taking Picture

- Method to take picture handles the following progress notification
 - iOS: `takePicture:progressHandler:completionHandler:errorHandler:`
 - Android: `takePicuture(HashMap< String, Object >, OnTakePictureListener)`

Progress Notification	iOS (enum <code>OLYCameraTakingProgress</code>)	Android (enum <code>TakingProgress</code>)
Start Auto Focusing	<code>OLYCameraTakingProgressBeginFocusing</code>	<code>BeginFocusing</code>
Finish Auto Focusing	<code>OLYCameraTakingProgressEndFocusing</code>	<code>EndFocusing</code>
Ready to Capture	<code>OLYCameraTakingProgressReadyCapturing</code>	<code>ReadyCapturing</code>
Start Capturing Streaming live view pauses immediately after this event occurs. Event to notify pausing live view is not delivered.	<code>OLYCameraTakingProgressBeginCapturing</code>	<code>BeginCapturing</code>
Finish Capturing Streaming live view resumes immediately after this event occurs. Event to notify resuming live view is not delivered.	<code>OLYCameraTakingProgressEndCapturing</code>	<code>EndCapturing</code>
Finish Taking Picture	<code>OLYCameraTakingProgressFinished</code>	<code>Finished</code>

Example of User Interface according to Progress Notification

Here is an example of user interface for your application when receiving progress notification.

Progress Notification	User Interface Example
Start Auto Focusing	Do nothing. If AF frame is set for touch AF etc., keep AF frame displayed in the same position.
Finish Auto Focusing	Draw AF frame at the focusing point. If focusing succeeded, frame color should change to green. Otherwise, red. Play sound effect according to the result of focusing.
Ready to Capture	Do nothing.
Start Capturing	Play sound effect of shutter. Disable shutter operation, and change display to inform disabled status. Overlay translucent colored layer over live view image for example. Then display information to notify taking picture is in progress. Show animated icon or indicator for example.
Finish Taking Picture	Do nothing. Next operation is enabled.

Handler for Completion Notification

Called when process is finished. Result of processing is provided simultaneously in a general case. See API reference for more details.

Handler for Error Notification

Called only when error occurs. Never called when the camera works normally. The following are major cases where error notification is handled.

- Network is disconnected.
- Specified mode is invalid.
- Specified parameter is invalid.
- Received a control command when the same command is being executed.
- Processing failed, e.g., event to be notified cannot be received.

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<p>▼ OLYCameraKit</p> <p>▶ Classes</p> <p>▶ Modules</p>	<p>Summary</p> <p>OLYCameraKit is a software development kit for Olympus wireless cameras.</p> <p>Using the OLYCameraKit, you can easily create applications that control the camera wirelessly.</p> <p>Outline</p> <ul style="list-style-type: none">• The following classes are available to fetch information and control a connected camera.<ul style="list-style-type: none">◦ OLYCamera• The following protocols are available to receive or notify change in status of camera or wireless network.<ul style="list-style-type: none">◦ OLYCameraConnectionDelegate ... Receive state of the communication channel when it changes.◦ OLYCameraLiveViewDelegate ... Notify state of live view image when it changes.◦ OLYCameraPropertyDelegate ... Receive state of property values or a list of property values when it changes.◦ OLYCameraRecordingDelegate ... Notify camera state when it changes. The camera state is regarding capturing operation which affects still image or movie.◦ OLYCameraRecordingSupportsDelegate ... Notify camera state when it changes. The camera state is regarding capturing operation which do not affect still image or movie.• The class to output error code and log is available for debugging your application. <p>How to use</p> <p>Establish Wi-Fi connection between camera and mobile device in setting screen of the mobile device. Connect to the camera with the SDK after checking settings for communication with the camera. There is no need to change the communication settings usually.</p> <p>The camera has several run modes. Available functions are different in each mode. The camera is set to standalone mode after the connection is established between camera and mobile device.</p> <p>For recording movie or photograph: Connect to the camera, change to recording mode, set drive and shooting modes, call start capturing and then end capturing.</p> <p>When finished using the camera, the application needs to explicitly disconnect from the camera. If the application supports multitasking, please follow this procedure: Application disconnects from the camera when entering background mode and connects to the camera again when entering foreground mode. This allows other applications to use the camera when the application does not use the camera.</p>			

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Summary

OLYCameraKit is a software development kit for Olympus wireless cameras.

Using the OLYCameraKit, you can easily create applications that control the camera wirelessly.

Outline

- The following classes are available to fetch information and control a connected camera.
 - [OLYCamera](#)
- The following interfaces are available to receive or notify change in status of camera or wireless network.
 - [OLYCameraConnectionListener](#) ... Receive state of the communication channel when it changes.
 - [OLYCameraPropertyListener](#) ... Receive state of property values or a list of property values when it changes.
 - [OLYCameraStatusListener](#) ... Receive changes in camera state.
 - [OLYCameraPlaybackListener](#) ... Receive camera state regarding playback operation when it changes.
 - [OLYCameraRecordingListener](#) ... Notify camera state when it changes. The camera state is regarding capturing operation which affects still image or movie.
 - [OLYCameraRecordingSupportsListener](#) ... Notify camera state when it changes. The camera state is regarding capturing operation which do not affect still image or movie.
- The following classes are available to record still image or movie.
 - [OLYCameraAutoFocusResult](#) ... Focusing result of auto focus.
 - [OLYCameraLiveViewListener](#) ... Notify state of live view image when it changes.
- The following class is available to handle information of recorded media (still image and movie).
 - [OLYCameraFileInfo](#) ... Store attributes of media file and directory such as name, size and update time.
- The class to output error code and log is available for debugging your application.

How to use

First, please connect to the camera using SDK after performing the settings for communication with the camera. (There is no need to change the communication settings usually.) Please establish a connection with the camera and smartphone via Wi-Fi by application or user before calling the above procedure.

The camera has several run modes. The available functions are different in each mode. It is set in the stand-alone mode is just connected to the camera. To movie recording or photographed: Connect to the camera, change to recording mode, set the drive mode and shooting mode, call the capturing start and then end of capturing.

When using the camera is unnecessary, application need to disconnect SDK from the camera explicitly. If application supports multitasking, please be in such a mechanism: Application disconnects from the camera when enters in the background mode and so connect to the camera again when enters in the foreground mode. So that other applications can use the camera when application does not use the camera.

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OLYCamera Class Reference

Overview

Olympus camera class.

This class provides the operation and display of live view, including content acquisition in the camera and capturing of still images and recording movies by connecting to the camera. This class has several categories.

Please refer to each category for details of the interface.

- [OLYCamera\(CameraConnection\)](#)
 - This is camera communication category of Olympus camera class. This category provides the connection and disconnection to the camera.
- [OLYCamera\(CameraSystem\)](#)
 - This is camera system category of Olympus camera class. This category enables one to get or set the camera settings (Camera property) and change run mode.
 - For example, The application can get or set the following camera properties:
 - Basic settings (aperture value, shutter speed, and exposure mode, etc.)
 - Color tone and finish setting (white balance, art filter, etc.)
 - Focus settings (focus mode, such as focus lock)
 - Image quality and saving settings (image size, compression ratio, image quality mode, etc.)
 - Camera status (battery level, angle of view, etc.)
 - Recording auxiliary (face detection and sound volume level, etc.)
 - Please refer to the list of camera properties for more information.
- [OLYCamera\(Maintenance\)](#)
 - This is maintenance category of Olympus camera class.
 - This category provides no function and is reserved for future expansion.
- [OLYCamera\(Playback\)](#)
 - This is playback category of Olympus camera class.
 - This category can download and edit video and still images saved in the camera.
- [OLYCamera\(PlaybackMaintenance\)](#)
 - This is playback auxiliary category of Olympus camera class.
 - This category provides no function and is reserved for future expansion.
- [OLYCamera\(Recording\)](#)
 - This is recording category of Olympus camera class. This category takes still pictures and records video, exposure control, and focus control.
- [OLYCamera\(RecordingSupports\)](#)
 - This is recording auxiliary category of Olympus camera class. This category provides zoom control and live view image display.

Several functions are provided for the vendor. These are not available in third party applications.

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<OLYCameraConnectionDelegate>

Protocol Reference

Overview

The delegate to receive change to communication state of the camera.

Instance Methods

(void) - [camera:disconnectedByError:](#)
Notify that connection to the camera was lost by error. [More...](#)

Method Documentation

- (void) **camera: (OLYCamera *) camera**
disconnectedByError: (NSError *) error optional

Notify that connection to the camera was lost by error.

Parameters

camera Instance that has lost a communication path with the camera.

error Error contents.

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<OLYCameraLiveViewDelegate>

Protocol Reference

Overview

Delegate to notify state of live view image when it changes.

Instance Methods

(void) - [camera:didUpdateLiveView:metadata:](#)
 Notify that image for live view is updated. [More...](#)

Method Documentation

```
- (void) camera: (OLYCamera *) camera
didUpdateLiveView: (NSData *) data
metadata: (NSDictionary *) metadata
```

optional

Notify that image for live view is updated.

The application can be updated in real time live view by using an image that has been attached to this notice.

Parameters

camera Instance that detects change in live view.

data Image of the new live view.

metadata Metadata of the image of the new live view.

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<OLYCameraPropertyDelegate> Protocol Reference

Overview

Delegate to receive when the camera property changes.

Instance Methods

(void) - [camera:didChangeCameraProperty:](#)

Notify that the list of camera property value or camera property value is updated. [More...](#)

Method Documentation

- (void) camera: ([OLYCamera](#) *) **camera**
didChangeCameraProperty: ([NSString](#) *) **name**

optional

Notify that the list of camera property value or camera property value is updated.

Parameters

camera Instances indicating change of camera property.

name Name of the camera property that has changed.

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<OLYCameraRecordingDelegate>

Protocol Reference

Overview

Delegate to notify camera state when it changes.

The camera state is regarding capturing operation which affects still image or movie.

Instance Methods

- (void) - [cameraDidStartRecordingVideo:](#)
Notify that recording was started from the camera side. [More...](#)
- (void) - [cameraDidStopRecordingVideo:](#)
Notify that recording was stopped from the camera side. [More...](#)
- (void) - [camera:didChangeAutoFocusResult:](#)
Notify result of auto focus when it changes. [More...](#)

Method Documentation

- (void) camera: ([OLYCamera](#) *) camera didChangeAutoFocusResult: ([NSDictionary](#) *) result optional

Notify result of auto focus when it changes.

Parameters

camera Instances it is detected that the focus result changes.

result Focusing result.

Focusing result is passed in dictionary format.

- [OLYCameraTakingPictureProgressInfoFocusResultKey](#) ... Focusing result.
 - "ok" ... In focus.
 - "ng" ... Did not focus.
 - "none" ... AF did not work. Lens is set to MF mode or does not support AF.
- [OLYCameraTakingPictureProgressInfoFocusRectKey](#) ... Rectangular coordinates for focus. Coordinates are in viewfinder coordinate system.

The application can convert the rectangular coordinates in live view image using the coordinate conversion utility [OLYCameraConvertRectOnViewfinderIntoLiveImage](#).

- (void) cameraDidStartRecordingVideo: ([OLYCamera](#) *) camera optional

Notify that recording was started from the camera side.

Parameters

camera Instance that detects the camera starts recording.

- (void) cameraDidStopRecordingVideo: ([OLYCamera](#) *) camera optional

Notify that recording was stopped from the camera side.

The following are possible causes.

- Recording time reaches specified time.
- Memory card becomes full during recording.

Parameters

camera Instance that detects the camera stops recording

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<OLYCameraRecordingSupportsDelegate> Protocol Reference

Overview

Delegate to notify camera state when it changes.

The camera state is regarding capturing operation which do not affect still image or movie.

Instance Methods

- (void) - [camera:didReceiveCapturedImagePreview:metadata:](#)
Notify that SDK receives preview image. [More...](#)
- (void) - [camera:didReceiveCapturedImage:](#)
Notify that SDK receives original size image after shooting. [More...](#)
- (void) - [cameraDidStopDrivingZoomLens:](#)
Notify that the driving of the optical zoom is stopped due to reasons on camera side. [More...](#)

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Method Documentation

- (void) **camera: (OLYCamera *) camera didReceiveCapturedImage: (NSData *) data** optional

Notify that SDK receives original size image after shooting.

This is notified at the end of the shot if camera property "DESTINATION_FILE" is set to "DESTINATION_FILE_WIFI". Please refer to the documentation of the list of camera properties for more information.

Parameters

camera Instance that receives image data.
image Captured image for storage.

- (void) **camera: (OLYCamera *) camera didReceiveCapturedImagePreview: (NSData *) data metadata: (NSDictionary *) metadata** optional

Notify that SDK receives preview image.

Application is notified when preview image generated and camera property "RECVIEW" is enabled. Please refer to the documentation of the list of camera properties for more information.

The preview image is generated after:

- Application starts shooting.
- User presses shutter button.

Parameters

camera Instance that receives the image.
image Captured image for preview.
metadata Metadata of captured image for preview.

There are cases where the following information is included in metadata with EXIF information.

- "detectversion" ... Reserved for vendor.
- "detectid" ... Reserved for vendor.

- (void) **cameraDidStopDrivingZoomLens: (OLYCamera *) camera** optional

Notify that the driving of the optical zoom is stopped due to reasons on camera side.

This may be caused by the lens reaching the maximum or minimum zoom before calling to stop optical zoom.

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Classes

Here are the classes and protocols with brief descriptions:

C <u>OLYCamera</u>	Olympus camera class
C <u>OLYCamera(CameraConnection)</u>	This is a camera communication category of Olympus camera class
C <u>OLYCamera(CameraSystem)</u>	This is a camera system category of Olympus camera class
C <u>OLYCamera(Maintenance)</u>	Maintenance category of Olympus camera class
C <u>OLYCamera(Playback)</u>	Playback category of Olympus camera class
C <u>OLYCamera(PlaybackMaintenance)</u>	Playback auxiliary category of Olympus camera class
C <u>OLYCamera(Recording)</u>	Recording category of Olympus camera class
C <u>OLYCamera(RecordingSupports)</u>	Recording auxiliary category of Olympus camera class
C <u><OLYCameraConnectionDelegate></u>	The delegate to receive change to communication state of the camera
C <u><OLYCameraLiveViewDelegate></u>	Delegate to notify state of live view image when it changes
C <u>OLYCameraLog</u>	Olympus camera SDK log management class
C <u><OLYCameraLogDelegate></u>	Delegate to receive log messages from Olympus camera SDK
C <u><OLYCameraPlaybackDelegate></u>	Delegate to receive camera state regarding playback operation when it changes
C <u><OLYCameraPropertyDelegate></u>	Delegate to receive when the camera property changes
C <u><OLYCameraRecordingDelegate></u>	Delegate to notify camera state when it changes
C <u><OLYCameraRecordingSupportsDelegate></u>	Delegate to notify camera state when it changes

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Here is a list of types, constants, and support functions:

[Types](#)

Type definition and enumerated types that are to be used by Olympus camera class

[Constants](#)

Constants referenced by Olympus camera class

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Support functions for Olympus camera class

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OLYCamera(CameraSystem) Category Reference

Overview

This is a camera system category of Olympus camera class.

This category gets or sets the camera settings (Camera property) and changes the run mode.

For example, the application can get or set the following camera properties:

- Basic settings (F value, shutter speed, and exposure mode, etc.)
- Color tone and finish settings (white balance, art filter, etc.)
- Focus settings (focus mode, such as focus lock)
- Image quality and saving settings (image size, compression ratio, image quality mode, etc.)
- Camera status (battery level, angle of view, etc.)
- Recording auxiliary (face detection, sound volume level, etc.)

Please refer to the camera list of properties for more information.

Instance Methods

(NSDictionary *) - inquireHardwareInformation:	Get hardware information of the camera. More...
(NSString *) - cameraPropertyTitle:	Get title of the camera property. More...
(NSArray *) - cameraPropertyValueList:error:	Get list of the camera property values that can be set. More...
(NSString *) - cameraPropertyValue:error:	Get value that is set in the camera properties. More...
(NSDictionary *) - cameraPropertyValues:error:	Get values that are set in the camera properties. More...
(NSString *) - cameraPropertyValueTitle:	Get title of the camera property value. More...
(BOOL) - canSetCameraProperty:	Check to see if value to the camera properties can be set. More...
(BOOL) - setCameraPropertyValue:value:error:	Set value to the camera properties. More...
(BOOL) - setCameraPropertyValues:error:	Set values to camera properties. More...
(BOOL) - changeRunMode:error:	Change run mode of the camera. More...
(BOOL) - setGeolocation:error:	Register geolocation information to the camera. More...
(BOOL) - clearGeolocation:	Discard registered geolocation information. More...

Properties

NSArray *	cameraPropertyNames	List of camera property names currently available. More...
id< OLYCameraPropertyDelegate >	cameraPropertyDelegate	The object that acts as the delegate to receive changes to camera property.
OLYCameraRunMode	runMode	Current run mode of the camera system. More...
BOOL	highTemperatureWarning	Indicate if inside of the camera is in high-temperature condition. More...
NSString *	lensMountStatus	Indicate status of lens mount. More...

NSString *	mediaMountStatus
BOOL	mediaBusy Indicate whether the camera is writing to the media (memory card). More...
BOOL	mediaError Indicate whether the media (memory card) I/O error is occurred. More...
NSUInteger	remainingMediaCapacity Free space of the media (memory card) attached to the camera. More...
NSUInteger	remainingImageCapacity The maximum number of capturing images that can be stored in the media (memory card). More...
NSTimeInterval	remainingVideoCapacity The maximum number of seconds of recording a movie that can be stored in the media (memory card). More...

Method Documentation

- (NSString *) cameraPropertyTitle: (NSString *) name

Get title of the camera property.

If the application specifies a value that does not exist in the list of camera properties currently available, the application will have an error. Please refer to the documentation of the camera list of properties for more information.

Parameters

name The camera property name.

Returns

The title on Human readable format.

See Also

[OLYCamera::cameraPropertyNameNames](#)

- (NSString *) cameraPropertyValue: (NSString *) name

error: (NSError **) error

Get value that is set in the camera properties.

If the application specifies a value that does not exist in the list of camera properties currently available, the application will get an error. Depending on shooting mode, connection type, etc., several properties are read-only access or prohibited. Please refer to the documentation of the camera list of properties for more information.

Parameters

name The camera property name.

error Error details will be set when operation is abnormally terminated.

Returns

The value set in the camera properties.

See Also

[OLYCamera::cameraPropertyNameNames](#)

[- canSetCameraProperty:](#)

[- setCameraPropertyValue:value:error:](#)

- (NSArray *) cameraPropertyValueList: (NSString *) name

error: (NSError **) error

Get list of the camera property values that can be set.

If the application specifies a value that does not exist in the list of camera properties currently available, the application will have an error. If the application changes settings such as shooting mode, there are times when the contents of the list changes. Please refer to the documentation of the camera list of properties for more information.

Parameters

name The camera property name.

error Error details will be set when the operation is abnormally terminated.

Returns

The list of the camera property values that can be set.

See Also

[OLYCamera::cameraPropertyNames](#)
[- cameraPropertyValue:error:](#)

- (NSDictionary *) cameraPropertyValues: (NSSet *) names error: (NSError **) error

Get values that are set in the camera properties.

If the application specifies a value that does not exist in the list of camera properties currently available, the application will get an error. Depending on shooting mode, connection type, etc., several properties are read-only access or prohibited. Please refer to the documentation of the camera list of properties for more information.

Parameters

names The camera property names. Each element is a string.

error Error details will be set when operation is abnormally terminated.

Returns

The values set in the camera properties.

The retrieved values are in dictionary format. The dictionary key is the camera property name. Setting of the camera property is stored in value corresponding to the key.

See Also

[OLYCamera::cameraPropertyNames](#)
[- setCameraPropertyValue:error:](#)

- (NSString *) cameraPropertyValueTitle: (NSString *) value

Get title of the camera property value.

If the application specifies a value that does not exist in the list of camera properties currently available, the application will get an error. Depending on the setting value of the shooting mode, connection type, etc., several properties are read-only access or prohibited. Please refer to the documentation of the camera list of properties for more information.

Parameters

value The camera property value.

Returns

The title on Human readable format.

See Also

[OLYCamera::cameraPropertyNames](#)
[- cameraPropertyValue:error:](#)

- (BOOL) canSetCameraProperty: (NSString *) name

Check to see if value to the camera properties can be set.

If the application specifies a value that does not exist in the list of camera properties currently available, the application will get an error. Depending on the setting value of the shooting mode, connection type, etc., several properties are read-only access or prohibited. Please refer to the documentation of the camera list of properties for more information.

Parameters

name The camera property name.

Returns

If true, the camera property can be set. If false, the camera property cannot be set.

See Also

[OLYCamera::cameraPropertyNames](#)
[- setCameraPropertyValue:value:error:](#)

- (BOOL) changeRunMode: ([OLYCameraRunMode](#)) mode error: (NSError **) error

Change run mode of the camera.

Available camera features change for different run modes. For example, application should change the mode to

[OLYCameraRunModePlayback](#) when shooting photographs, and should change the mode to [OLYCameraRunModeRecording](#) when getting a list of the camera contents. Please refer to the related documentation for more information on relationship between run mode and available camera features.

Response of this API may become slow when shooting or writing memory card.

Parameters

mode Run mode of the camera.

error Error details will be set when the operation is abnormally terminated.

Returns

If true, the operation was successful. If false, the operation was abnormally terminated.

See Also

[OLYCamera::runMode](#)

- (BOOL) clearGeolocation: (NSError **) **error**

Discard registered geolocation information.

Parameters

error Error details are set when operation is abnormally terminated.

Returns

If true, the operation was successful. If false, the operation was abnormally terminated.

See Also

[- setGeolocation:error:](#)

- (NSDictionary *) inquireHardwareInformation: (NSError **) **error**

Get hardware information of the camera.

Parameters

error Error details will be set when the operation is abnormally terminated.

Returns

The hardware information of the camera.

Hardware information is dictionary format. The following keys are defined in order to access each element.

- [OLYCameraHardwareInformationCameraModelNameKey](#) ... Camera model name.
- [OLYCameraHardwareInformationCameraFirmwareVersionKey](#) ... Camera firmware version.
- [OLYCameraHardwareInformationLensTypeKey](#) ... Lens type.
- [OLYCameraHardwareInformationLensIdKey](#) ... Lens ID.
- [OLYCameraHardwareInformationLensFirmwareVersionKey](#) ... Lens firmware version.
- [OLYCameraHardwareInformationFlashIdKey](#) ... Flash ID.
- [OLYCameraHardwareInformationFlashFirmwareVersionKey](#) ... Flash firmware version.
- [OLYCameraHardwareInformationAccessoryIdKey](#) ... Accessory ID.
- [OLYCameraHardwareInformationAccessoryFirmwareVersionKey](#) ... Accessory firmware version.

Please refer to the related documentation for more information.

- (BOOL) setCameraPropertyValue: (NSString *) **name**

value: (NSString *) value

error: (NSError **) error

Set value to the camera properties.

If the application specifies a value that does not exist in the list of camera properties currently available, the application will get an error. Depending on the setting value of the shooting mode and connection type and etc., there are several properties that is read-only access or prohibited. Please refer to the documentation of the camera list of properties for more information.

Parameters

name The camera property name.

value The camera property value.

error Error details will be set when operation is abnormally terminated.

Returns

If true, the operation was successful. If false, the operation was abnormally terminated.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)
- [OLYCameraRunModeMaintenance](#)

See Also

[OLYCamera::cameraPropertyNames](#)
[- cameraPropertyValue:error:](#)
[- canSetCameraProperty:](#)

- (BOOL) setCameraPropertyValues: (NSDictionary *) **values** **error: (NSError **)** **error**

Set values to camera properties.

Specifying a value that does not exist in the list of camera properties currently available, will give an error. Depending on the setting value of the shooting mode, connection type, etc., several properties are read-only access or prohibited. Please refer to the documentation of the camera list of properties for more information.

Parameters

- values** The pairs of the camera property value and name.
error Error details will be set when operation is abnormally terminated.

Returns

If true, the operation was successful. If false, the operation was abnormally terminated.

Name-value pairs of the camera properties that can be specified in dictionary format. The application must specify the camera property name in the dictionary key and store the value associated with that key in the camera properties.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)
- [OLYCameraRunModeMaintenance](#)

See Also

[OLYCamera::cameraPropertyNames](#)
[- cameraPropertyValues:error:](#)
[- setCameraPropertyValue:value:error:](#)

- (BOOL) setGeolocation: (NSString *) **location** **error: (NSError **)** **error**

Register geolocation information to the camera.

After the application registers the current geolocation in the camera, the GPS geolocation information will be set in the meta-data of the picture during capture.

The geolocation information must be specified by GGA and RMC defined in NMEA-0183.

Parameters

- location** The new geolocation information.
error Error details will be set when the operation is abnormally terminated.

Returns

If true, the operation was successful. If false, the operation was abnormally terminated.

See Also

[- clearGeolocation:](#)

Property Documentation

- (NSArray*) cameraPropertyNames

read **nonatomic** **strong**

List of camera property names currently available.

The application must check whether the target camera property is contained in the list or not. If not, the target property can not be configured.

See Also

[- cameraPropertyValue:error:](#)
[- cameraPropertyValueList:error:](#)
[- setCameraPropertyValue:value:error:](#)

- (BOOL) highTemperatureWarning

read nonatomic assign

Indicate if inside of the camera is in high-temperature condition.

You can also check using the lighting state of the LED on the camera body. If the inside of the camera is a high-temperature state, please stop using the camera immediately, and wait for the camera to return to normal temperature.

- (NSString*) lensMountStatus

read nonatomic strong

Indicate status of lens mount.

Status of lens mount:

- (nil) ... It is not connected to the camera, or the state is unknown.
- "normal" ... The lens is mounted and available. If the lens has some additional functions, the following items are added to the end of "normal".
 - "+electriczoom" ... The lens is equipped with a motorized zoom.
 - "+macro" ... The lens is equipped with a macro mode.
- "down" ... The lens is mounted. However retractable lens is not extended.
- "nolens" ... Disabled because no lens is mounted.
- "cantshoot" ... Disabled by other reason.

- (BOOL) mediaBusy

read nonatomic assign

Indicate whether the camera is writing to the media (memory card).

You can also check in the lighting state of the LED on the camera body. While the camera is writing to the media, you will see a response API is slow.

See Also

- [- startTakingPicture:progressHandler:completionHandler:errorHandler: \(OLYCamera\(Recording\)\)](#)
- [- stopTakingPicture:completionHandler:errorHandler: \(OLYCamera\(Recording\)\)](#)
- [- takePicture:progressHandler:completionHandler:errorHandler: \(OLYCamera\(Recording\)\)](#)
- [- startRecordingVideo:completionHandler:errorHandler: \(OLYCamera\(Recording\)\)](#)
- [- stopRecordingVideo:errorHandler: \(OLYCamera\(Recording\)\)](#)

- (BOOL) mediaError

read nonatomic assign

Indicate whether the media (memory card) I/O error is occurred.

There is a possibility that the media is broken. Please replace the new media if it occurs frequently.

- (NSString*) mediaMountStatus

read nonatomic strong

Indicate status of media (memory card) mount.

Status of media mount:

- (nil) ... It is not connected to the camera, or the state is unknown.
- "normal" ... Available in the media already mounted.
- "readonly" ... The media is already mounted. But cannot write for that the media is read-only.
- "cardfull" ... The media is already mounted. But cannot write for that the media is no free space.
- "unmount" ... Disabled by the media is not mounted.
- "error" ... Disabled by a media mount error.

- (NSUInteger) remainingImageCapacity

read nonatomic assign

The maximum number of capturing images that can be stored in the media (memory card).

This value does not indicate the exact value depends on the data for the compression ratio of the captured image. Sometimes the value does not change after capturing.

See Also

- [- startTakingPicture:progressHandler:completionHandler:errorHandler: \(OLYCamera\(Recording\)\)](#)
- [- stopTakingPicture:completionHandler:errorHandler: \(OLYCamera\(Recording\)\)](#)
- [- takePicture:progressHandler:completionHandler:errorHandler: \(OLYCamera\(Recording\)\)](#)

- (NSUInteger) remainingMediaCapacity

read nonatomic assign

Free space of the media (memory card) attached to the camera.

Unit is byte.

- (NSTimeInterval) remainingVideoCapacity

read nonatomic assign

The maximum number of seconds of recording a movie that can be stored in the media (memory card).

This value does not indicate the exact value depends on the data for the compression ratio of the captured video.

See Also

- [- startRecordingVideo:completionHandler:errorHandler: \(OLYCamera\(Recording\)\)](#)
- [- stopRecordingVideo:errorHandler: \(OLYCamera\(Recording\)\)](#)

- (OLYCameraRunMode) runMode

read nonatomic assign

Current run mode of the camera system.

See Also

- [- changeRunMode:error:](#)

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OLYCamera(CameraConnection)

Category Reference

Overview

This is a camera communication category of Olympus camera class.

This category connects and disconnects the camera.

Instance Methods

(BOOL) - [connect:](#)

Connect to the camera. [More...](#)

(BOOL) - [disconnectWithPowerOff:error:](#)

Disconnect from the camera. [More...](#)

Properties

`id< OLYCameraConnectionDelegate > connectionDelegate`

The object that acts as the delegate to receive change to communication state of the camera.

BOOL [connected](#)

Indicate whether the camera is currently connected.

Method Documentation

- (BOOL) [connect: \(NSError **\)](#) **error**

Connect to the camera.

Connection to the camera is complete, the application will be able to use features of the SDK.

Parameters

error Error details will be set when operation is abnormally terminated.

Returns

If true, the operation was successful. If false, the operation had an abnormal termination.

- (BOOL) [disconnectWithPowerOff: \(BOOL\)](#) **powerOff**
error: (NSError **) **error**

Disconnect from the camera.

You can also power off the camera when you disconnect from the camera. Disconnect is successful, the value of the property and state of the camera will be cleared. (Communication settings of the camera connection are not cleared.)

Parameters

powerOff If true, the camera will be powered off with disconnection from the camera.

error Error details will be set when the operation is abnormally terminated.

Returns

If true, the operation was successful. If false, the operation had an abnormal termination.

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OLYCamera(Maintenance) Category Reference

Overview

Maintenance category of Olympus camera class.

This category provides no function and is reserved for future expansion.

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OLYCamera(Playback) Category Reference

Overview

Playback category of Olympus camera class.

This category downloads and edits still image and movie saved in the camera.

Instance Methods

(void) - [downloadContentList:](#)
Download list of all supported media (still image and video) in the camera. [More...](#)

(void) - [downloadContentThumbnail:progressHandler:completionHandler:errorHandler:](#)
Download thumbnails of still image stored in memory card. [More...](#)

(void) - [downloadContentScreenail:progressHandler:completionHandler:errorHandler:](#)
Download thumbnail of movie stored in memory card. [More...](#)

(void) - [downloadImage:withResize:progressHandler:completionHandler:errorHandler:](#)
Download a resized still image. [More...](#)

(void) - [downloadContent:progressHandler:completionHandler:errorHandler:](#)
Download media (still image and movie) stored in memory card. [More...](#)

(NSInteger) - [countNumberOfContents:](#)

Count the number of media (still image and movie) in the camera. [More...](#)

(NSDictionary *) - [inquireContentInformation:error:](#)

Get information of media (still image and movie) stored in memory card. [More...](#)

Properties

id< [OLYCameraPlaybackDelegate](#) > [playbackDelegate](#)

Delegate object to receive changes to playback operations.

Method Documentation

- (NSInteger) [countNumberOfContents: \(NSError **\)](#) [error](#)

Count the number of media (still image and movie) in the camera.

Parameters

error Error details are set when the operation is abnormally terminated.

Returns

Number of media.

If the number of the acquired media is zero, an error may occur. If the application wants to know the exact number of media, the application should check that error details are not set.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModePlayback](#)

- (void) [downloadContent: \(NSString *\)](#) **path**
[progressHandler: \(void\(^\)\(float progress, BOOL *stop\)\)](#) **progressHandler**
[completionHandler: \(void\(^\)\(NSData *data\)\)](#) **completionHandler**
[errorHandler: \(void\(^\)\(NSError *error\)\)](#) **errorHandler**

Download media (still image and movie) stored in memory card.

File path must be string which combines the directory path and file name obtained from list of all supported media and otherwise causes an error.

Parameters

path File path to the still image or movie.

progressHandler Callback used when the progress of the download changes.

completionHandler Callback used when download is complete.

errorHandler Callback used when the download was aborted.

Argument of progressHandler

- **progress** ... Progress rate ranges from 0.0 when starting to 1.0 when complete.
- **stop** ... If true, download is canceled and errorHandler is invoked.

Argument of completionHandler

- **data** ... Binary data of the thumbnail.

Argument of errorHandler

- **error** ... Error details are set when operation is abnormally terminated.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModePlayback](#)

- (void) downloadContentList: (void(^)(NSMutableArray *list, NSError *error)) handler

Download list of all supported media (still image and video) in the camera.

Download list of files in memory card that is mounted in the camera in /DCIM directory. List contains all still image and movie files in supported format. Application should distinguish unsupported files using file extension and eliminate them from the list before use.

Parameters

handler Callback used when download is complete.

Argument of download completion callback.

- **list** ... List of all supported media stored in memory card in array format.
- **error** ... Error details are set when the operation is abnormally terminated.

Each element of the list is dictionary format. Dictionary key is defined to access the element.

- [OLYCameraContentListDirectoryKey](#) ... Directory path.
- [OLYCameraContentListFilenameKey](#) ... File name.
- [OLYCameraContentListFilesizeKey](#) ... File size.
- [OLYCameraContentListFileTypeKey](#) ... File type. The following are the file type.
 - "directory" ... Directory.
 - "file" ... File.
- [OLYCameraContentListAttributesKey](#) ... Array of file attributes. Array is normally set to empty. The following are the file attributes.
 - "protected" ... Protected file and cannot be deleted.
 - "hidden" ... Hidden file.
- [OLYCameraContentListDatetimeKey](#) ... Date object that represents date and time the file was changed.
- [OLYCameraContentListExtensionKey](#) ... Array of extended information.

Please refer to the related documentation for more information on extended information.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModePlayback](#)

- (void) downloadContentScreenail: (NSString *)

path

progressHandler: (void(^)(float progress, BOOL *stop)) **progressHandler**

completionHandler: (void(^)(NSData *data)) **completionHandler**

errorHandler: (void(^)(NSError *error)) **errorHandler**

Download thumbnail of movie stored in memory card.

File path must be string which combines the directory path and file name obtained from list of all supported media and otherwise causes an error.

Parameters

path File path to the movie.

progressHandler Callback used when the download progress changes.

completionHandler Callback used when download is complete.

errorHandler Callback used when download is aborted.

Argument of progressHandler

- progress ... Progress rate ranges from 0.0 when starting to 1.0 when complete.
- stop ... If true, download is cancelled and errorHandler is invoked.

Argument of completionHandler

- data ... Binary data of the thumbnail.

Argument of errorHandler

- error ... Error details are set when operation is abnormally terminated.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModePlayback](#)

- (void) downloadContentThumbnail: (NSString *)

progressHandler: (void(^)(float progress, BOOL *stop))

completionHandler: (void(^)(NSData *data, NSMutableDictionary *metadata))

errorHandler: (void(^)(NSError *error))

path

progressHandler

completionHandler

errorHandler

Download thumbnails of still image stored in memory card.

File path must be string which combines the directory path and file name obtained from list of all supported media and otherwise causes an error.

Parameters

path File path to the still image.

progressHandler Callback used when the download progress changes.

completionHandler Callback used when download is complete.

errorHandler Callback used when download is aborted.

Argument of progressHandler

- progress ... Progress rate ranges from 0.0 when starting to 1.0 when complete.
- stop ... If true, download is canceled and errorHandler is invoked.

Argument of completionHandler

- image ... Binary data of thumbnail.
- metadata ... Metadata of the thumbnail. There are cases where the following information is included in addition to the EXIF information.
 - "gpstag" ... 1 if the content has positioning information, 0 if it does not.
 - "moviesec" ... Movie length in seconds if the movie file has length information.
 - "detectversion" ... Reserved for vendor.
 - "detectid" ... Reserved for vendor.
 - "groupid" ... Reserved for vendor.

Argument of errorHandler

- error ... Error details are set when operation is abnormally terminated.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModePlayback](#)

- (void) downloadImage: (NSString *)

withResize: ([OLYCameraImageResize](#))

path

resize

progressHandler: (void(^)(float progress, BOOL *stop)) **progressHandler**

completionHandler: (void(^)(NSData *data)) **completionHandler**

errorHandler: (void(^)(NSError *error)) **errorHandler**

Download a resized still image.

File path must be string which combines the directory path and file name obtained from list of all supported media and otherwise causes an error.

Parameters

path File path to the still image.

resize Size in number of pixels after resizing.

progressHandler Callback used when the progress of the download changes.

completionHandler Callback used when download is complete.

errorHandler Callback used when the download was aborted.

Argument of progressHandler

- **progress** ... Progress rate ranges from 0.0 when starting to 1.0 when complete.
- **stop** ... If true, download is canceled and errorHandler is invoked.

Argument of completionHandler

- **data** ... Binary data of the thumbnail.

Argument of errorHandler

- **error** ... Error details are set when operation is abnormally terminated.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModePlayback](#)

- (NSDictionary *) inquireContentInformation: (NSString *) **path** error: (NSError **) **error**

Get information of media (still image and movie) stored in memory card.

File path must be string which combines the directory path and file name obtained from list of all supported media and otherwise causes an error.

Parameters

path File path to the still image or movie.

error Error details are set when the operation is abnormally terminated.

Returns

Information of the media.

Information on still image

- Please refer to the related documentation for detailed information.
- The application can also see EXIF information that is included in metadata of the media.

Information on movie (string format)

- "playtime" ... Movie length in seconds.
 - "moviesize" ... Pixel size of the movie frame. The format is "[height]x[width]". For example "1920x1080"
 - "shootingdatetime" ... Date and time taken. Format is "[YYYYMMDD]T[hhmm]". For example "20141124T1234"

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModePlayback](#)

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OLYCamera(PlaybackMaintenance) Category Reference

Overview

Playback auxiliary category of Olympus camera class.

This category provides no function and is reserved for future expansion.

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OLYCamera(Recording) Category Reference

Overview

Recording category of Olympus camera class.

This category takes still pictures and records video, exposure control, and focus control.

Application can configure exposure parameters, focus, color and tone using camera property control methods in [OLYCamera\(CameraSystem\)](#) categories. Please refer to list of camera properties for more information.

Instance Methods

(BOOL)	- changeLiveViewSize:error: Change the size of live view. More...
(OLYCameraActionType)	- actionType Get the shooting mode and drive mode. More...
(void)	- startTakingPicture:progressHandler:completionHandler:errorHandler: Start shooting photo. More...
(void)	- stopTakingPicture:completionHandler:errorHandler: Finish shooting photo. More...
(void)	- takePicture:progressHandler:completionHandler:errorHandler: Execute batch operation from start of shooting photos to end of shooting. More...
(void)	- startRecordingVideo:completionHandler:errorHandler: Start recording movie. More...
(void)	- stopRecordingVideo:errorHandler: Finish recording movie. More...
(void)	- lockAutoFocus:errorHandler: Lock autofocus operation. More...
(BOOL)	- unlockAutoFocus: Unlock autofocus operation. More...
(BOOL)	- setAutoFocusPoint:error: Set coordinates to use for auto focus. More...
(BOOL)	- clearAutoFocusPoint: Clear coordinates used for auto focus. More...
(BOOL)	- lockAutoExposure: Lock operation of automatic exposure control. More...
(BOOL)	- unlockAutoExposure: Release lock of automatic exposure control. More...
(BOOL)	- setAutoExposurePoint:error: Specify coordinates of reference exposure for automatic exposure control. More...
(BOOL)	- clearAutoExposurePoint: Release specified coordinates of reference exposure for automatic exposure control. More...
(CGRect)	- autoFocusEffectiveArea: Get valid range of coordinates to use for auto focus. More...
(CGRect)	- autoExposureEffectiveArea: Get valid range of coordinates to use for automatic exposure control. More...

Properties

OLYCameraLiveViewSize	liveViewSize Pixel size of live view. More...
id< OLYCameraLiveViewDelegate >	liveViewDelegate Delegate object that notifies state of live view image when it changes.
id< OLYCameraRecordingDelegate >	recordingDelegate Delegate object that notifies camera state when it changes. More...

BOOL	takingPicture	Indicate that photo shooting is in progress on the camera. More...
BOOL	recordingVideo	Indicate that video recording is in progress on the camera. More...
float	actualFocalLength	Current focal length of the lens. More...
float	minimumFocalLength	Focal length at the wide end of the lens. More...
float	maximumFocalLength	Focal length at the telephoto end of the lens. More...
CGPoint	actualAutoFocusPoint	Coordinates focused with autofocus. More...
NSString *	actualApertureValue	F value used by lens and camera. More...
NSString *	actualShutterSpeed	Shutter speed used by the camera. More...
NSString *	actualExposureCompensation	Exposure compensation value used by the camera. More...
NSString *	actualIsoSensitivity	ISO sensitivity used by camera. More...
BOOL	actualIsoSensitivityWarning	Indicate that out of range warning of ISO sensitivity is occurring in the camera. More...
BOOL	exposureWarning	Indicates that out of range warning of the exposure is occurring on the camera. More...
BOOL	exposureMeteringWarning	Indicates that warning of the exposure metering is occurring on the camera. More...

Method Documentation

- ([OLYCameraActionType](#)) **actionType**

Get the shooting mode and drive mode.

The application can determine whether to perform any shooting processing as a response to a user tap by referring to this value. Please refer to the description of [OLYCameraActionType](#).

- ([CGRect](#)) **autoExposureEffectiveArea: (NSError **)** **error**

Get valid range of coordinates to use for automatic exposure control.

Parameters

error Error details are set when operation is abnormally terminated.

Returns

Rectangular coordinates indicating the effective range. Coordinates are in viewfinder coordinate system.

The application can convert to rectangular coordinates for live view image on the rectangular coordinates indicating the range using the coordinate conversion utility [OLYCameraConvertRectOnViewfinderIntoLiveImage](#).

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

[- setAutoExposurePoint:error:](#)

- ([CGRect](#)) **autoFocusEffectiveArea: (NSError **)** **error**

Get valid range of coordinates to use for auto focus.

Parameters

error Error details are set when operation is abnormally terminated.

Returns

Rectangular coordinates indicating the effective range. Coordinates are in viewfinder coordinate system.

The application can convert to rectangular coordinates from live view image in the rectangular coordinates indicating the range using the coordinate conversion utility [OLYCameraConvertRectOnViewfinderIntoLiveImage](#).

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

[- setAutoFocusPoint:error:](#)

- (BOOL) changeLiveViewSize: ([OLYCameraLiveViewSize](#)) size error: ([NSError](#) **) error

Change the size of live view.

Parameters

size Size of live view.

error Error details are set when operation is abnormally terminated.

Returns

If true, operation was successful. If false, operation was abnormally terminated.

See Also

[OLYCamera::liveViewSize](#)

- (BOOL) clearAutoExposurePoint: ([NSError](#) **) error

Release specified coordinates of reference exposure for automatic exposure control.

Parameters

error Error details are set when operation is abnormally terminated.

Returns

If true, operation was successful. If false, operation was abnormally terminated.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

[- setAutoExposurePoint:error:](#)

- (BOOL) clearAutoFocusPoint: ([NSError](#) **) error

Clear coordinates used for auto focus.

Parameters

error Error details are set when operation is abnormally terminated.

Returns

If true, operation was successful. If false, operation was abnormally terminated.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

[- setAutoFocusPoint:error:](#)

- (BOOL) lockAutoExposure: ([NSError](#) **) error

Lock operation of automatic exposure control.

Parameters

error Error details are set when operation is abnormally terminated.

Returns

If true, operation was successful. If false, operation was abnormally terminated.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

[- unlockAutoExposure:](#)

**- (void) lockAutoFocus: (void(^)(NSDictionary *info)) completionHandler
errorHandler: (void(^)(NSError *error)) errorHandler**

Lock autofocus operation.

Focus the camera to the specified coordinates, and then lock so that focus does not later change. The application must have previously set the coordinates for auto focus. The application must call unlock to resume auto focus.

Parameters

completionHandler Callback used when lock is complete.

errorHandler Callback used when lock was aborted.

Argument of completionHandler

- info ... Focus information is set in dictionary format at the time of the S-AF modes of auto focus.
 - [OLYCameraTakingPictureProgressInfoFocusResultKey](#) ... Focusing result.
 - "ok" ... In focus.
 - "ng" ... Did not focus.
 - "none" ... AF did not work. Lens is set to MF mode or does not support AF.
 - [OLYCameraTakingPictureProgressInfoFocusRectKey](#) ... Rectangular coordinates of focus. Coordinates are in viewfinder coordinate system.

Argument of errorHandler

- error ... Error details are set when the operation is abnormally terminated.

The application can convert rectangular coordinates in live view image using the coordinate conversion utility [OLYCameraConvertRectOnViewfinderIntoLiveImage](#).

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

[- setAutoFocusPoint:error:](#)

[- unlockAutoFocus:](#)

[- camera:didChangeAutoFocusResult: \(OLYCameraRecordingDelegate-p\)](#)

**- (BOOL) setAutoExposurePoint: (CGPoint) point
error: (NSError **) error**

Specify coordinates of reference exposure for automatic exposure control.

Application must set coordinates with this method prior to locking automatic exposure control. Application will get an error if value exceeds the valid range of target coordinate.

Parameters

point Target coordinates. Coordinates are in viewfinder coordinate system.

error Error details are set when operation is abnormally terminated.

Returns

If true, operation was successful. If false, operation was abnormally terminated.

Application can convert the focusing coordinates from the coordinates in live view image using the coordinate conversion utility [OLYCameraConvertPointOnLiveImageIntoViewfinder](#).

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

[- clearAutoExposurePoint:](#)

[- autoExposureEffectiveArea:](#)

- (BOOL) setAutoFocusPoint: (CGPoint) point

error: (NSError **) error

Set coordinates to use for auto focus.

Prior to locking focus, the application sets the coordinates to focus with this method. The application will get an error if value exceed the valid range of focus coordinates.

Parameters

point Coordinates where to focus. Coordinantes are in viewfinder coordinate system.

error Error details are set when operation is abnormally terminated.

Returns

If true, operation was successful. If false, operation was abnormally terminated.

The application can convert the focusing coordinates from coordinates in live view image using the coordinate conversion utility [OLYCameraConvertPointOnLiveImageToIntViewfinder](#).

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

[-lockAutoFocus:errorHandler:](#)

[-autoFocusEffectiveArea:](#)

[-camera:didChangeAutoFocusResult: \(OLYCameraRecordingDelegate-p\)](#)

- (void) startRecordingVideo: (NSDictionary *)

completionHandler: (void(^())()

errorHandler: (void(^)(NSError *error))

options

completionHandler

errorHandler

Start recording movie.

Call this method only when recording process is not in progress. Do not call this method under still image shooting mode.

Parameters

options Not used in current version.

completionHandler Callback used when start of recording is complete.

errorHandler Callback used when the start of recording is aborted.

Argument of errorHandler

- error ... Error details are set when operation is abnormally terminated.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

[-stopRecordingVideo:errorHandler:](#)

[-cameraDidStopRecordingVideo: \(OLYCameraRecordingDelegate-p\)](#)

- (void) startTakingPicture: (NSDictionary *)

progressHandler: (void(^)([OLYCameraTakingProgress](#) progress, NSDictionary *info))

completionHandler: (void(^())()

errorHandler: (void(^)(NSError *error))

options

progressHandler

completionHandler

errorHandler

Start shooting photo.

Call this method only when shooting process is not in progress. Do not call this method under movie recoding mode.

Parameters

options Not used in current version.

progressHandler Callback used when the download progress changes.

completionHandler Callback used when download is complete.

errorHandler Callback used when download is aborted.

Argument of progressHandler

- progress ... Progress of the photographing operation.

- info ... Focus information is set in the dictionary format at the time of the end of auto focus.

- [OLYCameraTakingPictureProgressInfoFocusResultKey](#) ... Focusing result.
 - "ok" ... In focus.
 - "ng" ... Did not focus.
 - "none" ... AF did not work. Lens is set to MF mode or does not support AF.
- [OLYCameraTakingPictureProgressInfoFocusRectKey](#) ... Rectangular coordinates of focus. These coordinates are in viewfinder coordinate system.

Argument of errorHandler

- error ... Error details are set when operation is abnormally terminated.

The application can convert the rectangular coordinates in live view image using the coordinate conversion utility [OLYCameraConvertRectOnViewfinderIntoLiveImage](#).

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

- [- stopTakingPicture:completionHandler:errorHandler:](#)
- [- takePicture:progressHandler:completionHandler:errorHandler:](#)

**- (void) stopRecordingVideo: (void(^)(NSDictionary *info)) completionHandler
errorHandler: (void(^)(NSError *error)) errorHandler**

Finish recording movie.

Call this method only when recording process is in progress. Do not call this method under still image shooting mode.

Parameters

completionHandler Callback used when end of recording is complete.

errorHandler Callback used when end of recording is aborted.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

- [- startRecordingVideo:completionHandler:errorHandler:](#)
- [- cameraDidStopRecordingVideo: \(OLYCameraRecordingDelegate-p\)](#)

**- (void) stopTakingPicture: (void(^)(OLYCameraTakingProgress progress, NSDictionary *info))
completionHandler: (void(^)(NSDictionary *info))
errorHandler: (void(^)(NSError *error))**

progressHandler

**completionHandler
errorHandler**

Finish shooting photo.

Call this method only when shooting process is in progress. Do not call this method under movie recoding mode.

Parameters

progressHandler Callback used when the download progress changes.

completionHandler Callback used when download is complete.

errorHandler Callback used when download is aborted.

Argument of progressHandler

- progress ... Progress of the photographing operation.
- info ... Not used in current version.

Argument of completionHandler

- info ... Not used in current version.

Argument of errorHandler

- error ... Error details are set when operation is abnormally terminated.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

- [- startTakingPicture:progressHandler:completionHandler:errorHandler:](#)

[- takePicture:progressHandler:completionHandler:errorHandler:](#)

```
- (void) takePicture: (NSDictionary *)  
    progressHandler: (void(^)(OLYCameraTakingProgress progress, NSDictionary *info))  
    completionHandler: (void(^)(NSDictionary *info))  
    errorHandler: (void(^)(NSError *error))
```

options
progressHandler
completionHandler
errorHandler

Execute batch operation from start of shooting photos to end of shooting.

Call this method only when shooting process is not in progress. Do not call this method under movie recoding mode.

Parameters

options Not used in current version.

progressHandler Callback used when the download progress changes.

completionHandler Callback used when download is complete.

errorHandler Callback used when download is aborted.

Argument of progressHandler

- **progress** ... Progress of the photographing operation.
- **info** ... Focus information is set in dictionary format when auto-focus ends.
 - [OLYCameraTakingPictureProgressInfoFocusResultKey](#) ... Focusing result.
 - "ok" ... In focus.
 - "ng" ... Did not focus.
 - "none" ... AF did not work. Lens is set to MF mode or does not support AF.
 - [OLYCameraTakingPictureProgressInfoFocusRectKey](#) ... Rectangular coordinates of focus. Coordinates are in viewfinder coordinate system.

Argument of completionHandler

- **info** ... Not used in current version.

Argument of errorHandler

- **error** ... Error details are set when operation is abnormally terminated.

Application can convert rectangular coordinates in live view image using coordinate conversion utility [OLYCameraConvertRectOnViewfinderIntoLiveImage](#).

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

[- startTakingPicture:progressHandler:completionHandler:errorHandler:](#)
[- stopTakingPicture:completionHandler:errorHandler:](#)

[- \(BOOL\) unlockAutoExposure: \(NSError **\) error](#)

Release lock of automatic exposure control.

Parameters

error Error details are set when operation is abnormally terminated.

Returns

If true, operation was successful. If false, operation was abnormally terminated.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

[- lockAutoExposure:](#)

[- \(BOOL\) unlockAutoFocus: \(NSError **\) error](#)

Unlock autofocus operation.

Parameters

error Error details are set when operation is abnormally terminated.

Returns

If true, operation was successful. If false, operation was abnormally terminated.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

[- lockAutoFocus:errorHandler:](#)

Property Documentation

- (NSString*) actualApertureValue

[read](#) [nonatomic](#) [strong](#)

F value used by lens and camera.

This value can change depending on the state of the object and the shooting mode. This value can be changed when zooming where the focal length is set to the minimum aperture. Aperture value is set to the minimum value if the value to be set is smaller than the minimum value. Please refer to the documentation of the list of camera properties for more information.

This property is not set if the following conditions are not met.

- Lens is mounted.
- Run mode is set to recording mode.
- SDK has started receiving live view information. (App does not have to use delegate method.)

- (CGPoint) actualAutoFocusPoint

[read](#) [nonatomic](#) [assign](#)

Coordinates focused with autofocus.

These coordinates are expressed in viewfinder coordinate system. The application can convert the coordinates in the live view image using the coordinate conversion utility [OLYCameraConvertPointOnViewfinderIntoLiveImage](#).

See Also

[- setAutoFocusPoint:error:](#)
[- clearAutoFocusPoint:](#)

- (NSString*) actualExposureCompensation

[read](#) [nonatomic](#) [strong](#)

Exposure compensation value used by the camera.

This value can change depending on the state of the object and the shooting mode. Please refer to the documentation of the list of camera properties for more information.

This property is not set if the following conditions are not met.

- Lens is mounted.
- Run mode is set to recording mode.
- SDK has started receiving live view information. (App does not have to use delegate method.)

- (float) actualFocalLength

[read](#) [nonatomic](#) [assign](#)

Current focal length of the lens.

See Also

[- startDrivingZoomLensForDirection:speed:error: \(OLYCamera\(RecordingSupports\)\)](#)
[- startDrivingZoomLensToFocalLength:error: \(OLYCamera\(RecordingSupports\)\)](#)
[- stopDrivingZoomLens: \(OLYCamera\(RecordingSupports\)\)](#)

- (NSString*) actualIsoSensitivity

[read](#) [nonatomic](#) [strong](#)

ISO sensitivity used by camera.

When ISO sensitivity of the camera property is set to automatic, the value that the camera has chosen will be set.

This value can change depending on the state of the object and the shooting mode. Please refer to the documentation of the list of camera properties for more information.

This property is not set if the following conditions are not met.

- Lens is mounted.
- Run mode is set to recording mode.

- SDK has started receiving live view information. (App does not have to use delegate method.)

- (BOOL) actualIsoSensitivityWarning

read **nonatomic** **assign**

Indicate that out of range warning of ISO sensitivity is occurring in the camera.

When shooting during the warning, the image may be underexposed or overexposed.

- (NSString*) actualShutterSpeed

read **nonatomic** **strong**

Shutter speed used by the camera.

This value can change depending on the state of the object and the shooting mode. Please refer to the documentation of the list of camera properties for more information.

This property is not set if the following conditions are not met.

- Lens is mounted.
- Run mode is set to recording mode.
- SDK has started receiving live view information. (App does not have to use delegate method.)

- (BOOL) exposureMeteringWarning

read **nonatomic** **assign**

Indicates that warning of the exposure metering is occurring on the camera.

Subject is too dark or too bright to be measured by the camera's exposure meter. When the shooting during the warning, the image may be underexposed or overexposed.

- (BOOL) exposureWarning

read **nonatomic** **assign**

Indicates that out of range warning of the exposure is occurring on the camera.

The camera can not determine ISO sensitivity, shutter speed or aperture value corresponding to current exposure value. When the shooting during the warning, the image may be underexposed or overexposed.

- (OLYCameraLiveViewSize) liveViewSize

read **nonatomic** **assign**

Pixel size of live view.

See Also

[- changeLiveViewSize:error:](#)

- (float) maximumFocalLength

read **nonatomic** **assign**

Focal length at the telephoto end of the lens.

This is the longest focal length of the lens.

See Also

[- startDrivingZoomLensForDirection:speed:error: \(OLYCameraRecordingSupports\)](#)
[- startDrivingZoomLensToFocalLength:error: \(OLYCameraRecordingSupports\)](#)

- (float) minimumFocalLength

read **nonatomic** **assign**

Focal length at the wide end of the lens.

This is the shortest focal length of the lens.

See Also

[- startDrivingZoomLensForDirection:speed:error: \(OLYCameraRecordingSupports\)](#)
[- startDrivingZoomLensToFocalLength:error: \(OLYCameraRecordingSupports\)](#)

- (id<OLYCameraRecordingDelegate>) recordingDelegate

read **write** **nonatomic** **weak**

Delegate object that notifies camera state when it changes.

The camera state is regarding capturing operation which affects still image or movie.

- (BOOL) recordingVideo

read nonatomic assign

Indicate that video recording is in progress on the camera.

When recording is in progress, the application cannot change the value of the camera properties.

See Also

- [- startRecordingVideo:completionHandler:errorHandler:](#)
- [- stopRecordingVideo:errorHandler:](#)
- [- cameraDidStopRecordingVideo: \(OLYCameraRecordingDelegate-p\)](#)

- (BOOL) takingPicture

read nonatomic assign

Indicate that photo shooting is in progress on the camera.

When shooting is in progress, the application cannot change the value of the camera properties.

See Also

- [- startTakingPicture:progressHandler:completionHandler:errorHandler:](#)
- [- stopTakingPicture:completionHandler:errorHandler:](#)

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OLYCamera(RecordingSupports) Category Reference

Overview

Recording auxiliary category of Olympus camera class.

This category provides zoom control.

Instance Methods

(BOOL) - startDrivingZoomLensForDirection:speed:error:	Start driving optical zoom with specific speed and direction. More...
(BOOL) - startDrivingZoomLensToFocalLength:error:	Start driving optical zoom to the specified focal length. More...
(BOOL) - stopDrivingZoomLens:	Stop driving optical zoom. More...
(NSDictionary *) - digitalZoomScaleRange:	Get configurable magnification range of digital zoom. More...
(BOOL) - changeDigitalZoomScale:error:	Change magnification of digital zoom. More...

Properties

id	
< OLYCameraRecordingSupportsDelegate > recordingSupportsDelegate	Delegate object to notify camera state when it changes. More...
BOOL drivingZoomLens	Indicate optical zoom is changing in the camera. More...
NSDictionary * levelGauge	Information of level gauge. More...
NSDictionary * detectedHumanFaces	Face recognition results. More...

Method Documentation

- (BOOL) **changeDigitalZoomScale:** (float) **scale**
error: (NSError **) **error**

Change magnification of digital zoom.

If application specifies magnification that is not included in the configurable range, there will be an error. When changing run mode to any mode except recording mode, magnification is changed back to 1x automatically.

Parameters

scale Magnification of digital zoom.
error Error details are set when the operation is abnormally terminated.

Returns

If true, operation was successful. If false, operation was abnormally terminated.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

- [digitalZoomScaleRange:](#)

- (NSDictionary *) **digitalZoomScaleRange:** (NSError **) **error**

Get configurable magnification range of digital zoom.

Parameters

error Error details are set when operation is abnormally terminated.

Returns

Configurable range. The acquired information is in dictionary format.

The following information is included.

- [OLYCameraDigitalZoomScaleRangeMinimumKey](#) ... Minimum magnification.
- [OLYCameraDigitalZoomScaleRangeMaximumKey](#) ... Maximum magnification.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

[- changeDigitalZoomScale:error:](#)

**- (BOOL) startDrivingZoomLensForDirection: (OLYCameraDrivingZoomLensDirection) direction
speed: (OLYCameraDrivingZoomLensSpeed) speed
error: (NSError **) error**

Start driving optical zoom with specific speed and direction.

Lens attached to the camera must support electric zoom. If the optical zoom is already being driven, application will get an error.

Parameters

direction Driving direction.

speed Driving speed.

error Error details are set when the operation is abnormally terminated.

Returns

If true, operation was successful. If false, operation was abnormally terminated.

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

[OLYCamera::lensMountStatus](#)

[OLYCamera::drivingZoomLens](#)

[- cameraDidStopDrivingZoomLens: \(OLYCameraRecordingSupportsDelegate-p\)](#)

**- (BOOL) startDrivingZoomLensToFocalLength: (float) focalLength
error: (NSError **) error**

Start driving optical zoom to the specified focal length.

Lens attached to the camera must support electric zoom. If the optical zoom is already being driven, application will get an error.

Parameters

focalLength Focal length.

error Error details are set when operation is abnormally terminated.

Returns

If true, operation was successful. If false, operation was abnormally terminated.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

[OLYCamera::lensMountStatus](#)

[OLYCamera::drivingZoomLens](#)

[- cameraDidStopDrivingZoomLens: \(OLYCameraRecordingSupportsDelegate-p\)](#)

- (BOOL) stopDrivingZoomLens: (NSError **) error

Stop driving optical zoom.

Lens attached to the camera must support electric zoom. If the optical zoom already being driven, application will get an error.

Parameters

- error** Error details are set when operation is abnormally terminated.

Returns

If true, operation was successful. If false, operation was abnormally terminated.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCameraRunModeRecording](#)

See Also

[OLYCamera::lensMountStatus](#)
[OLYCamera::drivingZoomLens](#)

Property Documentation

- (NSDictionary*) detectedHumanFaces

read **nonatomic** **strong**

Face recognition results.

Coordinate information of face detected by the camera is stored in a dictionary format. The dictionary key is a string that represents the identification number. It is not possible to track the coordinates of a recognized face by relying on a specific identification number.

This property is not set if the following conditions are not met.

- Run mode is set to recording mode.
- SDK has started receiving live view information. (App does not have to use delegate method.)

- (BOOL) drivingZoomLens

read **nonatomic** **assign**

Indicate optical zoom is changing in the camera.

See Also

[- startDrivingZoomLensForDirection:speed:error:](#)
[- startDrivingZoomLensToFocalLength:error:](#)
[- stopDrivingZoomLens:](#)
[- cameraDidStopDrivingZoomLens: \(OLYCameraRecordingSupportsDelegate-p\)](#)

- (NSDictionary*) levelGauge

read **nonatomic** **strong**

Information of level gauge.

The following information is included.

- [OLYCameraLevelGaugeOrientationKey](#) ... Inclination and orientation on the camera body.
 - "landscape" ... Lens mount tilt is 0 degrees. Camera body is in horizontal direction. This is the normal state.
 - "portrait_left" ... Lens mount tilt is 90 degrees clockwise. Camera body is in horizontal direction.
 - "landscape_upside_down" ... Lens mount tilt is 180 degrees. Camera body is in horizontal direction. This is upside down state.
 - "portrait_right" ... Lens mount tilt is 270 degrees clockwise. Camera body is in horizontal direction.
 - "faceup" ... The camera is pointed up. Horizontal orientation is undefined.
 - "facedown" ... The camera is pointed down. Horizontal orientation is undefined.
- [OLYCameraLevelGaugeRollingKey](#) ... Roll angle in degrees of the camera body relative to horizontal. If the angle cannot be determined, NaN is returned.
- [OLYCameraLevelGaugePitchingKey](#) ... Pitch angle in degrees of the camera body relative to horizontal. If the angle cannot be determined, NaN is returned.

This property is not set if the following conditions are not met.

- Run mode is set to recording mode.
- SDK has started receiving live view information. (App does not have to use delegate method.)

- (id<[OLYCameraRecordingSupportsDelegate](#)>) recordingSupportsDelegate

read **write** **nonatomic** **weak**

Delegate object to notify camera state when it changes.

The camera state is regarding capturing operation which affects still image or movie.

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OLYCameraLog Class Reference

Overview

Olympus camera SDK log management class.

By default, the logger outputs to syslog or console log messages of higher priority than debug level. However, the logger will output log messages of all levels if the SDK is the debug build.

Class Methods

- (id) + [sharedLog](#)
Return the shared instance.
- (void) + [setDelegate:](#)
Set the new delegate.
- (void) + [resetDelegate](#)
Restore delegate to preset.

Properties

id< [OLYCameraLogDelegate](#) > [delegate](#)

Delegate object to receive log messages.

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<OLYCameraLogDelegate> Protocol Reference

Overview

Delegate to receive log messages from Olympus camera SDK.

Instance Methods

(void) - `log:shouldOutputMessage:level:`
 Notify that SDK output a log message. [More...](#)

Method Documentation

- (void) `log: (OLYCameraLog *) log`
`shouldOutputMessage: (NSString *) message`
`level: (OLYCameraLogLevel) level`

optional

Notify that SDK output a log message.

Parameters

log Logger that should output a log message.
message Log message.
level Log level.

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- ▶ <OLYCameraRecordingDelegate>
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<OLYCameraPlaybackDelegate> Protocol Reference

Overview

Delegate to receive camera state regarding playback operation when it changes.

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<OLYCameraConnectionDelegate> Member List

This is the complete list of members for [<OLYCameraConnectionDelegate>](#), including all inherited members.

- [camera:disconnectedByError: <OLYCameraConnectionDelegate>](#)

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<OLYCameraPropertyDelegate> Member List

This is the complete list of members for [<OLYCameraPropertyDelegate>](#), including all inherited members.

- [camera:didChangeCameraProperty: <OLYCameraPropertyDelegate>](#)

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<OLYCameraRecordingDelegate> Member List

This is the complete list of members for [<OLYCameraRecordingDelegate>](#), including all inherited members.

- [camera:didChangeAutoFocusResult:](#) [<OLYCameraRecordingDelegate>](#)
- [cameraDidStartRecordingVideo:](#) [<OLYCameraRecordingDelegate>](#)
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Types

Overview

Type definition and enumerated types that are to be used by Olympus camera class.

Olympus camera class: camera communication category

```
enum OLYCameraConnectionType
typedef enum
OLYCameraConnectionType OLYCameraConnectionType
```

Olympus camera class: camera system category

```
enum OLYCameraRunMode {
    OLYCameraRunModeUnknown, OLYCameraRunModeStandalone,
    OLYCameraRunModePlayback, OLYCameraRunModePlaymaintenance,
    OLYCameraRunModeRecording, OLYCameraRunModeMaintenance
}
Run mode of the camera. More...
```

```
typedef enum OLYCameraRunMode OLYCameraRunMode
NSString *const OLYCameraHardwareInformationCameraModelNameKey
Dictionary key for accessing 'Camera Model Name' element of camera hardware
information.

NSString *const OLYCameraHardwareInformationCameraFirmwareVersionKey
Dictionary key for accessing 'Camera Firmware Version' element of camera
hardware information.

NSString *const OLYCameraHardwareInformationLensTypeKey
Dictionary key for accessing 'Lens Type' element of camera hardware
information.

NSString *const OLYCameraHardwareInformationLensIdKey
Dictionary key for accessing 'Lens ID' element of camera hardware information.

NSString *const OLYCameraHardwareInformationLensFirmwareVersionKey
Dictionary key for accessing 'Lens Firmware Version' element of camera
hardware information.

NSString *const OLYCameraHardwareInformationFlashIdKey
Dictionary key for accessing 'Flash ID' element of camera hardware information.

NSString *const OLYCameraHardwareInformationFlashFirmwareVersionKey
Dictionary key for accessing 'Flash Firmware Version' element of camera
hardware information.

NSString *const OLYCameraHardwareInformationAccessoryIdKey
Dictionary key for accessing 'Accessory ID' element of camera hardware
information.

NSString *const OLYCameraHardwareInformationAccessoryFirmwareVersionKey
Dictionary key for accessing 'Accessory Firmware Version' element of camera
hardware information.
```

Olympus camera class: playback category

```
enum OLYCameraResizeVideoQuality
typedef enum
OLYCameraResizeVideoQuality OLYCameraResizeVideoQuality
typedef CGFloat OLYCameraImageResize
Supported sizes for images.

const OLYCameraImageResize OLYCameraImageResize1024
Resize long side of the image to 1024 pixels.

const OLYCameraImageResize OLYCameraImageResize1600
Resize long side of the image to 1600 pixels.
```

const OLYCameraImageResize	OLYCameraImageResize1920	Resize long side of the image to 1920 pixels.
const OLYCameraImageResize	OLYCameraImageResize2048	Resize long side of image to 2048 pixels.
const OLYCameraImageResize	OLYCameraImageResizeNone	Use the original size of the image.
NSString *const	OLYCameraContentListDirectoryKey	Dictionary key for accessing 'Directory path' elements of the content information.
NSString *const	OLYCameraContentListFilenameKey	Dictionary key for accessing 'File name' elements of content information.
NSString *const	OLYCameraContentListFilesizeKey	Dictionary key for accessing 'File size' elements of content information.
NSString *const	OLYCameraContentListFiletypeKey	Dictionary key for accessing 'File type' elements of content information.
NSString *const	OLYCameraContentListAttributesKey	Dictionary key for accessing 'File attribute list' elements of content information.
NSString *const	OLYCameraContentListDatetimeKey	Dictionary key for accessing 'File modified date' elements of content information.
NSString *const	OLYCameraContentListExtensionKey	Dictionary key for accessing 'Extension' elements of content information.

Olympus camera class: recording category

enum	OLYCameraActionType { OLYCameraActionTypeUnknown , OLYCameraActionTypeSingle , OLYCameraActionTypeSequential , OLYCameraActionTypeMovie }	Type of shooting mode and drive mode. More...
enum	OLYCameraTakingProgress { OLYCameraTakingProgressBeginFocusing , OLYCameraTakingProgressEndFocusing , OLYCameraTakingProgressReadyCapturing , OLYCameraTakingProgressBeginCapturing , OLYCameraTakingProgressBeginNoiseReduction , OLYCameraTakingProgressEndNoiseReduction , OLYCameraTakingProgressEndCapturing , OLYCameraTakingProgressFinished }	Progress of the capturing operation. More...
typedef enum OLYCameraActionType	OLYCameraActionType	
typedef enum OLYCameraTakingProgress	OLYCameraTakingProgress	
typedef CGSize OLYCameraLiveViewSize	OLYCameraLiveViewSize	Size of live view that the camera supports.
const OLYCameraLiveViewSize	OLYCameraLiveViewSizeQVGA	Display in QVGA (320x240) size live view.
const OLYCameraLiveViewSize	OLYCameraLiveViewSizeVGA	Display in VGA (640x480) size live view.
const OLYCameraLiveViewSize	OLYCameraLiveViewSizeSVGA	Display in SVGA (800x600) size live view.
const OLYCameraLiveViewSize	OLYCameraLiveViewSizeXGA	Display in XGA (1024x768) size live view.
const OLYCameraLiveViewSize	OLYCameraLiveViewSizeQuadVGA	Display in Quad-VGA (1280x960) size live view.
NSString *const	OLYCameraStartTakingPictureOptionLimitShootingsKey	Dictionary key to access elements that specifies maximum number of shots at beginning of continuous shooting.
NSString *const	OLYCameraTakingPictureProgressInfoFocusResultKey	Dictionary key to access focusing result given as parameter of progressHandler when shooting.
NSString *const	OLYCameraTakingPictureProgressInfoFocusRectKey	Dictionary key to access coordinates of focus given as parameter of progressHandler when shooting.

Olympus camera class: recording auxiliary category

enum	OLYCameraDrivingZoomLensDirection {
------	---

			OLYCameraDrivingZoomLensWide, OLYCameraDrivingZoomLensTele }
		enum	Driving direction of optical zoom. More...
		OLYCameraDrivingZoomLensSpeed {	
		OLYCameraDrivingZoomLensSpeedSlow,	
		OLYCameraDrivingZoomLensSpeedFast,	
		OLYCameraDrivingZoomLensSpeedNormal,	
		OLYCameraDrivingZoomLensSpeedBurst }	
		Driving speed of optical zoom. More...	
		enum OLYCameraMagnifyingLiveViewScale	
		enum OLYCameraMagnifyingLiveViewScrollDirection	
	typedef enum	OLYCameraDrivingZoomLensDirection	OLYCameraDrivingZoomLensDirection
	typedef enum	OLYCameraDrivingZoomLensSpeed	OLYCameraDrivingZoomLensSpeed
	typedef enum	OLYCameraMagnifyingLiveViewScale	OLYCameraMagnifyingLiveViewScale
	typedef enum	OLYCameraMagnifyingLiveViewScrollDirection	OLYCameraMagnifyingLiveViewScrollDirection
	NSString *const	OLYCameraLevelGaugeOrientationKey	Dictionary key for accessing 'Orientation' elements of the level gauge information.
	NSString *const	OLYCameraLevelGaugeRollingKey	Dictionary key for accessing 'Roll' elements of the level gauge information. More...
	NSString *const	OLYCameraLevelGaugePitchingKey	Dictionary key for accessing 'Pitch' elements of the level gauge information. More...
	NSString *const	OLYCameraDigitalZoomScaleRangeMinimumKey	Dictionary key for accessing 'Minimum zoom scale' elements of the level gauge information.
	NSString *const	OLYCameraDigitalZoomScaleRangeMaximumKey	Dictionary key to access 'Maximum zoom scale' elements of the digital zoom information.

Error related

enum	OLYCameraError {
	OLYCameraErrorUnknown = 0x0bad0001, OLYCameraErrorInvalidParameters = 0x0bad0002, OLYCameraErrorInvalidOperations = 0x0bad0003,
	OLYCameraErrorUnsupportedOperations = 0x0bad0004,
	OLYCameraErrorConnectionFailed = 0x0bad0005, OLYCameraErrorNotConnected = 0x0bad0006, OLYCameraErrorCommandFailed = 0x0bad0007,
	OLYCameraErrorBadResponse = 0x0bad0008,
	OLYCameraErrorCameraBusy = 0x0bad0009, OLYCameraErrorOperationAborted = 0x0bad000a, OLYCameraErrorFocusFailed = 0x0bad000b
	}
	NSError codes in the OLYCameraErrorDomain. More...
typedef enum	OLYCameraError OLYCameraError

Log management class

enum	OLYCameraLogLevel { OLYCameraLogLevelError , OLYCameraLogLevelWarning , OLYCameraLogLevelInfo , OLYCameraLogLevelDebug }
	Log output level. More...
typedef enum	OLYCameraLogLevel OLYCameraLogLevel

Enumeration Type Documentation

enum OLYCameraActionType

Type of shooting mode and drive mode.

Enumerator

OLYCameraActionTypeUnknown Mode is unknown.

Still image single shooting mode.

OLYCameraActionTypeSingle

<i>OLYCameraActionTypeSequential</i>	Mode that takes 1 image after a single tap.
<i>OLYCameraActionTypeContinuous</i>	Still image continuous shooting mode.
<i>OLYCameraActionTypeBurst</i>	Mode that quickly takes multiple images while a user is touching the device.
<i>OLYCameraActionTypeMovie</i>	Movie recording mode.
	Mode that starts recording when user taps device and stops recording when user again taps device.

enum [OLYCameraDrivingZoomLensDirection](#)

Driving direction of optical zoom.

Enumerator

OLYCameraDrivingZoomLensWide Towards the wide end (zoom out).

OLYCameraDrivingZoomLensTele Towards the telephoto end (zoom in).

enum [OLYCameraDrivingZoomLensSpeed](#)

Driving speed of optical zoom.

Enumerator

OLYCameraDrivingZoomLensSpeedSlow Zoom at low speed.

OLYCameraDrivingZoomLensSpeedFast Zoom at high speed.

OLYCameraDrivingZoomLensSpeedNormal Zoom at medium speed.

OLYCameraDrivingZoomLensSpeedBurst Zoom to wide or telephoto end at once.

enum [OLYCameraError](#)

NSError codes in the OLYCameraErrorDomain.

Enumerator

OLYCameraErrorUnknown Unknown error occurred.

Invalid parameters.

OLYCameraErrorInvalidParameters There is an error in the value specified in the property or method argument. Please check the value you specified and the specifications of the camera.

Invalid operation.

OLYCameraErrorInvalidOperations Application may have tried to call an operation not allowed in current mode. Please change the application so those operations are not called.

OLYCameraErrorUnsupportedOperations Operation is not supported.

Connecting to camera failed.

OLYCameraErrorConnectionFailed The camera and mobile device may not be connected with Bluetooth or Wi-Fi. Please check whether the mobile device is connected to the camera before trying to control the camera.

Not connected to the camera.

OLYCameraErrorNotConnected To operate the camera, the program must first be connected to the camera using the SDK. Please make sure the program is calling the connection method for the first time.

OLYCameraErrorCommandFailed

Sending a command to the camera failed.

OLYCameraErrorBadResponse

There is a possibility that the camera firmware specification and SDK specification do not match, or the network is unstable.

OLYCameraErrorCameraBusy

The data returned from the camera is broken or in an unexpected format.

There is a possibility that the camera firmware specification and SDK specification do not match, or the network is unstable.

OLYCameraErrorOperationAborted

The command was rejected because the camera is busy processing other tasks.

The command may be successful if sent again later.

OLYCameraErrorFocusFailed

Operation is aborted.

Operation may have been aborted during processing, such as by user.

Focusing by the camera failed.

User may have tried to focus on an object that cannot be recognized by the camera's autofocus. The operation may be successful if run again after changing position of the subject or framing in the viewfinder.

enum OLYCameraLogLevel

Log output level.

Enumerator

OLYCameraLogLevelError Error.

OLYCameraLogLevelWarning Warning.

OLYCameraLogLevelInfo Information.

OLYCameraLogLevelDebug Debug.

enum OLYCameraRunMode

Run mode of the camera.

Enumerator

Mode where SDK does not work.

OLYCameraRunModeUnknown

Run mode is sometimes set to this value when the application is not connected or mode change is abnormally terminated.

Standaalone mode.

The run mode is this value immediately after connected to the camera.

OLYCameraRunModeStandalone

If the application changes to this mode from any other mode, several camera properties return to their initial states. For more information please refer to documentation of the camera list of properties.

Playback mode.

This mode is used to view the captured image in the camera.

OLYCameraRunModePlayback

Play-maintenance mode.

This mode does not work and is reserved for future expansion.

Recording mode.

This mode is used to capture still images and record videos by the shutter via

OLYCameraRunModePlaymaintenance

OLYCameraRunModeRecording

	wireless communication.
<i>OLYCameraRunModeMaintenance</i>	Maintenance mode. This mode does not work and is reserved for future expansion.
enum OLYCameraTakingProgress	
	Progress of the capturing operation.
	Enumerator
<i>OLYCameraTakingProgressBeginFocusing</i>	Start auto focus. This notification is called even if focus is locked.
<i>OLYCameraTakingProgressEndFocusing</i>	End auto focus. This timing is appropriate for the application to play a sound effect or display the focus result.
<i>OLYCameraTakingProgressReadyCapturing</i>	Preparation of the exposure has been completed.
<i>OLYCameraTakingProgressBeginCapturing</i>	Start exposure. This timing is appropriate for the application to play a sound effect or display that the shutter is open.
<i>OLYCameraTakingProgressBeginNoiseReduction</i>	This is reserved for future use.
<i>OLYCameraTakingProgressEndNoiseReduction</i>	This is reserved for future use.
<i>OLYCameraTakingProgressEndCapturing</i>	Exposure is complete. This timing is appropriate for the application to play a sound effect or display that the shutter is closed.
<i>OLYCameraTakingProgressFinished</i>	Shooting action is complete.

Variable Documentation

<code>NSString* const OLYCameraLevelGaugePitchingKey</code>	
	Dictionary key for accessing 'Pitch' elements of the level gauge information. 'Pitch' describes the camera is pointed up or down.
<code>NSString* const OLYCameraLevelGaugeRollingKey</code>	
	Dictionary key for accessing 'Roll' elements of the level gauge information. 'Roll' is rotation around the optical axis.

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Functions

Overview

Support functions for Olympus camera class.

Image processing utilities

```
UIImage * OLYCameraConvertDataToImage (NSData *data, NSDictionary *metadata)
Convert image data to UIImage object. More...
```

Coordinate conversion utilities

These utilities convert between coordinates in viewfinder coordinate system and coordinates in live view coordinate system.

Live view coordinate system is in units of pixels for live view image. The origin is the upper-left corner. Vertical and horizontal coordinate axes match the image display of the smartphone. If camera is rotated into portrait orientation, the origin is still in the upper-left, but the width and height of the image are changed since image is rotated. Live view coordinates are used to represent a pixel position on the image when user touches the live view.

Viewfinder coordinate system is normalized to width = 1.0 and height = 1.0 for live view image. The origin is the upper-left corner. Vertical and horizontal coordinate axes correspond to image sensor in camera. If camera is rotated into portrait or landscape mode, there is no change to the image width and height or the picture rotation. Viewfinder coordinate system is used to represent the in-focus position and the position of the specified auto focus lock.

CGPoint	OLYCameraConvertPointOnLiveImageToIntViewfinder (CGPoint point, UIImage *liveImage)
	Convert coordinates in live view coordinate system into coordinates in viewfinder coordinate system. More...
CGPoint	OLYCameraConvertPointOnViewfinderToIntLiveImage (CGPoint point, UIImage *liveImage)
	Convert coordinates in viewfinder coordinate system into coordinates in live view coordinate system. More...
CGRect	OLYCameraConvertRectOnLiveImageToIntViewfinder (CGRect rect, UIImage *liveImage)
	Convert rectangular coordinates in live view coordinate system into the rectangular coordinates in viewfinder coordinate system. More...
CGRect	OLYCameraConvertRectOnViewfinderToIntLiveImage (CGRect rect, UIImage *liveImage)
	Convert rectangular coordinates in viewfinder coordinate system into rectangular coordinates in live view coordinate system. More...

Function Documentation

```
UIImage* OLYCameraConvertDataToImage( NSData * data,
                                      NSDictionary * metadata
                                    )
```

Convert image data to UIImage object.

Parameters

data Image data

metadata Metadata of image data.

Returns

UIImage object generated from image data.

```
CGPoint OLYCameraConvertPointOnLiveImageToIntViewfinder( CGPoint point,
                                                       UIImage * liveImage
                                                     )
```

Convert coordinates in live view coordinate system into coordinates in viewfinder coordinate system.

Parameters

point Coordinates in live view coordinate system.

liveImage Live view image.

Returns

Coordinates in viewfinder coordinate system.

```
CGPoint OLYCameraConvertPointOnViewfinderIntoLiveImage ( CGPoint     point,  
                                                       UIImage * liveImage  
)
```

Convert coordinates in viewfinder coordinate system into coordinates in live view coordinate system.

Parameters

point Coordinates in viewfinder coordinate system.

liveImage Live view image.

Returns

Coordinates in live view coordinate system.

```
CGRct OLYCameraConvertRectOnLiveImageIntoViewfinder ( CGRect      rect,  
                                                       UIImage * liveImage  
)
```

Convert rectangular coordinates in live view coordinate system into the rectangular coordinates in viewfinder coordinate system.

This method is used to convert coordinates of auto focus frame for example.

Parameters

rect Rectangular coordinates in live view coordinate system.

liveImage Live view image.

Returns

Rectangular coordinates in viewfinder coordinate system.

```
CGRct OLYCameraConvertRectOnViewfinderIntoLiveImage ( CGRect      rect,  
                                                       UIImage * liveImage  
)
```

Convert rectangular coordinates in viewfinder coordinate system into rectangular coordinates in live view coordinate system.

This method is used to convert coordinates of auto focus frame for example.

Parameters

rect Rectangular coordinates in viewfinder coordinate system.

liveImage Live view image.

Returns

Rectangular coordinates in live view coordinate system.

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 - ▶ OLYCamera(CameraSystem)
 - OLYCamera(Maintenance)
 - ▶ OLYCamera(Playback)
 - OLYCamera(PlaybackMaintenance)
 - ▶ OLYCamera(Recording)
 - ▶ OLYCamera(RecordingSupports)
 - ▶ <OLYCameraConnectionDelegate>
 - ▶ <OLYCameraLiveViewDelegate>
 - OLYCameraLog
 - ▶ <OLYCameraLogDelegate>
 - <OLYCameraPlaybackDelegate>
 - ▶ <OLYCameraPropertyDelegate>
 - ▶ <OLYCameraRecordingDelegate>
 - ▶ <OLYCameraRecordingSupportsDeleg

▶ Modules

<OLYCameraRecordingSupportsDelegate> Member List

This is the complete list of members for [`<OLYCameraRecordingSupportsDelegate>`](#), including all inherited members.

- `camera:didReceiveCapturedImage:` [`<OLYCameraRecordingSupportsDelegate>`](#)
- `camera:didReceiveCapturedImagePreview:metadata:` [`<OLYCameraRecordingSupportsDelegate>`](#)
- `cameraDidStopDrivingZoomLens:` [`<OLYCameraRecordingSupportsDelegate>`](#)

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Constants

Overview

Constants referenced by Olympus camera class.

Olympus camera class: camera system category

NSString *const OLYCameraHardwareInformationCameraModelNameKey	Dictionary key for accessing 'Camera Model Name' element of camera hardware information.
NSString *const OLYCameraHardwareInformationCameraFirmwareVersionKey	Dictionary key for accessing 'Camera Firmware Version' element of camera hardware information.
NSString *const OLYCameraHardwareInformationLensTypeKey	Dictionary key for accessing 'Lens Type' element of camera hardware information.
NSString *const OLYCameraHardwareInformationLensIdKey	Dictionary key for accessing 'Lens ID' element of camera hardware information.
NSString *const OLYCameraHardwareInformationLensFirmwareVersionKey	Dictionary key for accessing 'Lens Firmware Version' element of camera hardware information.
NSString *const OLYCameraHardwareInformationFlashIdKey	Dictionary key for accessing 'Flash ID' element of camera hardware information.
NSString *const OLYCameraHardwareInformationFlashFirmwareVersionKey	Dictionary key for accessing 'Flash Firmware Version' element of camera hardware information.
NSString *const OLYCameraHardwareInformationAccessoryIdKey	Dictionary key for accessing 'Accessory ID' element of camera hardware information.
NSString *const OLYCameraHardwareInformationAccessoryFirmwareVersionKey	Dictionary key for accessing 'Accessory Firmware Version' element of camera hardware information.

Olympus camera class: playback category

const OLYCameraImageResize_OLYCameraImageResize1024	Resize long side of the image to 1024 pixels.
const OLYCameraImageResize_OLYCameraImageResize1600	Resize long side of the image to 1600 pixels.
const OLYCameraImageResize_OLYCameraImageResize1920	Resize long side of the image to 1920 pixels.
const OLYCameraImageResize_OLYCameraImageResize2048	Resize long side of image to 2048 pixels.
const OLYCameraImageResize_OLYCameraImageResizeNone	Use the original size of the image.
NSString *const OLYCameraContentListDirectoryKey	Dictionary key for accessing 'Directory path' elements of the content information.
NSString *const OLYCameraContentListFilenameKey	Dictionary key for accessing 'File name' elements of content information.
NSString *const OLYCameraContentListFilesizeKey	Dictionary key for accessing 'File size' elements of content information.
NSString *const OLYCameraContentListFiletypeKey	Dictionary key for accessing 'File type' elements of content information.
NSString *const OLYCameraContentListAttributesKey	Dictionary key for accessing 'File attribute list' elements of content information.
NSString *const OLYCameraContentListDatetimeKey	Dictionary key for accessing 'File modified date' elements of content information.
NSString *const OLYCameraContentListExtensionKey	Dictionary key for accessing 'Extension' elements of content information.

Olympus camera class: recording category

const OLYCameraLiveViewSize	OLYCameraLiveViewSizeQVGA
	Display in QVGA (320x240) size live view.
const OLYCameraLiveViewSize	OLYCameraLiveViewSizeVGA
	Display in VGA (640x480) size live view.
const OLYCameraLiveViewSize	OLYCameraLiveViewSizeSVGA
	Display in SVGA (800x600) size live view.
const OLYCameraLiveViewSize	OLYCameraLiveViewSizeXGA
	Display in XGA (1024x768) size live view.
const OLYCameraLiveViewSize	OLYCameraLiveViewSizeQuadVGA
	Display in Quad-VGA (1280x960) size live view.
NSString *const	OLYCameraStartTakingPictureOptionLimitShootingsKey
	Dictionary key to access elements that specifies maximum number of shots at beginning of continuous shooting.
NSString *const	OLYCameraTakingPictureProgressInfoFocusResultKey
	Dictionary key to access focusing result given as parameter of progressHandler when shooting.
NSString *const	OLYCameraTakingPictureProgressInfoFocusRectKey
	Dictionary key to access coordinates of focus given as parameter of progressHandler when shooting.

Olympus camera class: recording auxiliary category

NSString *const	OLYCameraLevelGaugeOrientationKey
	Dictionary key for accessing 'Orientation' elements of the level gauge information.
NSString *const	OLYCameraLevelGaugeRollingKey
	Dictionary key for accessing 'Roll' elements of the level gauge information. More...
NSString *const	OLYCameraLevelGaugePitchingKey
	Dictionary key for accessing 'Pitch' elements of the level gauge information. More...
NSString *const	OLYCameraDigitalZoomScaleRangeMinimumKey
	Dictionary key for accessing 'Minimum zoom scale' elements of the level gauge information.
NSString *const	OLYCameraDigitalZoomScaleRangeMaximumKey
	Dictionary key to access 'Maximum zoom scale' elements of the digital zoom information.

Olympus camera class: camera system category

NSString *const	OLYCameraKitVersion
	Version of Olympus camera kit. More...
NSString *const	OLYCameraKitBuildNumber
	Build number of Olympus Camera Kit.

Errors related

NSString *const	OLYCameraErrorDomain
	OLYCameraKit errors.
NSString *const	OLYCameraErrorDetailKey
	Dictionary key for accessing error detail elements in user's information of NSError instance.

Variable Documentation

NSString* const OLYCameraKitVersion

Version of Olympus camera kit.

Check this value if the SDK behavior seems incorrect. Problem may have been resolved in the latest version of the SDK.

NSString* const OLYCameraLevelGaugePitchingKey

Dictionary key for accessing 'Pitch' elements of the level gauge information.

'Pitch' describes the camera is pointed up or down.

NSString* const OLYCameraLevelGaugeRollingKey

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► OLYCameraRecordingSup

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OLYCameraFileInfo.Attribute Member List

This is the complete list of members for [OLYCameraFileInfo.Attribute](#), including all inherited members.

[Hidden](#) [OLYCameraFileInfo.Attribute](#)[Protected](#) [OLYCameraFileInfo.Attribute](#)

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► OLYCameraPlaybackLister

► OLYCameraPropertyLister

► OLYCameraRecordingLister

► OLYCameraRecordingSup

► OLYCameraStatusListener

OLYCameraFileInfo.Filetype Member List

This is the complete list of members for [OLYCameraFileInfo.Filetype](#), including all inherited members.

Directory [OLYCameraFileInfo.Filetype](#)

File [OLYCameraFileInfo.Filetype](#)

Unknown [OLYCameraFileInfo.Filetype](#)

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► Level

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LogListener

OLYCameraPlaybackLister

► OLYCameraPropertyLister

► OLYCameraRecordingLister

► OLYCameraRecordingSup

► OLYCameraStatusListener

OLYCameraLog.Level Member List

This is the complete list of members for [OLYCameraLog.Level](#), including all inherited members.

Debug [OLYCameraLog.Level](#)

Error [OLYCameraLog.Level](#)

Info [OLYCameraLog.Level](#)

Warning [OLYCameraLog.Level](#)

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OLYCamera(CameraConnection) Member List

This is the complete list of members for [OLYCamera\(CameraConnection\)](#), including all inherited members.

- [connect:](#) [OLYCamera\(CameraConnection\)](#)
- [connected](#) [OLYCamera\(CameraConnection\)](#)
- [connectionDelegate](#) [OLYCamera\(CameraConnection\)](#)
- [disconnectWithPowerOff:error:](#) [OLYCamera\(CameraConnection\)](#)

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OLYCamera(Playback) Member List

This is the complete list of members for [OLYCamera\(Playback\)](#), including all inherited members.

- [countNumberOfContents:](#) [OLYCamera\(Playback\)](#)
- [downloadContent:progressHandler:completionHandler:errorHandler:](#) [OLYCamera\(Playback\)](#)
- [downloadContentList:](#) [OLYCamera\(Playback\)](#)
- [downloadContentScreenshot:progressHandler:completionHandler:errorHandler:](#) [OLYCamera\(Playback\)](#)
- [downloadContentThumbnail:progressHandler:completionHandler:errorHandler:](#) [OLYCamera\(Playback\)](#)
- [downloadImage:withResize:progressHandler:completionHandler:errorHandler:](#) [OLYCamera\(Playback\)](#)
- [inquireContentInformation:error:](#) [OLYCamera\(Playback\)](#)
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OLYCamera(Recording) Member List

This is the complete list of members for [OLYCamera\(Recording\)](#), including all inherited members.

- actionType	OLYCamera(Recording)
actualApertureValue	OLYCamera(Recording)
actualAutoFocusPoint	OLYCamera(Recording)
actualExposureCompensation	OLYCamera(Recording)
actualFocalLength	OLYCamera(Recording)
actualIsoSensitivity	OLYCamera(Recording)
actualIsoSensitivityWarning	OLYCamera(Recording)
actualShutterSpeed	OLYCamera(Recording)
- autoExposureEffectiveArea:	OLYCamera(Recording)
- autoFocusEffectiveArea:	OLYCamera(Recording)
- changeLiveViewSize:error:	OLYCamera(Recording)
- clearAutoExposurePoint:	OLYCamera(Recording)
- clearAutoFocusPoint:	OLYCamera(Recording)
exposureMeteringWarning	OLYCamera(Recording)
exposureWarning	OLYCamera(Recording)
liveViewDelegate	OLYCamera(Recording)
liveViewSize	OLYCamera(Recording)
- lockAutoExposure:	OLYCamera(Recording)
- lockAutoFocus:errorHandler:	OLYCamera(Recording)
maximumFocalLength	OLYCamera(Recording)
minimumFocalLength	OLYCamera(Recording)
recordingDelegate	OLYCamera(Recording)
recordingVideo	OLYCamera(Recording)
- setAutoExposurePoint:error:	OLYCamera(Recording)
- setAutoFocusPoint:error:	OLYCamera(Recording)
- startRecordingVideo:completionHandler:errorHandler:	OLYCamera(Recording)
- startTakingPicture:progressHandler:completionHandler:errorHandler:	OLYCamera(Recording)
- stopRecordingVideo:errorHandler:	OLYCamera(Recording)
- stopTakingPicture:completionHandler:errorHandler:	OLYCamera(Recording)
- takePicture:progressHandler:completionHandler:errorHandler:	OLYCamera(Recording)
takingPicture	OLYCamera(Recording)
- unlockAutoExposure:	OLYCamera(Recording)
- unlockAutoFocus:	OLYCamera(Recording)

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OLYCamera(RecordingSupports) Member List

This is the complete list of members for [OLYCamera\(RecordingSupports\)](#), including all inherited members.

-	changeDigitalZoomScale:error:	OLYCamera(RecordingSupports)
	detectedHumanFaces	OLYCamera(RecordingSupports)
-	digitalZoomScaleRange:	OLYCamera(RecordingSupports)
	drivingZoomLens	OLYCamera(RecordingSupports)
	levelGauge	OLYCamera(RecordingSupports)
	recordingSupportsDelegate	OLYCamera(RecordingSupports)
-	startDrivingZoomLensForDirection:speed:error:	OLYCamera(RecordingSupports)
-	startDrivingZoomLensToFocalLength:error:	OLYCamera(RecordingSupports)
-	stopDrivingZoomLens:	OLYCamera(RecordingSupports)

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OLYCameraLog Member List

This is the complete list of members for [OLYCameraLog](#), including all inherited members.

delegate	OLYCameraLog	
+ resetDelegate	OLYCameraLog	static
+ setDelegate:	OLYCameraLog	static
+ sharedLog	OLYCameraLog	static

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Classes

Here are the classes and protocols with brief descriptions:

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▼ N jp	
▼ N co	
▼ N olympus	
▼ N camerakit	
▼ C OLYCamera	Olympus camera class
C ActionType	Type of shooting mode and drive mode
C CompletedCallback	Interface to monitor whether operation is complete
C DownloadContentCallback	Interface to monitor download progress of media file
C DownloadContentListCallback	Interface to monitor download progress for list of media stored in the camera
C DownloadImageCallback	Interface to monitor progress of image download
C DrivingZoomLensDirection	Driving direction of optical zoom
C DrivingZoomLensSpeed	Driving speed of optical zoom
C LiveViewSize	Supported size of live view image
C ProgressCallback	Interface to monitor processing status
C ProgressEvent	Report progress of processing
C RunMode	Run mode of the camera
C TakePictureCallback	Interface to monitor progress of shooting operation
C TakingProgress	Progress of shooting operation
C OLYCameraAutoFocusResult	Focusing result of auto focus
C OLYCameraConnectionListener	Interface to receive state of communication channel when it changes
▼ C OLYCameraFileInfo	This class stores attributes of media (still image and movie) file and directory
C Attribute	File attribute
C Filetype	File type
C OLYCameraKitException	Custom exceptions that may occur when application access the camera
C OLYCameraLiveViewListener	Interface to notify state of live view image when it changes
▼ C OLYCameraLog	Log management class
C Level	Log level
C LogEventArgs	Log event class
C LogListener	Interface to receive log messages from SDK
C OLYCameraPlaybackListener	Interface to receive camera state regarding playback operation when it changes
C OLYCameraPropertyListener	Interface to receive when the camera property changes
C OLYCameraRecordingListener	Interface to notify camera state when it changes
C OLYCameraRecordingSupportsListener	Interface to notify camera state when it changes
C OLYCameraStatusListener	Interface to receive changes in camera state

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Overview

Olympus camera class.

This class provides the operation and display of live view, including content acquisition in the camera and capturing of still images and recording movies by connecting to the camera. This class has several groups.

Please refer to each group for details of the interface.

- [Camera Communication group](#)
 - This is camera communication group of Olympus camera class. This group provides the connection and disconnection to the camera.
- [Camera System group](#)
 - This is camera system group of Olympus camera class. This group enables one to get or set the camera settings (Camera property) and change run mode.
 - For example, application can get or set the following camera properties:
 - Basic settings (aperture value, shutter speed, and exposure mode, etc.)
 - Color tone and finish setting (white balance, art filter, etc.)
 - Focus settings (focus mode, such as focus lock)
 - Image quality and saving settings (image size, compression ratio, image quality mode, etc.)
 - Camera status (battery level, angle of view, etc.)
 - Recording auxiliary (face detection and sound volume level, etc.)
 - Please refer to the list of camera properties for more information.
- [Maintenance group](#)
 - This is maintenance group of Olympus camera class.
 - This group provides no function and is reserved for future expansion.
- [Playback group](#)
 - This is playback group of Olympus camera class.
 - This group can download and edit video and still images saved in the camera.
- [Playback Auxiliary group](#)
 - This is playback auxiliary group of Olympus camera class.
 - This group provides no function and is reserved for future expansion.
- [Recording group](#)
 - This is recording group of Olympus camera class. This group takes still pictures and records video, exposure control, and focus control.
- [Recording Auxiliary group](#)
 - This is recording auxiliary group of Olympus camera class. This group provides zoom control and other features to support recording still image and movie.

Several functions are provided for the vendor. These are not available in third party applications.

Classes

enum	ActionType	Type of shooting mode and drive mode. More...
interface	CompletedCallback	Interface to monitor whether operation is complete. More...
interface	DownloadContentCallback	Interface to monitor download progress of media file. More...
interface	DownloadContentListCallback	Interface to monitor download progress for list of media stored in the camera. More...
interface	DownloadImageCallback	Interface to monitor progress of image download. More...
enum	DrivingZoomLensDirection	Driving direction of optical zoom. More...
enum	DrivingZoomLensSpeed	Driving speed of optical zoom. More...
class	LiveViewSize	Supported size of live view image. More...
interface	ProgressCallback	Interface to monitor processing status. More...

classjp_1_1co_1_1olympus_1_1camerakit_1_1_o_1_y_camera.html[2014/11/28 13:18:24]

class	ProgressEvent
	Report progress of processing. More...
enum	RunMode
	Run mode of the camera. More...
interface	TakePictureCallback
	Interface to monitor progress of shooting operation. More...
enum	TakingProgress
	Progress of shooting operation. More...

Instance

This is [OLYCamera](#) instance group.

OLYCamera ()
Constructor of OLYCamera .
String toString ()
Return description of this object in string format. More...
static String getVersion ()
Version of Olympus camera kit. More...
static String getBuildNumber ()
Build number of Olympus camera kit.

Camera Communication group

Camera communication group of Olympus camera class. This group connects and disconnects the camera.

void setConnectionListener (OLYCameraConnectionListener l)
Set listener to receive change to communication state of the camera. More...
boolean isConnected ()
Return whether the camera is currently connected. More...
void connect () throws OLYCameraKitException
Connect to the camera. More...
void disconnectWithPowerOff (boolean powerOff) throws OLYCameraKitException
Disconnect from the camera. More...

Camera system group

This is camera system group of Olympus camera class.

For example, application can get or set the following camera properties:

- Basic settings (F value, shutter speed, and exposure mode, etc.)
- Color tone and finish settings (white balance, art filter, etc.)
- Focus settings (focus mode, such as focus lock)
- Image quality and saving settings (image size, compression ratio, image quality mode, etc.)
- Camera status (battery level, angle of view, etc.)
- Recording auxiliary (face detection, sound volume level, etc.)

Please refer to the camera list of properties for more information.

static final String HARDWARE_INFORMATION_CAMERA_MODEL_NAME_KEY = "cameramodel"
Dictionary key for accessing 'Camera Model Name' elements of camera hardware information.
static final String HARDWARE_INFORMATION_CAMERA_FIRMWARE_VERSION_KEY = "fwversion"
Dictionary key for accessing 'Camera Firmware Version' elements of camera hardware information.
static final String HARDWARE_INFORMATION_LENS_TYPE_KEY = "lenstype"
Dictionary key for accessing 'Lens Type' elements of camera hardware information.
static final String HARDWARE_INFORMATION_LENS_ID_KEY = "lensID"
Dictionary key for accessing 'Lens ID' elements of camera hardware information.
static final String HARDWARE_INFORMATION_LENS_FIRMWARE_VERSION_KEY = "lensfwversion"
Dictionary key for accessing 'Lens Firmware Version' elements of camera hardware information.
static final String HARDWARE_INFORMATION_FLASH_ID_KEY = "stbID"
Dictionary key for accessing 'Flash ID' elements of camera hardware information.
static final String HARDWARE_INFORMATION_FLASH_FIRMWARE_VERSION_KEY = "stbfwversion"

	Dictionary key for accessing 'Flash Firmware Version' elements of camera hardware information.
static final String	HARDWARE_INFORMATION_ACCESSORY_ID_KEY = "acclensID" Dictionary key for accessing 'Accessory ID' elements of camera hardware information.
static final String	HARDWARE_INFORMATION_ACCESSORY_FIRMWARE_VERSION_KEY = "acclensfwversion" Dictionary key for accessing 'Accessory Firmware Version' elements of camera hardware information.
void	setCameraStatusListener (OLYCameraStatusListener I) Set listener to receive changes to camera property. More...
boolean	isHighTemperatureWarning () Return whether inside of the camera is in high-temperature condition. More...
String	getLensMountStatus () Return status of lens mount. More...
String	getMediaMountStatus () Return status of media (memory card) mount. More...
boolean	isMediaBusy () Return whether the camera is writing to the media (memory card). More...
boolean	isMediaError () Return whether the media (memory card) I/O error is occurred. More...
long	getRemainingMediaCapacity () Free space of the media (memory card) attached to the camera. More...
int	getRemainingImageCapacity () Return the maximum number of capturing images that can be stored in the media (memory card). More...
double	getRemainingVideoCapacity () Return the maximum number of seconds of recording a movie that can be stored in the media (memory card). More...
Map< String, Object >	inquireHardwareInformation () throws OLYCameraKitException Get hardware information of the camera. More...
void	setCameraPropertyListener (OLYCameraPropertyListener I) Set listener to receive when the camera property changes. More...
Set< String >	getCameraPropertyNames () Return list of camera property names currently available. More...
List< String >	getCameraPropertyValueList (String name) throws OLYCameraKitException Get list of the camera property values that can be set. More...
String	getCameraPropertyValue (String name) throws OLYCameraKitException Get value that is set in the camera properties. More...
Map< String, String >	getCameraPropertyValues (Set< String > names) throws OLYCameraKitException Get values that are set in the camera properties. More...
String	getCameraPropertyTitle (String name) Get title (display name) of the camera property. More...
String	getCameraPropertyValueTitle (String value) Get title (display name) of the camera property value. More...
boolean	canSetCameraProperty (String name) Check to see if value to the camera properties can be set. More...
void	setCameraPropertyValue (String name, String value) throws OLYCameraKitException Set value to the camera properties. More...
void	setCameraPropertyValues (Map< String, String > values) throws OLYCameraKitException Set values to camera properties. More...
RunMode	getRunMode () Return current run mode of the camera. More...
void	changeRunMode (RunMode mode) throws IllegalArgumentException, OLYCameraKitException Changes run mode of the camera system. More...
void	setGeolocation (String location) throws OLYCameraKitException Register geolocation information to the camera. More...
void	clearGeolocation () throws OLYCameraKitException Discard registered geolocation information. More...

Playback group

Playback group of Olympus camera class.

This group downloads and edits still image and movie saved in the camera.

static final float	IMAGE_RESIZE_1024 = 1024	Resize long side of the image to 1024 pixels.
static final float	IMAGE_RESIZE_1600 = 1600	Resize long side of the image to 1600 pixels.
static final float	IMAGE_RESIZE_1920 = 1920	Resize long side of the image to 1920 pixels.
static final float	IMAGE_RESIZE_2048 = 2048	Resize long side of the image to 2048 pixels.
static final float	IMAGE_RESIZE_NONE = Float.MAX_VALUE	Use the original size of the image.
void	downloadContentList (DownloadContentListCallback callback)	Download list of all supported media (still image and video) in the camera. More...
void	downloadContentThumbnail (String path, DownloadImageCallback callback)	Download thumbnail of still image stored in memory card. More...
void	downloadContentScreenail (String path, DownloadImageCallback callback)	Download thumbnail of movie stored in memory card. More...
void	downloadImage (String path, float resize, DownloadImageCallback callback)	Download resized still image. More...
void	downloadContent (String path, DownloadContentCallback callback)	Download media (still image and movie) stored in memory card. More...
int	countNumberOfContents () throws OLYCameraKitException	Count the number of media (still image and movie) in the camera. More...
Map< String, Object >	inquireContentInformation (String path) throws OLYCameraKitException	Get information of media (still image and movie) stored in memory card. More...

Recording group of Olympus camera class.

This group takes still pictures and records video, exposure control, and focus control.

Application can configure exposure parameters, focus, color and tone using camera property control methods in [Camera System group](#). Please refer to list of camera properties for more information.

static final String	START_TAKING_PICTURE_OPTION_LIMIT_SHOOTINGS_KEY = "_limit"	Dictionary key to access elements that specifies maximum number of shots at beginning of continuous shooting.
OLYCamera.LiveViewSize	getLiveViewSize ()	Return pixel size of live view. More...
	setLiveViewListener (OLYCameraLiveViewListener l)	Set listener to notify state of live view image when it changes. More...
	setRecordingListener (OLYCameraRecordingListener l)	Set listener to notify camera state when it changes. More...
boolean	isTakingPicture ()	Return whether photo shooting is in progress on the camera. More...
boolean	isRecordingVideo ()	Return whether video recording is in progress on the camera. More...
PointF	getActualAutoFocusPoint ()	Return coordinates focused with autofocus. More...
float	getActualFocalLength ()	Return current focal length of the lens. More...
float	getMinimumFocalLength ()	Return focal length at the wide end of the lens. More...
float	getMaximumFocalLength ()	Return focal length at the telephoto end of the lens. More...
String	getActualApertureValue ()	Return F value used by lens and camera. More...
String	getActualShutterSpeed ()	Return shutter speed used by the camera. More...
String	getActualExposureCompensation ()	Return exposure compensation value used by the camera. More...
String	getActualIsoSensitivity ()	Return ISO sensitivity used by camera. More...
boolean	isActualIsoSensitivityWarning ()	Return whether out of range warning of ISO sensitivity is occurring on the camera. More...

boolean	isExposureWarning ()	Return that out of range warning of the exposure is occurring on the camera. More...
boolean	isExposureMeteringWarning ()	Return whether warning of the exposure metering is occurring on the camera. More...
void	changeLiveViewSize (OLYCamera.LiveViewSize size) throws OLYCameraKitException	Change the size of live view. More...
ActionType	getActionType ()	Get the shooting mode and drive mode. More...
void	startTakingPicture (HashMap< String, Object > options, TakePictureCallback callback)	Start shooting photo. More...
void	stopTakingPicture (TakePictureCallback callback)	Finish shooting photo. More...
void	takePicture (HashMap< String, Object > options, TakePictureCallback callback)	Execute batch operation from start of shooting photos to end of shooting. More...
void	startRecordingVideo (HashMap< String, Object > options, CompletedCallback callback)	Start recording movie. More...
void	stopRecordingVideo (CompletedCallback callback)	Finish recording movie. More...
void	lockAutoFocus (TakePictureCallback callback)	Lock autofocus operation. More...
void	unlockAutoFocus () throws OLYCameraKitException	Unlock autofocus operation. More...
void	setAutoFocusPoint (PointF point) throws OLYCameraKitException	Set coordinates to use for auto focus. More...
void	clearAutoFocusPoint () throws OLYCameraKitException	Clear coordinates used for auto focus. More...
void	lockAutoExposure () throws OLYCameraKitException	Lock operation of automatic exposure control. More...
void	unlockAutoExposure () throws OLYCameraKitException	Release lock of automatic exposure control. More...
void	setAutoExposurePoint (PointF point) throws OLYCameraKitException	Specify coordinates of reference exposure for automatic exposure control. More...
void	clearAutoExposurePoint () throws OLYCameraKitException	Release specified coordinates of reference exposure for automatic exposure control. More...
RectF	getAutoFocusEffectiveArea () throws OLYCameraKitException	Get valid range of coordinates to use for auto focus. More...
RectF	getAutoExposureEffectiveArea () throws OLYCameraKitException	Get valid range of coordinates to use for automatic exposure control. More...

Recording auxiliary group of Olympus camera class.

This group provides zoom control and other features to support recording still image and movie.

static final String	LEVEL_GAUGE_ORIENTATION_KEY = "orientation"	Dictionary key for accessing 'Orientation' elements of the level gauge information.
static final String	LEVEL_GAUGE_ROLLING_KEY = "roll"	Dictionary key for accessing 'Roll' elements of the level gauge information. More...
static final String	LEVEL_GAUGE_PITCHING_KEY = "pitch"	Dictionary key for accessing 'Pitch' elements of the level gauge information. More...
static final String	DIGITAL_ZOOM_SCALE_RANGE_MINIMUM_KEY = "minimumZoomScale"	Dictionary key for accessing 'Minimum zoom scale' elements of the level gauge information.
static final String	DIGITAL_ZOOM_SCALE_RANGE_MAXIMUM_KEY = "maximumZoomScale"	Dictionary keys to access 'Maximum zoom scale' elements of the digital zoom information.
void	setRecordingSupportsListener (OLYCameraRecordingSupportsListener I)	Set listener to notify camera state when it changes. More...
boolean	isDrivingZoomLens ()	Return whether optical zoom is changing in the camera. More...
boolean	isMagnifyingLiveView ()	Return whether the live view has been magnified. More...
Map< String, Object >	getLevelGauge ()	Return information of level gauge. More...
Map< String, Rect >	getDetectedHumanFaces ()	

	Return face recognition results. More...
void	startDrivingZoomLensForDirection (DrivingZoomLensDirection direction, DrivingZoomLensSpeed speed) throws OLYCameraKitException Start driving optical zoom with specific speed and direction. More...
void	startDrivingZoomLensToFocalLength (float focalLength) throws OLYCameraKitException Start driving optical zoom to specified focal length. More...
void	stopDrivingZoomLens () throws OLYCameraKitException Stop driving optical zoom. More...
Map< String, Float >	getDigitalZoomScaleRange () throws OLYCameraKitException Get configurable magnification range of digital zoom. More...
void	changeDigitalZoomScale (float scale) throws OLYCameraKitException Change magnification of digital zoom. More...

Coordinate conversion utilities

These utilities convert between coordinates in viewfinder coordinate system and coordinates in live view coordinate system.

Live view coordinate system is in units of pixels for live view image. The origin is the upper-left corner. Vertical and horizontal coordinate axes match the image display of the smartphone. If camera is rotated into portrait orientation, the origin is still in the upper-left, but the width and height of the image are changed since image is rotated. Live view coordinates are used to represent a pixel position on the image when user touches the live view.

Viewfinder coordinate system is normalized to width = 1.0 and height = 1.0 for live view image. The origin is the upper-left corner. Vertical and horizontal coordinate axes correspond to image sensor in camera. If camera is rotated into portrait or landscape mode, there is no change to the image width and height or the picture rotation. Viewfinder coordinate system is used to represent the in-focus position and the position of the specified auto focus lock.

PointF	convertPointOnLiveImageIntoViewfinder (PointF point, float width, float height, int rotatedDegrees) Convert coordinates in live view coordinate system into coordinates in viewfinder coordinate system. More...
PointF	convertPointOnViewfinderIntoLiveImage (PointF point, float width, float height, int rotatedDegrees) Convert coordinates in viewfinder coordinate system into coordinates in live view coordinate system. More...
RectF	convertRectOnLiveImageIntoViewfinder (RectF rect, float width, float height, int rotatedDegrees) Convert rectangular coordinates in live view coordinate system into the rectangular coordinates in viewfinder coordinate system. More...
RectF	convertRectOnViewfinderIntoLiveImage (RectF rect, float width, float height, int rotatedDegrees) Convert rectangular coordinates in viewfinder coordinate system into rectangular coordinates in live view coordinate system. More...

Member Function Documentation

boolean canSetCameraProperty (String name)

Check to see if value to the camera properties can be set.

If application specifies a value that does not exist in the list of camera properties currently available, error occurs. Depending on the setting value of the shooting mode, connection type, etc., several properties are read-only access or prohibited. Please refer to the documentation of the camera list of properties for more information.

Parameters

name The camera property name.

Returns

If true, the camera property can be set. If false, the camera property cannot be set.

See Also

[OLYCamera::getCameraPropertyNames](#)
[OLYCamera::setCameraPropertyValue](#)

void changeDigitalZoomScale (float scale) throws [OLYCameraKitException](#)

Change magnification of digital zoom.

If application specifies magnification that is not included in the configurable range, there will be an error. When changing run mode to any mode except recording mode, magnification is changed back to 1x automatically.

Parameters

scale Magnification of digital zoom.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::digitalZoomScaleRange](#):

**void changeLiveViewSize (OLYCamera.LiveViewSize size) throws
OLYCameraKitException**

Change the size of live view.

Parameters

size Size of live view.

See Also

[OLYCamera::liveViewSize](#)

**void changeRunMode (RunMode mode) throws IllegalArgumentException,
OLYCameraKitException**

Changes run mode of the camera system.

Available camera features change for different run modes. For example, application should change the mode to [OLYCamera::RunMode::Playback](#) when shooting photographs, and should change the mode to [OLYCamera::RunMode::Recording](#) when getting a list of the camera contents. Please refer to the related documentation for more information on relationship between run mode and available camera features.

Response of this API may become slow when shooting or writing memory card.

Parameters

mode Run mode of the camera.

See Also

[OLYCamera::getRunMode](#)

**void clearAutoExposurePoint () throws
OLYCameraKitException**

Release specified coordinates of reference exposure for automatic exposure control.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::setAutoExposurePoint](#)

**void clearAutoFocusPoint () throws
OLYCameraKitException**

Clear coordinates used for auto focus.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::setAutoFocusPoint](#)

**void clearGeolocation () throws
OLYCameraKitException**

Discard registered geolocation information.

See Also

[OLYCamera::setGeolocation](#)

Convert rectangular coordinates in viewfinder coordinate system into rectangular coordinates in live view coordinate system.

This method is used to convert coordinates of auto focus frame for example.

Parameters

rect Rectangular coordinates in viewfinder coordinate system.

width Width of live view image.

height Height of live view image.

rotatedDegrees Rotate angle of live view image in degrees.

Returns

Rectangular coordinates in live view coordinate system.

```
int countNumberOfContents( ) throws
    OLYCameraKitException
```

Count the number of media (still image and movie) in the camera.

Returns

Number of media.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Playback](#)

```
void disconnectWithPowerOff( boolean powerOff ) throws
    OLYCameraKitException
```

Disconnect from the camera.

You can also power off the camera when you disconnect from the camera. Disconnect is successful, the value of the **powerOff** property and state of the camera will be cleared. (Communication settings of the camera connection are not cleared.)

Parameters

powerOff If true, the camera will be powered off with disconnection from the camera.

Returns

If true, the operation was successful. If false, the operation had an abnormal termination.

```
void downloadContent( String path,
    DownloadContentCallback callback
)
```

Download media (still image and movie) stored in memory card.

File path must be string which combines the directory path and file name obtained from list of all supported media and otherwise causes an error.

Parameters

path File path to the still image or movie.

callback Callback used when download status changes.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Playback](#)

```
void downloadContentList( DownloadContentListCallback callback )
```

Download list of all supported media (still image and video) in the camera.

Download list of files in memory card that is mounted in the camera in /DCIM directory. List contains all still image and movie files in supported format. Application should distinguish unsupported files using file extension and eliminate them from the list before use.

Parameters

callback Callback used when download status changes.

Downloaded list is array of [OLYCameraFileInfo](#) object.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Playback](#)

```
void downloadContentScreenail( String path,
                               DownloadImageCallback callback
                             )
```

Download thumbnail of movie stored in memory card.

File path must be string which combines the directory path and file name obtained from list of all supported media and otherwise causes an error.

Parameters

path File path to the movie.

callback Callback used when download status changes.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Playback](#)

```
void downloadContentThumbnail( String path,
                               DownloadImageCallback callback
                             )
```

Download thumbnail of still image stored in memory card.

File path must be string which combines the directory path and file name obtained from list of all supported media and otherwise causes an error.

Parameters

path File path to the still image.

callback Callback used when download status changes.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Playback](#)

```
void downloadImage( String path,
                     float resize,
                     DownloadImageCallback callback
                   )
```

Download resized still image.

File path must be string which combines the directory path and file name obtained from list of all supported media and otherwise causes an error.

Parameters

path File path to the still image.

resize Size in number of pixels after resizing.

callback Callback used when download status changes.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Playback](#)

[**ActionType getActionType\(\)**](#)

Get the shooting mode and drive mode.

Returns

Shooting mode and drive mode.

Application can determine whether to perform any shooting processing as a response to a user tap by referring to this value. Please refer to the description of [OLYCamera::ActionType](#).

String getActualApertureValue()

Return F value used by lens and camera.

Returns

F value used by lens and camera.

This value can change depending on the state of the object and the shooting mode. This value can be changed when zooming where the focal length is set to the minimum aperture. Aperture value is set to the minimum value if the value to be set is smaller than the minimum value. Please refer to the documentation of the list of camera properties for more information.

This property is not set if the following conditions are not met.

- Lens is mounted.
- Run mode is set to recording mode.
- SDK has started receiving live view information. (App does not have to use delegate method.)

PointF getActualAutoFocusPoint()

Return coordinates focused with autofocus.

Returns

Coordinates focused with autofocus.

These coordinates are expressed in viewfinder coordinate system. Application can convert the coordinates in the live view image using the coordinate conversion utility [OLYCamera::convertPointOnViewfinderIntoLiveImage](#).

See Also

[OLYCamera::setAutoFocusPoint](#)

[OLYCamera::clearAutoFocusPoint](#)

String getActualExposureCompensation()

Return exposure compensation value used by the camera.

Returns

Exposure compensation value used by the camera.

This value can change depending on the state of the object and the shooting mode. Please refer to the documentation of the list of camera properties for more information.

This property is not set if the following conditions are not met.

- Lens is mounted.
- Run mode is set to recording mode.
- SDK has started receiving live view information. (App does not have to use delegate method.)

float getActualFocalLength()

Return current focal length of the lens.

Returns

Current focal length of the lens.

See Also

[OLYCamera::startDrivingZoomLensForDirection](#)

[OLYCamera::startDrivingZoomLensToFocalLength](#)

[OLYCamera::stopDrivingZoomLens](#)

String getActualIsoSensitivity()

Return ISO sensitivity used by camera.

Returns

ISO sensitivity used by camera.

When ISO sensitivity of the camera property is set to automatic, the value that the camera has chosen will be set. This value can change depending on the state of the object and the shooting mode. Please refer to the documentation of the list of camera properties for more information.

This property is not set if the following conditions are not met.

- Lens is mounted.

- Run mode is set to recording mode.
- SDK has started receiving live view information. (App does not have to use delegate method.)

String getActualShutterSpeed()

Return shutter speed used by the camera.

Returns

Shutter speed used by the camera.

This value can change depending on the state of the object and the shooting mode. Please refer to the list of camera properties for more information.

This property is not set if the following conditions are not met.

- Lens is mounted.
- Run mode is set to recording mode.
- SDK has started receiving live view information. (App does not have to use delegate method.)

RectF getAutoExposureEffectiveArea() throws

[OLYCameraKitException](#)

Get valid range of coordinates to use for automatic exposure control.

Returns

Rectangular coordinates indicating the effective range. Coordinates are in viewfinder coordinate system.

Application can convert to rectangular coordinates for live view image on the rectangular coordinates indicating the range using the coordinate conversion utility [OLYCamera::convertRectOnViewfinderToIntLiveImage](#).

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::setAutoExposurePoint](#)

RectF getAutoFocusEffectiveArea() throws

[OLYCameraKitException](#)

Get valid range of coordinates to use for auto focus.

Returns

Rectangular coordinates indicating the effective range. Coordinates are in viewfinder coordinate system.

Application can convert to rectangular coordinates from live view image in the rectangular coordinates indicating the range using the coordinate conversion utility [OLYCamera::convertRectOnViewfinderToIntLiveImage](#).

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::setAutoFocusPoint](#)

Set<String> getCameraPropertyNames()

Return list of camera property names currently available.

Returns

List of camera property names currently available.

Application must check whether the target camera property is contained in the list or not. If not, the target property can not be configured.

See Also

[OLYCamera::getCameraPropertyValue](#)
[OLYCamera::getCameraPropertyValueList](#)
[OLYCamera::setCameraPropertyValue](#)

String getCameraPropertyTitle(String name)

Get title (display name) of the camera property.

If application specifies a value that does not exist in the list of camera properties currently available, error occurs.

Please refer to the documentation of the camera list of properties for more information.

Parameters

name The camera property name.

Returns

Title of the camera property.

See Also

[OLYCamera::getCameraPropertyNames](#)

String getCameraPropertyValue(String name) throws

[OLYCameraKitException](#)

Get value that is set in the camera properties.

If application specifies a value that does not exist in the list of camera properties currently available, error occurs.

Depending on shooting mode, connection type, etc., several properties are read-only access or prohibited. Please refer to the documentation of the camera list of properties for more information.

Parameters

name The camera property name.

Returns

The value set in the camera properties.

See Also

[OLYCamera::getCameraPropertyNames](#)

[OLYCamera::canSetCameraProperty](#)

[OLYCamera::setCameraPropertyValue](#)

List<String> getCameraPropertyValueList(String name) throws

[OLYCameraKitException](#)

Get list of the camera property values that can be set.

If application specifies a value that does not exist in the list of camera properties currently available, application will have an error. If application changes settings such as shooting mode, there are times when the contents of the list changes. Please refer to the documentation of the camera list of properties for more information.

Parameters

name The camera property name.

Returns

The list of the camera property values that can be set.

See Also

[OLYCamera::getCameraPropertyNames](#)

[OLYCamera::getCameraPropertyValue](#)

Map<String, String> getCameraPropertyValues(Set< String > names) throws

[OLYCameraKitException](#)

Get values that are set in the camera properties.

If application specifies a value that does not exist in the list of camera properties currently available, error occurs.

Depending on shooting mode, connection type, etc., several properties are read-only access or prohibited. Please refer to the documentation of the camera list of properties for more information.

Parameters

names The camera property names. Each element is a string.

Returns

The values set in the camera properties.

The retrieved values are in dictionary format. The dictionary key is the camera property name. Setting of the camera property is stored in value corresponding to the key.

See Also

[OLYCamera::getCameraPropertyNames](#)

[OLYCamera::setCameraPropertyValues](#)

String getCameraPropertyValueTitle (String value)

Get title (display name) of the camera property value.

If application specifies a value that does not exist in the list of camera properties currently available, error occurs. Depending on the setting value of the shooting mode, connection type, etc., several properties are read-only access or prohibited. Please refer to the documentation of the camera list of properties for more information.

Parameters

value Camera property value.

Returns

Title of camera property value.

See Also

[OLYCamera::getCameraPropertyNames](#)

[OLYCamera::getCameraPropertyValue](#)

Map<String, Rect> getDetectedHumanFaces ()

Return face recognition results.

Returns

Face recognition results.

Coordinate information of face detected by the camera is stored in a dictionary format. The dictionary key is a string that represents the identification number. It is not possible to track the coordinates of a recognized face by relying on a specific identification number.

This property is not set if the following conditions are not met.

- Run mode is set to recording mode.
- SDK has started receiving live view information. (App does not have to use delegate method.)

Map<String, Float> getDigitalZoomScaleRange () throws

[OLYCameraKitException](#)

Get configurable magnification range of digital zoom.

Returns

Configurable magnification range of digital zoom in dictionary format.

The following information is included.

- [OLYCamera::DIGITAL_ZOOM_SCALE_RANGE_MINIMUM_KEY](#) ... Minimum magnification.
- [OLYCamera::DIGITAL_ZOOM_SCALE_RANGE_MAXIMUM_KEY](#) ... Maximum magnification.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::changeDigitalZoomScale:error:](#)

String getLensMountStatus ()

Return status of lens mount.

Returns

Status of lens mount.

Status of lens mount:

- (nil) ... It is not connected to the camera, or the state is unknown.
- "normal" ... The lens is mounted and available. If the lens has some additional functions, the following items are added to the end of "normal".
 - "+electriczoom" ... The lens is equipped with a motorized zoom.
 - "+macro" ... The lens is equipped with a macro mode.
- "down" ... The lens is mounted. However retractable lens is not extended.
- "nolens" ... Disabled because no lens is mounted.
- "cantshoot" ... Disabled by other reason.

Map<String, Object> getLevelGauge()

Return information of level gauge.

Returns

Information of level gauge.

The following information is included.

- [OLYCamera::LEVEL_GAUGE_ORIENTATION_KEY](#) ... Inclination and orientation on the camera body.
 - "landscape" ... Lens mount tilt is 0 degrees. Camera body is in horizontal direction. This is the normal state.
 - "portrait_left" ... Lens mount tilt is 90 degrees clockwise. Camera body is in horizontal direction.
 - "landscape_upside_down" ... Lens mount tilt is 180 degrees. Camera body is in horizontal direction. This is upside down state.
 - "portrait_right" ... Lens mount tilt is 270 degrees clockwise. Camera body is in horizontal direction.
 - "faceup" ... The camera is pointed up. Horizontal orientation is undefined.
 - "facedown" ... The camera is pointed down. Horizontal orientation is undefined.
- [OLYCamera::LEVEL_GAUGE_ROLLING_KEY](#) ... Roll angle in degrees of the camera body relative to horizontal. If the angle cannot be determined, NaN is returned.
- [OLYCamera::LEVEL_GAUGE_PITCHING_KEY](#) ... Pitch angle in degrees of the camera body relative to horizontal. If the angle cannot be determined, NaN is returned.

This property is not set if the following conditions are not met.

- Run mode is set to recording mode.
- SDK has started receiving live view information. (App does not have to use delegate method.)

OLYCamera.LiveViewSize getLiveViewSize()

Return pixel size of live view.

See Also

[OLYCamera::changeLiveViewSize](#)

float getMaximumFocalLength()

Return focal length at the telephoto end of the lens.

This is the longest focal length of the lens.

Returns

Focal length at the telephoto end of the lens.

See Also

[OLYCamera::startDrivingZoomLensForDirection](#)

[OLYCamera::startDrivingZoomLensToFocalLength](#)

String getMediaMountStatus()

Return status of media (memory card) mount.

Returns

Status of media mount.

Status of media mount:

- (nil) ... It is not connected to the camera, or the state is unknown.
- "normal" ... Available in the media already mounted.
- "readonly" ... The media is already mounted. But cannot write for that the media is read-only.
- "cardfull" ... The media is already mounted. But cannot write for that the media is no free space.
- "unmount" ... Disabled by the media is not mounted.
- "error" ... Disabled by a media mount error.

float getMinimumFocalLength()

Return focal length at the wide end of the lens.

This is the shortest focal length of the lens.

Returns

Focal length at the wide end of the lens.

See Also

[OLYCamera::startDrivingZoomLensForDirection](#)
[OLYCamera::startDrivingZoomLensToFocalLength](#)

int getRemainingImageCapacity()

Return the maximum number of capturing images that can be stored in the media (memory card).

Returns

The maximum number of capturing images that can be stored in the media.

This value does not indicate the exact value depends on the data for the compression ratio of the captured image. Sometimes the value does not change after capturing.

This property is not set if the following conditions are not met.

- Run mode is set to [OLYCamera::RunMode::Recording](#).
- SDK has started receiving live view information. (App does not have to use delegate method.)

See Also

[OLYCamera::startTakingPicture](#)
[OLYCamera::stopTakingPicture](#)
[OLYCamera::takePicture](#)

long getRemainingMediaCapacity()

Free space of the media (memory card) attached to the camera.

Unit is byte.

double getRemainingVideoCapacity()

Return the maximum number of seconds of recording a movie that can be stored in the media (memory card).

Returns

the maximum number of seconds of recording a movie that can be stored in the media.

This value does not indicate the exact value depends on the data for the compression ratio of the captured video.

This property is not set if the following conditions are not met.

- Run mode is set to [OLYCamera::RunMode::Recording](#).
- SDK has started receiving live view information. (App does not have to use delegate method.)

See Also

[OLYCamera::startRecordingVideo](#)
[OLYCamera::stopRecordingVideo](#)

RunMode getRunMode()

Return current run mode of the camera.

Returns

Current run mode of the camera.

static String getVersion()

static

Version of Olympus camera kit.

Check this value if the SDK behavior seems incorrect. Problem may have been resolved in the latest version of the SDK.

**Map<String, Object> inquireContentInformation(String path) throws
[OLYCameraKitException](#)**

Get information of media (still image and movie) stored in memory card.

File path must be string which combines the directory path and file name obtained from list of all supported media and otherwise causes an error.

Parameters

path File path to the still image or movie.

Returns

Information of the media.

Information on still image

- Please refer to the related documentation for detailed information.
- Application can also see EXIF information that is included in metadata of the media.

Information on movie (string format)

- "playtime" ... Movie length in seconds.
- "moviesize" ... Pixel size of the movie frame. The format is "[height]x[width]". For example "1920x1080"
- "shootingdatetime" ... Date and time taken. Format is "[YYYYMMDD]T[hhmm]". For example "20141124T1234"

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Playback](#)

Map<String, Object> inquireHardwareInformation() throws

[OLYCameraKitException](#)

Get hardware information of the camera.

Returns

Hardware information of the camera.

Hardware information is dictionary format. The following keys are defined in order to access each element.

- [OLYCamera::HARDWARE_INFORMATION_CAMERA_MODEL_NAME_KEY](#) ... Camera model name.
- [OLYCamera::HARDWARE_INFORMATION_CAMERA_FIRMWARE_VERSION_KEY](#) ... Camera firmware version.
- [OLYCamera::HARDWARE_INFORMATION_LENS_TYPE_KEY](#) ... Lens type.
- [OLYCamera::HARDWARE_INFORMATION_LENS_ID_KEY](#) ... Lens ID.
- [OLYCamera::HARDWARE_INFORMATION_LENS_FIRMWARE_VERSION_KEY](#) ... Lens firmware version.
- [OLYCamera::HARDWARE_INFORMATION_FLASH_ID_KEY](#) ... Flash ID.
- [OLYCamera::HARDWARE_INFORMATION_FLASH_FIRMWARE_VERSION_KEY](#) ... Flash firmware version.
- [OLYCamera::HARDWARE_INFORMATION_ACCESSORY_ID_KEY](#) ... Accessory ID.
- [OLYCamera::HARDWARE_INFORMATION_ACCESSORY_FIRMWARE_VERSION_KEY](#) ... Accessory firmware version.

Please refer to the related documentation for more information.

boolean isActualIsoSensitivityWarning()

Return whether out of range warning of ISO sensitivity is occurring on the camera.

Returns

If true, out of range warning of the ISO sensitivity is occurring on the camera.

When the shooting during the warning, there is a case of obtaining a result that is not the correct exposure such as underexposed or overexposed.

boolean isConnected()

Return whether the camera is currently connected.

Returns

If true, already connected to the camera.

boolean isDrivingZoomLens()

Return whether optical zoom is changing in the camera.

Returns

If true, the optical zoom is changing in the camera.

See Also

[OLYCamera::startDrivingZoomLensForDirection](#)
[OLYCamera::startDrivingZoomLensToFocalLength](#)
[OLYCamera::stopDrivingZoomLens](#)

boolean isExposureMeteringWarning()

Return whether warning of the exposure metering is occurring on the camera.

Returns

If true, warning of exposure metering is occurring on the camera.

Subject is too dark or too bright to be measured by the camera's exposure meter. When the shooting during the warning, the image may be underexposed or overexposed.

boolean isExposureWarning()

Return that out of range warning of the exposure is occurring on the camera.

Returns

If true, out of range warning of the exposure is occurring on the camera.

The camera can not determine ISO sensitivity, shutter speed or aperture value corresponding to current exposure value. When the shooting during the warning, the image may be underexposed or overexposed.

boolean isHighTemperatureWarning()

Return whether inside of the camera is in high-temperature condition.

You can also check using the lighting state of the LED on the camera body. If the inside of the camera is a high-temperature state, please stop using the camera immediately, and wait for the camera to return to normal temperature.

Returns

If true, inside of the camera is in high-temperature condition.

boolean isMagnifyingLiveView()

Return whether the live view has been magnified.

Returns

If true, the live view has been magnified.

See Also

[OLYCamera::startMagnifyingLiveView](#)
[OLYCamera::startMagnifyingLiveViewAtPoint](#)
[OLYCamera::stopMagnifyingLiveView](#)

boolean isMediaBusy()

Return whether the camera is writing to the media (memory card).

Returns

If true, the camera is writing to the media.

You can also check in the lighting state of the LED on the camera body. While the camera is writing to the media, you will see a response API is slow.

See Also

[OLYCamera::startTakingPicture](#)
[OLYCamera::stopTakingPicture](#)
[OLYCamera::takePicture](#)
[OLYCamera::startRecordingVideo](#)
[OLYCamera::stopRecordingVideo](#)

boolean isMediaError()

Return whether the media (memory card) I/O error is occurred.

Returns

If true, the media I/O error is occurred.

There is a possibility that the media is broken. Please replace the new media if it occurs frequently.

boolean isRecordingVideo()

Return whether video recording is in progress on the camera.

When recording is in progress, application cannot change the value of the camera properties.

Returns

If true, video recording is in progress on the camera.

See Also

[OLYCamera::startRecordingVideo](#)

[OLYCamera::stopRecordingVideo](#)

boolean isTakingPicture()

Return whether photo shooting is in progress on the camera.

When shooting is in progress, application cannot change the value of the camera properties.

Returns

If true, photo shooting is in progress on the camera.

See Also

[OLYCamera::startTakingPicture](#)

[OLYCamera::stopTakingPicture](#)

void lockAutoExposure() throws

[OLYCameraKitException](#)

Lock operation of automatic exposure control.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::unlockAutoExposure](#)

void lockAutoFocus([TakePictureCallback](#) callback)

Lock autofocus operation.

Focus the camera to the specified coordinates, and then lock so that focus does not later change. Application must have previously set the coordinates for auto focus. Application must call unlock to resume auto focus.

Parameters

callback Callback used when auto focus is locked.

Application can convert rectangular coordinates in live view image using the coordinate conversion utility [OLYCamera::convertRectOnViewfinderIntoLiveImage](#).

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::setAutoFocusPoint](#)

[OLYCamera::unlockAutoFocus](#)

[OLYCameraRecordingDelegate](#)

void setAutoExposurePoint([PointF](#) point) throws

[OLYCameraKitException](#)

Specify coordinates of reference exposure for automatic exposure control.

Application must set coordinates with this method prior to locking automatic exposure control. Application will get an error if value exceeds the valid range of target coordinate.

Parameters

point Target coordinates. Coordinates are in viewfinder coordinate system.

Application can convert the focusing coordinates from the coordinates in live view image using the coordinate

conversion utility [OLYCamera::convertPointOnLiveImageToIntViewfinder](#).

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::clearAutoExposurePoint](#)

[OLYCamera::autoExposureEffectiveArea](#)

**void setAutoFocusPoint (PointF point) throws
OLYCameraKitException**

Set coordinates to use for auto focus.

Prior to locking focus, application sets the coordinates to focus with this method. Application will get an error if value exceed the valid range of focus coordinates.

Parameters

point Coordinates where to focus. Coordinantes are in viewfinder coordinate system.

Application can convert the focusing coordinates from coordinates in live view image using the coordinate conversion utility [OLYCamera::convertPointOnLiveImageToIntViewfinder](#).

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::lockAutoFocus](#)

[OLYCamera::autoFocusEffectiveArea](#)

[OLYCameraRecordingDelegate](#)

void setCameraPropertyListener (OLYCameraPropertyListener I)

Set listener to receive when the camera property changes.

Parameters

I Listener to be called.

**void setCameraPropertyValue (String name,
String value
)
throws
OLYCameraKitException**

Set value to the camera properties.

If application specifies a value that does not exist in the list of camera properties currently available, error occurs.

Depending on the setting value of the shooting mode and connection type and etc., there are several properties that is read-only access or prohibited. Please refer to the documentation of the camera list of properties for more information.

Parameters

name The camera property name.

value The camera property value.

Returns

If true, the operation was successful. If false, the operation was abnormally terminated.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)
- [OLYCamera::RunMode::Maintenance](#)

See Also

[OLYCamera::getCameraPropertyNames](#)

[OLYCamera::getCameraPropertyValue](#)

[OLYCamera::canSetCameraProperty](#)

void setCameraPropertyValues (Map< String, String > values) throws

[OLYCameraKitException](#)

Set values to camera properties.

Specifying a value that does not exist in the list of camera properties currently available, will give an error. Depending on the setting value of the shooting mode, connection type, etc., several properties are read-only access or prohibited. Please refer to the documentation of the camera list of properties for more information.

Parameters

values The pairs of the camera property value and name.

Returns

If true, the operation was successful. If false, the operation was abnormally terminated.

Name-value pairs of the camera properties that can be specified in dictionary format. Application must specify the camera property name in the dictionary key and store the value associated with that key in the camera properties.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)
- [OLYCamera::RunMode::Maintenance](#)

See Also

[OLYCamera::getCameraPropertyNames](#)

[OLYCamera::getCameraPropertyValues](#)

[OLYCamera::setCameraPropertyValue](#)

void setCameraStatusListener([OLYCameraStatusListener](#) l)

Set listener to receive changes to camera property.

Parameters

l Listener to be called.

void setConnectionListener([OLYCameraConnectionListener](#) l)

Set listener to receive change to communication state of the camera.

Parameters

l Listener to be called.

void setGeolocation([String](#) location) throws

[OLYCameraKitException](#)

Register geolocation information to the camera.

After application registers the current geolocation in the camera, the GPS geolocation information will be set in the meta-data of the picture during capture.

The geolocation information must be specified by GGA and RMC defined in NMEA-0183.

Parameters

location The new geolocation information.

See Also

[OLYCamera::clearGeolocation](#)

void setLiveViewListener([OLYCameraLiveViewListener](#) l)

Set listener to notify state of live view image when it changes.

Parameters

l Listener to be called.

void setRecordingListener([OLYCameraRecordingListener](#) l)

Set listener to notify camera state when it changes.

The camera state is regarding capturing operation which affects still image or movie.

Parameters

I Listener to be called.

void setRecordingSupportsListener ([OLYCameraRecordingSupportsListener I](#))

Set listener to notify camera state when it changes.

The camera state is regarding capturing operation which affects still image or movie.

Parameters

I Listener to be called.

**void startDrivingZoomLensForDirection ([DrivingZoomLensDirection](#) direction,
[DrivingZoomLensSpeed](#) speed
) throws [OLYCameraKitException](#)**

Start driving optical zoom with specific speed and direction.

Lens attached to the camera must support electric zoom. If optical zoom is already being driven, error occurs.

Parameters

direction Driving direction.

speed Driving speed.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::lensMountStatus](#)

[OLYCamera::drivingZoomLens](#)

void startDrivingZoomLensToFocalLength (float focalLength) throws [OLYCameraKitException](#)

Start driving optical zoom to specified focal length.

Lens attached to the camera must support electric zoom. If optical zoom is already being driven, error occurs.

Parameters

focalLength Focal length.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::lensMountStatus](#)

[OLYCamera::drivingZoomLens](#)

[OLYCameraRecordingSupportsDelegate](#)

**void startRecordingVideo ([HashMap< String, Object >](#) options,
[CompletedCallback](#) callback
)**

Start recording movie.

Call this method only when recording process is not in progress. Do not call this method under still image shooting mode.

Parameters

options Not used in current version.

callback Callback used when recording is complete.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::stopRecordingVideo](#)
[OLYCameraRecordingListener](#)

```
void startTakingPicture ( HashMap< String, Object > options,
                         TakePictureCallback callback
                     )
```

Start shooting photo.

Call this method only when shooting process is not in progress. Do not call this method under movie recoding mode.

Parameters

options Not used in current version.

callback Callback used when status of shooting operation changes.

Application can convert the rectangular coordinates in live view image using the coordinate conversion utility
[OLYCamera::convertRectOnViewfinderIntoLiveImage](#).

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::stopTakingPicture](#)
[OLYCamera::takePicture](#)

```
void stopDrivingZoomLens ( ) throws
                           OLYCameraKitException
```

Stop driving optical zoom.

Lens attached to the camera must support electric zoom. If optical zoom already being driven, error occurs.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::lensMountStatus](#)
[OLYCamera::drivingZoomLens](#)

```
void stopRecordingVideo ( CompletedCallback callback )
```

Finish recording movie.

Call this method only when recording process is in progress. Do not call this method under still image shooting mode.

Parameters

callback Callback used when recording is complete.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::startRecordingVideo](#)
[OLYCameraRecordingDelegate](#)

```
void stopTakingPicture ( TakePictureCallback callback )
```

Finish shooting photo.

Call this method only when shooting process is in progress. Do not call this method under movie recoding mode.

Parameters

callback Callback used when status of shooting operation changes.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::startTakingPicture](#)
[OLYCamera::takePicture](#)

```
void takePicture ( HashMap< String, Object > options,
                  TakePictureCallback callback
                )
```

Execute batch operation from start of shooting photos to end of shooting.

Call this method only when shooting process is not in progress. Do not call this method under movie recoding mode.

Parameters

options Not used in current version.

callback Callback used when status of shooting operation changes.

Application can convert rectangular coordinates in live view image using coordinate conversion utility
[OLYCamera::convertRectOnViewfinderIntoLiveImage](#).

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::startTakingPicture](#)
[OLYCamera::stopTakingPicture](#)

String **toString()**

Return description of this object in string format.

Returns

Description of this object.

```
void unlockAutoExposure( ) throws
                                OLYCameraKitException
```

Release lock of automatic exposure control.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::lockAutoExposure](#)

```
void unlockAutoFocus( ) throws
                                OLYCameraKitException
```

Unlock autofocus operation.

Supported run modes

This method call is allowed only in following run modes and otherwise causes an error.

- [OLYCamera::RunMode::Recording](#)

See Also

[OLYCamera::lockAutoFocus](#)

Member Data Documentation

```
final String LEVEL_GAUGE_PITCHING_KEY = "pitch"
```

static

Dictionary key for accessing 'Pitch' elements of the level gauge information.

'Pitch' describes the camera is pointed up or down.

```
final String LEVEL_GAUGE_ROLLING_KEY = "roll"
```

static

Dictionary key for accessing 'Roll' elements of the level gauge information.

'Roll' is rotation around the optical axis.

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OLYCameraConnectionListener Interface Reference

Overview

Interface to receive state of communication channel when it changes.

Public Member Functions

void [onDisconnectedByError](#) ([OLYCamera](#) camera, [OLYCameraKitException](#) e)

Notify that connection to the camera was lost by error. [More...](#)

Member Function Documentation

void [onDisconnectedByError](#) ([OLYCamera](#) camera, [OLYCameraKitException](#) e)

Notify that connection to the camera was lost by error.

Parameters

camera Instance that lost connection to the camera.

e Error contents.

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OLYCameraPropertyListener Interface Reference

Overview

Interface to receive when the camera property changes.

Public Member Functions

void [onUpdateCameraProperty](#) ([OLYCamera](#) camera, String name)
Notify that the list of camera property value or camera property value is updated. [More...](#)

Member Function Documentation

void onUpdateCameraProperty ([OLYCamera](#) camera,
 String name
)

Notify that the list of camera property value or camera property value is updated.

Parameters

camera Instances indicating change of camera property.
name Name of the camera property that has changed.

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OLYCameraStatusListener Interface Reference

Overview

Interface to receive changes in camera state.

Public Member Functions

void [onUpdateStatus](#) ([OLYCamera](#) camera, String name)

Notify that the camera state is updated. [More...](#)

Member Function Documentation

```
void onUpdateStatus (OLYCamera camera,
                    String      name
                  )
```

Notify that the camera state is updated.

Parameters

camera Instance that detects camera state is updated.
name Name of camera state.

Name of camera state to be notified:

- "HighTemperatureWarning" ... See [OLYCamera::isHighTemperatureWarning](#)
- "LensMountStatus" ... See [OLYCamera::getLensMountStatus](#)
- "MediaMountStatus" ... See [OLYCamera::getMediaMountStatus](#)
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- "MediaError" ... See [OLYCamera::isMediaError](#)
- "RemainingRecordableImages" ... See [OLYCamera::getRemainingImageCapacity](#)
- "RemainingRecordableTime" ... See [OLYCamera::getRemainingVideoCapacity](#)
- "ActualFocalLength" ... See [OLYCamera::getActualFocalLength](#)
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- "MaximumFocalLength" ... See [OLYCamera::getMaximumFocalLength](#)
- "ActualApertureValue" ... See [OLYCamera::getActualApertureValue](#)
- "ActualShutterSpeed" ... See [OLYCamera::getActualShutterSpeed](#)
- "ActualExposureCompensation" ... See [OLYCamera::getActualExposureCompensation](#)
- "ActualIsoSensitivity" ... See [OLYCamera::getActualIsoSensitivity](#)
- "ActualIsoSensitivityWarning" ... See [OLYCamera::isActualIsoSensitivityWarning](#)
- "ExposureWarning" ... See [OLYCamera::isExposureWarning](#)
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OLYCameraPlaybackListener Interface Reference

Overview

Interface to receive camera state regarding playback operation when it changes.

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OLYCameraRecordingListener Interface Reference

Overview

Interface to notify camera state when it changes.

The camera state is regarding capturing operation which affects still image or movie.

Public Member Functions

```
void onChangeAutoFocusResult (OLYCamera camera, OLYCameraAutoFocusResult result)
    Notify result of auto focus when it changes. More...
```

```
void onStartRecordingVideo (OLYCamera camera)
    Notify that recording was started from the camera side. More...
```

```
void onStopRecordingVideo (OLYCamera camera)
    Notify that recording was stopped from the camera side. More...
```

Member Function Documentation

```
void onChangeAutoFocusResult (OLYCamera camera,
                           OLYCameraAutoFocusResult result
                         )
```

Notify result of auto focus when it changes.

Parameters

camera Instances it is detected that the focus result changes.

result Focusing result.

```
void onStartRecordingVideo (OLYCamera camera)
```

Notify that recording was started from the camera side.

Parameters

camera Instance that detects the camera starts recording.

```
void onStopRecordingVideo (OLYCamera camera)
```

Notify that recording was stopped from the camera side.

The following are possible causes.

- Recording time reaches specified time.
- Memory card becomes full during recording.

Parameters

camera Instance that detects the camera stops recording

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OLYCameraRecordingSupportsListener Interface Reference

Overview

Interface to notify camera state when it changes.

The camera state is regarding capturing operation which do not affect still image or movie.

Public Member Functions

```
void onReceiveCapturedImage \(OLYCamera camera, byte[] data, Map< String, Object > metadata)
    Notify that SDK receives original size image after shooting. More...
```

```
void onReceiveCapturedImagePreview \(OLYCamera camera, byte[] data, Map< String, Object > metadata)
    Notify that SDK receives preview image. More...
```

```
void onStopDrivingZoomLens \(OLYCamera camera)
    Notify that the driving of the optical zoom is stopped due to reasons on camera side. More...
```

Member Function Documentation

```
void onReceiveCapturedImage (OLYCamera camera,
                           byte[] data,
                           Map< String, Object > metadata
                           )
```

Notify that SDK receives original size image after shooting.

This is notified at the end of the shot if camera property "DESTINATION_FILE" is set to "DESTINATION_FILE_WIFI". Please refer to the documentation of the list of camera properties for more information.

Parameters

camera Instance that receives image data.

image Captured image for storage.

metadata Metadata of captured image.

```
void onReceiveCapturedImagePreview (OLYCamera camera,
                                   byte[] data,
                                   Map< String, Object > metadata
                                   )
```

Notify that SDK receives preview image.

Application is notified when preview image generated and camera property "RECVIEW" is enabled. Please refer to the documentation of the list of camera properties for more information.

The preview image is generated after:

- Application starts shooting.
- User presses shutter button.

Parameters

camera Instance that receives the image.

image Captured image for preview.

metadata Metadata of captured image for preview.

```
void onStopDrivingZoomLens (OLYCamera camera )
```

Notify that the driving of the optical zoom is stopped due to reasons on camera side.

This may be caused by the lens reaching the maximum or minimum zoom before calling to stop optical zoom.

Parameters

camera Instance that detects the camera stops recording.

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OLYCameraAutoFocusResult Class Reference

Overview

Focusing result of auto focus.

Public Member Functions

RectF [getRect \(\)](#)

Return rectangular coordinates of focus. [More...](#)

String [getResult \(\)](#)

Return focusing result. [More...](#)

Member Function Documentation

RectF [getRect \(\)](#)

Return rectangular coordinates of focus.

Coordinates are in viewfinder coordinate system. Application can convert rectangular coordinates in live view image using coordinate conversion utility [OLYCamera::convertRectOnViewfinderIntoLiveImage](#).

Returns

Rectangular coordinates of focus.

String [getResult \(\)](#)

Return focusing result.

- "ok" ... In focus.
- "ng" ... Did not focus.
- "none" ... AF did not work. Lens is set to MF mode or does not supported AF.

Returns

Focusing result.

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► OLYCameraStatusListener

OLYCameraLiveViewListener Interface Reference

Overview

Interface to notify state of live view image when it changes.

Public Member Functions

void [onUpdateLiveView](#) ([OLYCamera](#) camera, byte[] data, Map< String, Object > metadata)

Notify that image for live view is updated. [More...](#)

Member Function Documentation

```
void onUpdateLiveView (OLYCamera camera,
                     byte[] data,
                     Map< String, Object > metadata
)
```

Notify that image for live view is updated.

Application can be updated live view in real time using an image attached to this notification.

Parameters

camera Instance that detects change in live view.

data Image of the new live view.

metadata Metadata of the image of the new live view.

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 - OLYCameraLiveViewListener
 - OLYCameraLog
 - OLYCameraPlaybackListener
 - OLYCameraPropertyListener
 - OLYCameraRecordingList
 - OLYCameraRecordingSupplier
 - OLYCameraStatusListener

OLYCameraFileInfo Class Reference

Overview

This class stores attributes of media (still image and movie) file and directory.

List of media is downloaded from the camera in array of [OLYCameraFileInfo](#) object.

Classes

enum [Attribute](#)
File attribute. [More...](#)

enum [Filetype](#)
File type. [More...](#)

Public Member Functions

EnumSet<	Attribute	> getAttributes()	Return attribute of media (still image or movie) file in array format. More...
Date		getDatetime()	Return last modified date of media (still image or movie) file. More...
String		getDirectoryPath()	Return directory path of media (still image or movie) file. More...
List< String >		getExtension()	Return extended information of media (still image or movie) file. More...
String		getFilename()	Return name of media (still image or movie) file. More...
long		getFilesiz()	Return size of media (still image or movie) file. More...
Filetype		getFiletype()	Return type of media (still image or movie) file. More...

Member Function Documentation

EnumSet<[Attribute](#)> getAttributes()

Return attribute of media (still image or movie) file in array format.
Array is normally set to empty.

Returns
[Attribute](#) of media file in array format.

Date getDatetime()

Return last modified date of media (still image or movie) file.

Returns
Last modified date of media file.

String getDirectoryPath()

Return directory path of media (still image or movie) file.

Returns
Directory path of media file.

List<String> getExtension()

classjp_1_1co_1_1olympus_1_1camerakit_1_1_o_1_y_camera_file_info.html[2014/11/28 13:18:56]

Return extended information of media (still image or movie) file.

Please refer to the related documentation for more information on extended information.

Returns

Extended information of media file.

String getFilename()

Return name of media (still image or movie) file.

Returns

Name of media file.

long getFilesize()

Return size of media (still image or movie) file.

Returns

Size of media file.

[Filetype](#) getFiletype()

Return type of media (still image or movie) file.

Returns

Type of media file.

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► OLYCameraAutoFocusRes				
► OLYCameraConnectionLis				
► OLYCameraFileInfo				
OLYCameraKitException				
► OLYCameraLiveViewListe				
► OLYCameraLog				
OLYCameraPlaybackListe				
► OLYCameraPropertyListe				
► OLYCameraRecordingListe				
► OLYCameraRecordingSup				
► OLYCameraStatusListener				
	This is the complete list of members for OLYCamera , including all inherited members.			
	canSetCameraProperty (String name)			OLYCamera
	changeDigitalZoomScale (float scale)			OLYCamera
	changeLiveViewSize (OLYCamera.LiveViewSize size)			OLYCamera
	changeRunMode (RunMode mode)			OLYCamera
	clearAutoExposurePoint ()			OLYCamera
	clearAutoFocusPoint ()			OLYCamera
	clearGeolocation ()			OLYCamera
	connect ()			OLYCamera
	convertPointOnLiveImageToViewfinder (PointF point, float width, float height, int rotatedDegrees)			OLYCamera
	convertPointOnViewfinderToLiveImage (PointF point, float width, float height, int rotatedDegrees)			OLYCamera
	convertRectOnLiveImageToViewfinder (RectF rect, float width, float height, int rotatedDegrees)			OLYCamera
	convertRectOnViewfinderToLiveImage (RectF rect, float width, float height, int rotatedDegrees)			OLYCamera
	countNumberOfContents ()			OLYCamera
	DIGITAL_ZOOM_SCALE_RANGE_MAXIMUM_KEY			OLYCamera static
	DIGITAL_ZOOM_SCALE_RANGE_MINIMUM_KEY			OLYCamera static
	disconnectWithPowerOff (boolean powerOff)			OLYCamera
	downloadContent (String path, DownloadContentCallback callback)			OLYCamera
	downloadContentList (DownloadContentListCallback callback)			OLYCamera
	downloadContentScreenail (String path, DownloadImageCallback callback)			OLYCamera
	downloadContentThumbnail (String path, DownloadImageCallback callback)			OLYCamera
	downloadImage (String path, float resize, DownloadImageCallback callback)			OLYCamera
	getActionType ()			OLYCamera
	getActualApertureValue ()			OLYCamera
	getActualAutoFocusPoint ()			OLYCamera
	getActualExposureCompensation ()			OLYCamera
	getActualFocalLength ()			OLYCamera
	getActualIsoSensitivity ()			OLYCamera
	getActualShutterSpeed ()			OLYCamera
	getAutoExposureEffectiveArea ()			OLYCamera
	getAutoFocusEffectiveArea ()			OLYCamera
	getBuildNumber ()			OLYCamera static
	getCameraPropertyName s()			OLYCamera
	getCameraPropertyTitle (String name)			OLYCamera
	getCameraPropertyValue (String name)			OLYCamera
	getCameraPropertyValueList (String name)			OLYCamera
	getCameraPropertyValues (Set< String > names)			OLYCamera
	getCameraPropertyValueTitle (String value)			OLYCamera
	getDetectedHumanFaces ()			OLYCamera
	getDigitalZoomScaleRange ()			OLYCamera
	getLensMountStatus ()			OLYCamera
	getLevelGauge ()			OLYCamera
	getLiveViewSize ()			OLYCamera
	getMaximumFocalLength ()			OLYCamera
	getMediaMountStatus ()			OLYCamera
	getMinimumFocalLength ()			OLYCamera
	getRemainingImageCapacity ()			OLYCamera
	getRemainingMediaCapacity ()			OLYCamera
	getRemainingVideoCapacity ()			OLYCamera
	getRunMode ()			OLYCamera

getVersion()	OLYCamera	static
HARDWARE_INFORMATION_ACCESSORY_FIRMWARE_VERSION_KEY	OLYCamera	static
HARDWARE_INFORMATION_ACCESSORY_ID_KEY	OLYCamera	static
HARDWARE_INFORMATION_CAMERA_FIRMWARE_VERSION_KEY	OLYCamera	static
HARDWARE_INFORMATION_CAMERA_MODEL_NAME_KEY	OLYCamera	static
HARDWARE_INFORMATION_FLASH_FIRMWARE_VERSION_KEY	OLYCamera	static
HARDWARE_INFORMATION_FLASH_ID_KEY	OLYCamera	static
HARDWARE_INFORMATION_LENS_FIRMWARE_VERSION_KEY	OLYCamera	static
HARDWARE_INFORMATION_LENS_ID_KEY	OLYCamera	static
HARDWARE_INFORMATION_LENS_TYPE_KEY	OLYCamera	static
IMAGE_RESIZE_1024	OLYCamera	static
IMAGE_RESIZE_1600	OLYCamera	static
IMAGE_RESIZE_1920	OLYCamera	static
IMAGE_RESIZE_2048	OLYCamera	static
IMAGE_RESIZE_NONE	OLYCamera	static
inquireContentInformation(String path)	OLYCamera	
inquireHardwareInformation()	OLYCamera	
isActualIsoSensitivityWarning()	OLYCamera	
isConnected()	OLYCamera	
isDrivingZoomLens()	OLYCamera	
isExposureMeteringWarning()	OLYCamera	
isExposureWarning()	OLYCamera	
isHighTemperatureWarning()	OLYCamera	
isMagnifyingLiveView()	OLYCamera	
isMediaBusy()	OLYCamera	
isMediaError()	OLYCamera	
isRecordingVideo()	OLYCamera	
isTakingPicture()	OLYCamera	
LEVEL_GAUGE_ORIENTATION_KEY	OLYCamera	static
LEVEL_GAUGE_PITCHING_KEY	OLYCamera	static
LEVEL_GAUGE_ROLLING_KEY	OLYCamera	static
lockAutoExposure()	OLYCamera	
lockAutoFocus(TakePictureCallback callback)	OLYCamera	
OLYCamera()	OLYCamera	
setAutoExposurePoint(PointF point)	OLYCamera	
setAutoFocusPoint(PointF point)	OLYCamera	
setCameraPropertyListener(OLYCameraPropertyListener l)	OLYCamera	
setCameraPropertyValue(String name, String value)	OLYCamera	
setCameraPropertyValues(Map< String, String > values)	OLYCamera	
setCameraStatusListener(OLYCameraStatusListener l)	OLYCamera	
setConnectionListener(OLYCameraConnectionListener l)	OLYCamera	
setGeolocation(String location)	OLYCamera	
setLiveViewListener(OLYCameraLiveViewListener l)	OLYCamera	
setRecordingListener(OLYCameraRecordingListener l)	OLYCamera	
setRecordingSupportsListener(OLYCameraRecordingSupportsListener l)	OLYCamera	
START_TAKING_PICTURE_OPTION_LIMIT_SHOOTINGS_KEY	OLYCamera	static
startDrivingZoomLensForDirection(DrivingZoomLensDirection direction, DrivingZoomLensSpeed speed)	OLYCamera	
startDrivingZoomLensToFocalLength(float focalLength)	OLYCamera	
startRecordingVideo(HashMap< String, Object > options, CompletedCallback callback)	OLYCamera	
startTakingPicture(HashMap< String, Object > options, TakePictureCallback callback)	OLYCamera	
stopDrivingZoomLens()	OLYCamera	
stopRecordingVideo(CompletedCallback callback)	OLYCamera	
stopTakingPicture(TakePictureCallback callback)	OLYCamera	
takePicture(HashMap< String, Object > options, TakePictureCallback callback)	OLYCamera	
toString()	OLYCamera	
unlockAutoExposure()	OLYCamera	
unlockAutoFocus()	OLYCamera	

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Overview

Type of shooting mode and drive mode.

Public Attributes

[Movie](#)

Movie recording mode. [More...](#)

[Sequential](#)

Still image continuous shooting mode. [More...](#)

[Single](#)

Still image single shooting mode. [More...](#)

[Unknown](#)

Mode is unknown.

Member Data Documentation

[Movie](#)

Movie recording mode.

Mode that starts recording when user taps device and stops recording when user again taps device.

[Sequential](#)

Still image continuous shooting mode.

Mode that quickly takes multiple images while a user is touching the device.

[Single](#)

Still image single shooting mode.

Mode that takes 1 image after a single tap.

getLensMountStatus
getLevelGauge
getLiveViewSize
getMaximumFocalLength
getMediaMountStatus
getMinimumFocalLength
getRemainingImageCapacity
getRemainingMediaCapacity
getRemainingVideoCapacity
getRunMode
getVersion
inquireContentInformation
inquireHardwareInformation
isActualIsoSensitivityWarning
isConnected
isDrivingZoomLens
isExposureMeteringWarning
isExposureWarning
isHighTemperatureWarning
isMagnifyingLiveView
isMediaBusy
isMediaError
isRecordingVideo
isTakingPicture
lockAutoExposure
lockAutoFocus
setAutoExposurePoint
setAutoFocusPoint
setCameraPropertyList
setCameraPropertyValue
setCameraPropertyValue
setCameraStatusListener
setConnectionListener
setGeolocation
setLiveViewListener
setRecordingListener
setRecordingSupportsListener
startDrivingZoomLensFor
startDrivingZoomLensTo
startRecordingVideo
startTakingPicture
stopDrivingZoomLens
stopRecordingVideo
stopTakingPicture
takePicture
toString
unlockAutoExposure
unlockAutoFocus
DIGITAL_ZOOM_SCALAR
DIGITAL_ZOOM_SCALAR
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
IMAGE_RESIZE_1024
IMAGE_RESIZE_1600
IMAGE_RESIZE_1920
IMAGE_RESIZE_2048

IMAGE_RESIZE_NONE
LEVEL_GAUGE_ORIENTATION
LEVEL_GAUGE_PITCH
LEVEL_GAUGE_ROLL
START_TAKING_PICTURE
► OLYCameraAutoFocusResult
► OLYCameraConnectionList
► OLYCameraFileInfo
OLYCameraKitException
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OLYCameraPlaybackListener
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Overview

Interface to monitor whether operation is complete.

Public Member Functions

void [onCompleted](#) ()
Callback used when the operation is complete.

void [onErrorOccurred](#) ([OLYCameraKitException](#) e)
Callback used when operation is aborted. [More...](#)

Member Function Documentation

void onErrorOccurred ([OLYCameraKitException](#) e)

Callback used when operation is aborted.

Parameters

e Error details are set when operation is abnormally terminated.

getLensMountStatus
getLevelGauge
getLiveViewSize
getMaximumFocalLength
getMediaMountStatus
getMinimumFocalLength
getRemainingImageCapacity
getRemainingMediaCapacity
getRemainingVideoCapacity
getRunMode
getVersion
inquireContentInformation
inquireHardwareInformation
isActualIsoSensitivityWarning
isConnected
isDrivingZoomLens
isExposureMeteringWarning
isExposureWarning
isHighTemperatureWarning
isMagnifyingLiveView
isMediaBusy
isMediaError
isRecordingVideo
isTakingPicture
lockAutoExposure
lockAutoFocus
setAutoExposurePoint
setAutoFocusPoint
setCameraPropertyList
setCameraPropertyValue
setCameraPropertyValue
setCameraStatusListener
setConnectionListener
setGeolocation
setLiveViewListener
setRecordingListener
setRecordingSupportsListener
startDrivingZoomLensFunction
startDrivingZoomLensTo
startRecordingVideo
startTakingPicture
stopDrivingZoomLens
stopRecordingVideo
stopTakingPicture
takePicture
toString
unlockAutoExposure
unlockAutoFocus
DIGITAL_ZOOM_SCALE
DIGITAL_ZOOM_SCALE
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
IMAGE_RESIZE_1024
IMAGE_RESIZE_1600
IMAGE_RESIZE_1920
IMAGE_RESIZE_2048

► [IMAGE_RESIZE_NONE](#)
► [LEVEL_GAUGE_ORIENTATION_CHANGED](#)
► [LEVEL_GAUGE_PITCH_CHANGED](#)
► [LEVEL_GAUGE_ROLL_CHANGED](#)
► [START_TAKING_PICTURE](#)
► [OLYCameraAutoFocusResult](#)
► [OLYCameraConnectionLister](#)
► [OLYCameraFileInfo](#)
► [OLYCameraKitException](#)
► [OLYCameraLiveViewListener](#)
► [OLYCameraLog](#)
► [OLYCameraPlaybackListener](#)
► [OLYCameraPropertyListener](#)
► [OLYCameraRecordingListener](#)
► [OLYCameraRecordingSupplier](#)
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 - DrivingZoomLensDirect
 - DrivingZoomLensSpeed
 - LiveViewSize
 - ProgressCallback
 - ProgressEvent
 - RunMode
 - TakePictureCallback
 - TakingProgress
- OLYCamera
- canSetCameraProperty
- changeDigitalZoomScale
- changeLiveViewSize
- changeRunMode
- clearAutoExposurePoint
- clearAutoFocusPoint
- clearGeolocation
- connect
- convertPointOnLiveImage
- convertPointOnViewfinder
- convertRectOnLiveImage
- convertRectOnViewfinder
- countNumberOfContent
- disconnectWithPowerOff
- downloadContent
- downloadContentList
- downloadContentScreen
- downloadContentThumbnail
- downloadImage
- getActionType
- getActualApertureValue
- getActualAutoFocusPoint
- getActualExposureCompensation
- getActualFocalLength
- getActualIsoSensitivity
- getActualShutterSpeed
- getAutoExposureEffectiveness
- getAutoFocusEffectiveArea
- getBuildNumber
- getCameraPropertyName
- getCameraPropertyTitle
- getCameraPropertyValue
- getCameraPropertyValue
- getCameraPropertyValue
- getDetectedHumanFace
- getDigitalZoomScaleRatio

OLYCamera.DownloadContentCallback

Interface Reference

[Public Member Functions](#) | [List of all members](#)

Overview

Interface to monitor download progress of media file.

Public Member Functions

void [onCompleted](#) (byte[] data)
Callback used when download is complete. [More...](#)

void [onErrorOccurred](#) (Exception e)
Callback used when download is aborted. [More...](#)

void [onProgress](#) ([ProgressEvent](#) e)
Callback used when progress of download changes. [More...](#)

Member Function Documentation

void onCompleted (byte[] data)

Callback used when download is complete.

Parameters

data Downloaded media data.

void onErrorOccurred (Exception e)

Callback used when download is aborted.

Parameters

e Error details are set when operation is abnormally terminated.

void onProgress ([ProgressEvent](#) e)

Callback used when progress of download changes.

Parameters

e [ProgressEvent](#) object for progress rate.

getLensMountStatus
getLevelGauge
getLiveViewSize
getMaximumFocalLength
getMediaMountStatus
getMinimumFocalLength
getRemainingImageCapacity
getRemainingMediaCapacity
getRemainingVideoCapacity
getRunMode
getVersion
inquireContentInformation
inquireHardwareInformation
isActualIsoSensitivityWarning
isConnected
isDrivingZoomLens
isExposureMeteringWarning
isExposureWarning
isHighTemperatureWarning
isMagnifyingLiveView
isMediaBusy
isMediaError
isRecordingVideo
isTakingPicture
lockAutoExposure
lockAutoFocus
setAutoExposurePoint
setAutoFocusPoint
setCameraPropertyList
setCameraPropertyValue
setCameraPropertyValue
setCameraStatusListener
setConnectionListener
setGeolocation
setLiveViewListener
setRecordingListener
setRecordingSupportsListener
startDrivingZoomLensFrom
startDrivingZoomLensTo
startRecordingVideo
startTakingPicture
stopDrivingZoomLens
stopRecordingVideo
stopTakingPicture
takePicture
toString
unlockAutoExposure
unlockAutoFocus
DIGITAL_ZOOM_SCALE
DIGITAL_ZOOM_SCALE
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
IMAGE_RESIZE_1024
IMAGE_RESIZE_1600
IMAGE_RESIZE_1920
IMAGE_RESIZE_2048

IMAGE_RESIZE_NONE
LEVEL_GAUGE_ORIENTATION
LEVEL_GAUGE_PITCH
LEVEL_GAUGE_ROLL
START_TAKING_PICTURE
► OLYCameraAutoFocusResult
► OLYCameraConnectionList
► OLYCameraFileInfo
OLYCameraKitException
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OLYCameraPlaybackListener
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 - DownloadImageCallback
 - DrivingZoomLensDirect
 - DrivingZoomLensSpeed
 - LiveViewSize
 - ProgressCallback
 - ProgressEvent
 - RunMode
 - TakePictureCallback
 - TakingProgress
- OLYCamera
- canSetCameraProperty
- changeDigitalZoomScale
- changeLiveViewSize
- changeRunMode
- clearAutoExposurePoint
- clearAutoFocusPoint
- clearGeolocation
- connect
- convertPointOnLiveImage
- convertPointOnViewfinder
- convertRectOnLiveImage
- convertRectOnViewfinder
- countNumberOfContent
- disconnectWithPowerOff
- downloadContent
- downloadContentList
- downloadContentScreen
- downloadContentThumbnail
- downloadImage
- getActionType
- getActualApertureValue
- getActualAutoFocusPoint
- getActualExposureCompensation
- getActualFocalLength
- getActualIsoSensitivity
- getActualShutterSpeed
- getAutoExposureEffectiveness
- getAutoFocusEffectiveArea
- getBuildNumber
- getCameraPropertyName
- getCameraPropertyTitle
- getCameraPropertyValue
- getCameraPropertyValue
- getCameraPropertyValue
- getCameraPropertyValue
- getDetectedHumanFace
- getDigitalZoomScaleRatio

OLYCamera.DownloadContentListCallback Interface Reference

Overview

Interface to monitor download progress for list of media stored in the camera.

Public Member Functions

void **onCompleted** (List<[OLYCameraFileInfo](#) > contentList)
 Callback used when download is complete. [More...](#)

void **onErrorOccurred** (Exception e)
 Callback used when download is aborted. [More...](#)

Member Function Documentation

void onCompleted (List<[OLYCameraFileInfo](#) > contentList)

Callback used when download is complete.

Parameters

contentList List of media stored in the camera in an array format.

void onErrorOccurred (Exception e)

Callback used when download is aborted.

Parameters

e Error details are set when operation is abnormally terminated.

interfacejp_1_1co_1_1olympus_1_1camerakit_1_1_o_1_y_camera_1_1_download_content_list_callback.html[2014/11/28 13:20:24]

getLensMountStatus
getLevelGauge
getLiveViewSize
getMaximumFocalLength
getMediaMountStatus
getMinimumFocalLength
getRemainingImageCapacity
getRemainingMediaCapacity
getRemainingVideoCapacity
getRunMode
getVersion
inquireContentInformation
inquireHardwareInformation
isActualIsoSensitivityWarning
isConnected
isDrivingZoomLens
isExposureMeteringWarning
isExposureWarning
isHighTemperatureWarning
isMagnifyingLiveView
isMediaBusy
isMediaError
isRecordingVideo
isTakingPicture
lockAutoExposure
lockAutoFocus
setAutoExposurePoint
setAutoFocusPoint
setCameraPropertyList
setCameraPropertyValue
setCameraPropertyValue
setCameraStatusListener
setConnectionListener
setGeolocation
setLiveViewListener
setRecordingListener
setRecordingSupportsListener
startDrivingZoomLensFrom
startDrivingZoomLensTo
startRecordingVideo
startTakingPicture
stopDrivingZoomLens
stopRecordingVideo
stopTakingPicture
takePicture
toString
unlockAutoExposure
unlockAutoFocus
DIGITAL_ZOOM_SCALAR
DIGITAL_ZOOM_SCALAR
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
IMAGE_RESIZE_1024
IMAGE_RESIZE_1600
IMAGE_RESIZE_1920
IMAGE_RESIZE_2048

IMAGE_RESIZE_NONE
LEVEL_GAUGE_ORIENTATION
LEVEL_GAUGE_PITCH
LEVEL_GAUGE_ROLL
START_TAKING_PICTURE
► OLYCameraAutoFocusResult
► OLYCameraConnectionList
► OLYCameraFileInfo
OLYCameraKitException
► OLYCameraLiveViewListener
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 - DrivingZoomLensDirect
 - DrivingZoomLensSpeed
 - LiveViewSize
 - ProgressCallback
 - ProgressEvent
 - RunMode
 - TakePictureCallback
 - TakingProgress

[Public Member Functions](#) | [List of all members](#)

OLYCamera.DownloadImageCallback Interface Reference

Overview

Interface to monitor progress of image download.

Public Member Functions

void [onCompleted](#) (byte[] data, Map< String, Object > metadata)
Callback used when download is complete. [More...](#)

void [onErrorOccurred](#) (Exception e)
Callback used when download is aborted. [More...](#)

void [onProgress](#) (ProgressEvent e)
Callback used when download progress changes. [More...](#)

Member Function Documentation

```
void onCompleted( byte[] data,
                  Map< String, Object > metadata
                )
```

Callback used when download is complete.

Parameters

data Downloaded image.

metadata Metadata of the downloaded image.

```
void onErrorOccurred( Exception e )
```

Callback used when download is aborted.

Parameters

e Error details are set when operation is abnormally terminated.

```
void onProgress( ProgressEvent e )
```

Callback used when download progress changes.

Parameters

e [ProgressEvent](#) object for progress rate.

getLensMountStatus
getLevelGauge
getLiveViewSize
getMaximumFocalLength
getMediaMountStatus
getMinimumFocalLength
getRemainingImageCapacity
getRemainingMediaCapacity
getRemainingVideoCapacity
getRunMode
getVersion
inquireContentInformation
inquireHardwareInformation
isActualIsoSensitivityWarning
isConnected
isDrivingZoomLens
isExposureMeteringWarning
isExposureWarning
isHighTemperatureWarning
isMagnifyingLiveView
isMediaBusy
isMediaError
isRecordingVideo
isTakingPicture
lockAutoExposure
lockAutoFocus
setAutoExposurePoint
setAutoFocusPoint
setCameraPropertyList
setCameraPropertyValue
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Overview

Driving direction of optical zoom.

Public Attributes

Tele

Towards the telephoto end (zoom in).

Wide

Towards the wide end (zoom out).

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getMediaMountStatus
getMinimumFocalLength
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Overview

Driving speed of optical zoom.

Public Attributes

Burst

Zoom to wide or telephoto end at once.

Fast

Zoom at high speed.

Normal

Zoom at medium speed.

Slow

Zoom at low speed.

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getMediaMountStatus
getMinimumFocalLength
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<h2>OLYCamera.LiveViewSize Class Reference</h2>					
<h3>Overview</h3> <p>Supported size of live view image.</p>					
<h3>Public Member Functions</h3>					
<pre>int getHeight () Return height of live view. More...</pre> <pre>int getWidth () Return width of live view. More...</pre>					
<h3>Static Public Attributes</h3>					
<pre>static final LiveViewSize QUAD_VGA = new LiveViewSize(1280, 960) Display in Quad-VGA (1280x960) size live view.</pre> <pre>static final LiveViewSize QVGA = new LiveViewSize(320, 240) Display in QVGA (320x240) size live view.</pre> <pre>static final LiveViewSize SVGA = new LiveViewSize(800, 600) Display in SVGA (800x600) size live view.</pre> <pre>static final LiveViewSize VGA = new LiveViewSize(640, 480) Display in VGA (640x480) size live view.</pre> <pre>static final LiveViewSize XGA = new LiveViewSize(1024, 768) Display in XGA (1024x768) size live view.</pre>					
<h3>Member Function Documentation</h3>					
<div style="background-color: #f0f0f0; padding: 5px;"> int getHeight () </div> <p>Return height of live view.</p> <p>Returns</p> <p>Height of live view.</p>					
<div style="background-color: #f0f0f0; padding: 5px;"> int getWidth () </div> <p>Return width of live view.</p> <p>Returns</p> <p>Width of live view.</p>					

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- getBuildNumber
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- getCameraPropertyValue
- getDetectedHumanFace
- getDigitalZoomScaleRatio

OLYCamera.ProgressCallback Interface Reference

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Overview

Interface to monitor processing status.

Public Member Functions

void [onCompleted](#) ()
Callback used when operation is complete.

void [onErrorOccurred](#) ([OLYCameraKitException](#) e)
Callback used when operation is aborted. [More...](#)

void [onProgress](#) ([ProgressEvent](#) e)
Callback used when progress of processing changes. [More...](#)

Member Function Documentation

void [onErrorOccurred](#) ([OLYCameraKitException](#) e)

Callback used when operation is aborted.

Parameters

e Error details are set when operation is abnormally terminated.

void [onProgress](#) ([ProgressEvent](#) e)

Callback used when progress of processing changes.

Parameters

e [ProgressEvent](#) object for progress rate.

getLensMountStatus
getLevelGauge
getLiveViewSize
getMaximumFocalLength
getMediaMountStatus
getMinimumFocalLength
getRemainingImageCapacity
getRemainingMediaCapacity
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getRunMode
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OLYCameraKitException Class

Reference

Overview

Custom exceptions that may occur when application access the camera.

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enum	Level	Log level. More...											
class	LogEventArgs	Log event class. More...											
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Member Function Documentation

float getProgress()

Return progress rate.
0.0 immediately after the start, 1.0 is complete.

Returns
Progress rate.

boolean isCancellable()

Return whether processing can be cancelled.
Returns
Whether processing can be cancelled.

getLensMountStatus
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getMaximumFocalLength
getMediaMountStatus
getMinimumFocalLength
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getRemainingMediaCapacity
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Overview

Run mode of the camera.

Public Attributes

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Maintenance mode. [More...](#)

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Recording mode. [More...](#)

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Standalone mode. [More...](#)

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Mode where SDK does not work. [More...](#)

Member Data Documentation

Maintenance

Maintenance mode.

This mode does not work and is reserved for future expansion.

Playback

Playback mode.

This mode is used to view the captured image in the camera.

Playmaintenance

Play-maintenance mode.

This mode does not work and is reserved for future expansion.

Recording

Recording mode.

This mode is used to capture still images and record videos by the shutter via wireless communication.

Standalone

Standalone mode.

The run mode is this value immediately after connected to the camera.

If application changes to this mode from any other mode, several camera properties return to their initial states. For more information please refer to documentation of the camera list of properties.

Unknown

getLensMountStatus
getLevelGauge
getLiveViewSize
getMaximumFocalLength
getMediaMountStatus
getMinimumFocalLength
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getRemainingMediaCapacity
getRemainingVideoCapacity
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Mode where SDK does not work.

Run mode is sometimes set to this value when application is not connected or mode change is abnormally terminated.

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Overview

Interface to monitor progress of shooting operation.

Public Member Functions

void [onCompleted](#) ()
Callback used when shooting is complete.

void [onErrorOccurred](#) (Exception e)
Callback used when shooting operation is aborted. [More...](#)

void [onProgress](#) (OLYCamera camera, [TakingProgress](#) progress, [OLYCameraAutoFocusResult](#) autoFocusResult)
Callback used when progress of shooting operation changes. [More...](#)

Member Function Documentation

void [onErrorOccurred](#) (Exception e)

Callback used when shooting operation is aborted.

Parameters

e Error details are set when shooting operation is abnormally terminated.

void [onProgress](#) ([OLYCamera](#) camera, [TakingProgress](#) progress, [OLYCameraAutoFocusResult](#) autoFocusResult)
)

Callback used when progress of shooting operation changes.

Parameters

camera [OLYCamera](#) object.

progress Progress of shooting operation.

autoFocusResult Focusing result.

getLensMountStatus
getLevelGauge
getLiveViewSize
getMaximumFocalLength
getMediaMountStatus
getMinimumFocalLength
getRemainingImageCapacity
getRemainingMediaCapacity
getRemainingVideoCapacity
getRunMode
getVersion
inquireContentInformation
inquireHardwareInformation
isActualIsoSensitivityWarning
isConnected
isDrivingZoomLens
isExposureMeteringWarning
isExposureWarning
isHighTemperatureWarning
isMagnifyingLiveView
isMediaBusy
isMediaError
isRecordingVideo
isTakingPicture
lockAutoExposure
lockAutoFocus
setAutoExposurePoint
setAutoFocusPoint
setCameraPropertyList
setCameraPropertyValue
setCameraPropertyValue
setCameraStatusListener
setConnectionListener
setGeolocation
setLiveViewListener
setRecordingListener
setRecordingSupportsList
startDrivingZoomLensFrom
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startRecordingVideo
startTakingPicture
stopDrivingZoomLens
stopRecordingVideo
stopTakingPicture
takePicture
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DIGITAL_ZOOM_SCALE
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► [LEVEL_GAUGE_PITCH](#)
► [LEVEL_GAUGE_ROLL](#)
► [START_TAKING_PICTURE](#)

► [OLYCameraAutoFocusResult](#)
► [OLYCameraConnectionLister](#)
► [OLYCameraFileInfo](#)
► [OLYCameraKitException](#)
► [OLYCameraLiveViewListener](#)
► [OLYCameraLog](#)
► [OLYCameraPlaybackListener](#)
► [OLYCameraPropertyListener](#)
► [OLYCameraRecordingLister](#)
► [OLYCameraRecordingSupplier](#)
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Member Data Documentation

BeginCapturing

Start exposure.

This timing is appropriate for application to play a sound effect or display that the shutter is open.

BeginFocusing

Start auto focus.

This notification is called even if focus is locked.

EndCapturing

Exposure is complete.

This timing is appropriate for application to play a sound effect or display that the shutter is closed.

EndFocusing

End auto focus.

This timing is appropriate for application to play a sound effect or display the focus result.

getLensMountStatus
getLevelGauge
getLiveViewSize
getMaximumFocalLength
getMediaMountStatus
getMinimumFocalLength
getRemainingImageCapacity
getRemainingMediaCapacity
getRemainingVideoCapacity
getRunMode
getVersion
inquireContentInformation
inquireHardwareInformation
isActualIsoSensitivityWarning
isConnected
isDrivingZoomLens
isExposureMeteringWarning
isExposureWarning
isHighTemperatureWarning
isMagnifyingLiveView
isMediaBusy
isMediaError
isRecordingVideo
isTakingPicture
lockAutoExposure
lockAutoFocus
setAutoExposurePoint
setAutoFocusPoint
setCameraPropertyList
setCameraPropertyValue
setCameraPropertyValue
setCameraStatusListener
setConnectionListener
setGeolocation
setLiveViewListener
setRecordingListener
setRecordingSupportsListener
startDrivingZoomLensFunction
startDrivingZoomLensType
startRecordingVideo
startTakingPicture
stopDrivingZoomLens
stopRecordingVideo
stopTakingPicture
takePicture
toString
unlockAutoExposure
unlockAutoFocus
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HARDWARE_INFORMATION
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HARDWARE_INFORMATION
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HARDWARE_INFORMATION
IMAGE_RESIZE_1024
IMAGE_RESIZE_1600
IMAGE_RESIZE_1920
IMAGE_RESIZE_2048

IMAGE_RESIZE_NONE
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LEVEL_GAUGE_PITCH
LEVEL_GAUGE_ROLL
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► OLYCameraAutoFocusResult
► OLYCameraConnectionList
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OLYCameraKitException
► OLYCameraLiveViewListener
► OLYCameraLog
OLYCameraPlaybackListener
► OLYCameraPropertyListener
► OLYCameraRecordingList
► OLYCameraRecordingSup
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► OLYCameraLog

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► OLYCameraStatusListener

OLYCameraConnectionListener Member List

This is the complete list of members for [OLYCameraConnectionListener](#), including all inherited members.

[onDisconnectedByError\(OLYCamera camera, OLYCameraKitException e\)](#) [OLYCameraConnectionListener](#)

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OLYCameraPropertyListener Member List

This is the complete list of members for [OLYCameraPropertyListener](#), including all inherited members.

[onUpdateCameraProperty\(OLYCamera camera, String name\)](#) [OLYCameraPropertyListener](#)

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OLYCameraRecordingListener Member List

This is the complete list of members for [OLYCameraRecordingListener](#), including all inherited members.

[onChangeAutoFocusResult](#)(OLYCamera camera, OLYCameraAutoFocusResult result) [OLYCameraRecordingListener](#)

[onStartRecordingVideo](#)(OLYCamera camera) [OLYCameraRecordingListener](#)

[onStopRecordingVideo](#)(OLYCamera camera) [OLYCameraRecordingListener](#)

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OLYCameraRecordingSupportsListener Member List

This is the complete list of members for [OLYCameraRecordingSupportsListener](#), including all inherited members.

onReceiveCapturedImage(OLYCamera camera, byte[] data, Map< String, Object > metadata)	OLYCameraRecordir
onReceiveCapturedImagePreview(OLYCamera camera, byte[] data, Map< String, Object > metadata)	OLYCameraRecordir
onStopDrivingZoomLens(OLYCamera camera)	OLYCameraRecordir

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OLYCameraAutoFocusResult Member List

This is the complete list of members for [OLYCameraAutoFocusResult](#), including all inherited members.

[getRect\(\)](#) [OLYCameraAutoFocusResult](#)

[getResult\(\)](#) [OLYCameraAutoFocusResult](#)

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OLYCameraLiveViewListener Member List

This is the complete list of members for [OLYCameraLiveViewListener](#), including all inherited members.

[onUpdateLiveView\(OLYCamera camera, byte\[\] data, Map< String, Object > metadata\)](#) [OLYCameraLiveViewListener](#)

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OLYCameraFileInfo Member List

This is the complete list of members for [OLYCameraFileInfo](#), including all inherited members.

[getAttributes\(\)](#) [OLYCameraFileInfo](#)

[getDatetime\(\)](#) [OLYCameraFileInfo](#)

[getDirectoryPath\(\)](#) [OLYCameraFileInfo](#)

[getExtension\(\)](#) [OLYCameraFileInfo](#)

[getFilename\(\)](#) [OLYCameraFileInfo](#)

[getFileszie\(\)](#) [OLYCameraFileInfo](#)

[getFiletype\(\)](#) [OLYCameraFileInfo](#)

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Overview

File attribute.

Public Attributes

Hidden

Hidden file.

Protected

Protected file and cannot be deleted.

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Directory	Directory.								
File	File.								
Unknown	Unknown.								

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<u>Debug</u>	Debug.									
<u>Error</u>	Error.									
<u>Info</u>	Information.									
<u>Warning</u>	Warning.									

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clearAutoFocusPoint
clearGeolocation
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convertPointOnLiveImage
convertPointOnViewfinder
convertRectOnLiveImage
convertRectOnViewfinder
countNumberOfContent
disconnectWithPowerOff
downloadContent
downloadContentList
downloadContentScreen
downloadContentThumbnail
downloadImage
getActionType
getActualApertureValue
getActualAutoFocusPoint
getActualExposureCompensation
getActualFocalLength
getActualIsoSensitivity
getActualShutterSpeed
getAutoExposureEffectiveness
getAutoFocusEffectiveArea
getBuildNumber
getCameraPropertyName
getCameraPropertyTitle
getCameraPropertyValue
getCameraPropertyValue
getCameraPropertyValue
getDetectedHumanFace
getDigitalZoomScaleRatio

OLYCamera.ActionType Member List

This is the complete list of members for [OLYCamera.ActionType](#), including all inherited members.

Movie	OLYCamera.ActionType
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Sequential	OLYCamera.ActionType
----------------------------	--------------------------------------

Single	OLYCamera.ActionType
------------------------	--------------------------------------

Unknown	OLYCamera.ActionType
-------------------------	--------------------------------------

getLensMountStatus
getLevelGauge
getLiveViewSize
getMaximumFocalLength
getMediaMountStatus
getMinimumFocalLength
getRemainingImageCapacity
getRemainingMediaCapacity
getRemainingVideoCapacity
getRunMode
getVersion
inquireContentInformation
inquireHardwareInformation
isActualIsoSensitivityWarning
isConnected
isDrivingZoomLens
isExposureMeteringWarning
isExposureWarning
isHighTemperatureWarning
isMagnifyingLiveView
isMediaBusy
isMediaError
isRecordingVideo
isTakingPicture
lockAutoExposure
lockAutoFocus
setAutoExposurePoint
setAutoFocusPoint
setCameraPropertyList
setCameraPropertyValue
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setCameraStatusListener
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setRecordingListener
setRecordingSupportsListener
startDrivingZoomLensFor
startDrivingZoomLensTo
startRecordingVideo
startTakingPicture
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stopTakingPicture
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OLYCamera

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changeRunMode

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clearAutoFocusPoint

clearGeolocation

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convertPointOnLiveImage

convertPointOnViewfinder

convertRectOnLiveImage

convertRectOnViewfinder

countNumberOfContent

disconnectWithPowerOff

downloadContent

downloadContentList

downloadContentScreen

downloadContentThumbnail

downloadImage

getActionType

getActualApertureValue

getActualAutoFocusPoint

getActualExposureCompensation

getActualFocalLength

getActualIsoSensitivity

getActualShutterSpeed

getAutoExposureEffectiveness

getAutoFocusEffectiveArea

getBuildNumber

getCameraPropertyName

getCameraPropertyTitle

getCameraPropertyValue

getCameraPropertyValue

getCameraPropertyValue

getDetectedHumanFace

getDigitalZoomScaleRatio

OLYCamera.CompletedCallback Member List

This is the complete list of members for [OLYCamera.CompletedCallback](#), including all inherited members.

[onCompleted\(\)](#) [OLYCamera.CompletedCallback](#)

[onErrorOccurred\(OLYCameraKitException e\)](#) [OLYCamera.CompletedCallback](#)

getLensMountStatus
getLevelGauge
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getRemainingMediaCapacity
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inquireHardwareInformation
isActualIsoSensitivityWarning
isConnected
isDrivingZoomLens
isExposureMeteringWarning
isExposureWarning
isHighTemperatureWarning
isMagnifyingLiveView
isMediaBusy
isMediaError
isRecordingVideo
isTakingPicture
lockAutoExposure
lockAutoFocus
setAutoExposurePoint
setAutoFocusPoint
setCameraPropertyList
setCameraPropertyValue
setCameraPropertyValue
setCameraStatusListener
setConnectionListener
setGeolocation
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- ▶ LEVEL_GAUGE_PITCH
- ▶ LEVEL_GAUGE_ROLL
- ▶ START_TAKING_PICTURE
- ▶ OLYCameraAutoFocusResult
- ▶ OLYCameraConnectionList
- ▶ OLYCameraFileInfo
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OLYCamera.DownloadContentCallback Member List

This is the complete list of members for [OLYCamera.DownloadContentCallback](#), including all inherited members.

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This is the complete list of members for [OLYCamera.DownloadImageCallback](#), including all inherited members.

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getWidth()	OLYCamera.LiveViewSize																
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► OLYCameraRecordingListe

► OLYCameraRecordingSup

► OLYCameraStatusListener

OLYCameraKitException Member List

This is the complete list of members for [OLYCameraKitException](#), including all inherited members.

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<ul style="list-style-type: none">▼ OLYCameraKit<ul style="list-style-type: none">▼ Classes<ul style="list-style-type: none">▼ jp<ul style="list-style-type: none">▼ co<ul style="list-style-type: none">▼ olympus<ul style="list-style-type: none">▼ camerakit<ul style="list-style-type: none">► OLYCamera► OLYCameraAutoFocusRes...► OLYCameraConnectionLis...► OLYCameraFileInfo► OLYCameraKitException► OLYCameraLiveViewLister...► OLYCameraLog► OLYCameraPlaybackLister...► OLYCameraPropertyLister...► OLYCameraRecordingLister...► OLYCameraRecordingSup...► OLYCameraStatusListener...	<h2>OLYCameraLog Member List</h2> <p>This is the complete list of members for OLYCameraLog, including all inherited members.</p> <ul style="list-style-type: none">► OLYCamera► OLYCameraAutoFocusRes...► OLYCameraConnectionLis...► OLYCameraFileInfo► OLYCameraKitException► OLYCameraLiveViewLister...► OLYCameraLog► OLYCameraPlaybackLister...► OLYCameraPropertyLister...► OLYCameraRecordingLister...► OLYCameraRecordingSup...► OLYCameraStatusListener...			

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▼ OLYCameraKit

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- ActionType
- CompletedCallback
- DownloadContentCallback
- DownloadContentListCallback
- DownloadImageCallback
- DrivingZoomLensDirect
- DrivingZoomLensSpeed
- LiveViewSize
- ProgressCallback
- ProgressEvent**
- RunMode
- TakePictureCallback
- TakingProgress

- OLYCamera
- canSetCameraProperty
- changeDigitalZoomScale
- changeLiveViewSize
- changeRunMode
- clearAutoExposurePoint
- clearAutoFocusPoint
- clearGeolocation
- connect
- convertPointOnLiveImage
- convertPointOnViewfinder
- convertRectOnLiveImage
- convertRectOnViewfinder
- countNumberOfContent
- disconnectWithPowerOff
- downloadContent
- downloadContentList
- downloadContentScreen
- downloadContentThumbnail
- downloadImage
- getActionType
- getActualApertureValue
- getActualAutoFocusPoint
- getActualExposureCompensation
- getActualFocalLength
- getActualIsoSensitivity
- getActualShutterSpeed
- getAutoExposureEffectiveness
- getAutoFocusEffectiveArea
- getBuildNumber
- getCameraPropertyName
- getCameraPropertyTitle
- getCameraPropertyValue
- getCameraPropertyValue
- getCameraPropertyValue
- getCameraPropertyValue
- getCameraPropertyValue
- getDetectedHumanFace
- getDigitalZoomScaleRatio

OLYCamera.ProgressEvent Member List

This is the complete list of members for [OLYCamera.ProgressEvent](#), including all inherited members.

getProgress()	OLYCamera.ProgressEvent
isCancellable()	OLYCamera.ProgressEvent
requestCancellation()	OLYCamera.ProgressEvent

getLensMountStatus
getLevelGauge
getLiveViewSize
getMaximumFocalLength
getMediaMountStatus
getMinimumFocalLength
getRemainingImageCapacity
getRemainingMediaCapacity
getRemainingVideoCapacity
getRunMode
getVersion
inquireContentInformation
inquireHardwareInformation
isActualIsoSensitivityWarning
isConnected
isDrivingZoomLens
isExposureMeteringWarning
isExposureWarning
isHighTemperatureWarning
isMagnifyingLiveView
isMediaBusy
isMediaError
isRecordingVideo
isTakingPicture
lockAutoExposure
lockAutoFocus
setAutoExposurePoint
setAutoFocusPoint
setCameraPropertyList
setCameraPropertyValue
setCameraPropertyValue
setCameraStatusListener
setConnectionListener
setGeolocation
setLiveViewListener
setRecordingListener
setRecordingSupportsListener
startDrivingZoomLensFrom
startDrivingZoomLensTo
startRecordingVideo
startTakingPicture
stopDrivingZoomLens
stopRecordingVideo
stopTakingPicture
takePicture
toString
unlockAutoExposure
unlockAutoFocus
DIGITAL_ZOOM_SCALAR
DIGITAL_ZOOM_SCALAR
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
HARDWARE_INFORMATION
IMAGE_RESIZE_1024
IMAGE_RESIZE_1600
IMAGE_RESIZE_1920
IMAGE_RESIZE_2048

- IMAGE_RESIZE_NONE
- LEVEL_GAUGE_ORIENTATION
- LEVEL_GAUGE_PITCH
- LEVEL_GAUGE_ROLL
- START_TAKING_PICTURE
- ▶ OLYCameraAutoFocusResult
- ▶ OLYCameraConnectionList
- ▶ OLYCameraFileInfo
- OLYCameraKitException
- ▶ OLYCameraLiveViewListener
- ▶ OLYCameraLog
- OLYCameraPlaybackListener
- ▶ OLYCameraPropertyListener
- ▶ OLYCameraRecordingListener
- ▶ OLYCameraRecordingSupervisor
- ▶ OLYCameraStatusListener

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<p>OLYCameraKit</p> <ul style="list-style-type: none"> ▼ Classes ▼ jp ▼ co ▼ olympus ▼ camerakit ▼ OLYCamera ► ActionType ► CompletedCallback ► DownloadContentCallback ► DownloadContentListCallback ► DownloadImageCallback ► DrivingZoomLensDirect ► DrivingZoomLensSpeed ► LiveViewSize ► ProgressCallback ► ProgressEvent ► RunMode ► TakePictureCallback ► TakingProgress OLYCamera canSetCameraProperty changeDigitalZoomScale changeLiveViewSize changeRunMode clearAutoExposurePoint clearAutoFocusPoint clearGeolocation connect convertPointOnLiveImage convertPointOnViewfinder convertRectOnLiveImage convertRectOnViewfinder countNumberOfContent disconnectWithPowerOff downloadContent downloadContentList downloadContentScreen downloadContentThumbnail downloadImage getActionType getActualApertureValue getActualAutoFocusPoint getActualExposureCompensation getActualFocalLength getActualIsoSensitivity getActualShutterSpeed getAutoExposureEffectiveness getAutoFocusEffectiveArea getBuildNumber getCameraPropertyName getCameraPropertyTitle getCameraPropertyValue getCameraPropertyValue getCameraPropertyValue getCameraPropertyValue getCameraPropertyValue getDetectedHumanFace getDigitalZoomScaleRatio 																
<p>OLYCamera.RunMode Member List</p> <p>This is the complete list of members for OLYCamera.RunMode, including all inherited members.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="padding: 2px;">Maintenance</td> <td style="padding: 2px;">OLYCamera.RunMode</td> </tr> <tr> <td style="padding: 2px;">Playback</td> <td style="padding: 2px;">OLYCamera.RunMode</td> </tr> <tr> <td style="padding: 2px;">Playmaintenance</td> <td style="padding: 2px;">OLYCamera.RunMode</td> </tr> <tr> <td style="padding: 2px;">Recording</td> <td style="padding: 2px;">OLYCamera.RunMode</td> </tr> <tr> <td style="padding: 2px;">Standalone</td> <td style="padding: 2px;">OLYCamera.RunMode</td> </tr> <tr> <td style="padding: 2px;">Unknown</td> <td style="padding: 2px;">OLYCamera.RunMode</td> </tr> </tbody> </table>					Maintenance	OLYCamera.RunMode	Playback	OLYCamera.RunMode	Playmaintenance	OLYCamera.RunMode	Recording	OLYCamera.RunMode	Standalone	OLYCamera.RunMode	Unknown	OLYCamera.RunMode
Maintenance	OLYCamera.RunMode															
Playback	OLYCamera.RunMode															
Playmaintenance	OLYCamera.RunMode															
Recording	OLYCamera.RunMode															
Standalone	OLYCamera.RunMode															
Unknown	OLYCamera.RunMode															

getLensMountStatus
getLevelGauge
getLiveViewSize
getMaximumFocalLength
getMediaMountStatus
getMinimumFocalLength
getRemainingImageCapacity
getRemainingMediaCapacity
getRemainingVideoCapacity
getRunMode
getVersion
inquireContentInformation
inquireHardwareInformation
isActualIsoSensitivityWarning
isConnected
isDrivingZoomLens
isExposureMeteringWarning
isExposureWarning
isHighTemperatureWarning
isMagnifyingLiveView
isMediaBusy
isMediaError
isRecordingVideo
isTakingPicture
lockAutoExposure
lockAutoFocus
setAutoExposurePoint
setAutoFocusPoint
setCameraPropertyList
setCameraPropertyValue
setCameraPropertyValue
setCameraStatusListener
setConnectionListener
setGeolocation
setLiveViewListener
setRecordingListener
setRecordingSupportsList
startDrivingZoomLensFrom
startDrivingZoomLensTo
startRecordingVideo
startTakingPicture
stopDrivingZoomLens
stopRecordingVideo
stopTakingPicture
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IMAGE_RESIZE_1024
IMAGE_RESIZE_1600
IMAGE_RESIZE_1920
IMAGE_RESIZE_2048

- IMAGE_RESIZE_NONE
- LEVEL_GAUGE_ORIENTATION
- LEVEL_GAUGE_PITCH
- LEVEL_GAUGE_ROLL
- START_TAKING_PICTURE
- ▶ OLYCameraAutoFocusResult
- ▶ OLYCameraConnectionList
- ▶ OLYCameraFileInfo
- OLYCameraKitException
- ▶ OLYCameraLiveViewListener
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takePicture
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