SEKONIC

OPTICAL MARK READER

Windows API Reference manual

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1.Introduction

This manual explains the use of API (Application Programming Interface) for USB communications (ver.1.1/2.0/3.0) control of Sekonic's OMR, SR-2300/5500/3500/6000/6500, SR-1800, SR-3500/6500/8000HYBRID, and SR-11000.

(Please chack the specification of each model about usable USB version.)

The Microsoft Windows platform environment was utilized for developing efficient OMR control applications. Regarding further details on the platform environment, please refer to the "Environment for Operation" section. In order to control OMR, it is necessary to connect personal computer (PC) with the OMR by a USB cable.

OMR will operate according to control commands from the PC.

Functions will be created for each command (and response), so that they can be utilized as API reference. This document provides detailed explanation on each function, and explains the parameters that can be transferred to each function. Actual usage examples are included for reference as well.

API usage can be classified into the following 4 categories:

- (1) System control: interface initialization (connection) etc.
- (2) Setting Parameters : conduct necessary mark-sheet reading settings.
- (3) Action Command: Commands for reading and disposing paper, etc.
- (4) Data Request: Collects data such as mark sheet reading results and OMR condition, etc.

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On the process of Decode/Encode of JPEG file, This API uses Library made by "Independent JPEG Group".

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2. APILibrary structure

The Program Structure to control SEKONIC OMR is as following,

The Program which you develop communicates with OMR via Device Driver by using New API Library (SkDvSRseries.dll) or Old API Library (OMRAPI.dll). You can use both API Libraries same time. Old API Library will be no longer updated anymore.

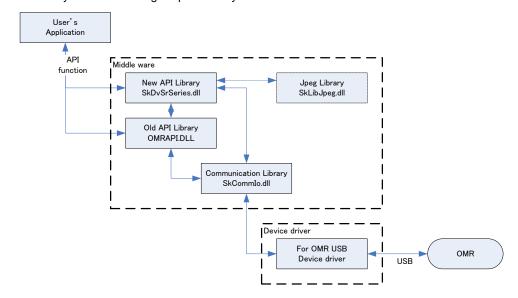


Fig 1 Program Structure

	Items	Description	
1	User application	Application which developped by user or vendor.	
2	New API Library	API Library for control of SR-3500 / SR-6000 / SR-6500,	
	(SkDvSrSeries.dll)	SR-1800,SR-3500/6500/8000 HYBRID,SR-11000	
3	Old API Library (OMRAPI.dll)	OMRAPI dll for control of SR-3500/SR-6000/SR-6500,	
		SR-1800	
4	Jpeg Library (SkLibJpeg.dll)	Library format for saving files in Jpeg	
		for SR-3500/6500/8000 HYBRID.	
5	Basic Communication Library	Library for communication with USB Driver for OMR	
	(SkCommlo.dll)		
6	USB Device Driver for OMR	Device Driver for communication with OMR	
7	OMR	SR-3500 / SR-6000 / SR-6500,	
		SR-1800, SR-3500/6500/8000 HYBRID, SR-11000	

3. Provided files

API Library to control of SEKONIC OMR by USB communication is supplied by the following file.

3.1. APILibrary

API Library is 32bits Program.
Please develop the application in 32bits.
(1) In case of using New API Library,

User application can controls OMR by API Function of "SkDvSrSeries.dll".

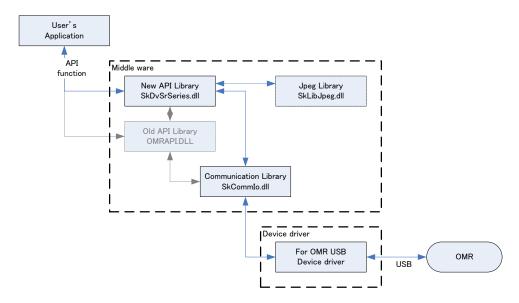


Fig 2 Program Structure by New API Library

New API Library can process the image data offered by SR-3500/6500/8000HYBRID and perform a continuous read by SR-11000.

Item	Files	description
Executable file SkDvSrSeries.dll		The main body of Library. Dynamic link Library.
	SkCommlo.dll	DLL for access SkDvSrSeries.dll.
	SkLibJpeg.dll	DLL for save Image file as JPG.
Generating file	SkDvSrSeries.log	Generated when executing Library could be 4Kbyte at
for Execution	SkCommlo.log	maximum.
Header file	SkDvSr11000Api.h	Library's header file.
	SkDvSr3500ImgApi.h	Library's header file forimage.
	SkDvSrOptionApi.h	Library's header file for Bar Code Reader and Printer.
	SkDvSrBaseApi.h	Library's header file base for OMR
	SkDvSr11000Prm.h	Library header file only for continuous reading
	SkDvSrSeriesPrm.h	Header file defining Constant and Structure.
	SkDvSrSeriesErr.h	Header file defining Status Constant
		of SkDvSrSeries.dll
	SkCommloErr.h	Header file defining Status Constant of SkCommlo.dll
Library	SkDvSrSeries.lib	Introducing Library for linking when using New type of
		API Library

(2) In the case of applications using " SkDvSr3500Img.dll ". SkDvSr3500Img.dll in the CD is a wrapper DLL.

If an application uses SkDvSr3500Img.dll that was provided in past, you can control SkDvSrSeries.dll with this wrapper DLL.

If you develop an application newly, control SkDvSrSeries.dll directly without using the wrapper DLL.

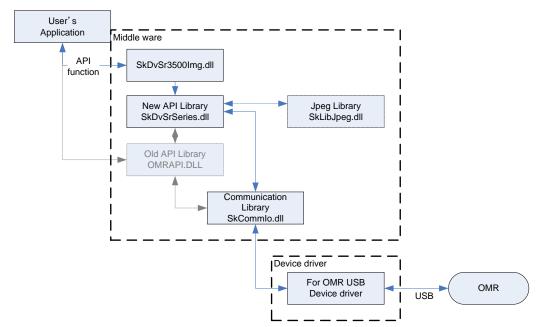


Fig 3 In the case of applications using " SkDvSr3500Img.dll "

(3) In case of using Old API Library, User application controls OMR by calling API Functions of [OMRAPI.DLL]. [OMRAPI.DLL] is not included in the CD. Please use the old CD.

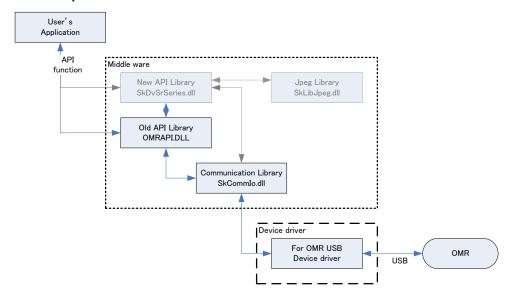


Fig 4 Program structure using Old API Library

Old API Library cannot process image data and continuous read.

Former Ver. than Old type of API Library Ver4.1 was operated by only "OMRAPI.DLL", as from Ver.5.0, it needs "SkCommlo.dll". But processing quality is almost same with each other.

Items	File	description
Executable file	OMRAPI.DLL	Main body dynamic linking library with API function.
	SkCommlo.dll	Dynamic Link Library for "OMRAPI.DLL"
Generating file for	SkCommlo.log	Generated when executing Library could be 4Kbyte
Execution		at maximum.
Header file	OMRAPI.h	Header file of OMRAPI.DLL
Library	OMRAPI.LIB	The introducing library for linking when using OMR
		API.DLL

(4) In case of using NEW / OLD API Library both.

When processing SR-3500/6500HYBRID's image data and using Old API Library, Please use both Libraries (New & Old) at the same time.

Both libraries (new API/OLD API) need to execute application software or programs.

3.2. Device Driver

Hereunder is the USB device driver installer of SEKONIC CORPORATION Execute the following file, to install the USB driver

DriverInstaller*.*.exe

1:".*" is the version of USB driver to be installed

*2:USB driver may be renewal

3.3. Re-distributable File

Re-distribution of the following filereading be allowed only with the develop the software. Cannot distribute just only following files.

Driver installer*.*.exe SkDvSrseries.dll OMRAPI.DLL SkCommlo.dll (SkDvSr3500Img.dll) SkLibJpeg.dll *:Caution

*:Caution

This Jpeg Library (SkLibJpeg.dll) is using the program of "Independent JPEG Group". In case re-distribute these dlls, need to mention these are using the program of "Independent JPEG Group"

4. Environment for Operation

4.1. Environment for Operation

This API Library can operate in the following environment.

OS.

Microsoft Windows 8.1 32bit (x86) and 64bit (x64) Version.

Microsoft Windows 10 32bit (x86) and 64bit (x64) Version.

- *: Operate in SYSWOW64 on 64bit PC
- *: Not Supported virtual machine by Client Hyper-V
- *: Microsoft support is finished, would remove it from the operating environment.

CPU

Intel Core i3 2GHz or greater, or equivalent CPU. (Recommendation: Core i5 or greater)

Hard disk space

vacant space more than 10MB.

Attn*: Not included of capacities for User application and Data filing.

Memory

- 1GBor larger. (Recommendation:2GB or larger)
- *: System requirements are less than the OS.
- *: 2GB or larger if you perform image capturing (Recommendation: 4GB or greater)
- *:Depending on a type of processing performed by application software, there is a possibility that higher specification is required than the recommending environment.

Device Driver

Need installed provided Device Driver.

Interface

USB2.0 or USB3.0

Refer ro a command reference manual about usable USB version in each model.

Simultaneously connectable number of units

1 unit

Note

- Do not control OMR equipment by LCD display of OMR equipment while control via this API library.
- Do not use other application software while control OMR equipment via this API library. Capability of this API library may be drastically go down

4.2. Development tools

This DLL uses Windows standard API in internal.

As this DLL doesn't use other library third-party fixed, it can utilize it from usual Windows application development tool (Visual C++、Visual Basic、Borland C++ Builder etc...).

When use DLL from Development tool, please refer to each tool's manual or study aid. Also, it can write DLL calling routine during coding by using Load Library Function of Win32API.

In actually writing codes, you write to include Header file and Library according the library you use.

When executing application, please put "OMRAPI.DLL / SkDvSrSeries.dll" and "SkCommlo.dll" into same folder as Execution file or Pass-fixed folder.

5.API Reference (New API library)

Here is "SkSrSeries.dll" (SkDvSrseries.dll) API reference. Able to control SR-3500/6000/6500, SR-1800, SR-3500/6500/8000 HYBRID, SR-11000 by USB command.

5.1. Functions

Functions vary depending on model.

Functions		Description		
Im	age capturing	For HYBRID series		
		Method of this function is different by model, so usable API function is also		
		different.		
	SR-3500/6500	Standard image processing function.		
	HYBRID			
	SR-8000 HYBRID	High speed image processing function.		
Re	eading mode	Some models can perform the continuous reading and specific API		
		function for this reading is used.		
For all models		For all models		
	Real time reading	Processing of reading, data capturing and discharging paper is		
		implemented by page		
	Continuous reading	Proceed reading continuously without stop		
Ва	arcode reading	Read and recognize barcode (optional)		
	SR-3500 series For SR-3500/6000/6500, SR-6500HYBRID, SR-11000			
Barcode recognition by dedicated barcode reader (optional)		Barcode recognition by dedicated barcode reader (optional)		
	SR-8000HYBRID	For SR-8000 HYBRID		
	OIX-0000ITI BIXID	Barcode recognition by CIS image capture (optional)		

5.2. List of API

Pre-fixing of the name of API Function is based on the following charts.

API Pre-Fix	Description		
SkDv_	Function which controls basically in this library and make a series of controls.		
SkDv_Req	Function which communicate with Device and do controls. There is a case		
SkDv_Req	having some commands when communicating with Device.		
	Function which controls saving data inside this library.		
SkDv_Get/SkDv_Set	However, it would start communication in case there is un-captuable data		
	unless doing communication with Device.		
	Functions managing one command.		
SkCd_	However, in case of demand for reading sheets, it would be separated		
	because of several responses.		

	Name	API	Description
Basic fu	Get Module info.	SkDv_GetModuleInfo	Get Name and Version of this library, Not needed to open if Library loaded.
functions	Open	SkDv_OpenSingle	Open control of OMR. Able to Respond in case of 1 unit connection only, and when there is Device alread y opening, returns the ERROR.
	Open with (OMRAPI)	SkDv_OpenWithOmra pi	Open when using "SkDvSrseries.dll" with "OMRAPI.dll".

	Name	API	Description
	Close	SkDv_Close	Execute when all handle is done.
			Open memories for each type of operation
			S.
	Initialize Requirement	SkDv_ReqInit	Initialize the operation condition of Device.
			Image data and internal operation data init
			ialized. Also Soft resetting is done toward
			Device.
	Get Device info.	SkDv_GetInfo	Get information of Ver. and available Func
			tions.
	Get Operating mode	SkDv_GetMode	Get Operating mode. Operating mode is t
			o be saved in this library.
	Set of Operating mod	SkDv_SetMode	Set Operation mode.Operation mode is to
	е		be saved in this library.
	Get Mark reading con	SkDv_GetMarkConf	Get the condition of Mark reading operatio
	dition		n. The condition of operation is saved in t
		Ol-Dr. O-tMd-Od	his library.
	Set of Mark reading c	SkDv_SetMarkConf	Set the condition of Mark reading operatio
	ondition		n. The condition of operation is saved in t
	5	SkCd_GetStatus	his library.
	Request Status info.	SkCu_GelSlalus	Get the Status of Device by communicatio
	Descript Conser info	SkCd_GetSensor	n.
	Request Sensor info.	Skod_deldelisoi	Get the sensor information. by communica tion.
	Request Reading	SkDv_ReqFeedMarkSh	Read Marks. Not getting Image data.
	(Mark only)	eet	read Marks. Not getting image data.
	Request Eject	SkDv_ReqEjectForm	Eject the sheets.
	Request Clear Error	SkDv_ReqClearError	Communicate with Device to Clear Error.
	Request get Mark dat	SkDv_ReqGetMarkDat	Get Mark data by communication.
	a	а	
Εχ	Request communicatio	SkDv_ReqGetInfo	Communicate with device to get infomatio
anc	n to get Device inform		n.
ded	ation.		
panded function	Request communicatio	SkDv_ReqGetMode	Communicate with device to get Operation
ctio	n to get Operation mo		mode.
ם	de.		
	Request communicatio	SkDv_ReqSetMode	Communicate with device to set up Opera
	n to setting Operation		tion mode.
	mode	OLD. D. O. M. LO	
	Request communicatio	SkDv_ReqGetMarkCo nf	Communicate with device to get Operation
	n to get Mark conditio		condition of Mark reading.
	n · · · ·	CkDy BogCotMorkCom	
	Request communicatio	SkDv_ReqSetMarkCon f	
	n to set Mark conditio		condition of Mark reading.
	n.		

	Name	API	Description
-	Get Image reading co	SkDv_GetImageConf	Get the condition of Image reading operati
lmage Reading	ndition		on. The condition of operation is saved in this library.
leac	Set of Image reading	SkDv_SetImageConf	Set the condition of Image reading operati
ing	condition		on. The condition of operation is saved in this library.
	Get Image reading co ndition (extra)	SkDv_GetImageConfE x	Get the extra condition of Image reading operation. The condition of operation is aved in this library.
	Set of Image reading condition (extra)	SkDv_SetImageConfE x	Set the extra condition of Image reading o peration. The condition of operation is sav ed in this library.
	Request communication to get Image condition.	SkDv_ReqGetImageC onf	Communicating to get Image condition, to save it into Library.
	Request communication n to set Image condition.	SkDv_ReqSetImageCo nf	Communicating to set Image condition, to save it into Library.
	Request Reading (Mark and Image)	SkDv_ReqScanForm	Reading Mark sheet, and capturing Image data. If the communication for getting Image/setting Condition/CIS standard data has not been done, the communication will be done before Reading.
	Request get sheet siz e	SkDv_GetFormSize	Getting the sheet size from Image data in Middleware.
	Set Information for det ecting the elongation of the read image	SkDv_SetImage ElongationDetectInfo	Information for detecting the elongation of the read image is set.
	Get Information for det ecting the elongation of the read image	SkDv_GetImage ElongationDetectInfo	Information for detecting the elongation of the image stored in the middleware is acquired.
	Saving the Image data	SkDv_SaveImageData	Saving the Image data in this library into File. Cutout position, rotation and file format ca n be specified.
	Saving the Image data by other threads	SkDv_SaveImageData Thread	Save the Image data which is keep in thi s library by other Threads.
	Confirm running Threa ds	SkDv_IsThreadRunnin g	Confirm other Threads made by the functi on of SkDv_SaveImageDataThread" has cl osed.
	Generating Image data	SkDv_CreateImage	Secure memory and store image data. Cutout position, rotation, and the like can be designated.
	Destroying Image data	SkDv_DestroyImage	Destroying the Image data generated at " SkDv_CreateImage"

	Name	API	Description
Conti	Request ID for Set lay out management	SkDv_ReqSetLayout Manage	Setup ID for perform window control
Continuous reading	Finish layout setup	SkDv_ReqSetLayout ManageTerminate	Finish layout setup (ID data setting, windo ws area setting) of window control.
eading	Request Form ID setti	SkDv_ReqSetLayoutId	ID of a form is set up and enables to set up window areas.
	Request window area setting	SkDv_ReqSetWindow Area	Setup window area.
	Clear Layout setting	SkDv_ReqClearLayout	Clear all contents of the layout setting
	Poll print & eject	SkDv_PollingPrintEject	Use for non multi-thread case like VB6.0 to call back print & eject function
	Register call back fun ction of print & eject	SkDv_RegistPrintEject Callback	Register the function to call back. Judge and print & eject based on registered function
	Call back function of print & eject	FN_SK_DV_CONTFE ED_CALLBACK	Definition of call back function
	Get mark data for call back continuous readi ng	SkDv_GetContDataMa rks_Now	Use only for call back function of print & eject. Get mark data.
	Get barcode data (rea d number) for call bac k continuous reading	SkDv_GetContDataBar codesCount_Now	Use only for call back function of print & eject. Get number of read barcode.
	Get barcode data (dat a) for call back contin uous reading	SkDv_GetContDataBar codesData_Now	Use only for call back function of print & eject. Get data of specified number in rea d barcode.
	Request LCD Panel	SkDv_ReqSetPanel UserEnable	Specified character shows on the LCD dis play and prohibit operation by LCD button
	Request Panels switch statement	SkDv_ReqGetPanel UserSwitch	Get the state of the panel switch of OMR.
	Request Fixed printed characters for continu ous reading	SkDv_ReqSetPrintFixS tring	Set the String(fixed) for Print
	Request printed seque nce number for continuous reading	SkDv_ReqSetContFeed Print	The consecutive numbers of continuation r eading printing is set.
	Request start continuo us reading	SkDv_ReqContFeed Sheet	Request start Continuausn reading
	Request Stop Continu ous Reading	SkDv_ReqContFeed_ Cancel	Request stop Continuous reading
	Confirm Continuous re ading	SkDv_IsContFeedRun ning	Confirm continuation reading is operating.
	Confirm Continuous re ading is finished	SkDv_IsContFeedData Finished	Confirm continuous reading is finished, an d all data is transferred completely
	Confirm Continuous re ading data storage	SkDv_ExistDoneData	Confirm whether the data is stored after s tart continuous reading.
	Get feed condition	SkDv_GetContFeed Count	Get the number of sheets "worker thread" of continuous reading received.

	Prepare Continuous re ading	SkDv_PrepareContDat a	The data which the "worker thread" of con tinuation reading received is acquired.
	Get the number of dat a	SkDv_GetContData Number	Get the current data number (number of s heets) of continus reading data
	Get mark data by Con tinuous reading	SkDv_GetContDataMa rks	Get the mark data prepared by "SkDv_Prep areContData"
	Get Barcode data by continuous reading	SkDv_GetContData Barcodes	Get the barcode data prepared by "SkDv_P repareContData"
	Get the number of Ba rcode data by continu ous reading	SkDv_GetContData BarcodesCount	Get the number of barcode data prepared by "SkDv_PrepareContData"
	Get each barcode dat as by continuous reading	SkDv_GetContData BarcodesData	Get the each barcode datas prepared by "SkDv_PrepareContData"
	Save image file by continuous reading	SkDv_SaveContJpegI mage	Save Jpeg file prepared by continuous rea ding data preparation as specified name.
	Get result by continuo us reading	SkDv_GetContData SheetResult	Get result data prepared by the "SkDv_Pre pareContData"
	Get result of continuo us reading	SkDv_GetContFeetRe sult	Get the result of continuous reading

	Name	API	Description
ဝ	Get reading condition	SkDv_GetBcrConf	Get the reading condition of barcode store
tior	of barcode		d into library
Option(Barcode)	Set reading condition	SkDv_SetBcrConf	Set the reading condition of barcode store
ırco	of barcode		d into library
de)	Get reading condition	SkDv_GetBcrConfEx	Get the extra reading condition of barcode
	of barcode (extra)		stored into library
	Set reading condition	SkDv_SetBcrConfEx	Set the extra reading condition of barcode
	of barcode (extra)		stored into library
	Request to get read s	SkDv_ReqGetBcrConf	Get the reading condition of barcode.
	etting of Barcode		
	Request to set read s	SkDv_ReqSetBcrConf	Set the reading condition of barcode.
	etting of Barcode		
	Request get the numb	SkDv_ReqGetBcrData Count	Get the number of barcodes read
	er of barcodes	Count	
	Request get the barco	SkDv_ReqGetBcrData	Get each barcode datas
	de datas		
ဝ	Get printer setting	SkDv_GetPrinterConf	Get printer setting into Library
Option(Printer)			
(Pri	Set printer setting	SkDv_SetPrinterConf	Set printer setting into Library.
intei	Set printing string to d	SkDv_ReqPrintString	Set the print string into device.
<u> </u>	evice		
	Get printing string fro	SkDv_ReqGetPrinterC	Get the print string into device
	m device		
	Request set printer se	SkDv_ReqSetPrinterC	Set the printer setting to device
	tting to device	- Oili	

5.3. Constant

5.3.1. Outline status code

Return value of API is based on "SkDvStatus" type.

SkDvStatus is defined as the following...

typedef DWORD SkDvStatus;

In case of setting Status code "0xAABBCCCC", each AA,BB,CCCC mean the following.

Position of bit	hexadecimal number			Description
31~24	0xAA	Fix	ked (0x20)	
23~16	0xBB	Co	ode representing	generated Device and Library
			Value	Meaning
			0x2032	Status code of this library
			0x2021	Status code of lower communi
				cation library
			0x2002	Status code of Device
15~ 0	0xCCCC	Co	ode of Device ar	nd Library

There are two type of status code of Device "ST1" and "ST2", prior one would be notified.

In Status code of Library, the prior 2byte is fixed to "0x2002", and the lower 2 byte is converted as follows and would be notified.

However, In case Status code (ST1 and ST2) = "00", it wouldn't notified as Status code of Library because it is normal.

	Position of bit	binary digits			Description	
1	15~11	0bDDDD	The	e first character	of Status code (ST/	۹).
			Cor	nverted as the	following chart.	
				Converted value	Character of Statu s code	ASCII Code
				0b00000	0	0x30
				0b00001	А	0x41
				\$	\$	S
				0b11010	Z	0x5A
				0b11111	@	0x40
2	10~ 7	0bEEEE	The	e second chara	cter of Status code	(STA).
			Cor	nverted as the	following chart.	
				Converted	Character of Statu	ASCII Code
				value	s code	
				0b0000	0	0x30
				\$	\$	\$
				0b1001	9	0x39
				0b1111	@	0x40
3	6 ~ 5	0bFF	Erro	or description i	nformation.	
			Cor	nverted as sar	me as the first cha	racter of Status
			cod	le (STA).		
4	4~ 0	0bGGGGG		or description in	nformation.	
				· ·	me as the first cha	racter of Status
				le (STA).		

5.3.2. List of Status code

o[The Parts of Status code]

Constant	Value	Description
SK_STS_MODULE_MASK	0xffff0000	Bit mask of Module definition sector
SK_STS_MODULE	0x20310000	Main Module
SK_STS_MODULE_IO	0x20210000	The lower basic communication library
SK_STS_DEVICE_3500	0x20020000	Error from Device

Status code of Library

SKDV_STS_SUCCESS	Constant	Value	Description
SKDV_STS_EXECUTE_ER 0x20310001 WindowAPI Execution error R SKDV_STS_CREATE 0x20310006 Create Event Error EVENT_ERR SKDV_STS_CREATE 0x20310007 Create Thread Error THREAD_ERR SKDV_STS_USED_DEVICE 0x2031000E Device is using SKDV_STS_WAIT_TIMEOU 0x2031000F Timeout	SKDV STS SUCCESS	0x00000000	
SKDV_STS_CREATE_	SKDV_STS_EXECUTE_ER		WindowAPI Execution error
SKDV_STS_CREATE_	SKDV_STS_CREATE_	0x20310006	Create Event Error
SKDV_STS_WAIT_TIMEOU	SKDV_STS_CREATE_	0x20310007	Create Thread Error
T	SKDV_STS_USED_DEVICE	0x2031000E	Device is using
SKDV_STS_MEM_ALLOC_ Dx20311002 Memory Allocation Error ERR SKDV_STS_LOAD_SUBLIB Dx20311003 Load Sub library Error		0x2031000F	Timeout
ERR SKDV_STS_LOAD_SUBLIB 0x20311003 Load Sub library Error ERR SKDV_STS_PARAM_ERR 0x20311010 Parameter Incorrect SKDV_STS_PARAM_ERR1 0x20311011 Parameter 1 Incorrect SKDV_STS_PARAM_ERR2 0x20311012 Parameter 2 Incorrect SKDV_STS_PARAM_ERR3 0x20311013 Parameter 3 Incorrect SKDV_STS_PARAM_ERR4 0x20311014 Parameter 4 Incorrect SKDV_STS_PARAM_ERR5 0x20311015 Parameter 5 Incorrect SKDV_STS_PARAM_ERR6 0x20311016 Parameter 6 Incorrect SKDV_STS_PARAM_ERR7 0x20311017 Parameter 7 Incorrect SKDV_STS_PARAM_ERR8 0x20311018 Parameter 8 Incorrect SKDV_STS_PARAM_ERR9 0x20311019 Parameter 9 Incorrect SKDV_STS_PARAM_ERR 0x20311017 API Function Error R SKDV_STS_PARAM_ERR 0x20311012 Parameter Error Back side reading SKDV_STS_PARAM_ERR 0x20311012 Parameter Error MAX Form Length FORMLENGTH_MIN Parameter Error MAX Form Length SKDV_STS_PARAM_ERR 0x20311016 CIS Light Incorrect(+iFace) <	SKDV_STS_HANDLE_ERR		Handle Error
ERR SKDV_STS_PARAM_ERR 0x20311010 Parameter Incorrect SKDV_STS_PARAM_ERR1 0x20311011 Parameter 1 Incorrect SKDV_STS_PARAM_ERR2 0x20311012 Parameter 2 Incorrect SKDV_STS_PARAM_ERR3 0x20311013 Parameter 3 Incorrect SKDV_STS_PARAM_ERR4 0x20311014 Parameter 4 Incorrect SKDV_STS_PARAM_ERR5 0x20311015 Parameter 5 Incorrect SKDV_STS_PARAM_ERR6 0x20311016 Parameter 6 Incorrect SKDV_STS_PARAM_ERR6 0x20311017 Parameter 7 Incorrect SKDV_STS_PARAM_ERR7 0x20311018 Parameter 8 Incorrect SKDV_STS_PARAM_ERR8 0x20311018 Parameter 9 Incorrect SKDV_STS_PARAM_ERR9 0x20311019 Parameter 9 Incorrect SKDV_STS_PARAM_ERR9 0x20311011 Parameter 9 Incorrect API Function Error Resolution Error Parameter Error Back side reading SCANNINGSIDE SKDV_STS_PARAM_ERR_ 0x20311011 Parameter Error Back side reading SCAN_CTRL SKDV_STS_PARAM_ERR_ 0x20311012 Parameter Error Reading Control SCAN_CTRL SKDV_STS_PARAM_ERR_ 0x20311014 Parameter Error MAX Form Length FORMLENGTH_MIN Parameter Error MIN Form Length FORMLENGTH_MIN SKDV_STS_PARAM_ERR_ 0x20311015 Parameter Error MIN Form Length FORMLENGTH_MIN SKDV_STS_PARAM_ERR_ 0x20311016 CIS Light error (F) CIS LIGHT SKDV_STS_PARAM_ERR_ 0x20311016 CIS Light error (F) CIS LIGHT_B SKDV_STS_PARAM_ERR_ 0x20311017 CIS Light error (F) CIS LIGHT_B SKDV_STS_PARAM_ERR_ 0x20311018 Resolution error RESOLUTION SKDV_STS_PARAM_ERR_ 0x20311018 Resolution error RESOLUTION SKDV_STS_PARAM_ERR_ 0x20311021 CIS Base data error DATA_ERR DATA_ERR 0x20311021 CIS Base data error		0x20311002	Memory Allocation Error
SKDV_STS_PARAM_ERR	SKDV_STS_LOAD_SUBLIB	0x20311003	Load Sub library Error
SKDV_STS_PARAM_ERR1 0x20311011 Parameter 1 Incorrect SKDV_STS_PARAM_ERR2 0x20311012 Parameter 2 Incorrect SKDV_STS_PARAM_ERR3 0x20311013 Parameter 3 Incorrect SKDV_STS_PARAM_ERR4 0x20311014 Parameter 4 Incorrect SKDV_STS_PARAM_ERR5 0x20311015 Parameter 5 Incorrect SKDV_STS_PARAM_ERR6 0x20311016 Parameter 6 Incorrect SKDV_STS_PARAM_ERR7 0x20311017 Parameter 7 Incorrect SKDV_STS_PARAM_ERR8 0x20311018 Parameter 8 Incorrect SKDV_STS_PARAM_ERR9 0x20311019 Parameter 9 Incorrect SKDV_STS_PARAM_ERR9 0x2031101F API Function Error R SKDV_STS_PARAM_ERR 0x20311011 Parameter Error Back side reading SCANNINGSIDE SKDV_STS_PARAM_ERR 0x20311012 Parameter Error Reading Control SCAN_CTRL SKDV_STS_PARAM_ERR 0x20311014 Parameter Error MAX Form Length FORMLENGTH_MAX SKDV_STS_PARAM_ERR 0x20311015 Parameter Error MIN Form Length FORMLENGTH_MIN			
SKDV_STS_PARAM_ERR2 0x20311012 Parameter 2 Incorrect SKDV_STS_PARAM_ERR3 0x20311013 Parameter 3 Incorrect SKDV_STS_PARAM_ERR4 0x20311014 Parameter 4 Incorrect SKDV_STS_PARAM_ERR5 0x20311015 Parameter 5 Incorrect SKDV_STS_PARAM_ERR6 0x20311016 Parameter 6 Incorrect SKDV_STS_PARAM_ERR7 0x20311017 Parameter 7 Incorrect SKDV_STS_PARAM_ERR8 0x20311018 Parameter 8 Incorrect SKDV_STS_PARAM_ERR9 0x20311019 Parameter 9 Incorrect SKDV_STS_PARAM_ERR9 0x20311011 Parameter 9 Incorrect SKDV_STS_FUNCTION_ER 0x20311011 Parameter Error Back side reading SCAN_STS_PARAM_ERR_ 0x20311011 Parameter Error Back side reading SCAN_ININGSIDE SKDV_STS_PARAM_ERR_ 0x20311012 Parameter Error Reading Control SCAN_CTRL SKDV_STS_PARAM_ERR_ 0x20311014 Parameter Error MAX Form Length FORMLENGTH_MIN SKDV_STS_PARAM_ERR_ 0x20311015 Parameter Error MIN Form Length FORMLENGTH_MIN SKDV_STS_PARAM_ERR_ 0x20311016 CIS Light Incorrect(+iFace) CIS_LIGHT_ SKDV_STS_PARAM_ERR_ 0x20311017 CIS Light error (F) CIS_LIGHT_B SKDV_STS_PARAM_ERR_ 0x20311018 Resolution error RESOLUTION SKDV_STS_PARAM_ERR_ 0x20311018 Resolution error RESOLUTION SKDV_STS_CIS_BASE_ 0x20311021 CIS Base data error			Parameter Incorrect
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SKDV_STS_PARAM_ERR6 0x20311016 Parameter 6 Incorrect SKDV_STS_PARAM_ERR7 0x20311017 Parameter 7 Incorrect SKDV_STS_PARAM_ERR8 0x20311018 Parameter 8 Incorrect SKDV_STS_PARAM_ERR9 0x20311019 Parameter 9 Incorrect SKDV_STS_PARAM_ERR9 0x2031101F API Function Error R SKDV_STS_PARAM_ERR_ 0x20311011 Parameter Error Back side reading SCANNINGSIDE SKDV_STS_PARAM_ERR_ 0x20311012 Parameter Error Reading Control SCAN_CTRL SKDV_STS_PARAM_ERR_ 0x20311014 Parameter Error MAX Form Length FORMLENGTH_MAX SKDV_STS_PARAM_ERR_ 0x20311015 Parameter Error MIN Form Length FORMLENGTH_MIN SKDV_STS_PARAM_ERR_ 0x20311016 CIS Light Incorrect(+iFace) CIS_LIGHT_F SKDV_STS_PARAM_ERR_ 0x20311016 CIS Light error (F) CIS_LIGHT_F SKDV_STS_PARAM_ERR_ 0x20311017 CIS Light error (B) CIS_LIGHT_B SKDV_STS_PARAM_ERR_ 0x20311018 Resolution error RESOLUTION SKDV_STS_CIS_BASE_ 0x20311021 CIS Base data error	SKDV_STS_PARAM_ERR4	0x20311014	Parameter 4 Incorrect
SKDV_STS_PARAM_ERR7 0x20311017 Parameter 7 Incorrect SKDV_STS_PARAM_ERR8 0x20311018 Parameter 8 Incorrect SKDV_STS_PARAM_ERR9 0x20311019 Parameter 9 Incorrect SKDV_STS_PARAM_ERR9 0x2031101F API Function Error R SKDV_STS_PARAM_ERR_ 0x20311011 Parameter Error Back side reading SCANNINGSIDE SKDV_STS_PARAM_ERR_ 0x20311012 Parameter Error Reading Control SCAN_CTRL SKDV_STS_PARAM_ERR_ 0x20311014 Parameter Error MAX Form Length FORMLENGTH_MAX SKDV_STS_PARAM_ERR_ 0x20311015 Parameter Error MIN Form Length FORMLENGTH_MIN SKDV_STS_PARAM_ERR_ 0x20311016 CIS Light Incorrect(+iFace) CIS_LIGHT_F SKDV_STS_PARAM_ERR_ 0x20311017 CIS Light error (F) CIS_LIGHT_B SKDV_STS_PARAM_ERR_ 0x20311018 Resolution error RESOLUTION SKDV_STS_CIS_BASE_ 0x20311021 CIS Base data error	SKDV_STS_PARAM_ERR5	0x20311015	Parameter 5 Incorrect
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SKDV_STS_FUNCTION_ER	SKDV_STS_PARAM_ERR8	0x20311018	Parameter 8 Incorrect
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SCANNINGSIDE SKDV_STS_PARAM_ERR_ 0x20311012 Parameter Error Reading Control SCAN_CTRL SKDV_STS_PARAM_ERR_ 0x20311014 Parameter Error MAX Form Length FORMLENGTH_MAX SKDV_STS_PARAM_ERR_ 0x20311015 Parameter Error MIN Form Length FORMLENGTH_MIN SKDV_STS_PARAM_ERR_ 0x20311016 CIS Light Incorrect(+iFace) CIS_LIGHT SKDV_STS_PARAM_ERR_ 0x20311016 CIS Light error (F) CIS_LIGHT_F SKDV_STS_PARAM_ERR_ 0x20311017 CIS Light error(B) CIS_LIGHT_B SKDV_STS_PARAM_ERR_ 0x20311018 Resolution error RESOLUTION SKDV_STS_CIS_BASE_ 0x20311021 CIS Base data error	R	0x2031101F	API Function Error
SCAN_CTRL SKDV_STS_PARAM_ERR_ 0x20311014 Parameter Error MAX Form Length FORMLENGTH_MAX SKDV_STS_PARAM_ERR_ 0x20311015 Parameter Error MIN Form Length FORMLENGTH_MIN SKDV_STS_PARAM_ERR_ 0x20311016 CIS_Light Incorrect(+iFace) CIS_LIGHT SKDV_STS_PARAM_ERR_ 0x20311016 CIS_Light error (F) CIS_LIGHT_F SKDV_STS_PARAM_ERR_ 0x20311017 CIS_Light error(B) CIS_LIGHT_B SKDV_STS_PARAM_ERR_ 0x20311018 Resolution error RESOLUTION SKDV_STS_CIS_BASE_ 0x20311021 CIS_Base data error DATA_ERR	SCANNINGSIDE	0x20311011	Parameter Error Back side reading
FORMLENGTH_MAX SKDV_STS_PARAM_ERR_ 0x20311015 Parameter Error MIN Form Length FORMLENGTH_MIN SKDV_STS_PARAM_ERR_ 0x20311016 CIS Light Incorrect(+iFace) CIS_LIGHT SKDV_STS_PARAM_ERR_ 0x20311016 CIS Light error (F) CIS_LIGHT_F SKDV_STS_PARAM_ERR_ 0x20311017 CIS Light error(B) CIS_LIGHT_B SKDV_STS_PARAM_ERR_ 0x20311018 Resolution error RESOLUTION SKDV_STS_CIS_BASE_ 0x20311021 CIS Base data error DATA_ERR	SCAN_CTRL	0x20311012	Parameter Error Reading Control
FORMLENGTH_MIN SKDV_STS_PARAM_ERR_ 0x20311016 CIS Light Incorrect(+iFace) CIS_LIGHT SKDV_STS_PARAM_ERR_ 0x20311016 CIS Light error (F) CIS_LIGHT_F SKDV_STS_PARAM_ERR_ 0x20311017 CIS Light error(B) CIS_LIGHT_B SKDV_STS_PARAM_ERR_ 0x20311018 Resolution error RESOLUTION SKDV_STS_CIS_BASE_ 0x20311021 CIS Base data error DATA_ERR	FORMLENGTH_MAX		Parameter Error MAX Form Length
CIS_LIGHT SKDV_STS_PARAM_ERR_ 0x20311016 CIS Light error (F) CIS_LIGHT_F SKDV_STS_PARAM_ERR_ 0x20311017 CIS Light error(B) CIS_LIGHT_B SKDV_STS_PARAM_ERR_ 0x20311018 Resolution error RESOLUTION SKDV_STS_CIS_BASE_ 0x20311021 CIS Base data error DATA_ERR		0x20311015	Parameter Error MIN Form Length
CIS_LIGHT_F SKDV_STS_PARAM_ERR_ 0x20311017 CIS Light error(B) CIS_LIGHT_B SKDV_STS_PARAM_ERR_ 0x20311018 Resolution error RESOLUTION SKDV_STS_CIS_BASE_ 0x20311021 CIS Base data error DATA_ERR		0x20311016	CIS Light Incorrect(+iFace)
CIS_LIGHT_B SKDV_STS_PARAM_ERR_ 0x20311018 Resolution error RESOLUTION SKDV_STS_CIS_BASE_ 0x20311021 CIS Base data error DATA_ERR		0x20311016	CIS Light error (F)
RESOLUTION SKDV_STS_CIS_BASE_ 0x20311021 CIS Base data error DATA_ERR		0x20311017	CIS Light error(B)
DATA_ERR		0x20311018	Resolution error
	SKDV_STS_CIS_BASE_	0x20311021	CIS Base data error
		0x20311100	No Data

Constant	Value	Description
SKDV_STS_ROTATION_ER	0x20311102	Rotation Error
R		
SKDV_STS_IMAGE_	0x203111ff	Image Process Error
PROCESS_ERR SKDV_STS_FILE_ERR	0x20311200	File Error
SKDV_STS_FILE_SAVE_E	0x20311201	File Save Error
RR	0,120011201	
SKDV_STS_FILE_LOAD_E	0x20311211	File Load Error
RR SKDV STS FILE FORMAT	0x20311231	File Format Error
SKDV_STS_FILE_FORMAT	UX2U311231	File Format Error
ERR		
SKDV_STS_DV_IMAGE_ER	0x20311301	Failure image data Transfer (from OMR device)
R	000044044	No Image
SKDV_STS_NO_IMAGE SKDV_STS_OVER_LENGT	0x20311311 0x20311312	No Image Image data Overloaded
H	0,20311312	mage data overloaded
IMAGE		
SKDV_STS_DIFF_IMAGE_	0x20311313	Image Width Different
WIDTH SKDV_STS_DIFF_IMAGE_	0x20311314	Image Height different
HEIGHT	0.20311314	image rieight different
SKDV_STS_IMAGE_	0x20311315	Image Length Error
LENGTH_ERR	0.00011010	
SKDV_STS_IMAGE_ ELONGATION_ERR	0x20311316	Image Elongation Error
SKDV_STS_RECVED_NAK	0x20312101	NAKreceived (Command Error)
	0,120012101	,
CMD		
SKDV_STS_RECVED_NAK	0x20312102	NAKreceived (Parameter Error)
PRM		
SKDV_STS_RECVED_NAK	0x20312103	NAKreceived (Non Support)
-		
NON SKDV_STS_RECVED_NAK	0x20312104	NAKreceived (LCD panel operation)
SKDV_STS_RECVED_NAK	UX2U3121U4	NARTeceived (LCD parier operation)
_ OPE		
SKDV_STS_RECVED_NAK	0x20312105	NAKreceived (Under Operation)
POINC		
DOING SKDV STS RECVED NAK	0x2031210F	NAKreceived (Unknown)
	0,120012101	,
UNKNOWN		
SKDV_STS_RECV_ACK_ TIMEOUT	0x20312200	Timeout (ACKreceived)
SKDV STS RECV RES	0x20312201	Timeout (Response received)
TIMEOUT	0,120012201	
SKDV_STS_DIFF_ACK_CM	0x20312210	CMD code of ACK is Different
D SKDV STS DIEE DES CM	0x20312211	CMD code of response is Different
SKDV_STS_DIFF_RES_CM D	UX2U312211	CiviD code of response is different
SKDV_STS_SHORT_	0x20312220	The length of response is short
RESPONSE_ERR	-	
SKDV_STS_LONG_	0x20312221	The length of response is long
RESPONSE_ERR		
SKDV_STS_RESPONSE_	0x20312222	Incorrect response format
FORMAT_ERR		
SKDV_STS_DIFF_PRM	0x20312223	Different Parameter
SKDV_STS_CALIB	0x20313000	Calibration Error

Constant	Value	Description
SKDV_STS_CALIB_CHK_	0x20313010	Different the data when LED off (Front)
BG_EVEN_BL_F_ERR		
SKDV_STS_CALIB_CHK_	0x20313011	Different the data when LED off (Back)
BG_EVEN_BL_B_ERR		
SKDV_STS_CALIB_CHK_	0x20313012	Different the data when LED On (Front)
BG_EVEN_WH_F_ERR		
SKDV_STS_CALIB_CHK_	0x20313013	Different the data when LED On (Back)
BG_EVEN_WH_B_ERR		
SKDV_STS_CALIB_CHK_	0x20313014	Gap is big between LED ON / OFF (Front)
BG_DIFF_F_ERR		
SKDV_STS_CALIB_CHK_	0x20313015	Different Parameter
BG_DIFF_B_ERR		
SKDV_STS_CALIB_CIS_B	0x20313020	Calibration Error
S_BLACK_EVEN_F_ERR		
SKDV_STS_CALIB_CIS_B	0x20313021	Different the data when LED off (Front)
S_BLACK_EVEN_B_ERR		
SKDV_STS_CALIB_CIS_B	0x20313022	Different the data when LED off (Back)
S_WHITE_EVEN_F_ERR		DW 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SKDV_STS_CALIB_CIS_B	0x20313023	Different the data when LED On (Front)
S_WHITE_EVEN_B_ERR	0.0001055	Different the data when LED On (Bask)
SKDV_STS_CALIB_CIS_B	0x20313024	Different the data when LED On (Back)
S_RED_EVEN_F_ERR		Con in him hoters on LED ON LOFE (Front)
SKDV_STS_CALIB_CIS_B	0x20313025	Gap is big between LED ON / OFF (Front)
S_RED_EVEN_B_ERR	0.00040000	Different Parameter
SKDV_STS_CALIB_CIS_B	0x20313026	Dilletent Farameter
S_GREEN_EVEN_F_ERR	0,20212027	Calibration Error
SKDV_STS_CALIB_CIS_B S_GREEN_EVEN_B_ERR	0x20313027	Calibration Error
SKDV STS CALIB CIS B	0x20313028	Different the data when LED off (Front)
S BLUE EVEN F ERR	0,20010020	
SKDV_STS_CALIB_CIS_B	0x20313029	Different the data when LED off (Back)
S_BLUE_EVEN_B_ERR	3/20010020	(-3.0.9)
SKDV STS CALIB CIS B	0x20313030	Different the data when LED On (Front)
S_BLACK_UPPER_F_ERR	330000	
SKDV_STS_CALIB_CIS_B	0x20313031	Different the data when LED On (Back)
S_BLACK_UPPER_B_ERR		
SKDV_STS_CALIB_CIS_B	0x20313032	White Level calibration Range (Front)
S_WHITE_RANGE_F_ERR		
SKDV_STS_CALIB_CIS_B	0x20313033	White Level Calibration Range (Back)
S_WHITE_RANGE_B_ERR		
SKDV_STS_CALIB_CIS_B	0x20313034	Red Level calibration Range (Front)
S_RED_RANGE_F_ERR		
SKDV_STS_CALIB_CIS_B	0x20313035	Red Level calibration Range (Back)
S_RED_RANGE_B_ERR		
SKDV_STS_CALIB_CIS_B	0x20313036	Green Level calibration Range (Front)
S_GREEN_RANGE_F_ER		
R		
SKDV_STS_CALIB_CIS_B	0x20313037	Green Level calibration Range (Back)
S_GREEN_RANGE_B_ER		
R		
SKDV_STS_CALIB_CIS_B	0x20313038	Blue Level calibration Range (Front)
S_BLUE_RANGE_F_ERR		ODATION 22

Constant	Value	Description
SKDV_STS_CALIB_CIS_B	0x20313039	Blue Level calibration Range (Back)
S_BLUE_RANGE_B_ERR		
SKDV_STS_CALIB_CHK_	0x20313040	Platen detects too White (Front)
PL_UPPER_F_ERR		
SKDV_STS_CALIB_CHK_	0x20313041	Platen detects too White (Back)
PL_UPPER_B_ERR		
SKDV_STS_CALIB_LS_	0x20313101	Left SkewLevel High
UPPER_LEVEL_ERR		
SKDV_STS_CALIB_LS_	0x20313102	Left Skew Level Low
UNDER_LEVEL_ERR		
SKDV_STS_USER_CANC	0x2031f001	User Cancel
EL		
SKIO_STS_SUCCESS	0x00000000	Normal.
SKIO_STS_EXECUTE_ER	0x20210001	WindowAPI Execution error.
R		
SKIO_STS_NONE_DEVIC	0x20210002	No suitable Device.
Е		
SKIO_STS_HANDLE_ERR	0x20210003	Handle error.
SKIO_STS_PARAM_ERR	0x20210004	Parameter error
SKIO_STS_MEM_ALLOC_	0x20210005	Fail to secure memory
ERR		
SKIO_STS_CREATE_	0x20210006	Fail to make event
EVENT_ERR		
SKIO_STS_USED_DEVIC	0x2021000e	Object Device is under use
Е		
SKIO_STS_WAIT_TIMEOU	0x2021000f	Time out
Т		

o[Status code of Device]

Only toward Status code information. (ST1/ST2), Constant is defined. Description code is not defined. Please use by masking bit.

Constant	Value	Description
SKDV_STS_DEVICE_STA_MA	0xffffff80	Status Mask from OMR device
SK		
SKDV_STS_DEVICE_ST_	0x20020880	"A1" Memory Error 1 (Internal Memory Error)
A1		
SKDV_STS_DEVICE_ST_	0x20020900	"A2" Memory Error 2 (Internal Memory Error)
A2		
SKDV_STS_DEVICE_ST_	0x20020980	"A3" Hopper Drive Error
A3		
SKDV_STS_DEVICE_ST_	0x20020A00	"A4" Download Error (Main Unit)
A4		
SKDV_STS_DEVICE_ST_	0x20020A80	"A5" Sensor Type Error
A5		
SKDV_STS_DEVICE_ST_	0x20020B00	"A6" Option Error
A6		
SKDV_STS_DEVICE_ST_	0x20020C00	"A8" Power Supply Error
A8		
SKDV_STS_DEVICE_ST_	0x20021080	"B1" Communication Error
B1		

Constant	Value	Description
SKDV_STS_DEVICE_ST_	0x20021100	"B2" Internal COM Error (No response Read
B2		Sensor)
SKDV_STS_DEVICE_ST_	0x20021180	"B3" Memory Error (in Read Sensor)
B3		
SKDV_STS_DEVICE_ST_	0x20021200	"B4" Adjust Value Error (Read Sensor)
B4		
SKDV_STS_DEVICE_ST_	0x20021280	"B5" Download Error (Read Sensor)
B5		
SKDV_STS_DEVICE_ST_	0x20021300	"B6" Internal Error (Read Sensor)
B6		
SKDV_STS_DEVICE_ST_	0x20021380	"B7" Version Error(Read Sensor)
B7		"C1" Communication Error (Barcode Unit)
SKDV_STS_DEVICE_ST_	0x20021880	C1 Communication Error (Barcode Onit)
C1	000004000	"C2" Internal COM Error (Barcode Unit)
SKDV_STS_DEVICE_ST_ C2	0x20021900	G2 Internal COW Entri (Barcode Offic)
SKDV_STS_DEVICE_ST_	0x20021980	"C3" Memory Error (Barcode Unit)
C3	0x20021960	Co Momory Error (Barocae errit)
SKDV_STS_DEVICE_ST_	0x20021A00	"C4" Sensor Error (Barcode Unit)
C4	0,20021,400	
SKDV_STS_DEVICE_ST_	0x20021A80	"C5" Download Error (Barcode Unit)
C5	0,200217,00	, ,
SKDV_STS_DEVICE_ST_	0x20021B00	"C6" Internal Error (Barcode Unit)
C6		
SKDV_STS_DEVICE_ST_	0x20021B80	"C7" Version Error (Barcode Unit)
C7		
SKDV_STS_DEVICE_ST_	0x20022080	"D1" Communication Error(Printer Unit)
D1		
SKDV_STS_DEVICE_ST_	0x20022100	"D2" Internal COM Error (Printer Unit)
D2		
SKDV_STS_DEVICE_ST_	0x20022180	"D3" Memory Error (Printer Unit)
D3		
SKDV_STS_DEVICE_ST_	0x20022200	"D4" Download Error (Printer Unit)
D4		
SKDV_STS_DEVICE_ST_	0x20022280	"D5" Internal Error (Printer Unit)
D5	0200000000	"D6" Version Error (Printer Unit)
SKDV_STS_DEVICE_ST_	0x20022300	Po version Entry (Filliter Offic)
D6	0,420,022,022	"E1" Communication Error (Stacker Unit)
SKDV_STS_DEVICE_ST_	0x20022880	Li Communication End (Stacker Offic)
E1	0v20022000	"E2" Internal COM Error (Stacker Unit)
SKDV_STS_DEVICE_ST_ E2	0x20022900	mona com Enor (stacker offic)
SKDV_STS_DEVICE_ST_	0x20022980	"E3" Memory Error (Stacker Unit)
E3	0,20022900	
SKDV_STS_DEVICE_ST_	0x20022A00	"E4" Download Error (Stacker Unit)
E4	UNE UNE EN E	
SKDV_STS_DEVICE_ST_	0x20022A80	"E5" Internal Error (Stacker Unit)
E5		
SKDV_STS_DEVICE_ST_	0x20022B00	"E6" Version Error (Stacker Unit)
E6		
	1	1

Constant	Value	Description	
SKDV_STS_DEVICE_ST_	0x20022B80	"E7" Drive Error (Stacker)	
E7			
SKDV_STS_DEVICE_ST_J	0x20025080	"J1" Download Error (Image Sensor Unit)	
1			
SKDV_STS_DEVICE_ST_J	0x20025100	"J2" Internal COM Error 1 (Image Sensor Unit)	
2	0.00005400	"J3" Internal COM Error 1 (Image Sensor Unit)	
SKDV_STS_DEVICE_ST_J 3	0x20025180	33 Internal Colvi Entir 1 (Image Sensor Offic)	
SKDV_STS_DEVICE_ST_J	0x20025200	"J4" Memory Error 1 (Image Sensor Unit / Flash	
4	0,20023200	Rom Read Error)	
SKDV_STS_DEVICE_ST_J	0x20025280	"J5" Memory Error 2 (Image Sensor Unit / Flash	
5		Rom Load Error)	
SKDV_STS_DEVICE_ST_J	0x20025300	"J6" Memory Error 3 (Image Sensor Unit /	
6		E2PROM Read Error)	
SKDV_STS_DEVICE_ST_J	0x20025380	"J7" Memory Error 4 (Image Sensor Unit /	
7		E2PROM Load Error)	
SKDV_STS_DEVICE_ST_J	0x20025400	"J8" IC Error (Image Sensor Unit)	
8		"IO" CIC Free /Image Concer I hit	
SKDV_STS_DEVICE_ST_J	0x20025480	"J9" CIS Error (Image Sensor Unit)	
9	00005000	"K1" FPGA Error (Image Sensor Unit)	
SKDV_STS_DEVICE_ST_ K1	0x20025880	KT FFGA Entit (image Sensor Offic)	
SKDV_STS_DEVICE_ST_	0x20025900	"K2" Power Supply Error (Image Sensor Unit)	
K2	0,20025500	The second company and considering	
SKDV_STS_DEVICE_ST_	0x20025980	"K3" Version Error (Image Sensor Unit)	
K3	0		
SKDV STS DEVICE ST	0x20023280	"F5"Command error	
F5			
SKDV_STS_DEVICE_ST_	0x20023300	"F6"Parameter Error	
F6			
SKDV_STS_DEVICE_ST_	0x20023380	"F7"Protocol Error	
F7		10410	
SKDV_STS_DEVICE_ST_	0x20023880	"G1" Cover Open	
G1	0x20023900	"G2" Stacker Unit Cover Open	
SKDV_STS_DEVICE_ST_ G2	0x20023900	OZ Oldokol Olik Govel Open	
SKDV_STS_DEVICE_ST_	0x20024080	"H1" No Feed	
H1	0,20024000		
SKDV STS DEVICE ST	0x20024100	"H2" Jam at Paper Feeding Detection Sensor	
H2			
SKDV_STS_DEVICE_ST_	0x20024180	"H3" Jam at Reading Start Detection Sensor	
H3			
SKDV_STS_DEVICE_ST_	0x20024200	"H4" Jam at Main Body Paper Discharge Detection	
H4		Sensor	
SKDV_STS_DEVICE_ST_	0x20024280	"H5" Main Body Sheet Interval Error	
H5		IIIAII Jana et Brinting Chart Batasti	
SKDV_STS_DEVICE_ST_I	0x20024880	"I1" Jam at Printing Start Detection Sensor	
1 CKDV STS DEVICE ST I	0v20024000	"I2" Jam at Main Paper Discharge Sensor	
SKDV_STS_DEVICE_ST_I	0x20024900	12 Sam at Main Laper Discharge Sensor	
2			

Constant	Value	Description
SKDV_STS_DEVICE_ST_I	0x20024980	"I3" Jam at Selected (Reject) Paper Discharge
3		Sensor
SKDV_STS_DEVICE_ST_I	0x20024A00	"I4" Jam at Upper Conveyance Path (Stacker)
4		
SKDV_STS_DEVICE_ST_I	0x20024A80	"I5" Jam at Lower Conveyance Path (Stacker)
5		
SKDV_STS_DEVICE_ST_I	0x20024B00	"I6" Stacker Sheet Interval Error
6		
SKDV_STS_DEVICE_ST_	0x20028080	"P1" Back Surface Reading Unit Unconnected
P1		"P2" Barcode Unit Unconnected
SKDV_STS_DEVICE_ST_	0x20028100	P2 Barcode Offit Officonfrected
P2	000000400	"P3" Printer Unit Unconnected
SKDV_STS_DEVICE_ST_ P3	0x20028180	13 Timer Officonnected
SKDV_STS_DEVICE_ST_	0x20028200	"P4" Select Stacker Unit Unconnected
P4	0x20026200	The coloci classical child children models
SKDV STS DEVICE ST	0x20028280	"P5" Image Sensor Unit Unconnected
P5	0,20020200	
SKDV_STS_DEVICE_ST_	0x20028880	"Q1" Sheet Empty
Q1	0,20020000	
SKDV_STS_DEVICE_ST_	0x20028900	"Q2" Double Feed Error
Q2		
SKDV_STS_DEVICE_ST_	0x20028980	"Q3" Left End Skew Error
Q3		
SKDV_STS_DEVICE_ST_	0x20028A00	"Q4" Mark Skew Error
Q4		
SKDV_STS_DEVICE_ST_	0x20029080	"R1" Hopper Stops
R1		
SKDV_STS_DEVICE_ST_	0x20029100	"R2" Drowing Out Error
R2		
SKDV_STS_DEVICE_ST_	0x20029180	"R3" Timeout
R3		IID All Timing Mode Fares
SKDV_STS_DEVICE_ST_	0x20029200	"R4" Timing Mark Error
R4	02002020	"R5" Setting Error
SKDV_STS_DEVICE_ST_	0x20029280	1.0 Getting Entri
R5 SKDV_STS_DEVICE_ST_	0x20029300	"R6" Memory Overflow
R6	0750053300	
SKDV STS DEVICE ST	0x20029380	"R7" USB Connection Error
R7	3,2002000	SSE SSINISSION ENGINE
SKDV_STS_DEVICE_ST_	0x20029400	"R8"Sheet size setting Error
R8		
SKDV_STS_DEVICE_ST_	0x20029480	"R9"Sheet layout Error
R9		
SKDV_STS_DEVICE_ST_	0x20029900	"S2" Black Level Error
S2		
SKDV_STS_DEVICE_ST_	0x20029980	"S3" Read Sensor Stain Error
S3		
SKDV_STS_DEVICE_ST_	0x2002A080	"T1" Form Left In Hopper
T1		

Constant	Value	Description		
SKDV_STS_DEVICE_ST_ T2	0x2002A100	"T2" Form Left in Reading Sensor		
SKDV_STS_DEVICE_ST_ T3	0x2002A180	"T3" Form Left in End of Main Body		
SKDV_STS_DEVICE_ST_ T4	0x2002A200	"T4" Form Left in Printer Printing Detection Sensor		
SKDV_STS_DEVICE_ST_ T5	0x2002A280	"T5" Form Left in Main paper Discharge Sensor		
SKDV_STS_DEVICE_ST_ T6	0x2002A300	"T6" Form Left in Selected (Reject) Paper Discharge Sensor		
SKDV_STS_DEVICE_ST_ Z1	0x2002D080	"Z1" Density Adjust Skew Error		
SKDV_STS_DEVICE_ST_ Z2	0x2002D100	"Z2" Density Adjust Sheet Error		
SKDV_STS_DEVICE_ST_ Z3	0x2002D180	"Z3" Dirt Density Adjust Sheet		
SKDV_STS_DEVICE_ST_ Z4	0x2002D200	"Z4" Density Adjust Error		
SKDV_STS_DEVICE_ST_ Z5	0x2002D280	"Z5" RDPS Adjust Error		
SKDV_STS_DEVICE_ST_ Z6	0x2002D300	"Z6" Skew Sensor Adjust Error		
SKDV_STS_DEVICE_ST_ Z7	0x2002D380	"Z7" DF sensor Adjust Error		

5.4. Structures

5.4.1. SK_DV_MODULE_INFO

Structure	Module infomation			
	typedef struct tag_SK_DV_MODULE_INFO			
Syntax	57.511	szModel [SKDV_INFO_MODEL_LEN]; szVersion [SKDV_INFO_VER_LEN]; _INFO;		
Member	szModel	Character name strings of Library		
Member	szVersion	Version information of Library		
Description	Fold Library information			

5.4.2. SK_DEVICE_INFO

Structure	Basic Device infomation.			
	typedef struct tag	tag_SK_DEVICE_INFO		
	{			
	char sz	zGuid [SKDV_GUID_LEN+1];		
	char sz	zProduct [SKDV_PRODUCT_STR_MAX+1];		
Syntax	char sz	zSerialNo [SKDV_SERIAL_LEN+1];		
Symax	char sz	zFirmVer[SKDV_FIRM_VER_STR_MAX+1];		
	char sz	zFirmSum [SKDV_FIRM_SUM_STR_MAX+1];		
	char sz	zHardVer [SKDV_HARD_VER_STR_MAX+1];		
	DWORD dw	wOption;		
	}SK_DEVICE_INFO;);		
	szGuid Original ID characters			
	szProduct	Characters of product's name		
	szSerialNo	Characters of Serial number		
Member	szFirmVer	Characters of firmware version		
	szFirmSum Characters of firmware checksum			
	szHardVer	Character of hardware version		
	dwOption	Refer to description "5.4.3.SK_DV_SR3500_INFO"		
	Fold Device infomation.			
Description	Used as member of Device information.			
	Member except "dwOp	wOption" turn to be NULL of . edge		

5.4.3. SK_DV_SR3500_INFO, SK_DV_DEVICE_INFO

Structure	Device infomation			
	typedef struct tag	g_SK_DV_SR350	0_INFO	
	SK_DEVICE	_INFO	Main;	
	SK_DEVICE	_INFO	Reader[SKDV_FACE_NUM];	
Cuntay	SK_DEVICE	_INFO	Bcr;	
Syntax	SK_DEVICE	_INFO	Printer;	
	SK_DEVICE	_INFO	Stacker;	
	SK_DEVICE	_INFO	Image1;	
	SK_DEVICE	_INFO	Image2;	
	}SK_DV_SR3500_INFO	O , SK_DV_DEVICE_INFO;		
	Main	Main body info	rmation	
	Reader	Reading unit in	formation	
	Bcr	Bar code reade	er unit information.(Option)	
	Printer Printer unit information.(Option)		ormation.(Option)	
Member	Stacker	Select Stacker unit information.(Option)		
	Image1 Image reading unit information.1		unit information.1	
		(only for OMR with image reading function)		
	Image2 Image reading unit information.2			
		(only for OMR	with image reading function)	

Fold various infomation of OMR. Folded Items are different depend on connected products and option. Fold members per products is the following. (✓: foldable / x:non-foldable) Non-connected optional units are non-foldable. SR-3500/6000/6500 SR-3500/6500 HYBRID SR-1800 dwOption szGuid zFirmVer szFirmSum szGuid lwOption zProduct zFirmVer zHardVer zProduct zSerialNo zHardVer zFirmSum zSerialNo Member Main 1 1 1 1 1 Reader[0] / 2 × × × × × 1 × 1 Reader[1] 3 / / × × × × × / × Bcr 4 × × × × × × × × × × 5 Printer × × × × × × × × × Description Stacker 6 1 × × × × × × × × × × Image1 7 / × × × Image2 8 1 × × × × × × × × × × × × SR-11000 SR-8000 HYBRID szGuid szProduct szSerialNo szFirmSum szProduct szSerialNo szFirmVer szFirmSum szHardVer szHardVer zFirmVer wOption Member Main / 1 1 1 1 Reader[0] / / 2 × × × Reader[1] 3 × × × Bcr 4 / × Printer 5 × × × × × × × Stacker 6 × × Image1 7 × × × × 8 Image2 × × × × ×

Each	member's	dwOption	have	followings	meaning
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Constant	Value	Description
SKDV_OPT_UNIT_MASK	0xffff0000	Unit bit mask
SKDV_OPT_UNIT_READER_	0x80000000	Front reading unit – available
F		
SKDV_OPT_UNIT_READER_	0x40000000	Back reading unit - available
В		
SKDV_OPT_UNIT_BCR	0x20000000	Bar code reader unit - available
SKDV_OPT_UNIT_PRINTER	0x10000000	Printer unit - available
SKDV_OPT_UNIT_STACKER	0x0800000	Select Stacker unit - available
SKDV_OPT_UNIT_IMAGE_1	0x04000000	Image reading unit 1 - available
SKDV_OPT_UNIT_IMAGE_2	0x02000000	Image reading unit 2 - available

$\circ \textbf{Reader}$

Constant	Value	Description
SKDV_OPT_SENSOR_TYPE_MASK	0x0000ff00	Bit mask per sensor v
		ariation
SKDV_OPT_SENSOR_TYPE_ERR	0x0000ff00	Error per sensor variat
		ion
SKDV_OPT_SENSOR_TYPE_RED_VIS	0x00000000	Visible light
SKDV_OPT_SENSOR_TYPE_INFRARED	0x00000100	Infrared light
SKDV_OPT_SENSOR_PITCH_MASK	0x000000ff	Bit mask of Sensor pit
		ch
SKDV_OPT_SENSOR_PITCH_ERR	0x000000ff	Error of Sensor pitch
SKDV_OPT_SENSOR_PITCH_1P6INCH	0x0000001	1/6 inch
SKDV_OPT_SENSOR_PITCH_02INCH	0x00000002	0.2 inch
SKDV_OPT_SENSOR_PITCH_02INCH_S	0x0000003	0.2inch S
SKDV_OPT_SENSOR_PITCH_025INCH	0x00000004	0.25 inch
SKDV_OPT_SENSOR_PITCH_03INCH	0x0000005	0.3 inch
SKDV_OPT_SENSOR_PITCH_03INCH_F	0x00000006	0.3 inch F
SKDV_OPT_SENSOR_PITCH_6MM	0x00000007	6mm
SKDV_OPT_SENSOR_PITCH_02INCH_K	0x00000008	0.2 inch K
SKDV_OPT_SENSOR_PITCH_02INCH_SP	0x00000009	0.2 inch special
SKDV_OPT_SENSOR_PITCH_02INCH_C	0x0000000a	0.2 inch C

Description

∘Bcr

Constant	Value	Description
SKDV_OPT_BARCODE_MASK	0x000000ff	Bit mask of Bar code reader
SKDV_OPT_BARCODE_ERR	0x000000ff	Bar code reader non-connect
		ed
SKDV_OPT_BARCODE_V	0x00000001	Vertical feeding
SKDV_OPT_BARCODE_H	0x00000002	Horizontal feeding
SKDV_OPT_BARCODE_IMAGE	0x00000004	Barcode recognition from ima
		ge.

$\circ \textbf{Printer}$

Constant	Value	Description
SKDV_OPT_PRINTER_CARTRIDGE	0x80000000	INK Cartridge available

∘lmage1

Constant	Value	Description
SKDV_OPT_IMAGE_FACE_MASK	0xf0000000	Bit mask of Face
SKDV_OPT_IMAGE_FACE_FRONT	0x80000000	Front
SKDV_OPT_IMAGE_FACE_BACK	0x40000000	Back
SKDV_OPT_IMAGE_FACE_BOTH	0xc0000000	Front & Back

5.4.4. SK_DV_SR3500_MODE, SK_DV_DEVICE_MODE

Structure	Device mode					
	typedef struct tag_SK_DV_SR3500_MODE					
	{					
	int int	iFeed iFeed		Mode;		
	DWORD		sableWarning;			
	struct MarkS		_			
	int		iRow; iLevel:			
	int };		iLevei;			
Syntax	int iPanelOperation;					
	struct Buzzer{					
	int iVol; int iTone;					
	};					
	struct PSavir		:01			
	int iSleep; int iStandby;					
	};		rotaliday,			
	}SK_DV_SR3500_MODE , SK_DV_DEVICE_MODE;					
	iFeedMode	Not use(fix	as 0(ZERO))			
	iFeedTime	Not use(fix	as 0(ZERO))			
	dwDisableWarning	Set of Warr	ning Error.			
		Set per bit.	Refer setting v	alue at "Description".		
	MarkSkew	Set detection	n column of Ma	ark skew detection.		
		Setting range is 0 to 155. "0" to be invalid.				
	iRow	Detection levels of Mark skew. Setting range is 1 to 16.				
	iLevel	Switch valid/invalid of panel operation. Refer setting value at				
	"description".					
Member	iPanelOperation Set the volume and sound quality of Buzzer.					
Member	Buzzer The volume of Buzzer. Setting range is 0 to 5. "0" to be bu					
	zzer OFF.					
	iVol	The sound volume of Buzzer. Setting range is 1 to 5.				
	iTone	The sound tone of Buzzer Setting range is 1 to 3				
	PSaving	Sleep timer. Switching time to turn Normal mode into Sleep				
		mode. Setting range is 0 to 60 minutes. "0" to be invalid.				
	iSleep	Sleep timer. Switching time to turn Sleep mode into Sta				
		y mode.set range is 0-60. 0 is to be invalid.				
	iStandby	Stand-by timer. Switching time to turn Sleep mode into Stan				
		d-by mode.	Set range is 0	-60 0 is to be invalid.		
	Fold various Operation	mode of De	evice.			
	Use on Getting/Setting Function of Operation mode "SkDv_GetMode/ SkDv_SetMode					
	"					
	odwDisableWarning					
	Constar		Value	Description		
	SKDV_WARN_AUT		0x00010000	Auto Reject- Valid		
	SKDV_WARN_HOPPER_EMPT		0x00020000	Detect Sheet empty- Valid		
Description	SKDV_WARN_TM_ERROR		0x00040000	Detect Mark error- Valid		
	SKDV_WARN_DF_ERROR		0x00080000	Detect Double feed- Valid		
	SKDV_WARN_LEFT_SKEW		0x00100000	Detect Left skew- Valid		
	Detect Felt 2vem- Agild					
	∘iPanelOperation					
	Constant		Value	Description		
	SKDV_DISABLE		0	Disable LCD panel operation		
	SKDV_ENABLE		1	Enable LCD panel operation		
	II			1 - 1 - 1 - 1 - 1		

5.4.5. SK_DV_SR3500MARK_CONF, SK_DV_MARK_CONF

Structure	Mark condition					
	typedef struct tag_SK_DV_SR3500MARK_CONF					
Syntax	{	iBackSideReading; iColumns; iReadingMethod; iCtrlMultiple; iThicknessType; K_CONF, SK_DV_MARK_CONF;				
			d of Back side reading. Refer to Setting val			
		ue at "Description		· · ·		
	iColumns	olumns Column to Read.		Setting range is 1 to 48.		
				model, 0 can be set. In that case, mark re		
	iReadingMethod			Refer to Setting value at "Description".		
Member	iCtrlMultiple	,		n case Reading method is "Front edg		
		·		rolling type". Setting range is as following.		
		"Front edge contr	olling t	olling type" : 1 to 9		
		"Rear edge contro	olling t	olling type": 2 to 9		
	iThicknessType	Thickness of She	et. Juc	et. Judge standard when to detect Double		
		feed error.				
	Fold Mark Reading co	ndition.				
	○iBackSideReading					
	Constant		Value	Description		
	SKDV_DISABLE SKDV_ENABLE		0	Disable – Back side		
			ı	Enable – Back side		
	∘iReadingMethod	tont	Value	Description		
	Constant SKDV_READ_FRONT_EDGE		1	Front edge controlling type		
	SKDV_READ_REAR_EDGE		2	Rear edge controlling type		
	SKDV_READ_DIRECT		3	Read Direct type		
	SKDV_READ_FACOM		4	Read FACOM type		
	SKDV_READ_BETWEEN_MARK_NS		5	Read between Mark type		
Description				(Front edge blank reading – Unav		
	SKDV_READ_BETWEEN_MARK			ailable)		
			6	Read between Mark type		
				(Front edge blank reading – Avail		
				able)		
	oiThicknessType					
	Constant		Value	Description		
	SKDV_THICKNESS		0	Automatic detection		
	SKDV_THICKNESS_55_KG		2	64g/m ² (55kg)		
		SKDV_THICKNESS_72_KG		84g/m ² (72kg)		
		SKDV_THICKNESS_90_KG		105g/m ² (90kg)		
	SKDV_THICKNESS_110_KG		4	128g/m² (110kg)		
	SKDV_THICKNESS_135_KG		5	157g/m² (135kg)		

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5.4.6. SK_DV_SR3500IMG_CONF, SK_DV_IMAGE_CONF

Structure	Image condition					
	typedef struct tag_SK_DV_SR3500IMG_CONF					
Syntax	int iScanningSide; int iScanCtrlType; int iFormLengthMin; int iFormLengthMax; int iLightColor[SKDV_FACE_NUM]; int iResoType; int iResoTypeY;					
	}SK_DV_SR3500IMG_CONF, SK_DV_IMAGE_CONF;					
	10 O. IT		g side. Refer to Setting value at "Description".			
	iScanCtrlType Non-usage		1			
	iFormLengthMin Non-usage		1			
	•	iFormLengthMax Non-usage				
	iLightColor[0] Set Front		side light color. Refer to Setting value at"Descripti			
Member		on".	n".			
	iLightColor[1] set Back s Color[0].		side light color. Setting value is as same as iLight			
	iResoType Set Optica		I resolution.			
	Not able to		able to set up per Front or Back side.			
	iResoTypeY Non-usage					
	Fold Image condition.					
	SR-3500 HYBRID 系で使用可能。SR-8000 HYBRID 系でも制約はあるが使用可能。					
	For SR-3500HYBRID series. Available with condition for SR-8000HYBRID.					
	oiScanningSide					
	Constant		Value	Description		
	SKDV_SIDE_NONE		0	Non-reading image		
	SKDV_SIDE_BOTH		1	Double side		
	SKDV_SIDE_FROM		2	Front side only		
	SKDV_SIDE_BACK		3	Back side only		
	∘iLightColor					
	Light color is not able to set Front or Back side sepatrately. In case of setting eith					
Description	er side "Color", it is needed to set another sides "Color" as same.					
Booonplion	Constan		Value	Description		
	SKDV_LIGHT_COLOR		0	Color (3 colors)		
	SKDV_LIGHT_GRAYSCALE		1	Gray scale (single color)		
	SKDV_LIGHT_RED		2	Red (single color)		
	SKDV_LIGHT_GREEN		3	Green (single color)		
	SKDV_LIGHT_BLUE		4	Blue (single color)		
	oiResoType					
	Constan		Value	Description		
	SKDV_RESO_TYPE_300DPI		1	300dpi		
	SKDV_RESO_TYPE_200DPI		2	200dpi		
	SKDV_RESO_TYPE_150DPI		3	150dpi		
	SKDV_RESO_TYPE_100DPI		4	100dpi		

5.4.7. SK_DV_IMAGE_CONF_EX

Structure	Image extra condition					
3.1.2.2.4.10	typedef struct tag_SK_DV_IMAGE_CONF_EX					
	{					
	int	iSize	э;			
	struct tagFace{ int		iEnab	le:		
	int		iColorType;			
Syntax	int		iEncoder;			
	int		iParar	•		
	int int		iRotate; iResoMode;			
	int iResolution;					
	}Face[SKDV_FACE_NUM];					
	}SK_DV_IMAGE_CONF_EX					
			size of structure			
			for front and			
	iEnable		le(SKDV_EN	IABLE) or Disable(SKDV_DISABLE)		
			e reading			
	iColorType			Refer to Setting value at "Description".		
Member	iEncoder		on-usage.			
				reading. JPEG in continuous reading.		
	iParam	Speci	pecify quality in image compression			
	iRotate Set in		t image rotation			
	iResoMode Set re		resolution of image reading			
	iResolution Set re		resolution of image sending (100-600dpi)			
	Fold image condition					
	Only for SR-8000HYBRID					
	∘iEnable					
	Constant		Value	Description		
	SKDV_DISABLE		0	Disable image reading		
	SKDV_ENABLE		1	Enable image reading		
	oiColorType					
	Constant		Value	Description		
	SKDV_LIGHT_COLOR		0	Color (3-colors)		
	SKDV_LIGHT_GRAYSCALE		1	Grayscale (monochrome)		
	SKDV_LIGHT_RED		2	Red (plain color)		
	SKDV_LIGHT_GREEN		3	Green (plain color)		
Description	SKDV_LIGHT_BLUE		4	Blue (plain color)		
	oiEncoder			Bide (plain edier)		
	Non-usage. Only BMP in one page reading, and only JPEG in continuous reading					
	Constant		Value	Description Description		
	SKIM_ENCODE_BMP		0	BMP data (no-compressed)		
			2			
	SKIM_ENCODE_JPEG			JPEG data		
	oiResoMode					
	Reading speed and barcode recognition varies depending on the setting					
	Constant		Value	Description		
	SKDV_RESO_MODE_600DPI		0	600dpi		
	SKDV_RESO_MODE_300DPI		1	300dpi		

5.4.8. SK_DV_SR3500_STATUS_CHAR, SK_DV_DEVICE_STATUS_CHAR

Structure	Device status code				
	<pre>typedef struct tag_SK_I {</pre>	DV_SR3500_STATUS_CHAR			
	char ST	[1[SKDV_ST_LEN];			
Syntax	char ST	T2[SKDV_ST_LEN];			
	char DI	F1;			
	char DI	char DIF2;			
	}SK_DV_SR3500_STATUS_CHAR , SK_DV_DEVICE_STATUS_CHAR;				
	ST1	Status information. Front side			
Member	ST2	Status information. Back side			
Member	DIF1	Error description information. Front side			
	DIF2	Error description information. Back side			
Description	Fold Status information of Device.				
Description	Refer to "Command reference" in description.				

5.4.9. SK_DV_MARK_INFO

Structure	Mark data infomation.			
Syntax	typedef struct tag_SK_DV_MARK_INFO { int iType; int iRows; int iColumns; }SK_DV_MARK_INFO;			
	iТуре	Non-use		
Member	iRows Number of rows read			
	iColumns Number of columns read			
Description	Fold read Mark data i	nformation.		

5.4.10. SK_DV_IMAGE_DATA_CONF

Structure	Image data condition	<u> </u>				
Structure		DV IMAGE	DATA CO	NF		
Syntax	int RECT int int int DWORD SK_DV_IMAGE_DATA	RECT rectCutout; int iColorType; int iRotate; int iResolution; DWORD dwOption;				
	iFace		or back sid	<u> </u>		
	rectCutout			tion by degrees of 0.1mm.		
				can be referred at "Description"		
			-	MFC library reference.		
			struct tagF	RECT {		
			NG left; NG top;			
		LON	NG right;			
Marshar		LON RECT	NG bottom;			
Member	iColorType			and White, Gray scale (8bit), Color (24bi		
	·			value at "Description"		
	iRotate	Rotation of	of Image. C	Chosen per 90 degrees.		
	iResolution	Optical res	solution. So	etting range is 50 to 300 dpi.		
				olution of actual reading resolution.		
				ting the resolution higher than actual reading r		
	dwOption	esolution, Image quality will be going down.				
	•	Non-usage				
	Fold Getting condition	or image of	iata			
	∘rectCutout					
		iFace=0)		Back(iFace=1)		
	/ Coo	rdinate origin		Coordinate origin		
	+-					
	She Front	=:		Sheet Back side		
Description	oiFace Constan	+	Value	Description		
	SKDV_FRONT		0	Front side		
	SKDV_BACK		1	Back side		
	∘iColorType					
	Constan	t	Value	Description		
	SKIM_IMAGE_WB SKIM_IMAGE_GRA	Δ ∨	0	Black and White		
	SKIM_IMAGE_COL		2	Gray scale (8bit)		
	∘iRotate		<u> -</u>	Color (24bit)		
	Constan	t	Value	Description		
	SKIM_IMAGE_RO		0	Non-Rotation		
	SKIM_IMAGE_RO		1	Clockwise – 90 degrees Rotation		
	SKIM_IMAGE_RO		2	Clockwise –180 degrees Rotation		
	SKIM_IMAGE_RO		3	Clockwise –270 degrees Rotation		
-	CENONIC	000		TION 3		

5.4.11. SK_DV_IMAGE_FILE_CONF

Structure	Image File Condition				
Syntax	typedef struct tag_SK_ {	iEncoder; iParam;	CONF		
	iEncoder		to setting valu	ue at "Description".	
Member	iParam	File form parame	ter. Able to b	e appointed by file form.	
Wellibei		In case of Non-u	sage file form	n, "0" is to be appointed.	
		Jpeg form: Set Ir	mage quality.	Setting range is 1 to 100.	
	Set file format when	saving readingned	Image data in	to file.	
	oiEncoder	stant	Value	Description	
	SKIM_ENCODE_B		0	Bit map format	
	SKIM_ENCODE_G	GIF	1	GIF format	
	SKIM_ENCODE_J	PEG	2	Jpeg format	
	SKIM_ENCODE_P	NG	3	PNG format	
Description	SKIM_ENCODE_T	TFF	4	Tiff format	
	∘[iParam] (iEncoder:SKIM_ENCODE_JPEG) Can be set 1 – 100. 1 = Low resolution, 100 = High Resolution				
		SKIM_ENCODE_TI		Description	
	SKIM_ENCODE_T		Value 2	Description LZW compressed	
	SKIM_ENCODE_T		6	Non Compressed	

5.4.12. SK_DV_IMG_ELGT_DETECT_CONF

Structure	Image elongation dete	-				
	typedef struct tag_SK_[ECT_COI	NF		
	{					
Syntax	bool	blEnabled;				
Symax	double	SheetLen;				
	int	Threshold;				
	}SK_DV_IMG_ELGT_D	ETECT_CONF;				
	blEnabled	Validity of image e				
Member	SheetLen	The length of the				
	Threshold	Threshold for detect	ting image	e elongation		
	It sets the information	necessary for detec	ting the	image elongation.		
	_	ngationDetection" als	so has ex	planations and notes, so be sure		
	to check it.					
	oblEnabled	etant	Value	Description		
	Constant SKIM ENCODE DETECT ENABLED		true	Image elongation detection is		
				enabled.		
	SKIM_ENCODE_D	ISABLE_DETECT	false	Image elongation detection is		
				disabled.		
Description	<u> </u>					
	∘SheetLen					
	In the range of 110 to	355.6 mm, set the	length o	f the sheet to be used in units o		
	f 0.1mm.					
	○Threshold					
	SKIM_ENCODE_IM	stant IG FLGT THR 10	Value 100	Description Set the image elongation		
				detection threshold to 10 mm.		
	SKIM_ENCODE_IN	MG_ELGT_THR_20	200	Set the image elongation det		
				ection threshold to 20 mm.		
	SKIM_ENCODE_IN	IG_ELGT_THR_30	300	Set the image elongation det		
				ection threshold to 30 mm.		

5.4.13. SK_LAYOUT_ID_PRM

Structure	Set Layout ID					
	typedef struct	tag_SK_LAYOUT_ID_PRM				
	{					
Syntox	UCHAR	ucldData[SKDV_LAYOUT_ID_PTN_LEN];				
Syntax	int	iTmCount[SKDV_FACE_NUM];				
	int	iBarcodeCount;				
	}SK_LAYOUT_ID_PRM;					
	ucldData	Set mark pattern of ID window				
Member	iTmCount	Set the number of timing marks both side.				
Member	iBarcodeCount Barcode not use=Fix as "0" Barcode use="1" or " 2"(QT					
		C), or"99" (to get the all barcodes)				
Description	Store the setting o	f layout ID for setting of ID data setting.				

5.4.14. SK WINDOW PRM

	/INDOW_PRIVI	
Structure	Window setting	
	typedef struct ta { int struct { in in in	t iNumber;
Syntax	}Col; struct { in in	t iStart;
	in }Row; int int struct {	
	in in }Level; }SK_WINDOW_PRM;	
	iFace	Set front / back side
	Col	Column
	iStart	Start column
	iNumber	Number of window
	iStep	Number of step
	Row	Row
	iStart	Start row
	iNumber	Number of window
Member	iStep	Number of step
	iDirection	direction
	iPartition	Partition
		This is not use in"SkDv_ReqSetLayoutManage"
		(Ignores to set)
	Level	Density
	iSensitivity	Detection sensitivity level
	iDifference	Differences the sensitivity level

	Window setting						
	oiDirection						
	Constant	Value	Description				
	SKDV_WIN_DIR_TL_DOWN	0	From the upper left to the bottom				
	SKDV_WIN_DIR_TR_DOWN	1	From the upper right to the botto				
			m				
	SKDV_WIN_DIR_BL_UP	2	From the lower left to a top				
	SKDV_WIN_DIR_BR_UP	3	From the lower right to a top				
	SKDV_WIN_DIR_TL_RIGHT	4	From the upper left to right				
	SKDV_WIN_DIR_TR_LEFT	5	From the upper right to the left				
	SKDV_WIN_DIR_BL_RIGHT	6	From the lower left to right				
Description	SKDV_WIN_DIR_BR_LEFT	7	From the lower right to the left				
	∘iPartition						
	Constant	Value	Description				
	SKDV_WIN_PART_OFF	0	Without partition				
	SKDV_WIN_PART_ON_START 0	1	With Partition (0 to start)				
	SKDV_WIN_PART_ON_START	2	With Partition (1 to start)				
	1		When operation processing of a r				
			ange checking etc. is performed,				
			a beginnings can be specified in				
			a start and the start from 1 from				
			0.				

5.4.15. SK_WINDOW_CHECK

Structure	Window check				
	typedef struct ta	tag_SK_WINDOW_CHECK			
	int iC struct	Option;			
Syntax	{ in in }MarkCount; }SK_WINDOW_CHEC	t iMax;			
	iOption Nor Mark permit				
Member	MarkCount Check the number of		marks		
	iMin	Minimum number of ma			
	iMax	Maximum number of of	marks		
	Structure that contains the check the number of marks. oiOption				
Description	Constant			Description	
Description	Constant Value Description SKDV_WIN_CHK_NOMARK_ERR_ENAB 0 No mark as an error LE				
	SKDV_WIN_CHK_NOMARK_ERR_DISAB 1 No mark is not an er				

5.4.16. SK_LAYOUT_OPTION

Structure	Set Layout option					
	typedef struct	tag_SK_L	.AYOUT_OF	PTION		
	{ int_	iType;				
	union {					
0 1	· ·	UCHAR	ucData[SKI	DV_LAY	OUT_OPT_LEN];	
Syntax		struct {				
			DWORD DWORD		dwMin; dwMax;	
	,	}Num;	DWOND		awwax,	
	}; }SK_LAYOUT_O	PTION;				
	iТуре	Optional fea	ature			
Member	ucData Num	Optional fea Range	itures param	eter		
	dwMin	Minimum				
	dwMax	Maximum				
	Structure that co	ontains the la	yout option.			
	∘iType					
	SKDV_LAYOUT_	_OPT_NONE/	SKDV_LAY	OUT_O	PT_ORDER_ID	
					_NONE/ SKDV_LAYOUT_OPT_MA	
	SK/ SKDV_LAYOUT_OPT_FIXED_COMP/ SKDV_LAYOUT_OPT_CHECK_DIGIT/ SK					
					_LAYOUT_OPT_RANGE_CHECK/ S	
	KDV_LAYOUT_0	Constant	ART are a	Vallable	Description	
	SKDV_LAYC	OUT_OPT_NO	NE	0x00	Invalid (default)	
	SKDV_LAYC	OUT_OPT_OR	DER_ID	0x01	The order check (at the time set	
	01/27/		014		the ID) of ID.	
	SKDV_LAYC	OUT_OPT_MA	SK	0x01	Mask (at the time set window) a	
Description	SKDV LAYC	OUT_OPT_FIX	(ED COM	0x02	bout a mark. Fixed mark	
	Р					
	T	OUT_OPT_CH		0x03	Checkdigits	
	SKDV_LAYC	OUT_OPT_AS	CENDING	0x04	Range checking (ascending orde	
	ORDER				rs)	
	SKDV_LAYC G_	OUT_OPT_DE	SCENDIN	0x05	Range checking (descending order)	
	ORDER	ODT DA		0.00	·	
	SKDV_LAYC CK	OUT_OPT_RA	NGE_CHE	0x06	Range checking (not order)	
	SKDV_LAYC	OUT_OPT_MA	SK_PART	0x07	Mask setting(common to partition)	
				<u> </u>	partition	
	∘ucData					
	SKDV I AVO	Constant	N.	Value	Description	
	SKDV_LAYC	OUT_OPT_LE	N	16	Option data length [byte]	

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5.4.17. SK_LAYOUT_MANAGE_CONF

Structure	ID management				
Syntax	typedef struct tag_SK_LAYOUT_MANAGE_CONF {				
	blEnableId	Layout ID sw	vitch		
Member	IdWindowPrm	ID window a	reas		
Wernber	dwNgAction	Judge NG op	perations		
	LayoutOpt	Option specif	ied		
	Structure that contains ID management information. odwNgAction Judge NG operations. Be used in combination.				
	Constar		Value	Description	
	SKDV_ACTION_SE	ELECT	0x00000001	Paper ejection to select stacke r.	
Description	SKDV_ACTION_S	ГОР	0x00000002	Stop reading.	
	SKDV_ACTION_NOPRINT		0x00000004	Do not print.	
	∘LayoutOpt.iType				
	Consta		Value	Description	
	SKDV_LAYOUT_O	PT_NONE	0	Invalid (default)	
	SKDV_LAYOUT_O	PT_ORDER_I	1	ID order checks	

5.4.18. SK_LAYOUT_ID_CONF

Structure	ID data				
Syntax	typedef struct tag_SK_LAYOUT_ID_CONF {				
Member	LayoutldPrm iReject LayoutOpt	Set the ID Force select eject(Reject) Options setting			
Description	Structure that contains ID data. oiBackSideReading Constant Value Description SKDV_DISABLE 0 Not force reject. SKDV_ENABLE 1 Force reject.				

5.4.19. SK_WINDOW_AREA_CONF

Structure	Window area	
Syntax	{	dwNgAction; / COPTION LayoutOpt;
	WindowPrm WindowCheck	Window areas
Member		Window check
Wienisei	dwNgAction	Operation while NG operation
	LayoutOpt	Options setting
Description	Store window areas in	formation.

5.4.20. SK_CONT_FEED_PRN_OPT

Structure	Printed options continuous reading			
	typedef struct ta {	g_SK_CONT_FEED_PRN_OPT		
Syntax	int	iDigits;		
	int iStartNumber;			
	}SK_CONT_FEED_PRN_OPT;			
Member	iDigits	Number of digits		
Wember	iStartNumber	Set the start number of Sequence		
Description	Store printed options on continuous reading			

5.4.21. SK_DV_WINDOW_RESULT

Structure	Window read result					
Syntax	typedef struct tag_SK_DV_WINDOW_RESULT { int					
		Read result				
Member		ID recognition	results			
	iCount	iCount The number of window				
	Structure which stores the reading result information each window.					
	Constan	t	Value	Description		
Description	SKDV_RESULT_ID_	MIN	0	Minimum layout ID		
	SKDV_RESULT_ID_	MAX	15	Maximum layout ID		
	SKDV_RESULT_ID_	NUM	16	The number of layout ID		
	SKDV_RESULT_ID_	NONE	0	ID when no ID is set		
	SKDV_RESULT_ID_	ID mismatch				

5.4.22. SK_DV_BARCODE_RESULT

	1_2/1110021_1110		
Structure	Bar codes reading result structure		
Syntax	typedef struct tag_SK_DV_BARCODE_RESULT {		
Member	iResult	Reading result	
Member	iCount The number of barcodes		
Description	Stores the reading result of barcode.		

5.4.23. SK_SHEET_RESULT

Structure	Sheets read result				
Cirdotaro	typedef struct tag_SK_SHEET_RESULT				
	{				
	SkDvStatus	DvStatu	ıs;		
	int	iSheetC	Count:		
	int	iTmCou	int[SKDV_FA	ACE_NUM];	
	int		leCount;		
	int int	ild; iPrinted	ļ•		
	int	iStacke			
Syntax	DWORD	dwResi	ult;		
	int int	iFinish; iIdResu	ilt:		
	struct		···-,		
	{ int		Count		
	int		iCount;		
	int		iIndex;		
	int int		iPartIndex iReason;	С;	
	}NgWindow;		iixeasoii,		
	}SK_SHEET_RESULT;				
	DvStatus	Status of read			
	iSheetCount	Total counts			
	iTmCount	The number of	of timing ma	ırks	
	iBarcodeCount	The number of			
	ild	ID recognition			
	iPrinted Printing result				
Member	iStackedId	Paper Destina			
	dwResult iFinish	Troumouton de		•	
	1101100 data 0			1	
	ildResult ID recognition NgWindow NG window of				
		NG window detail The number of TOTAL NG Window			
	iCount iIndex	The first NG w			
	iPartIndex	The first NG p	artition numb		
	iReason	The first NG re			
	The structure which st	ores sheets re	ad result.		
	allD.				
	oilD	n.	Value	Description	
	Consta		0 value	Description Minimum layout ID	
	SKDV_RESULT_ID		15	Maximum layout ID	
	SKDV_RESULT_ID		16	The number of layout ID	
	SKDV_RESULT_ID		0	ID at the time of ID setting noth	
				ing	
Description	SKDV_RESULT_ID	UNKNOWN	99	ID mismatch	
Description	oiPrinted		1		
	Consta		Value	Description	
	SKDV_RESULT_PI		0	un-printing.	
	SKDV_RESULT_PI	RN_PRINTED	1	Printed	
	∘iStackedId				
	Consta		Value	Description	
	SKDV_RESULT_S		0	Not output the form	
	SKDV_RESULT_S		1	Output for main tray	
	SKDV_RESULT_STON	IK_SELECTI	2	Output for select tray	
	0.1		I		

SKDV_RESULT_STK_CNT 3	Total	count
odwResult		
Constant	Value	Description
SKDV_RESULT_STS_OK	0x00000000	Normal
SKDV_RESULT_STS_ERROR_EJE CT	0x00000004	Errors detect and eject form
SKDV_RESULT_STS_ERROR_STO P	0x00000002	Error detect and stop for m
SKDV_RESULT_STS_WINDOW_NG	0x00000001	NG judge window
SKDV_RESULT_STS_ID_NG	0x00000008	ID judgment is NG
-	Except above	Other error
○NgWindow.iReason	•	
Constant	Value	Description
SKDV_RESULT_REASON_OK	0	Normal
SKDV_RESULT_REASON_ MARK_COUNT_LOWER	1	There are few marks.
SKDV_RESULT_REASON_ MARK_COUNT_UPPER	2	There are many marks.
SKDV_RESULT_REASON_ MARK_DISAGREE	3	Fixed data mismatch
SKDV_RESULT_REASON_ CHECK_DIGIT_NG	4	Checkdigit NG
SKDV_RESULT_REASON_ ASCENDING_ORDER_NG	5	Range check(ascending)
SKDV_RESULT_REASON_ DESCENDING_ORDER_NG	6	Range check (descending)
SKDV_RESULT_REASON_ RANGE_CHECK_NG	7	Range check(not direction)
-	Except above	Other reason
oiFinish		
Constant	Value	Description
SKDV_RESULT_FINISH_CONT	0	Continue
SKDV_RESULT_FINISH_DONE	1	Finish
oildResult		
Constant	Value	Description
SKDV_RESULT_ID_OK	0	Normal
SKDV_RESULT_ID_TM_CNT_DIFF_ F	1	The number of timing mar k incorrect(front)
SKDV_RESULT_ID_TM_CNT_DIFF_ B	2	The number of timing mar
SKDV_RESULT_ID_TM_CNT_DIFF_	3	k incorrect(back) The number of timing mar
FB		k incorrect(both)
SKDV_RESULT_ID_ID_NONE	4	All layout ID incorrect
SKDV_RESULT_ID_BC_CNT_DIFF	5	The number of Barcode i
SKDV_RESULT_ID_ID_ORDER_NG	6	Order of Layout ID Incorr
		ect
-	Except above	Other reason

5.4.24. SK_CONT_FEED_RESULT

Structure	Result of Continuous reading					
	typedef struct tag_SK_CONT_FEED_RESULT					
	SkDvStatus	DvSta				
Syntax	int struct {	iResu	ılt;			
	in ir ir ir }Remain; }SK_CONT_FEED_RE	it it	iRead iPrint; iEject;			
	DvStatus Final status of continuous reading					
	iResult	Notify finish	Notify finish data of continuous reading			
NA a walk a w	Remain	The numbe	The number of forms not finished			
Member	iRead	The number	The number fo forms not reading			
	iPrint	The number	of forms not	printing		
	iEject	The number of forms not feed to tray				
	Stores the result of co	continuous reading.				
	Consta	-	Value	Description		
Description	SKDV_CFR_NOR		0	Normal finish		
	SKDV_CFR_ERR		1	Error finish		
	SKDV_CFR_WIND		2	Finish by window judgement		
	SKDV_CFR_CAN	CEL	3	Finish by Cancel		

5.4.2<u>5. SK_CONT_FEED_COUNT</u>

Structure	Feed count of continuous reading			
	int	g_SK_CONT_FEED_COUNT iFeed;		
Syntax	int int int int	iNormal; iPrint; iEject[SKDV_RESULT_STK_CNT]; iUntreated;		
	}SK_CONT_FEED_COUNT;			
	iFeed	Total feed count		
	iNormal	The number of forms read normally		
Member	iPrint	The number of forms print normally		
	iEject	The number of forms output normally		
	iUntreated	The number of forms not output		
Description	Stores the number of continuous reading.			

5.4.26. SK_DV_OPT_PRN_CONF

Structure	Print setting			
	typedef struct tag	g_SK_DV_OPT_PRN_C0	ONF	
Syntax	{	iEnable; iStartPos; iOrientation; iFontSize; iFontSpace; iPrintMode;		
	iEnable	Printer setting Valid or	r Invalid	
	iStartPos	Print positions(mm)		
Manakan	iOrientation	Print direction(0 degree	e' or 180 de	grees')
Member	iFontSize	Printed font size		
	iFontSpace Printed characters space		cings	
	iPrintMode			
	Stores printer settings			
	∘iEnable		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	5
	Constant SKDV_DISABLE		Value 0	Description Invalid printing
	SKDV_ENABLE		1	Valid printing
	_			valia printing
	∘iOrientation			
Description		onstant	Value	Description
	SKDV_PRINT_ORI		1	Normal
	SKDV_PRINT_ORIENT_180		2	180 degrees rotation
	∘iPrintMode			
		onstant	Value	Description
	SKDV_PRINT_MOI		1	Print after feed
	SKDV_PRINT_MOI	DE_FEED_AND_PRINT	2	Feed and print

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5.4.2<u>7. SK_DV_OPT_BCR_CONF</u>

Structure	Barcode reading c	ondition		
	typedef struct	tag_SK_DV_OPT_BCR_CONF		
	int int DWORD	iEnable; iReadingArea[SKDV_BCR_READING_AREA_MAX]; dwEnableBcType;		
	struct tag	CheckDigit{		
		int iCode39; int iltf;		
		int iNw7; int iReserved1;		
Syntax		int iReserved2; int iReserved3;		
	}CheckD	,		
	struct tag	Option{		
		int iUpcA; int iUpcE;		
		int iReserved1;		
		int iReserved2;		
		int iReserved3;		
	}Option;	int iReserved4;		
	}SK_DV_OPT_BCF	R_CONF;		
	iEnable	Barcode reading Invalid or Valid		
	iReadingArea	Set the area of Barcode reading		
	dwEnableBcType	Set the kind of barcode to read		
	CheckDigit	Checkdigit		
	iCode39	CODE39 checkdigit		
Member	iltf	ITF checkdigit		
Member	iNw7	NW7 checkdigit		
	iReserved1-3	Not use		
	Option	Option		
	iUpcA	UPC-A output digit		
	iUpcE	UPC-Eaddon system code		
	iReserved1-4	Not use		

Barcode read condition

oiEnable

Constant	Value	Description
SKDV_DISABLE	0	Invalid barcode reading
SKDV_ENABLE	1	Valid barcode reading

oiReadingArea

- row1:"SKDV_BCR_READING_AREA_ENTIRE"to read all area.
- · row1:SKDV_Disable (mm) and

row2:"SKDV_BCR_READING_AREA_ENTIRE"to read except disable area

Constant	Value	Description
SKDV_BCR_READING_AREA_ENTIRE	0	Read all area

odwEnableBcType

Constant	Value	Description
SKDV_BCR_CODE39	0x00000001	CODE-39
SKDV_BCR_ITF	0x00000002	Interleaved 2 of 5 (ITF)
SKDV_BCR_NW7	0x00000004	NW-7
SKDV_BCR_JAN_EAN_UPC	0x00000008	JAN,EAN,UPC
SKDV_BCR_CODE128	0x00000010	Code-128
SKDV_BCR_INDUSTRIAL2OF	0x00000020	Industrial 2 of 5
5		
SKDV_BCR_COOP2OF5	0x00000040	COOP 2 of 5
SKDV_BCR_CODE93	0x00000080	CODE-93

•CheckDigit

Description

Some kinds of barcode are available to use Checkdigit

· iCode39 / iItf

Constant	Value	Description
SKDV_BCR_CD_NONE	0	Checkdigit OFF
SKDV_BCR_CD_ENABLE	1	Checkdigit ON

· iNw7

Constant	Value	Description
SKDV_BCR_CD_NONE	0	Not check
SKDV_BCR_CD_NW7_M16	1	Modulus16
SKDV_BCR_CD_NW7_M11	2	Modulus11
SKDV_BCR_CD_NW7_M10W2	3	Modulus 10/2
SKDV_BCR_CD_NW7_M10W3	4	Modulus 10/3
SKDV_BCR_CD_NW7_7DR	5	7DR
SKDV_BCR_CD_NW7_WM11	6	Weight modulus11
SKDV_BCR_CD_NW7_RUNES	7	Runes check

oOption

Option is available depends on the kind of barcode

• iUpcA : UPC-A output digit

Constant	Value	Description
SKDV_BCR_CD_UPC_A_DIGIT_12	0	Output 12digits
SKDV_BCR_CD_UPC_A_DIGIT_13	1	Output 13digits

• iUpcE : UPC-E system code

Constant	Value	Description
SKDV_BCR_CD_UPC_E_NO_CODE	0	Not addon system code
SKDV_BCR_CD_UPC_E_ADD_CODE	1	Add-on system code

5.4.28. SK_DV_OPT_BCR_AREA

	SK_DV_OF1_BCK_AREA					
Structure	Set barcode reading ar					
	typedef struct tag_BCR_	typedef struct tag_BCR_AREA				
	PEOT months					
Cumtan	RECT rectFrect; DWORD dwEnableBcType;					
Syntax		=павіевстурі eckDigit;	е,			
	int iOption; }SK_DV_OPT_BCR_AREA;					
	rectFrect	Barcode read	dina area	<u> </u>		
					· · · · · · · / · ·	
Member	dwEnableBcType			One cho	oice only (n	o multiple choices)
	iCheckDigit	Set check dig	git			
	iOption	ption Set option				
	∘rectFrect					
	Set recognizing area (se	t in 0.1mm ur	nit)			
	RECT refers MFC library		,			
						Ī
	typedef struct tagRE	-C1 {				
	LONG left;					
	LONG top;					
	LONG right;					
	LONG bottom;					
	} RECT;					
) KEUI,					-
		0:1				1.0:1
		Side				ack Side
	Coord	dinate origin			Coordina	ate origin
	↓ —+→	•				-+
	(left,top)	_			(left,top)	
	+	 F		(right,bottom) Sheet		+
	 	Feed direction				
		lirec			irec 🕺	
	(right,bo	ottom) ë			ë. (rig	ght,bottom)
Description	Shee Front s	;L			Ĭ	Sheet Back side
	Fronts	side			<u> </u>	back side
	∘dwEnableBcType					
	Set barcode type by bit u	unit				
	定数名		値	1		意味
	Constan	t	val			Description
	SKDV_BCR_CODE:	39	0x0000		CODE-39	
	SKDV_BCR_ITF		0x0000	00002		ed 2 of 5(ITF)
	SKDV_BCR_NW7	BCR_JAN_EAN_UPC 0x0000 BCR_CODE128 0x0000			NW-7	
					Non usag	
					Code-128	
	SKDV_BCR_INDUS		OF5 0x0000		Non usag	
	SKDV_BCR_COOP: SKDV_BCR_CODE:				COOP 2 o	
	SKDV_BCR_JAN_E				JAN, EAN	
	SKDV_BCR_JAN_E		0x0000			I (13 digits)
	SKDV_BCR_UPC_A				UPC-A	(= ===================================
			0x0000		UPC-E	
	SKDV_BCR_QR		0x0100		QR Code	
	•					

$\circ i Check Digit \\$

Set check digit per barcode type

•CODE-39 / Interleaved 2 of 5(ITF)

Constant	Value	Description
SKDV_BCR_CD_NONE	0	No check
SKDV_BCR_CD_ENABLE	1	Check

•NW-7

Constant	Value	Description
SKDV_BCR_CD_NONE	0	No check
SKDV_BCR_CD_NW7_M16	1	Modulus 16
SKDV_BCR_CD_NW7_M11	2	Modulus 11
SKDV_BCR_CD_NW7_M10W2	3	Modulus 10 / 2
SKDV_BCR_CD_NW7_M10W3	4	Modulus 10 / 3
SKDV_BCR_CD_NW7_7DR	5	7 check DR
SKDV_BCR_CD_NW7_WM11	6	Weighted modulus 11
SKDV_BCR_CD_NW7_RUNES	7	Runes

oiOption

Set option per barcode type

UPC-A output digit

Constant	Value	Description
SKDV_BCR_CD_UPC_A_DIGIT_12	0	Output in 12 digits
SKDV_BCR_CD_UPC_A_DIGIT_13	1	Output in 13 digits

·Add UPC-E system code

Constant	Value	Description
SKDV_BCR_CD_UPC_E_NO_CODE	0	Not to add system code
SKDV_BCR_CD_UPC_E_ADD_CODE	1	Add system code

5.4.29. SK_DV_OPT_BCR_CONF_EX

Structure	Barcode reading condition				
Syntax	typedef struct tag_SK_DV_OP { int int int SK_DV_OPT_BCR_AREA }SK_DV_OPT_BCR_CONF_EX;	PT_BCR_CONF_EX iScanningSide; iColorType; iAreaNumber; Area[SKDV_BCR_AREA_MAX];			
	iScanningSide	Rea	ding side		
	iColorType	Set	color of readir	ng image	
Member	iAreaNumber	Set	number of bar	rcode reading	
	Area[SKDV_BCR_AREA_M	Refe	er SK DV OPT	FBCR AREA	
	AX]	Wor	Workable up to number set in iAreaNumber		
Description	OiScanningSide Constant SKDV_SIDE_NONE SKDV_SIDE_BOTH SKDV_SIDE_FRONT SKDV_SIDE_BACK		Value 0 1 2 3	Description No reading image Non usage Only front side Only back side	
Description	OiColorType		\/al	Description	
	Constant SKDV_LIGHT_COLOR		Value 0	Description Non usage	
	SKDV_LIGHT_GRAYSCAI	LE	1	Grayscale (monochrome)	
SKDV_LIGHT_RED			2	Red (plain color)	
	SKDV_LIGHT_GREEN		3	Green (plain color)	
SKDV_LIGHT_BLUE			4	Blue (plain color)	

5.4.30. SK_DV_REQ_PRINT_EJECT

Structure	Print & Eject			
Syntax	typedef struct tag_SK_DV_REQ_PRINT_EJECT {			
	iStop	Stop		
Member	iReject	Reject		
Wichiber	szString[SKDV_PRINT_BUF	Set printing chara	acter when print is enabled.	
	FER_SIZE]	Printable charact	er depends on models.	
		Refer to commnd	reference.	
	Fold direction of print & eject in	continuous readin	ng	
	∘iStop、iPrint、iReject			
Description	Constant	Value	Description	
	SKDV_DISABLE	0	Disable	
SKDV_ENABLE 1 Enable				

5.5. API function - Basic function

5.5.1. SkDv_GetModuleInfo

Function	Get Name and Version of library.			
Prototype	void SkDv_GetModuleInfo(SK_DV_MODULE_INFO* pModuleInfo)			
	pModuleInfo Set the address to fold infomation.			
Parameter		Refer to Structure description "5.4.1.SK_DV_MODULE_IN		
		FO"		
Return	Non			
Description	Not necessary to open this operation in advance in case library has loaded.			
Description	ersion of this module are stored into "pModuleInfo"			

5.5.2. SkDv_OpenSingle

Function	Search OMR Device connected with USB, and enable to communication.			
Prototype	SkDvStatus SkDv_Oper	nSingle(SkDvHandle *phSkDevice)		
Parameter	phSkDevice Set the pointer to receive open Device controlling handle.			
	SKDV_STS_SUCCESS Successful			
Return	Except above	Failure (There is no operable Device, or Device is already		
		connected.)		
	To execute this Function	n, the preparations to keep memory to workspace and proce		
	ed advance communicat	ion with Device, then it enables various operations. Need to		
	execute this procedure in advance of operation. In case more than one unit of OMR is connected by internal management, one OMR Device will be connected.			
Description	In case of success, Device controlling handle is stored into "phSkDevice". If failed,			
	NULL(0) is stored into "	phSkDevice".		
	By using this handle, various operations of this Middleware are proceeded.			
	Attn: In case of use this	s Function, it is not able to use Old API library.		
	"SkDv_OpenSingle" can correspond with only one OMR only, and return Error in ca			
	se there is another operating Devices.			

5.5.3. SkDv OpenWithOmrapi

	OKB 1_O POINT INTO INTO API				
	Function	Search OMR Device -USB connected, and enables communication. Controlling by Old API library is also be available.			
İ	Prototype	SkDvStatus SkDv_OpenWithOmrapi(SkDvHandle *phSkDevice)			
ĺ	Parameter	phSkDevice Set the pointer to receive open Device controlling handle.			
Ī		SKDV_STS_SUCCESS	Succesful		
	Return	Failure (There is no operable Device, or Device is already connected.)			
	Description	By executing Old API "OMR_OpenDeviceUSB", Old API Function is to be available. Same as "SkDv_OpenSingle".			

5.5.4. SkDv_Close

Function	Execute when finishing all the operation, and release various memories to workspace.			
Prototype	SkDvStatus SkDv_Close(SkDvHandle hSkDevice)			
Parameter	hSkDevice Set Device controlling handle.			
	SKDV_STS_SUCCESS	Successful		
Return	Except above	above Failure (There is no operable Device, or Device is already		
		connected.)		
Description	Attn: Use the controlling handle received by opening operation.			
Description	Attn 2: In case of re-opening the same Device, controlling handle will change.			

5.5.5. SkDv_ReqInit

Function	Execute "Software reset" for device, and gets various operating condition from the device.				
Prototype	SkDvStatus SkDv_ReqInit(SkDvHandle hSkDevice)				
Parameter	hSkDevice	hSkDevice Set Device controlling handle.			
Return	SKDV_STS_SUCCESS	Successful			
Return	Except above	Failure			
	Reset Software is executed.				
Description	Device operating condition, Image data and internal operating data are all to be initialized.				
	In addition, get each operating condition and device information from the device.				

5.5.6. SkDv_GetInfo

Function	Get verious infomation of device controlling and infomation of function			
Prototype	SkDvStatus SkDv_GetInfo(SkDvHandle hSkDevice, SK_DV_SR3500_INFO* pDvInfo)			
	hSkDevice Set Device controlling handle			
Parameter	pDvInfo	Set the address of Structure to fold device infomation.		
		Description can be referred at "5.4.3.SK_DV_SR3500_INFO"		
Return	SKDV_STS_SUCCESS	Successful		
Return	Except above	Failure		
	Proceed communicate with device and store information into "pDvInfo"in case device			
Description	information has not got. Call "SkDv_ReqInit" or "SkDv_ReqGetInfo"in case communicate			
	with device in advance.			

5.5.7. SkDv_GetMode

Function	Get Operating mode stored in Library.					
Duetetus	SkDvStatus SkDv_GetMode(SkDvHandle hSkDevice,					
Prototype	SK_DV_SR35	500_MODE* pDvMode)				
	hSkDevice	Set Device controlling handle				
	pDvMode	Set the address of Structure to fold Operation mode.				
Parameter		Description can be referred at "0.				
		SK_DV_SR3500_MODE"				
Return	SKDV_STS_SUCCESS	Successful				
Retuin	Except above	Failure				
	Operate mode to get is sa	aved in this library.				
	Operation mode saved by this library is stored into Parameter "pDvMode".					
Description	Communication with Device is not done.					
	In case want to call in Do	evice right after starting, please call Function "SkDv_ReqInit" or				
	"SkDv_ReqGetMode".	"SkDv_ReqGetMode".				

5.5.8. SkDv_SetMode

Function	Set Operation mode in Library			
Drototuno	SkDvStatus SkDv_SetMode(SkDvHandle hSkDevice,			
Prototype	SK_DV_SR350	00_MODE* pDvMode)		
	hSkDevice	Set Device controlling handle		
Parameter	pDvMode	Description can be referred at "0.		
1 dramotor		SK_DV_SR3500_MODE"		
Return	SKDV_STS_SUCCESS	Successful		
Retuill	except above	Failure		
Description	Fold the device information into library in case not connect with device and get the device information. "pDvMode" is checked as referring the description of device infomation, and error return in			
Description	case the value has any problems,			
	If there is no error, Operation mode is stored into Library.			
	Operation mode can be set through "SkDv_ReqSetMode" into device.			

5.5.9. SkDv_GetMarkConf

Function	Get Operating condition for mark reading from Library		
Prototype	SkDvStatus SkDv_GetMarkConf(SkDvHandle hSkDevice, SK_DV_SR3500MARK_CONF* pDvMarkConf)		
	hSkDevice	Set Device controlling handle	
Parameter	pDvMarkConf	Set the address to fold Operating condition for Mark reading. Description can be seen "5.4.5.SK_DV_SR3500MARK_CON F".	
Return	SKDV_STS_SUCCESS Successful		
Return	Except above	Failure	
Description	Operating condition for Mark reading is stored into "pDvMarkConf". Call "SkDv_ReqInit" or "SkDv_ReqGetMarkConf" in case want to see the contents stored in the device		

5.5.10. SkDv_SetMarkConf

Function	Set operating condition for Mark reading into Library.			
Prototype	SkDvStatus SkDv_SetMarkConf(SkDvHandle hSkDevice, SK_DV_SR3500MARK_CONF* pDvMarkConf)			
Parameter	hSkDevice Set Device controlling handle pDvMarkConf Set the address to fold Operating condition for Mark reading Description can be referred at "5.4.5.SK_DV_SR3500MARK_CONF".			
Return	SKDV_STS_SUCCESS Successful Except above Failure			
Description	Fold the device information into library in case not connect with device and get the device information. "pDvMarkConf" is checked as referring the description of device infomation, and error return in case the value has any problems, If there is no error, operating condition for Mark reading is stored into Library. Operation mode can be set through "SkDv_ReqSetMarkConf" into device.			

5.5.11. SkDv_ReqGetStatus

Function	Get Device status infomation by communication.			
Prototype	SkDvStatus SkDv_ReqGetStatus(SkDvHandle hSkDevice, SK_DV_SR3500_STATUS_CHAR* pStatusChar)			
	hSkDevice Set Device controlling handle			
Parameter	pStatusChar	Set the address to fold Device status code infomation.		
i alametei		Description can be referred at		
		"5.4.8.SK_DV_SR3500_STATUS_CHAR".		
Return	SKDV_STS_SUCCESS Successful			
Retuin	Except above	Failure		
December	Use "request command for Error information" "DE" to get error information and status			
Description	infomation. Device error is returned on Return value.			

5.5.12. SkDv_ReqGetSensor Function Get device sensor condition by communication.

Prototype	Function	Get device sensor condition by communication.			
Parameter	Prototype	SkDvStatus SkDv_ReqGetSensor(SkDvHandle hSkDevice, DWORD* pdwSensor)			
Pode	Parameter	hSkDevice	Set Device controlling handle		
Except above	Parameter	pdwSensor	Set the addre	ss of Variable t	o fold Sensor condition
Description Except above Failure	Peturn	SKDV_STS_SUCCESS	Successful		
Description Description	Retuin	Except above	Failure		
Constant Value Description		Use "request command for	or Sensor con	dition" "DS", to	o get error information and status
Constant		infomation. Sensor inforr	nation are fold	ed in "pdwSen	sor"
Constant					
SKDV_SENSOR_BIT_OUTPS				\/al	Description
SKDV_SENSOR_BIT_RDPS					
SKDV_SENSOR_BIT_INPS			-		
SKDV_SENSOR_BIT_PS0					
SKDV_SENSOR_BIT_UPPS		SKDV_SENSOR_BIT_	_PS0	0x00000004	
Description		SKDV_SENSOR_BIT_	UPPS	0x00000002	
Description		SKDV_SENSOR_BIT_	_DWPS	0x00000001	DWPS
SKDV_SENSOR_BIT_SPS3		SKDV_SENSOR_BIT_	SKS	0x00001000	SKS
SKDV_SENSOR_BIT_SPS2 0x00100000 SPS2 SKDV_SENSOR_BIT_SPS1 0x00080000 SPS1 SKDV_SENSOR_BIT_SPS 0x00040000 SPS SKDV_SENSOR_BIT_MPS 0x00020000 MPS SKDV_SENSOR_BIT_P2PS 0x00010000 P2PS SKDV_SENSOR_BIT_SRPS 0x10000000 SRPS SKDV_SENSOR_BIT_MRPS 0x08000000 MRPS SKDV_SENSOR_BIT_SPS5 0x04000000 SPS5 SKDV_SENSOR_BIT_SPS4 0x02000000 SPS4	Description	SKDV_SENSOR_BIT_	_MAIN_CVR	0x00000100	MAIN-CVR
SKDV_SENSOR_BIT_SPS1 0x00080000 SPS1 SKDV_SENSOR_BIT_SPS 0x00040000 SPS SKDV_SENSOR_BIT_MPS 0x00020000 MPS SKDV_SENSOR_BIT_P2PS 0x00010000 P2PS SKDV_SENSOR_BIT_SRPS 0x10000000 SRPS SKDV_SENSOR_BIT_MRPS 0x08000000 MRPS SKDV_SENSOR_BIT_SPS5 0x04000000 SPS5 SKDV_SENSOR_BIT_SPS4 0x02000000 SPS4				0x00200000	SPS3
SKDV_SENSOR_BIT_SPS 0x00040000 SPS SKDV_SENSOR_BIT_MPS 0x00020000 MPS SKDV_SENSOR_BIT_P2PS 0x00010000 P2PS SKDV_SENSOR_BIT_SRPS 0x10000000 SRPS SKDV_SENSOR_BIT_MRPS 0x08000000 MRPS SKDV_SENSOR_BIT_SPS5 0x04000000 SPS5 SKDV_SENSOR_BIT_SPS4 0x02000000 SPS4				0x00100000	SPS2
SKDV_SENSOR_BIT_MPS 0x00020000 MPS SKDV_SENSOR_BIT_P2PS 0x00010000 P2PS SKDV_SENSOR_BIT_SRPS 0x10000000 SRPS SKDV_SENSOR_BIT_MRPS 0x08000000 MRPS SKDV_SENSOR_BIT_SPS5 0x04000000 SPS5 SKDV_SENSOR_BIT_SPS4 0x02000000 SPS4					SPS1
SKDV_SENSOR_BIT_P2PS 0x00010000 P2PS SKDV_SENSOR_BIT_SRPS 0x10000000 SRPS SKDV_SENSOR_BIT_MRPS 0x08000000 MRPS SKDV_SENSOR_BIT_SPS5 0x04000000 SPS5 SKDV_SENSOR_BIT_SPS4 0x02000000 SPS4				0x00040000	SPS
SKDV_SENSOR_BIT_SRPS 0x10000000 SRPS SKDV_SENSOR_BIT_MRPS 0x08000000 MRPS SKDV_SENSOR_BIT_SPS5 0x04000000 SPS5 SKDV_SENSOR_BIT_SPS4 0x02000000 SPS4					MPS
SKDV_SENSOR_BIT_MRPS 0x08000000 MRPS SKDV_SENSOR_BIT_SPS5 0x04000000 SPS5 SKDV_SENSOR_BIT_SPS4 0x02000000 SPS4				0x00010000	P2PS
SKDV_SENSOR_BIT_SPS5 0x04000000 SPS5 SKDV_SENSOR_BIT_SPS4 0x02000000 SPS4					SRPS
SKDV_SENSOR_BIT_SPS4					MRPS
5.51					SPS5
SKDV_SENSOR_BIT_STK_CVR1 0x01000000 STK-CVR1			- '		SPS4
		SKDV_SENSOR_BIT_STK_CVR1		0x01000000	STK-CVR1

5.5.13. SkDv_ReqFeedMarkSheet

Function	Read Mark sheet.		
Prototype	SkDvStatus SkDv_ReqFeedMarkSheet(SkDvHandle hSkDevice)		
Parameter	hSkDevice Set Device controlling handle		
Return	SKDV_STS_SUCCESS	Successful	
	Except above	Failure	
	Read Mark sheet by Command "SF". Read the mark data		
Description	Not read Image data.		
	Connect with device in case not get the setting from the device		

5.5.14. SkDv_ReqEjectForm

1 <u>4. SKDV</u>	_ReqEjectForm			
Function	Read Mark sheet, and capturing Image data.			
Prototype	SkDvStatus SkDv_ReqEjectForm(SkDvHandle hSkDevice, int iDirection)			
	hSkDevice	Set Device	ce controlling h	nandle
Parameter	iDirection	Set the o	peration of eje	ct sheet.
		Setting va	alue can be re	fered at "Description"
Return	SKDV_STS_SUCCESS	Successf	ul	
Return	Except above	Failure		
	Eject the sheets by comn	nand of Eje	ction "ER".	
	If the stacker unit is not	connected	, switching of	Main stacker and Select stacker is not
	work (SR3500HYBRID).			
	○iDirection			
	constant		value	description
	SKDV_EJECT_MAIN	l	1	Ejecting the sheet at stand-by pos
				ition into Main stacker
				(instant operation)
Description	SKDV_EJECT_SELE	CT	2	Ejecting the sheet at stand-by pos
				ition into Select stacker
				(instant operation)
	SKDV_EJECT_MAIN	I_NEXT	3	Ejecting the sheet at stand-by pos
				ition into Main stacker at the timin
				g of next Reading command
	SKDV_EJECT_SELE	CT_NEXT	4	Ejecting the sheet at stand-by pos
				ition into Select stacker at the timi
				ng of next Reading command

5.5.15. SkDv_ReqClearError

Function	Clear the Error on Device.	
Prototype	SkDvStatus SkDv_ReqClearError(SkDvHandle hSkDevice)	
Parameter	hSkDevice Set Device controlling handle	
Determ	SKDV_STS_SUCCESS	Successful
Return	except above	Failure
Description	By Error clearing command "CE", clearing the Error happening in Device.	
Description	However, in case of Non-clearable Error, it would return another massage of Error.	

5.5.16. SkDv_ReqGetMarks

1 <u>0. SKDV</u>	_Negoetina ks		
Function	Get Mark data		
	SkDvStatus SkDv_Req0	GetMarks(SkDvHandle hSkDevice,	
	int iFace,		
Prototype	SK_DV_MARK	Z_INFO *pMarkInfo,	
	char* pMarks,		
	int* piBufSize)		
	hSkDevice	Set Device controlling handle	
	iFace	Select front side or back side	
	pMarkInfo	Set the address to fold Mark data	
		Description can be referred at "5.4.9.SK_DV_MARK_INFO"	
	pMarks	Set the address of buffer to fold Mark data	
Parameter		Mark density is stored per 1 byte in the value of 0 to 16	
		In case you appointed "NULL", Mark data cannot be stored	
	piBufSize	Set the byte size of buffer to fold Mark data	
		Store data into the buffer appointed in "pMark" up to the buffer	
		size	
		After execution, the needed buffer size will be stored	
Return	SKDV_STS_SUCCESS	Successful	
Retuin	Except above	Failure	
	Use request code for Mark density data "MD", to get Mark data.		
Description	Set the address of Mark infomation nto Parameter "pMarkInfo".		
Description	Set the first address of b	suffer securing memories for unit number of Mark data, and the	
	byte size of the buffer into	o "piBufSize"	

5.6. APIfunction - expanded Function

5.6.1. SkDv_ReqGetInfo

Function	Communicate to get Device infomation.		
Prototype	SkDvStatus SkDv_ReqGetInfo(SkDvHandle hSkDevice)		
Parameter	hSkDevice	hSkDevice Set Device controlling handle	
Return	SKDV_STS_SUCCESS	Successful	
Retuin	Except above	Failure	
	Communicate to get Device infomation. and saves it into Library.		
	Using commands is as following.		
Description	-request command of Device infomation "DI"		
Description	- request command of Model name "MN"		
	- request command of Firmware version "FV"		
	- Other - Closed command		

5.6.2. SkDv_ReqGetMode

Function	Get Operation mode.	
Prototype	SkDvStatus SkDv_ReqGetMode(SkDvHandle hSkDevice)	
Parameter	hSkDevice	Set Device controlling handle
Return	SKDV_STS_SUCCESS	Successful
Return	Except above	Failure
	Get operation mode, and saves it into Library.	
	Using commands is as following.	
Description	- Setting command of Warning error "WE"	
Description	- Setting command of Panel operation "PO"	
	- Setting command of Buzzer "BZ"	
	- Setting command of Energy saving "ES"	

5.6.3. SkDv_ReqSetMode

Function	Set operating mode.		
Prototype	SkDvStatus SkDv_ReqSetMode(SkDvHandle hSkDevice)		
Parameter	hSkDevice Set Device controlling handle		
Return	SKDV_STS_SUCCESS	Successful	
	Except above	Failure	
Description	Set the opration mode in Library into Device.		
Description	Command is as same as "SkDv_ReqGetMode"		

5.6.4. SkDv_ReqGetMarkConf

Function	Get mark condition	
Prototype	SkDvStatus SkDv_ReqGetMarkConf(SkDvHandle hSkDevice)	
Parameter	hSkDevice	Appinting Device controlling handle
Potura	SKDV_STS_SUCCESS	Successful
Return	Except above	Failure
	Get Mark condition, and to store it into Library.	
	Using command is as following.	
Description	- Setting command for Reading column "NC"	
Description	- Setting command for the Reading method "RM"	
	- Setting command for Back side reading "BR"	
	- Setting command for Sheet thickness "FT"	

5.6.5. SkDv_ReqSetMarkConf

Function	Set Mark condition.	
Prototype	SkDvStatus SkDv_ReqSetMarkConf(SkDvHandle hSkDevice)	
Parameter	hSkDevice Set Device controlling handle	
Datama	SKDV_STS_SUCCESS	Successful
Return	Except above	Failure
Description	Set the Mark condition in Library into Device.	
Description	Command is as same as "SkDv_ReqGetMarkConf"	

5.7. API function - Image reading

5.7.1. SkDv_GetImageConf

F ation	Settling Operating condition for Image reading into Library.		
Function	For SR-3500HYBRID siries (SR-8000HYBRID with constraint)		
Drototypo	SkDvStatus SkDv_GetImageConf(SkDvHandle hSkDevice,		
Prototype	SK_DV_SR350	0IMG_CONF* pDvImageConf)	
	hSkDevice	Appointing Device controlling handle	
	pDvImageConf	Appointing the address of Structure to fold Operating	
Parameter		condition for Mark reading	
		Structure description can be referred at	
		"5.4.6.SK_DV_SR3500IMG_CONF".	
Return	SKDV_STS_SUCCESS	Successful	
Ketuiii	Except for the above	Failure	
	Operating condition for Image reading to get is saved in this Library. Operating condition		
	for Image reading is folded in Parameter "pDvMarkConf".		
Description	Communication with Device is not done.		
Description	If you would like to get description settled in Device right after starting,		
	Please call Function "SkDv_ReqInit" or "SkDv_ReqGetImageConf".		
	This Function is only for Image reader equipment, not use for without Image reader.		

5.7.2. SkDv_SetImageConf

z. SKDV_Setti	magcoom		
Function	Settling Operating condition for Image reading into Library. Foror SR-3500HYBRID siries (SR-8000HYBRID with constraint)		
Prototype	SkDvStatus SkDv_SetImageConf(SkDvHandle hSkDevice, SK_DV_SR3500IMG_CONF* pDvImageConf)		
	hSkDevice	Appointing Device controlling handle	
	pDvImageConf	Appointing the address of Structure to fold Operating	
Parameter		condition for Image reading	
		Structure description can be referred at	
		"5.4.6.SK_DV_SR3500IMG_CONF".	
Return	SKDV_STS_SUCCESS	Successful	
Retuin	Except for the above	Failure	
Description	If getting Device info. has not been done, you can communicate with Device and fold the Device info. into library. Operation mode for Image reading appointed at Parameter "pDvImageConf" is checked as referring to Device info's description, and if the value has any problems, Error is returned. If there is no error, Operation mode is folded into Library. Setting description of Operation mode for Mark reading can be settle into Device by executing "Demand for Reading" or Function "SkDv_ReqImageConf" via communication. This Function is only for Image reader equipment, not use for without Image reader.		

5.7.3. SkDv_GetImageConfEx

	. OKDV_OCHINAGEOOTILX			
Function	Get condition of image reading folded in library (For SR-8000HYBRID)			
Drototyno	SkDvStatus SkDv_GetImageConfEx(SkDvHandle hSkDevice,			
Prototype	SK_DV_IMAG	GE_CONF_EX* pDvImageConfEx)		
	hSkDevice	Appointing Device controlling handle		
	pDvImageConfEx	Appointing the address of Structure to fold Operating		
Parameter		condition for Image reading		
		Structure description can be referred at		
		"5.4.7SK_DV_IMAGE_CONF_EX".		
Return	SKDV_STS_SUCCESS	Successful		
Return	Except for the above	Failure		
	Operating condition for Ir	mage reading to get is saved in this Library. Operating condition		
	for Image reading is folded in Parameter "pDvMarkConfEx".			
Description	Communication with Device is not done.			
Description	If you would like to get description settled in Device right after starting,			
	Please call Function "SkDv_ReqGetImageConft" or "SkDv_ReqInit".			
	This Function is only for S	SR-8000HYBRID series, not use for other readers.		

5.7.4. SkDv SetImageConfEx

OKDV_OctimageComEx		
Function	Settling Operating condition for Image reading into Library. (For SR-8000HYBRID)	
Prototype	SkDvStatus SkDv_SetImageConf(SkDvHandle hSkDevice, SK_DV_IMAGE_CONF_EX* pDvImageConfEx)	
	hSkDevice	Appointing Device controlling handle
Parameter	pDvImageConfEx	Appointing the address of Structure to fold Operating condition for Image reading
		Structure description can be referred at
		"5.4.7SK_DV_IMAGE_CONF_EX".
Return	SKDV_STS_SUCCESS	Successful
Return	Except for the above	Failure
	If getting Device info. has not been done, you can communicate with Device and fold the Device info. into library. Operation mode for Image reading appointed at Parameter "pDvImageConfEx" is checked as referring to Device info's description, and if the value has any problems, Error is	
Description	returned.	
	If there is no error, Operation mode is folded into Library. Setting description of Operation mode for Mark reading can be settle into Device by	
		or Reading" or Function "SkDv_ReqSetImageConf" via
	communication.	
	This Function is only for SR-8000HYBRID series, not use for other readers.	

5.7.5. SkDv_ReqGetImageConf

Function	Communicating to get Image condition from Device.	
Prototype	SkDvStatus SkDv_ReqGetImageConf(SkDvHandle hSkDevice)	
Parameter	hSkDevice	Appointing Device controlling handle
Return	SKDV_STS_SUCCESS	Successful
	Except for the above	Failure
Description	Communicating to get Image condition, to save it into Library. Using command is as following.	
	- Setting command for Image reading "IR" This Command is only for Image reader equipment, not use for without Image reader.	
	1	g- :

5.7.6. SkDv_ReqSetImageConf

Function	Communicating to settle Image condition into Device.	
Prototype	SkDvStatus SkDv_ReqSetImageConf(SkDvHandle hSkDevice)	
Parameter	hSkDevice	Appointing Device controlling handle
Return value	SKDV_STS_SUCCESS	Successful
	Except for the above	Failure
	Settling the Image condition in Library into Device.	
Description	Using command is as same as "SkDv_ReqGetImageConf" Function.	
	This Command is only for Image reader equipment, not use for without Image reader.	

5.7.7. SkDv_ReqScanForm

Function	Reading Mark sheet, and capturing Image data.	
Prototype	SkDvStatus SkDv_ReqScanForm(SkDvHandle hSkDevice)	
Parameter	hSkDevice	Appointing Device controlling handle
Return	SKDV_STS_SUCCESS	Successful
	Except for the above	Failure
Description	Reading Mark sheet by Command "NS"	
	If the communication for getting Image/setting Condition/CIS standard data has not been	
	done, the communication will be done before Reading.	
	Reading sheet and folding Image data into this library.	
	Since only models with an image reading function, if not installed will not be used.	

5.7.8. SkDv_GetFormSize

Function	Getting the info of sheet size	
Prototype	SkDvStatus SkDv_GetFormSize(SkDvHandle hSkDevice, SIZE* pSizeForm)	
	hSkDevice	Appointing Device controlling handle
	pSizeForm	Appointing the address of Structure to fold the size of sheet. The
		measure of value is 0.1mm.
Parameter		SIZE can be referred at "MFC Library reference"
		typedef struct tagSIZE { LONG
Dotum	SKDV_STS_SUCCESS	Successful
Return	Except for the above.	Failure
Description	Getting the sheet size from Image data in Middleware. Width"cx" is the maximum width which Device can read, and Length"cy" is the length which Device has detected by sensor. Above "Image data in Middleware" means Image data captured by "SkDv_ReqScanForm" Function. This Command is only for Image reader equipment, not use for without Image reader.	

5.7.9. SkDv_SetImageElongationDetectInfo

Function	Information for detecting the elongation of the read image is set.	
Prototype	SkDvStatus SkDv_SetImageElongationDetectInfo(SkDvHandle hSkDevice,	
Trototype	SK_DV_IMG_ELGT_DETE	CT_CONF* pElongationInfo)
	hSkDevice	It specifies device controlling handle.
	pElongationInfo	It specifies the address of the structure to enter information for
Parameter		detecting the elongation of the image.
		The content of the structure can be referred at " 5.4.12
		SK_DV_IMG_ELGT_DETECT_CONF"
Return	SKDV_STS_SUCCESS	Success
Retuin	Except for the above.	Failure
Description	Since "5.13Image Elongation Detection" also has explanations and notes, so be sure to check it. Information for detecting the elongation of the image in the middleware is set. The above "image in the middleware" means image data acquired by the "SkDv_ReqScanForm" function. In "blEnabled", by "true" or "false", it specifies if image elongation detection is performed after image reading. In "SheetLen", specify the length of the sheet to be used in units of 0.1 mm. (Min:110, Max:355.6) In "Threshold", it specifies the maximum length that is not judged that the image became longer. (10mm, 20mm, and 30mm) In the image elongation detection, only the elongation is detected and the contraction is not detected. The image elongation detection is performed only on the image of the back side of the sheet. Therefore, under the condition that image enlongation detection is enabled, if it orders reading only front side, an error occurs. (SKDV STS PARAM ERR SCANNINGSIDE Parameter Error Back side reading)	

5.7.10. SkDv_GetImageElongationDetectInfo

Function	Information for detecting the elongation of the image stored in the middleware is acquired.		
Prototype	SkDvStatus SkDv_GetImageElongationDetectInfo(SK_DV_IMG_ELGT_DETECT_CONF* pElongationInfo)		
	hSkDevice	Device controlling handle is specified.	
	pElongationInfo	The address of the structure to enter information for detecting	
Parameter		the elongation of the image is specified.	
		The content of the structure can be referred at	
		"5.4.12SK_DV_IMG_ELGT_DETECT_CONF"	
Return	SKDV_STS_SUCCESS	Success	
Retuin	Except for the above.	Failure	
	Image elongation detection set by SkDv_SetImage Elongation DetectInfo is acquired		
	In "blEnabled", a boolean value indicating if image elongation detection is performed is		
	stored.		
Description	In "SheetLen", the length of the form to be subjected to image elongation detection is		
	stored.		
	In "Threshold", a threshold value for performing image elongation detection is stored.		
	This command is only for HYBRID models and must not used for other models.		

5.7.11. SkDv_SaveImageData

I. SKDV	_SaveimageData		
Function	Saving Image data appointe	ed.	
Prototype	SkDvStatus SkDv_SaveImageData(SkDvHandle hSkDevice,		
	SK_DV_IMAGE_DATA_CONF* pImageDataConf,		
	SK_DV_IMAGE_FILE_CONF* pImageFileConf,		
	char* pszFilename)		
	hSkDevice	Appointing Device controlling handle	
	plmageDataConf	Appointing the address of Structure which appointed the	
		Image data getting condition.	
		The content of Structure can be referred at	
		"5.4.10.SK_DV_IMAGE_DATA_CONF"	
Parameter	pImageFileConf	Appointing the address of Structure which appointed the File	
		form to save.	
		The content of Structure can be referred at	
		"5.4.11.SK_DV_IMAGE_FILE_CONF"	
	pszFilename	Appointing the address of character string which folds Name	
		of File to save.	
Return	SKDV_STS_SUCCESS	Successful	
Retuin	Except for the above	Failure	
	Saving the Image data in th	is library into File.	
	Above "Image data in Middleware" means Image data captured by		
	"SkDv_ReqScanForm" Function.		
	In case saving is executed in resolution high than image, the quality of Image is to be		
Description	rough than to saving is executed. And in case saving is Color but the image is grayscale,		
	saved image is to be Grayscale.		
	As for File name of these image file, it's required to check overwrite or forbidden words in		
	advance before call this function.		
	This Command is only for Ir	nage reader equipment, not use for without Image reader.	

5.7.12. SkDv_SaveImageDataThread

	_oavemageDataTiffead		
Function	Saving the appointed Image	e data by other threads	
	SkDvStatus WINAPI SkDv_SaveImageDataThread(SkDvHandle hSkDevice,		
	SK_DV_IMAGE_	DATA_CONF* pImageDataConf,	
Prototype	SK_DV_IMAGE_	FILE_CONF* pImageFileConf, char* pszFilename,	
	FN_SK_DV_SAV	EIMAGE_CALLBACK fnSaveImageCallback,	
	LPVOID IpParam	eter)	
	hSkDevice	Appoint Device Control Handle	
	pImageDataConf	Appoint the address of structure which appointed the setting	
		condition of Image Data	
		See "5.4.10.SK_DV_IMAGE_DATA_CONF" refer for the	
		contents of structure.	
	pImageFileConf	Appoint the address of structure which appoints the file type	
Parameter		to be saved.	
i didiliotoi		See "5.4.11.SK_DV_IMAGE_FILE_CONF" refer for the	
		contents of structure.	
	pszFilename	Appoint the address of structure which appoints the name of	
		save name	
	fnSaveImageCallback	Appointing the pointer of Callback functions after finish Image	
		Data saving. Not callback acceptable while "NULL"	
	IpParameter	User Parameter hand over for Callback function	
Return	SKDV_STS_SUCCESS	Successful	
	Except for the Above	Failure	
	-	is keep in this library to the other Threads. The Function of	
	"SkDv_SaveImageDataThread" would be finish prior to file saved completely. It can be		
	operated by separated Threads for save Image Data (Front and Back side), but Data is		
	holding in this API function in case not finished the previous Threads. Parameters		
	"SkDv_SaveImageData" and "SkDv_CreateImage" can not save the Image Data until the		
	following reading start in case execute this function.		
	The Contents to be saved file is same as while use function of "SkDv_SaveImageData"		
Description		" B	
	No Callback executed while Parameter "fnSaveImageCallback"is "NULL". Then No		
	information while save incorrectly. That's why, User application should have function to		
	detect whether file saved correctly. Function "SkDv_CreateImage" has function to be		
	judgment saved file is actuary made or not saved yet.		
	It can be received the Error Status by the Parameter in case set the callback function in Parameter "fnSaveImageCallback"		
	See "5.7.13FN_SK_DV_SAVEIMAGE_CALLBACK" for the reference of callba		
	This Function is only for Image reader equipment, not use for without Image		

5.7.13. FN_SK_DV_SAVEIMAGE_CALLBACK

Function	Call Back function for Sa	ving the Image Data by other Threads		
	BOOL (CALLBACK *FN_SK_DV_SAVEIMAGE_CALLBACK)(
	SK_DV_IMAGE_DATA_CONF* pImageDataConf,			
Prototype	SK_DV_IMAGE_FILE_CONF* pImageFileConf,			
Flototype	char* pszFilen	ame,		
	SkDvStatus St	atus,		
	LPVOID IpPara	ameter)		
	pImageDataConf	Appoint address of Structure which Appoints the setting of		
		condition for the folding Image Data		
	pImageFileConf	Appoint Address of the structure to appoint the saving extension		
		(Format)		
Parameter	pszFilename	Pointer which folded the image file name.		
	Status	Folded Status code to be saved the image data files by other		
		threads.		
	IpParameter	Folded the user parameter which appointed		
		SkDv_SaveImageDataThread		
Return	TRUE	Saving the Image Data at other threads by the following setting		
Return	FALSE	Finish the saving Image Data by other Threads.		
	This function is to set into User Application to receive the result Data of File Saving by			
	"SkDv_SaveImageDataThread" function. It would be better to add the error processing			
Description	because Parameter "Status" folds the status code of results saving Image Data in other			
	threads.			
	Return "True" to save	Return "True" to save the Image Data Files by Parameter "pImageDataConf"		
	"pImageFileConf" "pszFil	"pImageFileConf" "pszFilename" (need change these contents) , Return "FALSE" to end		
	other threads to save the	file.		

5.7.14. SkDv_IsThreadRunning

Function	Confirm Threads created by "SkDv_SaveImageDataThread" function has closed.		
Prototype	BOOL WINAPI SkDv_IsThreadRunning(SkDvHandle hSkDevice)		
Parameter	hSkDevice	Appoint Device controlling handle	
Return	TRUE	Thread running saving image data files.	
Return	FALSE	All threads have finished saving the image data files.	
	Possibility to confirm other Threads (to be save Image files) made by the function of		
	SkDv_SaveImageDataThread" has closed.		
Description	Recommend to use this function in case use the function		
	"SkDv_SaveImageDataThread"without callback.		
	This Function is only for Image reader equipment, not use for without Image reader.		

5.7.1<u>5. SkDv_CreateImage</u>

Function	Generating Image data in appointed range.		
Prototype	SkDvStatus SkDv_CreateImage (SkDvHandle hSkDevice, SK_DV_IMAGE_DATA_CONF* pImageDataConf, BITMAPINFO** ppBitmapInfo, void** ppBitmapBits)		
	hSkDevice Appointing Device controlling handle		
	plmageDataConf	Appointing the address of Structure which appointed the	
		Image data getting condition.	
Parameter		The content of Structure can be referred at	
		"5.4.10.SK_DV_IMAGE_DATA_CONF"	
	ppBitmapBits	Appointing the address to get the address folding the bit data	
		of Image data.	
Return	SKDV_STS_SUCCESS	Successful	
Retuin	Except for the above	Failure	
	Securing the memories folding Image data, and to return the address folding Image data in		
	this library.		
Description	As the memories are secured in this Function, you have to release the memories at		
	"SkDv_DestroyImage"		
	However, not able to get Image data unless executing "Demand for Reading".		
	This Function is only for Ima	age reader equipment, not use for without Image reader.	

5.7.16. SkDv_DestroyImage

1 <u>0. SKDV</u>	_bestroyimage				
Function	Destroying the Image data generated at "SkDv_CreateImage"				
Prototype	SkDvStatus SkDv_DestroyImage (SkDvHandle hSkDevice, BITMAPINFO* pBitmapInfo)				
	hSkDevice Appointing Device controlling handle				
Parameter	pBitmapBits	Appointing the address folding the bit data gained at "SkDv CreateImage".			
	SKDV_STS_SUCCESS	Successful			
Return	Except for the above	Failure			
Releasing the memories secured at "SkDv_CreateImage"					
Description	However, Image data cannot be saved unless executing "Demand for Reading".				
	This Function is only for Image reader equipment, not use for without Image reader.				

5.7.17. SkDv_ReqGetImgReadSheetLength

Get Device image reading sheet length infomation by communication.			
SkDvStatus SkDv_ReqGetImgReadSheetLength(SkDvHandle hSkDevice, int* pImgReadSheetLen)			
hSkDevice	Set D	evice controlli	ng handle
pImgReadSheetLen	Pleas	e set the addr	ess of the variable for storing the image
	readin	g sheet length	information.
	Settin	g value can be	e refered at "Description"
SKDV_STS_SUCCESS	Succe	essful	
Except above	Failur	е	
Use request command for Set Image Reading Sheet Length "IL", to get Length infomation. Image reading sheet length information are folded in " pImgReadSheetLen ". In the image-featured models, available only models that "Setting of Reading" "Paper Size" in the menu in the main body panel is displayed. Non-compatible models are not set.			
	NCH		description Image reading sheet Maximum
			length is 14inch.
SKDV_IMG_SHEET_A4		1	Image reading sheet Maximum length is A4 size.
	SkDvStatus SkDv_ReqGet int* pImgReadSh hSkDevice pImgReadSheetLen SKDV_STS_SUCCESS Except above Use request command for Set Length infomation. Image reading sheet length infe In the image-featured models in the menu in the main body part Non-compatible models are responsible models are responsible models. pImgReadSheetLen constant SKDV_IMG_SHEET_14I	SkDvStatus SkDv_ReqGetImgRea int* pImgReadSheetLen hSkDevice Set D pImgReadSheetLen Pleas readin Settin SKDV_STS_SUCCESS Succe Except above Failur Use request command for Set Image Length information. Image reading sheet length informatio In the image-featured models, availatin the menu in the main body panel is non-compatible models are not set. opImgReadSheetLen constant SKDV_IMG_SHEET_14INCH	SkDvStatus SkDv_ReqGetImgReadSheetLength int* pImgReadSheetLen) hSkDevice Set Device controlling pImgReadSheetLen Please set the address reading sheet length Setting value can be SKDV_STS_SUCCESS Successful Except above Failure Use request command for Set Image Reading Sheet Length information. Image reading sheet length information are folded in In the image-featured models, available only model in the menu in the main body panel is displayed. Non-compatible models are not set. opImgReadSheetLen constant Value SKDV_IMG_SHEET_14INCH 0

5.7.18. SkDv_ReqSetImgReadSheetLength

	_ncqociiiigncaaonce			
Function	Get Device image reading sheet length infomation by communication.			
Prototype	SkDvStatus SkDv_ReqSetImgReadSheetLength(SkDvHandle hSkDevice,			
Tiolotype	int ImgReadSh	eetLen)		
	hSkDevice	Set Device controllin	g handle	
Parameter	ImgReadSheetLen	Please set the varia	able for storing the image reading sheet	
1 arameter		length information.		
		Setting value can be	refered at "Description"	
Return	SKDV_STS_SUCCESS	Successful		
Retuin	Except above	Failure		
	Use request command for Get Image Reading Sheet Length "IL", to set Length infomation.			
	If the sheet length exceed	ds the specified size	is read, the image reading length is	
	up to specified size.			
	In the image-featured models, available only models that "Setting of Reading" "Pape			
	r Size" in			
	the menu in the main body panel is displayed.			
Description	Non-compatible models are not set.			
	∘ImgReadSheetLen			
	constant	value	description	
	SKDV_IMG_SHEET_1	4INCH 0	Image reading sheet Maximum length is 14inch.	
	SKDV_IMG_SHEET_A	1 1	Image reading sheet Maximum	
			length is A4 size.	

5.8. APIfunction - Continuous Reading

5.8.1. SkDv_ReqSetLayoutManage

	OKDV_Kequeteayouthanage			
Function	Set ID for window layout management			
Drototype	SkDvStatus SkDv_ReqSetLayoutManage(
Prototype	SkDvHandle hSl	Device, SK_LAYOUT_MANAGE_CONF* pLayManConf)		
Doromotor	hSkDevice	Set the pointer to receive the Device controll handle		
Parameter	pLayManConf	Set the pointer of ID data setting		
	SKDV_STS_SUCCESS	Successful		
Return	Except above	Failure		
		(No device connected, or device is connecting)		
	"ID managed data setting [CMD:WM]" command is send to OMR.			
	All registered layout setting of OMR is cleared, and set layout ID setting.			
	Ex: setting of recognition of layout ID of Window controls, such as use / not use ID, and			
	the contents of the ID window.			
Description	In case window control is performed, there should runs first.			
	It should perform " Finish the layout setup " function after all.			
	(It is necessary to run before set "ID data sets" and "windows areas data sets")			
	"IdWindowPrm.IPartition" of "pLayManConf"would be disregarded due to Partition division			
	cannot be performed in ID window.			

5.8.2. SkDv_ReqSetLayoutManageTerminate

Function	Finish the layout setup (set ID data, set windows areas data sets)		
Prototype	SkDvStatus SkDv_ReqSetLayoutManageTerminate(SkDvHandle hSkDevice, int* piLimit)		
	hSkDevice Set the pointer to receive the Device controll handle		
Parameter	piLimit	Set the pointer to store the rectriction of continuous reading. "NULL" can be set. Not stored any restricted states set "NULL"	
	SKDV_STS_SUCCESS	Successful	
Return	Except above	Failure (No device connected, or device is connecting)	
Description	"ID management data setting [CMD:WM]" command is send to OMR. Finish the setting of Window control set. Don't perform "SetLayoutID" and "SetWindowArea" after execution.		

5.8.3. SkDv_ReqSetLayoutId

Function	Request form ID setting and enables to set up window areas.		
Prototype	SkDvStatus SkDv_ReqSetLayoutId(
	SkDvHandle h	SkDevice, SK_LAYOUT_ID_CONF* pLayIdConf, int* pildIdx)	
	hSkDevice Set the pointer to receive the Device controll		
Parameter	pLayIdConf	Set the pointer of ID data set the setting	
Farameter	pildldx	Set the pointer to store the ID number (from 0).	
		Null can be set . Null is not stored.	
	SKDV_STS_SUCCESS	Succesful	
Return	Except Above	Failure	
		(No device connected, or device is connecting)	
	"ID data setting [CMD:WL]" command is send to OMR. Set the ID pattern of ID window,		
Description	and set the number of timing marks of the sheet.		
	In case made a setting does not use ID, ID setting is disregarded. but have to call once.		
	After performing it, "SetWIndowArea" can be set		

5.8.4. SkDv_ReqSetWindowArea

Function	Setup window area.			
	SkDvStatus SkDv_ReqSetWindowArea(
Prototype	SkDvHandle h	SkDvHandle hSkDevice,		
	SK_WINDOW_	_AREA_CONF* pWinAreaConf, int* piWinIdx)		
	hSkDevice	Set the pointer to receive the Device controll handle		
Parameter	pWinAreaConf	Set the pointer of window area to set the setting		
Parameter	piWinldx	Set the pointer to store the window number (from 0).		
		Null can be set. "Null" window is not stored.		
	SKDV_STS_SUCCESS	Succesful		
Return	Except above	Failure		
		(No device connected, or device is connecting)		
December	"Window domain data setting [CMD:WD]" command is send to OMR.			
Description	The last "ID data setup" is performed			

5.8.5. SkDv_ReqClearLayout

Function	Clear all the contents of the layout setting.		
Prototype	SkDvStatus SkDv_Red	qClearLayout(SkDvHandle hSkDevice)	
Parameter	hSkDevice Set the pointer to receive the device Device controll handle		
	SKDV_STS_SUCCESS	Succesful	
Return	Except above	Failure	
		(No device connected, or device is connecting)	
	"Window information Clear [CMD:WC]" command is send to OMR.		
Description	The contents of "ID data	management settings", "ID data settings", and "windows areas	
	data settings" are cleare	d.	

5.8.6. SkDv_PollingPrintEject

	ngi miczject		
Function	Polling call back function for print & eject in continuous reading Only for SR-8000HYBRID		
	BOOL WINAPI SkDv_PollingPrintEject(SkDvHandle hSkDevice,		
Prototype		CONTFEED_CALLBACK fnContFeedCallBack,	
	LPVOID IpPa	arameter)	
	hSkDevice	Set the pointer to receive the Device controll handle	
Parameter	fnContFeedCallBack	Set the call back function	
	IpParameter	Set the parameter to feed call back function	
Dotum	TRUE	Successful (sent print & eject direction)	
Return	FALSE	Failure (Not sent print & ejet direction)	
	By call this function, call call-back for print/eject specified by parameter from this function		
	when mark data and barcode data have been received.		
	In its call-back function, it is necessary to write a code that judges data and specify		
	print/eject. Reading operation is performed continuously, so processing must have been		
	completed in short time.		
Description	(Refer to the command reference regarding the processing time)		
	It must not be used SkDv_RegistPrintEjectCallback function together.		
	Use when it is not compliant to multi thread like VB6.0.		
	If calling this function is delayed, time to process in call-back function shortens, so it is		
	necessary to call it frequently. It is also necessary to process data that has been read.		

5.8.7. SkDv RegistPrintEjectCallback

. OKD T_ROG	SkDv_RegistFilltEjectCaliback			
Function	Registering call back function for print & eject in continuous reading Only for SR-8000HYBRID			
Prototype	BOOL WINAPI SkDv_RegistPrintEjectCallback(SkDvHandle hSkDevice, FN_SK_DV_CONTFEED_CALLBACK fnContFeedCallBack, LPVOID lpParameter)			
Parameter	hSkDevice fnContFeedCallBack	Set the pointer to receive the Device controll handle Set the call back function		
	lpParameter	Set NULL to release the registration Set the parameter to feed call back function		
Return	TRUE Successful FALSE Failure			
Description	Register the function if data from OMR is received. In its call-back function, it is necessary to write a code that judges data and specify print/eject. Reading operation is performed continuously, so processing must have been completed in short time. (Refer to the command reference regarding the processing time) This function is only for registration but not to call back. If mark data and barcode data is received during continuous reading, it call back from worker thread. It can't be used with SkDv_PollingPrintEject function. It needs to be designed in thread-safe, since it is multi-thread function.			

5.8.8. FN_SK_DV_CONTFEED_CALLBACK

Function	Call back function to save image data file			
Function	Only for SR-8000HYBR	Only for SR-8000HYBRID		
	void (CALLBACK *FN_SK_DV_CONTFEED_CALLBACK)(
Drototypo	int iSheetNun	nber,		
Prototype	SK_DV_REC	PRINT_EJECT* pPrintEject,		
	LPVOID lpParameter)			
	iSheetNumber	The number of reading page is folded in. It can be used as		
		necessary.		
Develope	pPrintEject	Set the direction to OMR in the print & eject structure, and finish call back function		
Parameter				
		Refer to 「5.4.30SK_DV_REQ_PRINT_EJECT」		
	IpParameter	The parameter set by user in "5.8.6SkDv_PollingPrintEject"/"		
	5.8.7SkDv_RegistPrintEjectCallback" is folded in			
Return	Non			
Description	A prototype of the callback function used for Continuous reading			

5.8.9. SkDv_GetContDataMarks_Now

Function	Get mark data to judge print & eject direction in continuous reading Only for SR-8000HYBRID		
Prototype	BOOL WINAPI SkDv_GetContDataMarks_Now(SkDvHandle hSkDevice,		
Trototype	int iFace, SK_DV_MARK_INFO *pMarkResult, char* pMarks, int* piBufSize)		
Parameter	Refer to SkDv_GetContDataMarks		
Return	TRUE Successful		
Return	FALSE	Failure	
December	Can be used in call back function for print & eject		
Description	Refer to SkDv GetContDataMarks		

5.8.10. SkDv_GetContDataBarcodesCount_Now

Function	Get number of barcode to judge print & eject direction in continuous reading			
T direction	Only for SR-8000HYBRID			
Dunt at man	BOOL WINAPI SkDv_G	etContDataBarcodesCount_Now(SkDvHandle hSkDevice,		
Prototype	int* piReadCount)			
Parameter	Refer to SkDv_GetContDataBarcodesCount			
Return	TRUE	Successful		
	FALSE	Failure		
Decemention	Can be used in call back function for print & eject			
Description	Refer to SkDv_GetContDataBarcodesCount			

5.8.11. SkDv_GetContDataBarcodesData_Now

Function	Get barcode data to judge print & eject direction in continuous reading Only for SR-8000HYBRID		
Prototype	BOOL WINAPI SkDv_GetContDataBarcodesData_Now(SkDvHandle hSkDevice,		
	int iIndex, char* pcBcType, char* pszBarcode, int* piDataLen)		
Parameter	Refer to SkDv_GetContDataBarcodesData		
Б.	TRUE	Successful	
Return	FALSE	Failure	
December	Can be used in call back function for print & eject		
Description	Refer to SkDv_GetContDataBarcodesData		

5.8.12. SkDv_ReqSetPanelUserEnable

Function	Set character to shows on the LCD display and prohibit operation by LCD buttons.				
Prototype	SkDvStatus SkDv_ReqSetPanelUserEnable(
Prototype	SkDvHandle l	nSkDevice, BOOL blEnable)			
	hSkDevice Set the pointer to receive the Device controll handle				
Parameter	blEnable	FALSE : Invalid. OMR controls LCD and panel switch.			
Falametei		TRUE : Valid. LCD and panel switch can controll by			
		application.			
	SKDV_STS_SUCCESS	S Succesful			
Return	Except above	Failure			
		(No device connected, or device is connecting)			
	"Panel remote setting [CMD:PC]" command is send to OMR.				
Description LCD panel information disappears but can set the characte		isappears but can set the characters of LCD display of OMR by			
	"Set Panel User String".				

5.8.13. SkDv RegGetPanelUserSwitch

Function	Get the state of the LCD panel button		
Drototuno	SkDvStatus SkDv_ReqGetPanelUserSwitch(
Prototype	SkDvHandle hSkDevice, DWORD* pdwSwitch)		
Parameter	hSkDevice Set the pointer to receive the Device cont		
Parameter	pdwSwitch	Set the pointer to store the condition of Panel switch	
	SKDV_STS_SUCCESS Succesful		
Return	Except above	ve Failure	
		(No device connected, or device is connecting)	
Description	" Panel remote set [CMD:PC]" command is send to OMR.		
Display character can		set "remote settings" function is enabled.	

5.8.14. SkDv_ReqSetPanelUserString

Function	Set character for LCD display		
Drototype	SkDvStatus SkDv_ReqSetPanelUserString(
Prototype	SkDvHandle h	nSkDevice, char* pPanelStr)	
Parameter	hSkDevice	Set the pointer to receive the Device controll handle	
Parameter	pPanelStr	Set the characters for LCD display of OMR(Max 40 characters)	
	SKDV_STS_SUCCESS Succesful		
Return	Except Above	Failure	
	(No device connected, or device is connecting)		
	"Panel remote set [CMD:PC]" command is send to OMR.		
Description	Display character can be set "remote settings" enabled.		
Description	The characters are set less than 40 characters to "pPanelStr," margins are show as space.		
	Exceeded characters are disregarded set over than 40 characters to the "pPanelStr",		

5.8.15. SkDv_ReqSetPirntFixString

Function	Set the character (fixed) for printer.		
Drototypo	SkDvStatus SkDv_ReqSetPrintFixString(
Prototype	SkDvHandle h	nSkDevice, char* pString)	
Parameter	hSkDevice	Set the pointer to receive the Device controll handle	
Parameter	pString Set the fixed printing string(MAX 20 characters)		
	SKDV_STS_SUCCESS	Succesful	
Return	Except Above	Failure	
		(No device connected, or device is connecting)	
	"Printer setting [CMD:PR]" command is send to OMR.		
Description	Font sizes etc. are set to "printer prints condition.		
	Exceed characters are disregarded when set over 20 characters "pString".		

5.8.16. SkDv_ReqSetContFeedPrint

Function	Set the print characters for continuous reading			
Prototype	SkDvStatus SkDv_ReqSetContFeedPrint (
Trototype	SkDvHandle hSkDevice, SK_CONT_FEED_PRN_OPT* pPrnOpt)			
Parameter	hSkDevice	Set the pointer to receive the Device controll handle		
Parameter	pPrnOpt	Set the pointer of Printing option which conditions are set		
	SKDV_STS_SUCCESS	Succesful		
Return Except Above Failure		Failure		
		(No device connected, or device is connecting)		
Description	Printer setting(CMD:PR) command is send to OMR			

5.8.17. SkDv_ReqContFeedSheet

.17. SkDv	_ReqContFeedSheet				
Function	Continuation reading is begin				
D	SkDvStatus SkDv_ReqContFeedSheet(
Prototype	SkDvHandle hSkDevice, DWORD dwReqData, int iErrReject)			eject)	
	hSkDevice	Set the poir	Set the pointer to receive the Device controll handle		
	dwReqData	Set the data			
	•		•	EED_REQ_NORMAL"	
Parameter	iErrReject		Set the direction error sheet happen		
	•	Set "SKDV_DISABLE(0)": mains paper eject or			
		_	,	select paper eject(rejecter)	
	SKDV_STS_SUCCESS	Succesful	. ,		
Return	Except Above	Failure			
			connected	, or device is connecting)	
	"Sheet continuous reading [CM				
	reading.	.5.01 00.11111	and 10 00m	to own, and start commusus	
	"Worker thread" is generates in	the buffer, an	d receive r	nark data automatically.	
	odwReqData				
	Constant		Value	Description	
	SKDV_CONT_FEED_REQ		0x0000	Normal Reading	
	SKDV_CONT_FEED_REG	Q_SHEET_1	0x6000	Sheet Size over 12 inches (wo	
	2INCHES_OVER			rkable to use sheet size settin g)	
	SKDV_CONT_FEED_REQ_SHEET		0x2000	Use sheet size setting	
	2INCHES_BELOW		0.,2000	Sheet Size shorter 7.4 inches	
	SKDV_CONT_FEED_REQ_SHEET_S HORT		0x3000	(Only for SR-8000HYBRID)	
	SKDV_CONT_FEED_REQ_PE_CMD		0x0800	Use print & eject command	
	SKDV_CONT_FEED_REQ_LATE_		0x0400	(Only for SR-8000HYBRID) Stop in case print & eject is N	
	OP		000400	G (Only for SR-8000HYBRID)	
	SKDV_CONT_FEED_REQ_L		0x0200	Print in case print & eject is N	
	NT SKDV_CONT_FEED_REC) ΙΔΤΕ REI	0x0100	G (Only for SR-8000HYBRID) Reject paper in case print & e	
	ECT	(_L/\ L_ \L0	000100	ject is NG	
Description				(Only for SR-8000HYBRID)	
	"Worker thread" is automatically	-	-		
	"SkDv_IsContFeedRunning" is				
	Do not call OMR and communi		-		
	The function which may be use	d while a work	ker thread o		
	Constant SkDv_ReqContFeed_Cand	ام	Description Request cancel Continuous reading		
	SkDv_ReqContreed_Cancer SkDv_IsContFeedRunning		Check operation of continuous reading		
	SkDv_IsContFeedDataFini	shed	Check Finish contunious reading		
	SkDv_ExistDoneData			on reading un-acquiring.Data	
	SkDv_GetContFeedCount		authentica Get the rea	ading status (the number of	
			sheets) by continuous reading		
	SkDv_PrepareContData			e continuous reading data	
	SkDv_GetContDataNumbe		Get the cu reading	rrent data number of continuous	
	SkDv_GetContDataMarks			ark data of continuous reading	
	SkDv_GetContDataWindov	vs	Get the wi	ndow data of continous reading	
	SkDv_GetContDataBarcod			rcode data of continuous reading	
	SkDv_GetContDataSheetR SkDv_GetContFeedResult		Get the sheet result of continuous reading		
	SkDv_GetContFeedResult		Get the result of continuous reading		

5.8.18. SkDv_ReqContFeed_Cancel

Function	Request stop(Cancel)continuous reading	
Prototype	SkDvStatus SkDv_ReqContFeed_Cancel(SkDvHandle hSkDevice)	
Parameter	hSkDevice	Set the pointer to receive the Device controll handle
	SKDV_STS_SUCCESS	Succesful
Return	Except Above	Failure
		(No device connected, or device is connecting)
	"Canceling operations [CMD:CA]" command is send to OMR,	
Description	Paused continuous reading.	
	Continuous reading may not complete even return operation.	
	Operating conditions car	n be check by "SkDv_IsConuFeedRunning"

5.8.19. SkDv_IsContFeedRunning

Function	Check operation of continuous reading	
Prototype	BOOL SkDv_IsContFeedRunning(SkDvHandle hSkDevice)	
Parameter	hSkDevice	Set the pointer to receive the Device controll handle
Poturn	TRUE	Thread for continuous reading is operating
Return	FALSE	Thread for continuous reading is completed
Description	This command can confirm "worker thread" is operating under execute" SkDvStatus SkDv_ReqContFeedSheet". "Worker thread" is not end immediately execute "SkDvStatus SkDv_ReqContFeed_Cancel".	

5.8.20. SkDv_lsContFeedDataFinished

Function	Confirm continuous reading is finished.	
Prototype	BOOL SkDv_IsContFeedDataFinished(SkDvHandle hSkDevice)	
Parameter	hSkDevice	Set the pointer to receive the Device controll handle
Return	TRUE	Thread for continuous reading is operating
Return	FALSE	Thread for continuous reading is completed
Description	received by "SkDv_Pre "continuation read requ TRUE response is retur	firm "Worker thread" finished completely, also all data can be pareContData". The worker thread currently performed with the ests" function is completed, rned when worker thread completely finished by ning" and and all the data is erased from the "

5.8.21. SkDv_ExistDoneData

Function	Confirm continuous reading data is stored.	
Prototype	BOOL SkDv_ExistDoneData(SkDvHandle hSkDevice)	
Parameter	hSkDevice	Set the pointer to receive the Device controll handle
Potura	TRUE	With Continuous reading data
Return	FALSE	Without Continuous reading data
Description	The continuation reading data which is stored by "worker thread" that executed by "SIDv_ReqContFeedsheet"is exists in this library. It may return False when continuation reading data has not been stored even worker thread active.	

5.8.22. SkDv_GetContFeedCount

Function	Get the current situation total number of sheets	
Drototuno	SkDvStatus SkDv_GetContFeedCount(
Prototype	SkDvHandle hSkDevice, SK_CONT_FEED_COUNT* pContFeedCount)	
Doromotor	hSkDevice	Set the pointer to receive the Device controll handle
Parameter	pContFeedCount	Set the pointer to store the current situation of number of sheets
	SKDV_STS_SUCCESS	Succesful
Return	Except above	Failure
		(No device connected, or device is connecting)
Description	Get the current situation total number of sheets read executed "SkDvReq_contFeedSheet"	

5.8.23. SkDv_PrepareContData

Function	Prepare to receive the data "worker thread" received	
Prototype	SkDvStatus SkDv_PrepareContData(SkDvHandle hSkDevice)	
Parameter	hSkDevice	Set the pointer to receive the Device controll handle
	SKDV_STS_SUCCESS	Response returns reading one sheet in continuation reading
Return	Except above	Failure
		(No device connected, or device is connecting)
	Prepares to receive the data "Worker thread" received. Continuous reading data is not	
Description	stored, it keeps stand by till receive the data,	
	When continuation readingned data is not stored yet, it stands by within this function until a	
	worker thread receives data.	

5.8.24. SkDv_GetContDataNumber

Function	The current data number (number of sheets) of continuation reading data is acquired.		
Prototype	int SkDv_GetContDataNumber(SkDvHandle hSkDevice)		
Parameter	hSkDevice	hSkDevice Set the pointer to receive the Device controll handle	
	0	The value after performing "SkDv_PrepareContData"	
Return	Except above	The value "SkDv_PrepareContData".	
		(total read number of sheets +1)	
	A return value will be set to 0 to execute "SkDv_GetContDataNumber " after execute		
Description	"SkDv_ReqContFeedSheet".		
	Count is up each execute "SkDv_PrepareContData", and proceed "Total read number of		
	sheets +1".		

5.8.25. SkDv_GetContDataMarks

Function	Get the mark data prepared by "Sk_DvPrepareContData"	
	BOOL SkDv_GetContDataMarks(
Prototype	SkDvHandle	hSkDevice, int iFace, SK_DV_MARK_INFO *pMarkResult,
	char* pMarks	s, int* piBufSize)
	hSkDevice	Set the pointer to receive the Device controll handle
	iFace	Set Front side or Back side
	pMarkResult	Set the address to store the mark data.
		Refer to "SK_DV_MARK_INFO".
Parameter	pMarks	Set the address of buffer to store Mark data. Mark data is stored
i alametei		between 0 – 16 by each bytes. Marked data is not stored when
		NULL is set.
	piBufSize	Set the buffer size to store the mark data. Store the mark d
		ata into buffer set by pMarks. The appropriate buffers size i
		s stored after piBufSize is set.
Return	TRUE	Succesful
	FALSE	Failure (No Data or result is not normal)
Description	Get the mark data prepa	ared by "Sk_DvPrepareContData".Content are the same as a
	"SkDv_ReqGetMarks".	

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5.8.26. SkDv_GetContDataBarcodes

Function	Get barcode data prepared by SkDv_PrepareContData	
Prototype	BOOL SkDv_GetContDataBarcodes(SkDvHandle hSkDevice, SK_DV_BARCODE_RESULT *pBarcodeResult, char* pBarcodes, int* piBufSize)	
	hSkDevice pBarcodeResult	Set Device controlling handle Set the address of Structure to fold barcode infomation.
Parameter	pBarcodes	Set the address of buffer to fold barcode data. Barcode data is lined "barcode type", "the number of byte by each barcode data"
	piBufSize	Set the byte size of buffer to fold barcode data. Folding data into the buffer appointed in pBarcodes up to appointed size. After execution, the needed buffer size will be stored.
Return	TRUE	Successful
Retuin	FALSE	Failure
Description	Get barcode data prepared by SkDv_PrepareContData. Barcode data is lined "barcode type", "the number of byte by each barcode data" and separated with "Comma (,)" To execute the data, "SkDv_GetContDataBarcodesCount" to get the number of Barcodes, and "SkDv_GetContDataBarcodesData" to get the each barcode data.	

5.8.27. SkDv_GetContDataBarcodesCount

Function	Get the number of Barcode prepared by SkDv_PrepareContData		
Drototypo	BOOL SkDv_GetCo	BOOL SkDv_GetContDataBarcodesCount(
Prototype	SkDvHandle hSkDevice, int* piReadCount)		
	hSkDevice	Set Device controlling handle	
Parameter	piReadCount	Set the address of Structure to fold the number of barcode i	
		nformation.	
Dotum	TRUE	Successful	
Return	FALSE	Failure	
Description	Get the number of Barcode prepared by SkDv_PrepareContData		
Description	Same as "pBarcodeResult->iCount" by SkDv_GetContDataBarcodes		

5.8.28. SkDv_GetContDataBarcodesData

Function	Get each barcode data prepared by SkDv_PrepareContData	
Prototype	BOOL SkDv_GetContDataBarcodesData(SkDvHandle hSkDevice, int iIndex, char* pcBcType, char* pszBarcode, int* piDataLen)	
	hSkDevice	Set Device controlling handle
	iIndex	Set the index number of Barcode from "1"
	рсВсТуре	Set the address of Structure to fold the kind of barcode set by
		"ilndex"
Parameter	pBarcode	Set the address of Structure to fold the barcode data set by
1 didiliotoi		"iIndex"
	piBufSize	Set the buffer size to fold the barcode data set by "iIndex"
		Folding data is into the buffer appointed in pBarcodes up to
		appointed size.
		After execution, the needed buffer size will be stored.
Return	TRUE	Successful
	FALSE	Failure
Description	Get each barcode data prepared by SkDv_PrepareContData.	
Description	Each data are same as get by "SkDv_GetContDataBarcodes"	

5.8.29. SkDv_SaveContJpegImage

	CKD 1_Cu 1 C C C C C C C C C C C C C C C C C C		
Function	Save prepared JPEG image data in the appointed file name		
	BOOL WINAPI SI	downward	
Prototype	SkDvHandle	hSkDevice,	
	int iFace, char* pszFilename)		
	hSkDevice	Set the pointer to receive the Device controll handle	
Parameter	iFace	Appoint face of JPEG image to save	
	pszFilename	Specify the JPEG file name to save in full path	
	TRUE	Successful	
return	FALSE	Failure	
		Parameter error or no data	
	To save JPEG image prepared by the function		
Description	Can't be used to convert other format except JPEG, to cut out image or rotate image		
	Note that resolution info is not included in the JPEG file		

5.8.30. SkDv_GetContDataSheetResult

Function	Get the mark data prepared by SkDv_PrepareContData	
Duratati in a	BOOL SkDv_GetContDataSheetResult(
Prototype	SkDvHandle hSkDevice, SK_SHEET_RESULT *pSheetResult)	
Parameter	hSkDevice	Set Device controlling handle
	pSheetResult	Set the address of Structure to fold sheet result
Return	TRUE	Successful
Return	FALSE	Failure
Description	Get the mark data	

5.8.31. SkDv_GetContFeedResult

Function	Get the continuous read result	
Prototype	BOOL SkDv_GetContFeetResult(SkDvHandle hSkDevice, SK_CONT_FEED_RESULT *pContFeedResult)	
Doromotor	hSkDevice	Set Device controlling handle
Parameter	pContFeedResult	Set the address of Structure to fold read result
Return	TRUE	Successful
Return	FALSE	Failure
Description	Get the continuous read result	

5.9. API function - Option

5.9.1. SkDv_GetBcrConf

Function	Get the reading condition of barcode stored into library.	
	(Barcode reading for SR-	3500 series)
Prototype	SkDvStatus SkDv_GetBcrConf (
Fiolotype	SkDvHandle h	SkDevice, SK_DV_OPT_BCR_CONF* pBcrConf)
	hSkDevice	Set Device controlling handle
Parameter	pBcrConf	Set the address of Structure to fold reading condition of b
		arcode
Return	SKDV_STS_SUCCESS	Successful
Return	Except above	Failure
	Get the reading condition of barcode stored into library. This condition is stored into	
Description	"pBcrConf". Not connect with Device.	
	Call "SkDv_ReqInit" or "S	kDv_ReqGetBcrConf" to get the setting into device

5.9.2. SkDv_SetBcrConf

Function	Set the barcode reading s	setting into library.
Function	(Barcode reading for SR-3500 series)	
Drototuno	SkDvStatus SkDv_SetBcrConf (
Prototype	SkDvHandle h	SkDevice, SK_DV_OPT_BCR_CONF* pBcrConf)
	hSkDevice	Set Device controlling handle
Parameter	pBcrConf	Set the address of Structure to fold reading condition of b
		arcode
Return	SKDV_STS_SUCCESS	Successful
Retuin	except above	Failure
	Device information store into library. Connect with device and store into library	
	not get the device information.	
Description	Check barcode setting set by "pBcrConf" and response error accordingly.	
	If not have any error, store the barcode reading setting into library.	
	This setting can be set int	to device to execute "SkDv_ReqSetBcrConf"

5.9.3. SkDv_GetBcrConfEx

Function	To get condition of barcode reading saved in the library Barcode reading for SR-8000HYBRID	
Prototype	SkDvStatus SkDv_GetBcrConfEx (SkDvHandle hSkDevice, SK_DV_OPT_BCR_CONF_EX* pBcrConfEx)	
Parameter	hSkDevice pBcrConfEx	Appoint variable pointer to get device handler opened Appoint structure pointer to fold the condition of barcode reading
Return	SKDV_STS_SUCCESS Other than above	Successful Failure
Description	The condition of barcode reading to get is the one held in this library Fold the condition of barcode reading in the libary into parameter pBcrConfEx No communication with device Call the function of SkDv_ReqInit or SkDv_ReqGetBcrConf in advance, if you need to get the condition set in the device like immefiately after starting-up	

5.9.4. SkDv_SetBcrConfEx

Function	Set the condition of barco	de reading in the library	
Function	Barcode reading for SR-8000HYBRID		
Duratata un a	SkDvStatus SkDv_SetBcrConfEx (
Prototype	SkDvHandle h	SkDevice, SK_DV_OPT_BCR_CONF_EX* pBcrConfEx)	
	hSkDevice	Appoint variable pointer to get device handler opened	
Parameter	pBcrConfEx	Appoint structure pointer to fold the condition of barcode	
		reading	
Return	SKDV_STS_SUCCESS	Successful	
Return	Other than above	Failure	
	Communicate with device and fold the information into the library if it is not obtained		
	Return error if value is incorrect after checking the condition of barcode reading designated		
	in parameter pBcrConfEx to the device information		
Description	Fold the condition of barcode reading in the library if there is no error.		
	The condition of barcode reading can be set in the device by communication by executing		
	reading request or function of SkDv_ReqSetBcrConf		

5.9.5. SkDv_ReqGetBcrConf

Function	Request connect SR11000 to get the reading condition of Barcode	
Prototype	SkDvStatus SkDv_ReqGetBcrConf (SkDvHandle hSkDevice)	
Parameter	hSkDevice Set Device controlling handle	
5 .	SKDV_STS_SUCCESS	Successful
Return	except above	Failure
Description	Connect to SR11000 to	get the reading condition of Barcode, and store it into library.
Description	Refer to command refer	ence. Command [BC]

5.9.6. SkDv_ReqSetBcrConf

Function	Request connect SR11000 to set the reading condition of Barcode	
Prototype	SkDvStatus SkDv_ReqSetBcrConf (SkDvHandle hSkDevice)	
Parameter	hSkDevice	Set Device controlling handle
Datama	SKDV_STS_SUCCESS	Successful
Return	except above	Failure
Description	Set reading condition of Barcode to device which stored in the library	
Description	Command line is same as 「SkDv_ReqGetBcrConf」	

5.9.7. SkDv_ReqGetBcrDataCount

Function	Get the number of barcode read	
Prototype	SkDvStatus SkDv_ReqGetBcrDataCount(SkDvHandle hSkDevice, int* piReadCount)	
Parameter	hSkDevice	Set Device controlling handle
	piReadCount	Set the address to store the barcode data
	SKDV_STS_SUCCESS	Successful
Return	Except above	Failure
Description	Use "request command barcode" "BD" to get the number of Barcode read correctly.	
	It can not get the numbe	r of barcodes when continuously reading

5.9.8. SkDv_ReqGetBcrData

ot Boi Butu	
Get the (specified) barcode data	
SkDvStatus SkDv_ReqGetBcrData(SkDvHandle hSkDevice,	
int ilndex, cha	r* pcBcType, char* pszBarcode, int* piDataLen)
hSkDevice	Set Device controlling handle
ilndex	Set the index number of Barcode
рсВсТуре	Set valiable number for store the kinds of barcode type set
	by "iIndex"
pszBarcode	Set the address to store the barcode data set by "ilndex"
piDataLen	Set the size of buffer to store the barcode data set by "iInd
	ex"
	Data is stored in the buffer set "pszBarcode"till the buffer si
	ze
	After execution, needed buffer size is stored.
SKDV_STS_SUCCESS	Successful
Except above	Failure
Use "request command	barcode" "BD" to get the number of Barcode read correctly.
It can not get the numbe	r of barcodes when continuously reading
	SkDvStatus SkDv_Rec int ilndex, cha hSkDevice ilndex pcBcType pszBarcode piDataLen SKDV_STS_SUCCESS Except above Use "request command

5.9.9. SkDv_GetPrinterConf

Function	Get printer setting from Library	
Prototype	SkDvStatus SkDv_GetPrinterConf(
		hSkDevice, SK_DV_OPT_PRN_CONF* pPrnConf)
Parameter	hSkDevice	Set Device controlling handle
i alametei	pPrnConf	Set the pointer to store the printer setting
Return	SKDV_STS_SUCCESS	Successful
Retuin	Except above	Failure
	Printing condition is storing in the Library.	
Description	These printing condition is stored "pPrnConf"	
Description	Call "SkDv_ReqInit" or "SkDv_ReqGetPrinterConf" in case want to get these condition in	
	device.	

5.9.10. SkDv_SetPrinterConf

Function	Set printer setting into library		
Drototus	SkDvStatus SkDv_Set	SkDvStatus SkDv_SetPrinterConf(
Prototype	SkDvHandle hSkDevice, SK_DV_OPT_PRN_CONF* pPrnConf)		
Parameter	hSkDevice	Set Device controlling handle	
	pPrnConf	Set the pointer stored printer setting	
SKDV_STS_SUCCESS Successful		Successful	
Return	Except above	Failure	
Description	Set the printing condition into middleware.		

5.9.11. SkDv_ReqPrintString

Function	Set the print string into OMR device	
Prototype	SkDvStatus SkDv_ReqPrintString(SkDvHandle hSkDevice, char* pString)	
Parameter	hSkDevice	Set Device controlling handle
	pString	Set the address to want to print character
Return	SKDV_STS_SUCCESS	Successful
	except above	Failure
Description	Set character to print	

5.9.12. SkDv_ReqGetPrinterConf

Function	Get printer setting	
Prototype	SkDvStatus SkDv_ReqGetPrinterConf(SkDvHandle hSkDevice)	
Parameter	hSkDevice	Set Device controlling handle
Poturo	SKDV_STS_SUCCESS	Successful
Return	except above	Failure
Description	Get printing condition	

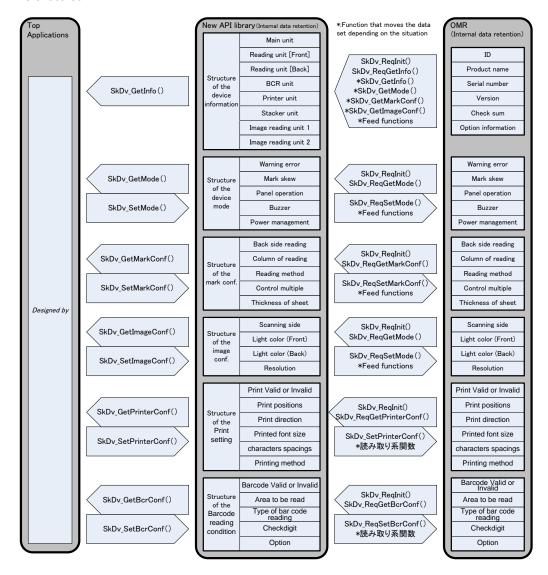
5.9.13. SkDv_ReqSetPrinterConf

Function	Set printer setting	
Prototype	SkDvStatus SkDv_ReqSetPrinterConf(SkDvHandle hSkDevice)	
Parameter	hSkDevice	Set Device controlling handle
Return	SKDV_STS_SUCCESS	Successful
	except above	Failure
Description	Set printer setting.	

5.10. Setting and Data

5.10.1. Data Transfer by executed API

Structure of the Device information / Structure of device Mode / Structure of the mark conf / Structure of the image conf / Structure of the Print setting / Structure of the Barcode setting would be retented in New API library / OMR, and Top applications depends on the structure of the applications. Each data transferred by the executed API



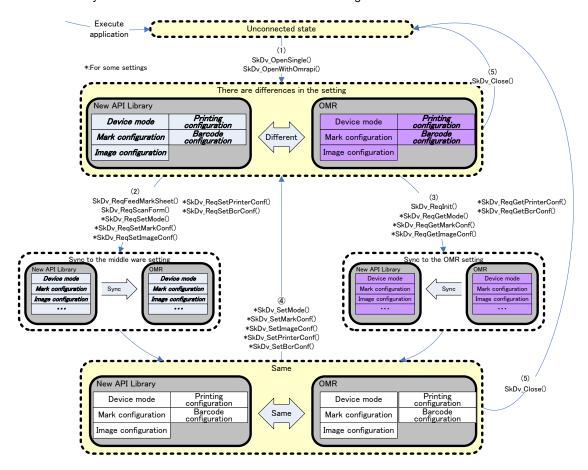
Call "SkDv_GetInfo", then New API would receive the device information by OMR and response to the Top applications.

Also, New API can set Device mode setting or Image conf setting automatically by Feed functions (ex: SkDv_Req Set Mode) after set the setting by "SkDv_SetMode".

Note: If New API uses with Old API, New API may be change the setting old API set. Please refer 5.6.2 for the details

5.10.2. Change Settingdata by executed API

5 kinds of setting data (device Mode / mark conf / image conf / print conf /barcode conf) would be keep in New API library / OMR buffer both. There's different in the setting executed functions.



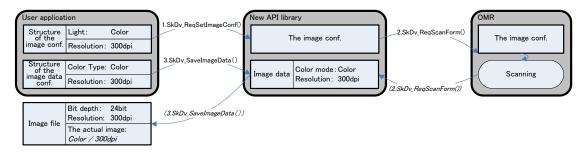
	Executed API	Description
1	SkDv_OpenSingle() SkDv_OpenWithOmrapi()	When use these functions, the contents of API library has the default, and OMR has the setting retented (Difference)
2	SkDv_ReqFeedMarkSheet() SkDv_ReqScanForm() *SkDv_ReqSetMode() *SkDv_ReqSetMarkConf() *SkDv_ReqSetImageConf() *SkDv_ReqSetPrinterConf() *SkDv_ReqSetBcrConf()	When execute feed functions, Setting keep in New API library would send to the OMR. The setting of OMR and API are corresponded. Additionally, setting keeps in New API library forward to the OMR to be execute enhance functions (ex:"SkDv_ReqSetMode" etc)
3	SkDv_ReqInit() *SkDv_ReqGetMode() *SkDv_ReqGetMarkConf() *SkDv_ReqGetImageConf() *SkDv_ReqGetPrinterConf() *SkDv_ReqGetBcrConf()	When execute "SkDv_ReqInit" functions, Setting keeps in OMR would send to the New API Library. Then, the setting of OMR and API are corresponded. Additionally, setting keeps in OMR send to the New API Library to be execute enhance functions(ex: "SkDv_ReqGetMode" etc)
4	*SkDv_SetMode() *SkDv_SetMarkConf() *SkDv_SetImageConf() *SkDv_SetImageConfEx() *SkDv_SetPrinterConf() *SkDv_SetBcrConf() *SkDv_SetBcrConfEx()	Contents between OMR and New API would be separated to call functions (ex: "SkDv_SetMode" etc) to change the contents of New API.
5	SkDv_Close()	When execute this functions, the contents of New API would be cleared.

^{*:} For some settings.

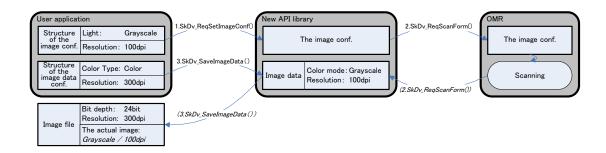
5.10.3. Image setting and saved Image file

This chapter image unit mounting machine is intended.

Image data would be stored in the new API library. It should be set same DPI and color setting front side image and back side image. If set Color / 300dpi image to get, this image can be changed to low resolution DPI, Grayscale, Black / White while use by "SkDv_SaveImageData".



But set Grayscale /low DPI image to get, actual image is low DPI image. Then resolution is low level even set "300dpi" by "SkDv_SaveImageData"



5.11. Examples

5.11.1. In case use NEW API

- Enable the communication with OMR by Opening operating Function (SkDv_OpenSingle).
- 2.For Initialization ("SkDv_ReqInit"), various setting (Operation mode / Setting for Mark reading / Setting for Image reading) are get from OMR, and stored into API Library.

 The setting of OMR & Library is to be corresponded to each other.
- 3. In case of changing the Operation mode, the values are to be stored into Structure of Operation mode, and handed to Setting Function of Operation mode ("SkDv_SetMode").

 At this time, Operation mode is stored into Library.
- 4. In case of change the condition of Mark reading, the values are to be stored into structure of Mark setting condition, and handed to setting function for setting of mark condition ("SkDv_SetMarkConf"). At this time, Mark condition is stored into Library.
- condition, the values are to be stored into structure of setting of Image condition, and handed to setting for Image condition ("SkDv_SetImageConf").

 At this time, Image condition is stored into Library.

5. In case of change the Image reading

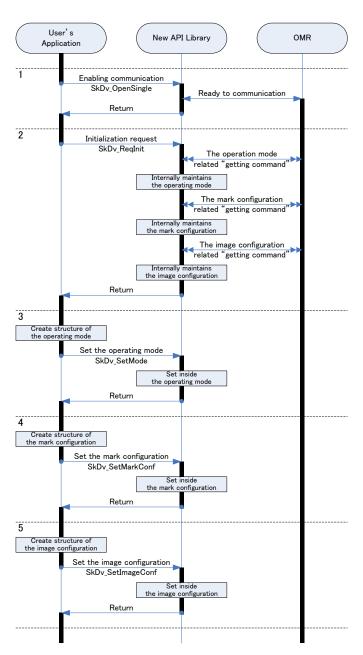


Fig. 5 New API library control(1)

6. Calling the Demand Function ("SkDv_ReqscanForm") for Reading the sheets, Library operates the setting by each command in case the Operation mode / Mark condition / Image condition are changed.

Then, Sheets reading is operated [NS] and the Image data is to be stored into Library.

- 7. For get the Mark data, prepare the buffer to receive Mark data and the buffer to store Mark data, and call ("SkDv_ReqGetMarkData") to get Mark data. Library will respond the data given by mark density [MD].
- 8. For save Image into the file, set the value into Image data condition / Structure of Image file condition, and call ("SkDv_SaveImageData") for save Image data file.

(After the second sheet, the procedure will be repeated from "6" referred on the right chart.)

(Change operation setting can be done from "3" referred on the right chart.)

9. To finish Controll OMR, Call the Function("SkDv_Close") to Finish.

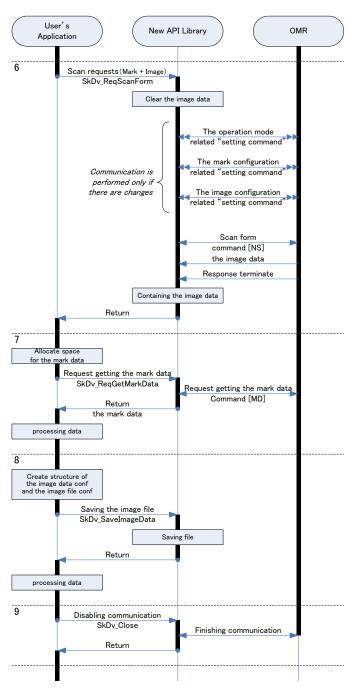


Fig. 6 New API library control(2)

5.11.2. Save Image Data by other threads

This chapter image unit mounting machine is intended.

New API library has additional function to save the image file (jpg, bmp...) by several threads due to improve the capability about DLL Library. Hereinafter is explained how to use it and how to work of it. %It's necessary to use multi threads or callback function while use this function.

1.Call "SkDv_ReqReadingForm" to Reading Requests A), even capture

image or not capture image.

Captured Image Data (Front and Back) stored in the buffers.

2. Call "SkDv_SaveImageDataThread" to be saved the image data into another threads.

"SkDv_SaveImageDataThread" has functions to transfer buffers (stored image) for another thread, and make new additional image buffers to fold for new image data.

After create new image buffers, "SkDv_SaveImageDataThread" create new threads and handle the contents of buffers to them.

At this time, Image data is still in buffer and not be saved yet.

 Captured Image data is proceeding saving in another threads, Then it can be call "SkDv_ReqReadingForm" for next sheet. API received the callback when finish saving the image data by another threads.

"SkDv_SaveImageDataThread" still keep standby till finish "another threads"

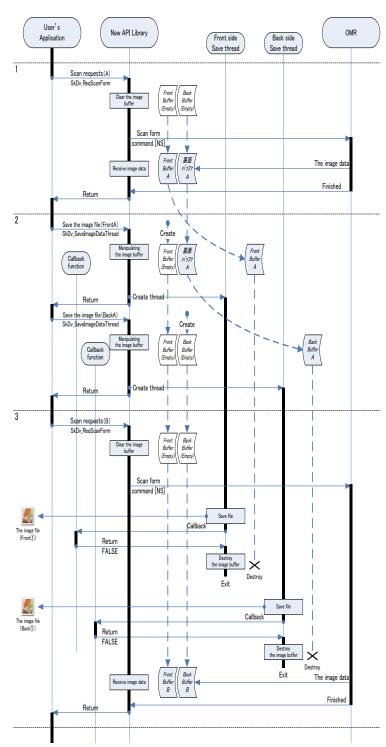


Fig. 7 Save Image file by other Threads

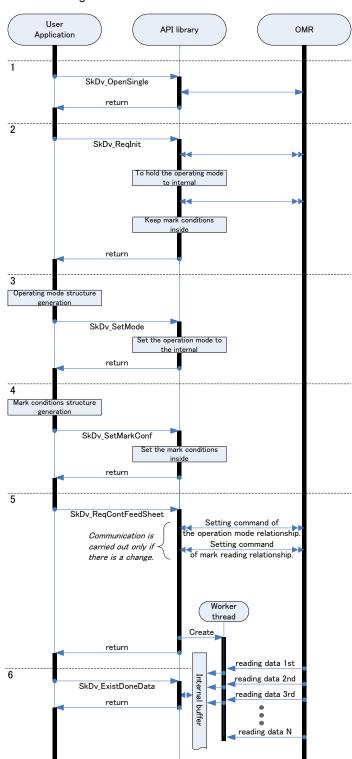
5.11.3. Read OMR form read without check the number of Timing Marks

This chapter is intended the products with continuous reading function.

- 1. Change into the state in which OMR and communication are possible with a startup function.
- 2. By the initialization requested function, acquisition of a mark reading setup, various mode of operation / various, various setup which are set as OMR is performed, and the contents are stored in a library.

This will be in the status where each settings are in agreement in OMR and a library.

- 3. In changing operation modes, each value is stored in an operation modes structure, and it passes an operation modes setting function by the argument. At this time, operation modes is stored in a library.
- 4. In changing conditions of mark-sensing, each value is stored in a mark condition structure, and it passes a marked setting function by an argument. At this time, mark condition are stored in a library.
- 5. In order to read a list, call a continuation read requests function.
 A library sets up with each command, when operation modes / mark condition are changed. Thereby, a setting of a library and OMR is in agreement.
 Then, a list is read with a continuation reading command and data is stored in an internals buffers.
- 6. In order to use data, it is necessary to perform a data present check function and to check that data exists.



- 7. In order to obtain marked data, a preparing function for data acquisitions is performed. If a preparing function for data acquisitions is performed, data is stored in a buffer in an order from the first read list.
- 8. The buffer which stores the mark information structure object and marked data for receiving marked data is prepared, and it obtains with a continuation reading marked data get function. A library returns the data received with the marked concentrations data requests commands.

The received marked data is processed.

- (6-8 is repeated after the 2nd sheet)
- 9. Perform a continuation reading result get functions for the check of the completion of continuation conveyance.
- 10. Call an end handling function for ending control of OMR, and end.

(For changing a setting, it carries out from 3)

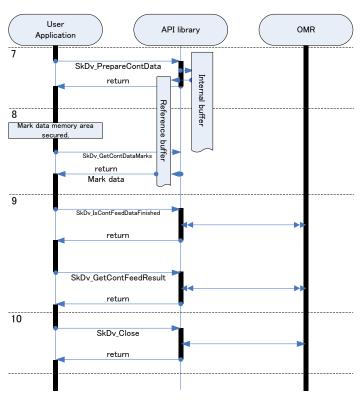


Fig. 8 Flow of processing which reads form, without checking TM number

5.11.4. Read OMR form(fixed the number of timing marks) without ID window

This chapter is intended the products with continuous reading function .

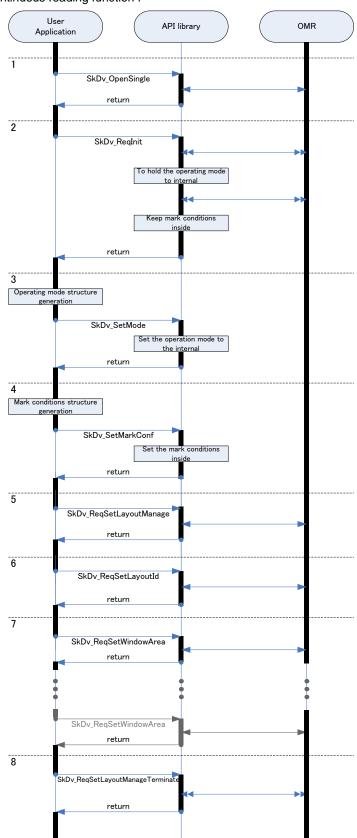
- 1. "SkDv_OpenSingle" to start up.
- 2. "SkDv_ReqInit" to request to get mark reading setup / image reading setup / operation mode setup... the contents are stored in a library.

This will to be corresponded with OMR and API library.

- Change operation modes,
 "SkDv_SetMode" to change the setting and stored into API library.
- Change Mark read setting,
 "SkDv_SetMarkConf" to change the setting and stored into API library.
- 5. Setup window,
- "SkDv_ReqSetLayoutManage" to set IDsetting which does not use ID.
- 6. It's necessary to
- "SkDv_ReqSetLayoutId" before to execute setup windows areas data. Not set this setting in case ID not use. ID setting is disregarded.

The number of timing marks is fixed this setting.

- 7. Setup a windows area.
- "SkDv_ReqSetWindowArea" to setup window setting. set up with identity data set function run immediately before.Only the number of the windows to be used is set up.
- 8. When ending a window setting, "SkDv_ReqSetLayoutManageTe rminate" function.



9. "SkDv_ReqContFeedSheet" to read the form.

Linrary change the seting when operation mode / mark setting are changed. Then, the setting between OMR and API library are corresponced. Data is stored in internals buffers.

- 10. In order to use data, it is necessary to use "SkDv_ExistDoneData" to confirm data exists.
- 11. In order to get mark data, use "SkDv_PrepareContData" prepare get mark data .
- 12. Use "SkDv_GetcontDataMarks" to get mark data
- (10-12 repeat after the 2nd sheet)
- 13. "SkDv_IsContFeedDataFinished" to confirm feed finished.
- 14. Call "SkDv_Close" to be finish. (To change setting, proceed from 3) (To change window set, proceed out from 5.).

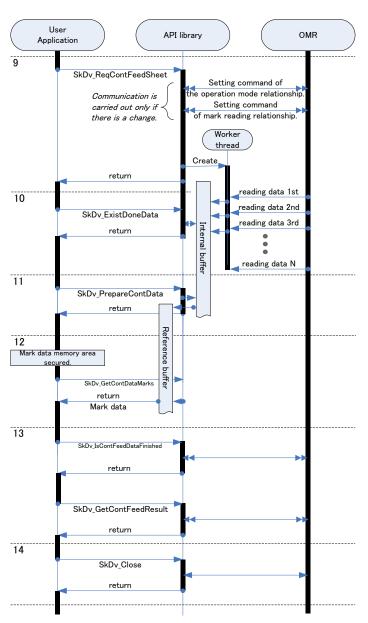


Fig. 9 Flow chart in case read one form(Fixed timing mark)without

<u>ID window</u>

5.11.5. Read several kinds of OMR forms(fixed timing marks) with ID Window

This chapter is intended the products with continuous reading function .

- 1. "SkDv_OpenSingle" to startup.
- 2. "SkDv_ReqInit" to request to get mark reading setup / image reading setup / operation mode setup... the contents are stored in a library.

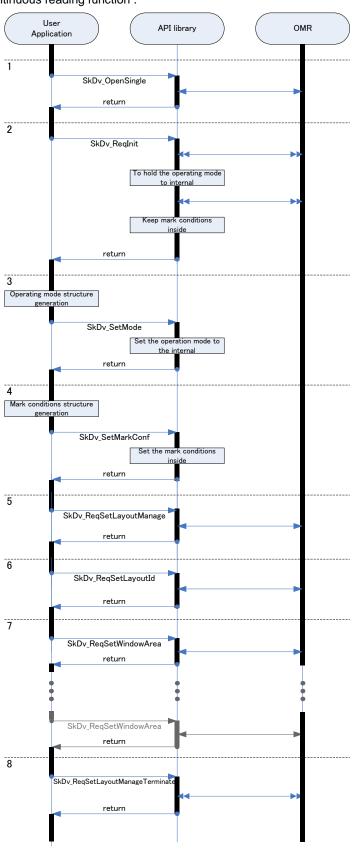
This will to be corresponded with OMR and API library.

- Change operation modes,
 "SkDv_SetMode" to change the setting and stored into API library.
- Change Mark read setting,
 "SkDv_SetMarkConf" to change the setting and stored into API library.
- To Setup window,
 "SkDv_ReqSetLayoutManage" to set IDsetting.
- 6. It's necessary to

"SkDv_ReqSetLayoutId" before execute setup windows areas data. Need to set the ID number use kinds of forms.

The number of timing marks is fixed this setting

- 7. Setup a windows area.
- "SkDv_ReqSetWindowArea" to setup window setting. set up with identity data set function run immediately before.Only the number of the windows to be used is set up.
- 8. When ending a window setting, "SkDv_ReqSetLayoutManageTer minate" function. (6 and 7 repeat to setup two or more ID, and, finally 8 is performed)



"SkDv_ReqContFeedSheet" to read the form.

Linrary change the seting when operation mode / mark setting are changed. Then, the setting between OMR and API library are corresponced. Data is stored in internals buffers.

- 10. In order to use data, it is necessary to use "SkDv_ExistDoneData" to confirm data exists.
- 11. In order to get mark data, use "SkDv_PrepareContData" prepare get mark data.
- 12. Use "SkDv_GetcontDataMarks" to get mark data
- (10-12 repeat after the 2nd sheet)
- 13. "SkDv_IsContFeedDataFinished" to confirm feed finished.
- 14. Call "SkDv_Close" to be finish.(To change setting, proceed from 3)(To change window set, proceed out from 5.). window are reset, only the number of required windows is repeated.

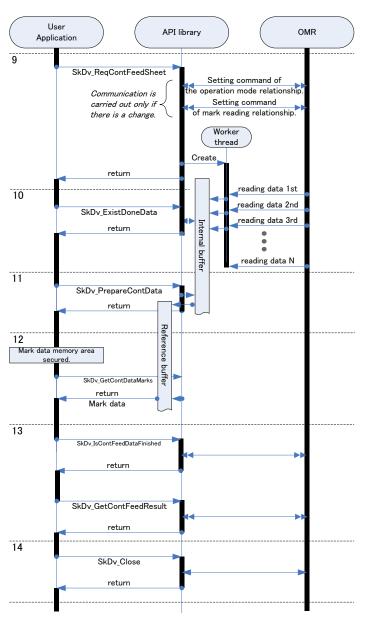


Fig. 10 Flow of processing which reads form which is several sorts as which TM number was decided with identifier window

5.11.6. Print & Eject during continuous reading (Only for SR-8000HYBRID)

Refer to "5.11.3 Read OMR form read without check the number of Timing Marks" for 1 to 4

- Register call back function to print & eject
- Call the function of continuous reading to read forms. In that case, use flag to use direction of print & eject.

Set library by each command in case operation mode/mark condition is altered. By this, setting of library and OMR is to be matched.

After that, read forms by command of continuous reading, and fold data into internal buffer.

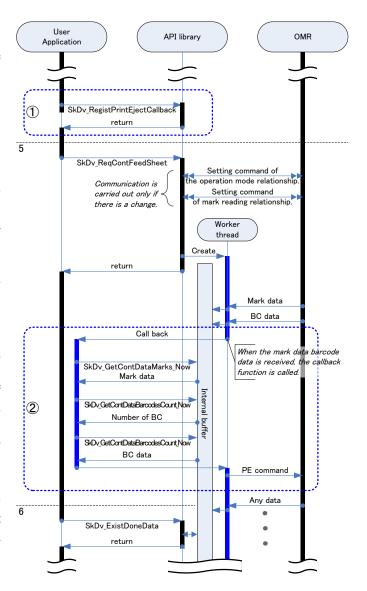
Call back function is called if mark data and barcode data is received.

Get data of reading forms by specific function of acquiring data in the call back function.

Set the operation in the parameter of print & egect direction, and finish call back function.

By this, API library directs OMR to print & eject.

6 and followings, see the previous section



5.11.7. Print & Eject during continuous reading (Only for SR-8000HYBRID)

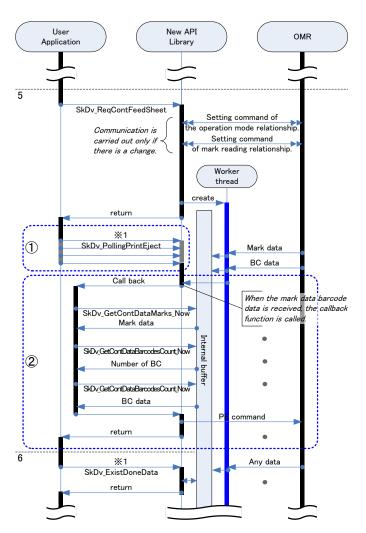
This is used for single thread program such as VB6.0 of not supporting muti thread.

Direction of print & eject is made in call back function. If calling this function is delayed, time to process in call-back function shortens, so it is necessary to call the function of SkDv_PollingPrintEject frequently.

And, it is also necessary to proceed read data, so need to design to call function of SkDv_PollingPrintEject frequently.

Refer to "5.11.3 Read OMR form read without check the number of Timing Marks" for 1 to 4

- ① Call back function is called if mark data and barcode data is received when the function of SkDv_PollingPrintEject is called to print & eject.
- ② Get data of reading forms by specific function of acquiring data in the call back function. Set the operation in the parameter of print & egect direction, and finish call back function.
 - By this, API library directs OMR to print & eject.
- *1:Need to design carefully considering that functions of SkDv_PollingPrintEject, SkDv_ExitstDoneData and acquiring continuous reading data are not processed alternately.



5.12. Printer setting

5.12.1. Procedure start printing

Printer or stacker mounting machine has printer function. Need to execute several API's same time to work .

- ① In case of set printing condition from the device, need to call "SkDv_ReqGetPrinterConf" and "SkDv_GetPrinterConf" to get printing condition.
- ② Set printing condition to "SK_DV_OPT_PRN_CONF".
- 3 Set printing condition to the device by "SkDv_SetPrinterConf" and "SkDv_ReqSetPrinterConf".
- ④ ~SR-6500 mode (Each sheet data transport to computer)~

After set printing characters call "SkDv_ReqPrintString" to set the setting to the device.

~SR-11000 mode(continuous feed to computer) ~

After set fixed characters, and call "SkDv_ReqSetPirntFixString" to set fixed characters into the device.

After set format of sequence number into "SK_CONT_FEED_PRN_OPT", and call "SkDv_ReqSetContFeedPrint" to set sequence number into the device. (Fixed character and sequence number are able to set independently.)

5 Printing start after paper feed order

~SR-6500 mode~

"SkDv_ReqFeedMarkSheet"

~SR-11000 mode~

"SkDv_ReqContFeedSheet"

5.12.2. Flow diagram for printer setting



5.12.3. Structure for Print setting

There are 2 types of structures for printing, one is "SK_DV_OPT_PRN_CONF" and another one is "SK_CONT_FEED_PRN_OPT"

[&]quot;SK_CONT_FEED_PRN_OPT" has setting for "Digit of sequence number", and "start number of sequence number".

Function that uses the structure						
	SkDv_ReqSetContFeedPrint					
Structure	Member	Description				
	iEnable	Set "printing" or "non printing"				
		[Print]: use print setting				
		[Non print] :disregard print setting				
	iStartPos	Set start position of printing. Start position can select				
		between 0.00mm and 355.0mm.				
		Print area settingThere's 3mm margin in the top side, so ctual				
		printing will start from 3.0mm even set 0.00mm				
SK_DV_OPT_PRN_CONF	iOrientation	Set printing direction. This function can select 0 degrees, or				
		180degrees rotated.				
	iFontSize	Set font size to print the character. Width of character ca				
		select between 3.2mm and 6.4mm.				
		(SR-11000mode is able to select width between 4.0 and				
		96.0mm)				
	iFontSpace	Set interval between character and character. Interval ca				
		n select between 0.8 and 92.0mm.				
	iPrintMode	Select "print after feed(read mark data)" or "print with fee				
		d read mark data)".				

Function that uses the structure					
SkDv_ReqSetContFeedPrint					
Structure Member Description					
iDigits Set the digits of sequence number (MAX 8digits)					
SK_CONT_FEED_PRN_OPT	iStartNumber	Set the start number for print sequence number			

[&]quot;SK_DV_OPT_PRN_CONF" has setting for "Printing or Non Printing", "Printing position", "Printing detection", "Size of printing character", and "Distance of character".

5.12.4. Setting of Character to Print

SR-11000 can print 42 characters in SR-6500 mode, (SR-11000 mode can print 20characters.

163 types of character print to mark sheet.

Print character can be set "SkDv_ReqPrintString" These characters are print our under

"SkDv_ReqFeedMarkSheet" for SR-6500 mode.

In case of use the SR-11000, use "SkDv_ReqContFeedPrint" and "SkDv_ReqSetPirntFixString"

Printable characters

	QTY	Characters	
Numeric	10	0123456789	
Capital	26	ABCDEFGHIJKLMNOPQRSTUVWXYZ	
Small letter	26	abcdefghijklmnopqrstuvwxyz	
Japanese Kana	55	アイウエオカキクケコサシスセソタチツテトナニヌネノハヒフヘホマミムメモヤユヨラリルレロワランァィウェオヤュョッ	
symbol	46	SP(space)!"#\$%&'()*+,/:;<=>?@[¥]^_ ■ {}~○×△□。「」、· ¨ °	

5.12.5. Print area setting

Start position can set between 0.0 and 355.0m. Start position is able to set each 1.0mm interval (0, 1.0, 2.0,...354.0, 355.0mm). However, there is a limitation of non printable area (3.0mm). Then, if set 0.0mm from this setting, actual printing will start from 3.0mm.

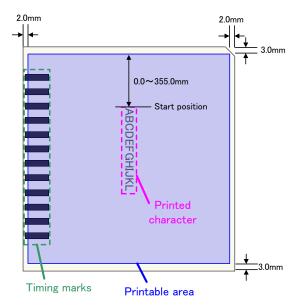


Fig 11 Printable area

In case adapt following 3 items, printing area will be different from standard area.

- ·Use printer unit.
- · Print out after read marked data
- ·Sheet length over 233.0mm

In this case print will be started following position(Sheet length – 230.0 mm).

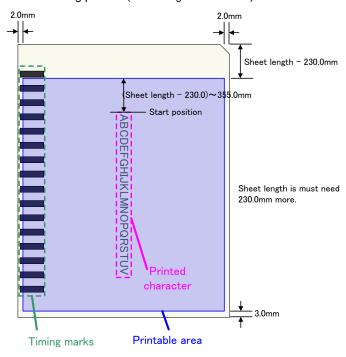
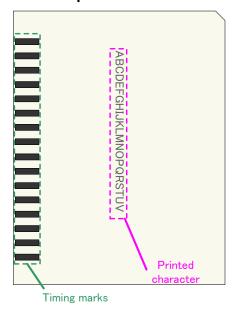


Fig 12 Printable area on specific condition.

5.12.6. Set print direction



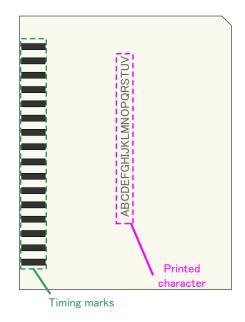


Fig 13 0 degrees

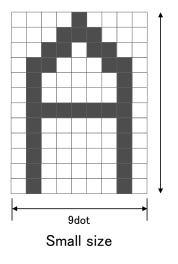
Fig 14 180 degrees

5.12.7. Character size

Width of character can select between 3.2 and 6.4mm.

(SR-11000 mode is able to set between 4.0 and 6.4mm)

The width of character can be increased in 0.8mm increments between 4.0 and 6.4mm.



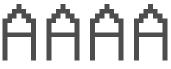
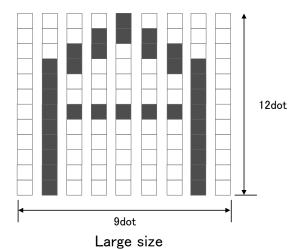


Fig 15 small print



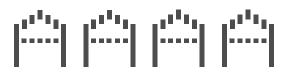
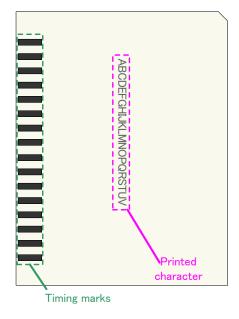


Fig 16 large print

5.12.8. Interval between characters

Set interval between characters. Interval can select between 0.8 and 92.0mm. The width of interval can be increased in 0.1mm increments between 4.0 and 92.0mm.



Printed character
Timing marks

Fig 17 small interval

Fig 18 wide interval

5.12.9. Print Fixed strings or Sequence number

Fixed strings or sequence number can be print on the continuous reading (SR-11000mode) examle) 3digits

$$... \rightarrow 998 \rightarrow 999 \rightarrow 000 \rightarrow 001 \rightarrow ...$$

Fixed strings can be set by "SkDv_ReqSetPirntFixString" Sequence numbercan be set by "SkDv_ReqSetContFeedPrint"

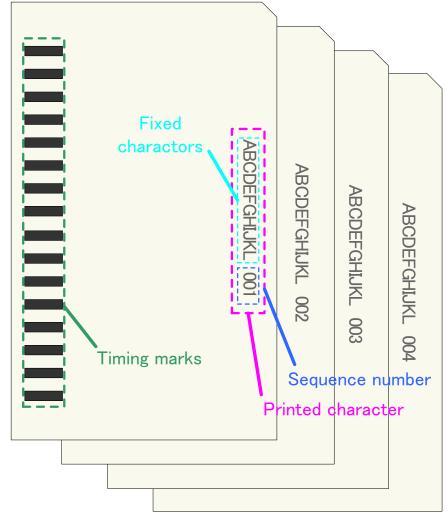


Fig 19 Fixed strings + Sequence number

5.13. Image Elongation Detection

Products equipped with the image reading function can detect the elongation of the image from which the sheet was read. (SR-3500 HYBRID, SR-6500 HYBRID)

Not available for SR-8000HYBRID series

5.13.1. Setting Of Image Elongation Detection Information

In order to detect the elongation of the image, the following three pieces of information are required.

- · Validity of image elongation detection (enabled or disabled)
- •The length of the sheet to be read.
- •Threshold for judging that the image is stretched.

Store the above setting in the image elongation detection setting structure [5.3.11 SK_DV_IMG_ELGT_DETECT_CONF]. By performing image elongation detection information setting [5.6.7 SkDv_SetImageElongationDetectInfo] to middleware, image elongation can be detected. (It is not detected if image elongation detection is invalid.)

5.13.2. Method Of Image Elongation Detection

① Image elongation detection

The detected length (including margin) of image is compared with the set length of the length of the sheet to be read (including margin, to measure degree of elongation. If elongation exceeding the threshold is detected, it is regarded as an error.

2 Rear end margin elongation detection

It detects the trailing edge of the acquired image (back side) and judges the margin length of the rear end of the image. If elongation exceeding the threshold is detected, it is regarded as an error

5.13.3. Notes On Image Elongation Detection

- > Only the elongation is detected and the contraction is not detected.
- This detection is performed only on the image of the back side of the sheet. Therefore, under the condition that image enlongation detection is enabled, if it orders reading only front side, an error occurs.

(SKDV STS PARAM ERR SCANNINGSIDE Parameter Error Back side reading)

- The trailing edge of the form is detected from the read image. Therefore, if there is dirt or printing on the trailing edge, it may not be detected correctly. Since stain on the CIS or the pressure roller affects edge detection, please make sure to clean the parts before reading.
- In SR-6500 HYBRID, if the sheet size setting (see [5.6.16. SkDv_ReqSetImgReadSheetLength]) and the form size are mismatched, the image elongation amount may not be acquired correctly.

5.14. Layout Setting

This chapter is intended the products with continuous reading function .

5.14.1. Layout Configration Setup

A layout can be set up in continuous reading function. In order to set up a layout, it is necessary to execute multiples functions. The setup steps of the layout are as follows.

- ① Call "SkDv RegSetLayoutManage" and set the ID layout. (Which mark is ID, and How ID read.)
- ② Call "SkDv_ReqSetLayoutId" and set the details of ID. (details of ID, or How many timing marks, Action on errors etc.)
- 3 Call "SkDv_ReqSetWindowArea" and set window area. (Which area on the form uses as a window, or how read these window.)
- 4 Repeat 3 and set all window (MAX 80 window can be set on a ID)
- ⑤ Repeat 2 to 4and set all ID (MAX 16 ID's)
- 6 Call "SkDv RegSetLayoutManageTerminate" to finish the setup

5.14.2. Flow chart to setup layout

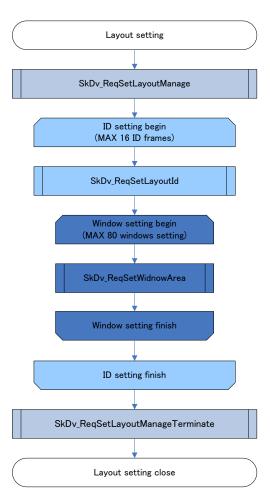


Fig 20 The flow chart of a diagram 16 layout setting procedure

5.14.3. Layout Setup

It has 3kinds of Parameter to setup the layout,

"SK_LAYOUT_MANAGE_CONF", "SK_LAYOUT_ID_CONF", and "SK_WINDOW_AREA_CONF""

SK_LAYOUT_MANAGE_CONF is a structure to set how ID uses.

[&]quot;SK_WINDOW_AREA_CONF" is a structure to set how window uses

	Function that uses the structure					
	SkDv_Red	qSetLayoutManage				
Structure	Member	Description				
	blEnableId	Set up [not use] or [use] layout.				
		If [use], use layout setup.				
		If [not use], layout setup is disregarded.				
		(However, errors checking by timing mark is performed. To				
		setup the number of timing marks, use "LayoutldPrm" of				
		"SK_LAYOUT_ID_CONF"				
CK LAVOUT MANAGE CONE	IdWindowPrm	Set the followings operation [read side] [the range of ID]				
SK_LAYOUT_MANAGE_CONF		[how ID read] [the direction of ID read] and [ID density				
		level] uses by "SK_WINDOW_PRM"				
	dwNgAction	Set operation when ID is NG.				
		[select stacker paper ejection] or [a conveyance stop]				
		either.				
	LayoutOpt	Use "SK_LAYOUT_OPTION" and set up Option of ID				
		layout ("No option" or "ID order*")				

(*) ID order checks is setting issue ERROR when it is not correspond order of ID.

Example 1.) 3ID's are setup and they are named "0", "1", and "2".

[transfer order]

OK 0 ->1 ->2 OK

NG 0 ->2 Error issued ID1 is jumped.
NG 1 Error issued ID0 / ID2 are over

Example 2.) Set 4kinds of ID's are set, and they are named "3", "5", "7", and "9"

[transfer order]

-3 ->5 ->7 ->9

NG 3 ->5 ->9 Error issued ID 7 is jumped.

NG 5 Error issued ID3 / ID7 / ID9 are over.

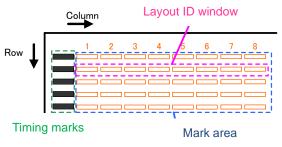
[&]quot;SK_LAYOUT_ID_CONF" is a structure with ID value.

Function that uses the structure					
	SkDv	_ReqSetLayoutId			
Structure	Member	Description			
	LayoutldPrm	Use "SK_LAYOUT_ID_PRM" and set the[Mark pattern			
		setting ID window] and [the number of timing marks].			
	iReject	Not use(fix as 0(ZERO))			
SK_LAYOUT_ID_CONF	LayoutOpt	SK_LAYOUT_OPTION" and setupthe option of ID window.			
		[not use] [mask marks] [fixed mark] [checkdigit]			
		[check(Ascending order)] [check(descending order)]			
		[check(no order)]			

Function that uses the structure						
	SkDv_F	ReqSetWindowArea				
Structure	Member	Description				
	WindowPrm	Use "SK_WINDOW_PRM" and set [frontside/back side]				
		[How ID reading] [direction of ID reading] [density level]				
	WindowCheck	Use "SK_WINDOW_CHECK" and set[no mark				
		acceptance]/[the number of minimum marks]/[the number of				
		maximum marks]. These setting can give the judgement the				
		number of marks in the window is correct.				
		[No mark acceptance]is [accept], error is not appear even				
		no mark in the window. Error appears in case [not accept].				
SK MINDOM AREA CONE		[the number of minimum marks]/[the number of maximum				
SK_WINDOW_AREA_CONF		marks] are set, error appears in casethe number of marks in				
		window is smaller than[the number of minimum marks], or				
		more than[the number of maximum marks]				
	dwNgAction	Set operation when window is NG.				
		[select stacker, paper eject] or [feed stop] either				
	LayoutOpt	Use "SK_LAYOUT_OPTION" and set the option setting of				
		window [not use] [mask marks] [fixed mark] [checkdigit]				
		[check(Ascending order)] [check(descending order)]				
		[check(no order)]				

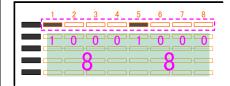
5.14.4. Setup Layout ID

In order to set up a layout, it is necessary to setup individual ID on a layout. ID is set "ucldData" of "SK_LAYOUT_ID_PRM". "ucldData" is 8bytes and "1" is Mark, and "0" is no mark



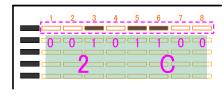
Layout ID

	ucldData							
	1Byte	2Byte	3Byte	4Byte	5Byte	6Byte	7Byte	8Byte
Binary digit	1000	1000	0000	0000	0000	0000	0000	0000
Hexadecimal	8	8	0	0	0	0	0	0



Example ID setting(1)

		ucldData						
	1Byte	2Byte	3Byte	4Byte	5Byte	6Byte	7Byte	8Byte
Binary digit	0010	1100	0000	0000	0000	0000	0000	0000
Hexadecimal	2	С	0	0	0	0	0	0

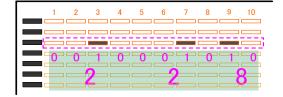


Example ID setting(2)

The position of ID can change a position and the range by changing the value of not corner of the form but the Col structure object within ID data management structure object (SK_LAYOUT_MANAGE_CONF), and a Row structure object. Detailed settings should look at the range specifications (excision) of 5.10.5 layouts. SK_LAYOUT_MANAGE_CONF5.14.6Layout Setting

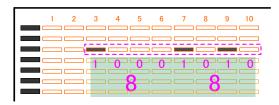
(*) Even if the same position has a mark of ID, it is recognized as the position and range of ID differing from each other as another ID.

	Row (Start)	Number of mark (Number)	Interval (Step)
Column	1	10	1
Row	3	1	1



ID setting which changed the position(1)

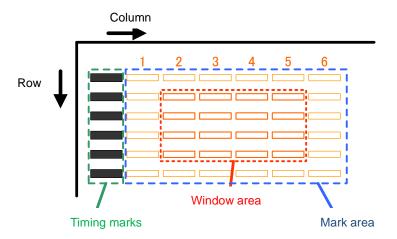
	Row (Start)	Number of mark (Number)	Interval (Step)
Column	3	8	1
Row	3	1	1



ID setting which changed the position(2)

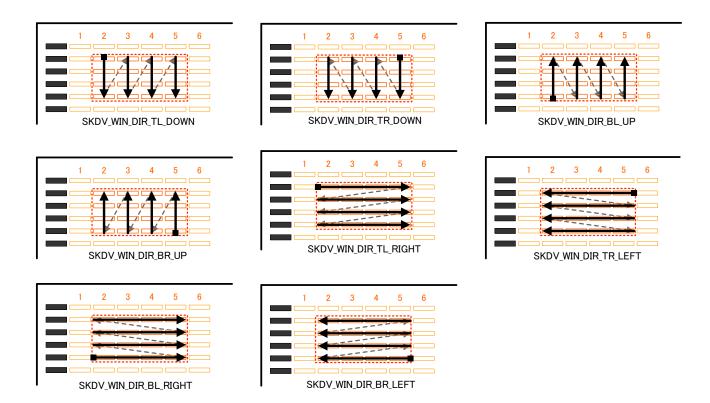
5.14.5. Layout read direction

It can be setup the destination to read layout. It can set "iDirection" parameter "SK_WINDOW_PRM".



There are eight kinds of "iDirection", and it defines as follows, respectively.

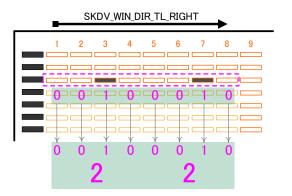
Constant	Value Description	
SKDV_WIN_DIR_TL_DOWN	0	From the up left to the bottom
SKDV_WIN_DIR_TR_DOWN	1	From the up right to the bottom
SKDV_WIN_DIR_BL_UP	2	From the low left to the top
SKDV_WIN_DIR_BR_UP	3	From the low right to the top
SKDV_WIN_DIR_TL_RIGHT	4	From the up left to right
SKDV_WIN_DIR_TR_LEFT	5	From the up right to the left
SKDV_WIN_DIR_BL_RIGHT	6	From the low left to right
SKDV_WIN_DIR_BR_LEFT	7	From the low right to the left



When the layout reading directions differ, even if the same position has the mark of ID, it recognizes as another ID.

	Row (Start)	Number of mark (Number)	interval (Step)
Column	1	8	1
Row	3	1	1

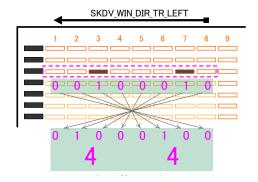
Layout read	From the upper left to the right
direction	From the upper left to the right



The example:ID setting which change position

	Row (Start)	Number of mark (Number)	interval (Step)
Column	1	8	1
Row	3	1	1

Layout	From the upper right to the left sides
Layout	From the upper right to the left sides



The example:IE ange position

5.14.6. **Layout Setting**

SR-11000, it can be set the area. This is called layout setting, and the area is called window.

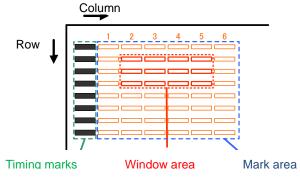
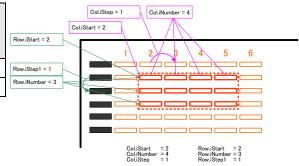


Image of window

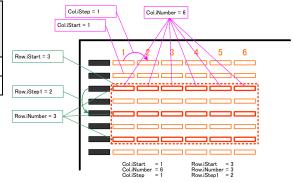
Area setting is controlled "SK_WINDOW_PRM"

	Row (Start)	Number of mark (Number)	Interval (Step)
Column	2	4	1
Row	2	3	1



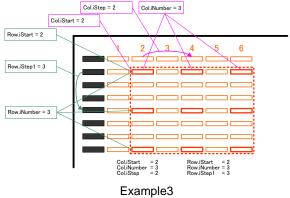
Example1

	Row (Start)	Number of mark (Number)	Interval (Step)
Column	1	6	1
Row	3	3	2



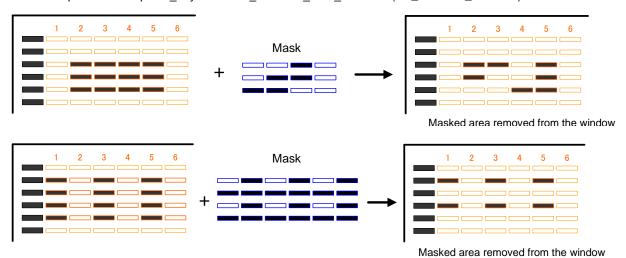
Example2

	Row (Start)	Number of mark (Number)	Interval (Step)
Column	2	3	2
Row	2	3	3



5.14.7. Mask Setting

MASK setup can be setup "SK_Layout"SKDV_LAYOUT_OPT_MASK" (SK_LAYOUT_OPTION).



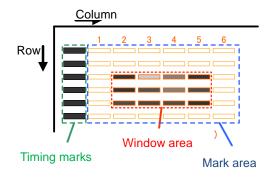
5.14.8. Density level / Density gap

Density level setting (Sensitivity) can be set to pick up the marks in the each window. These setting can be set by each window.

All mark will be recognized if it corresponds to the following two conditions.

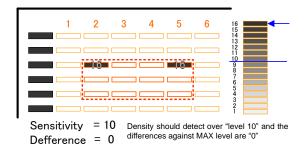
- (1) Density level setting (Sensitivity) is lower than the actual mark density level(value).
- (2) The marks whose Density level is higher than the value of density level setting(sensitivity) included the density level gap.

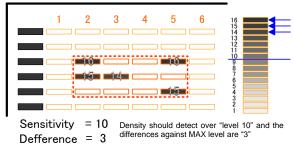
Specific examples are described below.



Mark sample

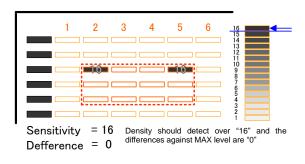
Density level of mark sample

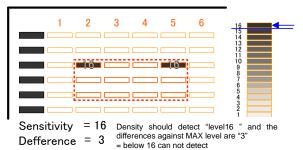




Mark recognition: in case sensitivity is 10 ± 0

Mark recognition: in case sensitivity is 10±3





Mark recognition: in case sensitivity is 16±0

Mark recognition: in case sensitivity is 16±3

OPTICAL MARK READER

SR-3500/6000/6500, SR-1800, SR-3500/6500/8000 HYBRID, SR-11000 API Reference Manual for Windows

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