

CspStat.Dll
CSP Printer Status API
Command Reference
Ver. 0.7.0.0_D

Dai Nippon Printing Co., Ltd.

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Revision History Chart		First Edition: May 31, 2007			Page 1/8	
Revised Item	Type of Revision	Revision No.	Document No.	Revision Date	Approved	Designer
	First Edition for CX, CXW(DS40,DS80), CXM	0.4.0.0	0.40	5/31/2007		
P42-	Minilab API Function added. (Average Current, Power Voltage, Sorter Sensor etc.)	0.5.0.0	0.50	7/23/2007		
P22 P35	Get status code changed. Group No initial setting changed.	0.5.1.0	0.51	7/27/2007		
P22 P23	Get status code changed (CXM1,2,3,etc.) Status code added.(RS422 non connect,soter max)	0.5.2.0	0.52	8/10/2007		
P34	Get minilab tower status added.	0.5.3.0	0.53	8/14/2007		
P22 P34	GET status code changed (shooting). Get minilab tower status changed.	0.5.4.0	0.54	8/22/2007		
P24 P24	GET Printer Counter Value changed. Set Printer Counter Value added,	0.5.5.0	0.55	8/23/2007		
P13	It is possible to get "Version"and "Serial No." from Tower controller. GetPrinterPortNum changed.(for Tower controller)	0.5.6.0	0.56	8/27/2007		
P18	GetFirmwareVersion()function corrected.	0.5.7.0	0.57	8/29/2007		
P7 P48	The procedure to shop "Windows driver request wizard" when direct DLL is in use, is added. GetMiniLabPrinterAdd() function added	0.5.8.0	0.58	8/31/2007		
P7 P22	it does NOT return the device name GetPrinterStatus Technical reference "RS422 Non Connected" status added	0.5.8.0	0.58A	9/25/2007		

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	Modify to the processing during non-connection of USB printer cable regarding memory of GetStatus() value against V0.5.8.0. Delete P24,25 Technical reference "RS422 Non Connected status" from V0.58A depend on the version of F/W (0.133)	0.5.9.0	0.59	10/3/2007 (Official Release)		
P14 P18 P19 P35 P39, 40 P44	SetMiniLabPowerVolt, SetMiniLabECurrentMax GetMiniLabPowerVolt, GetMiniLabECurrentMax Function Deleted. About the API function movement of the KIOSK model Image pixel size added. Setting the Resolution function added. Send Color Control Data to Temporary buffer added. Get minilab tower status changed. Set Group,Serial No document changed.	0.6.0.0	0.60	6/2/2008		
	Self diagnosis function API added.	0.6.0.0	0.61	6/11/2008		
P28	Overcoat finishing control command added.	0.6.0.0	0.62	6/26/2008		
P28-29	Counter L/A/B/P Count-up Action added.	0.6.0.0	0.621	9/18/2008		
P17	For Ver 0.5.9.0 <Linux machine & high-speed PC Countermeasures> *Note) Improved image data transmission method	0.5.9.1	0.621_1	12/5/2008		
P17	For Ver 0.6.0.0 <Linux machine & high-speed PC Countermeasures> *Note) Improved image data transmission method	0.6.0.1	0.621_1	12/5/2008		
P40	For Ver 0.6.0.0 Overcoat finishing control command added (Page number correction in revision history chart)	0.622	0.622	11/6/2008		
P6 P15 P18	For Ver 0.6.2.2 Windwos Vista was added. Procedure to firmware update when using API. <Linux machine & high-speed PC Countermeasures> *Note) Improved image data transmission method	0.6.2.3	0.623	1/9/2009		
P13-15 P19 P20 P31 P33 P36 P47	For Ver 0.6.2.3 Status API function list was changed Printer filter function added USB transmission time out was added TIMEOUT error of printer status was added Counter Matte was added Clear counter M was added Print retry control command was added	0.6.3.0	0.630	10/31/2009		
P24	Send image data Change in output size limitations according to printer location added	0.6.3.0	0.630_1	11/20/2009		
	[Dll correction] The printer error doesn't occur when SetMediaSize Function is no specified and the image transmission is done.	0.6.3.1	0.631	2/10/2010		

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Revised Item	Type of Revision	Revision No.	Document No.	Revision Date	Approved	Designer
P7 P9 P22 P23 P25 P41,42 43,45	(Change of only a document) The description of Windows Vista(32bit)and Windows 7(32bit) is added. 2.Windows driver requirements・・Description revisions Addition of SetMediaSize() function Addition of SetImageData() function Deletion of redundant firmware compatibility descriptions Addition of descriptions relating to firmware and control data rewrite commands	0.6.3.1	0.631_1	5/20/2010		
P14,15, P18	< New model addition > It corresponded to CY and CW02 printer.	0.6.3.2	0.632	11/19/2010		
P15, P48-50	・Addition of a function which gets region code. ・Addition of a function which clears printer region code. ・Addition of a function which gets media class. ・Addition of a function which gets RF-ID reserve data.	0.6.3.3	0.633	11/30/2010		
P14,15, P18 P50	< New model addition > It corresponded to DS-RX1 printer. Get Initial Media count was added.	0.6.4.0	0.640	1/28/2011		
P15 P49	・Addition of a function which sets printer region code.	0.6.4.1	0.641	2/28/2011		
P15 P49,50	・The function of the region code was deleted.	0.6.4.2	0.642	5/12/2011		
P35 P45	・Change of Copyright information ・The case of a 2inch cut is added to a count-up operation table. ・The 2inch cut mode is added to a cutter control command.	0.6.4.3	0.643	9/14/2011		
P7 P21 P35	・Change of description of Copyright ・The L 2-image layout is added to page definition contents of media size setting. ・The multi cut mode 5x3.5x2 is added to a count-up operation table.	0.6.4.4	0.644	4/22/2013		
P14,15, P18,21, P23,30, P35,38	< New model addition > It corresponded to DP-TC10 printer.	0.6.4.5	0.642	6/14/2013		
P14-18, 21,25,27-29, 32,35,364 1,42,44,53 ,54	< Additional function > ・Compatibility with DP-DS80D (Duplex-capable 8-inch printer)	0.6.5.0	0.6.5.0	6/28/2013		
P37 P39 P40 iv - v	・Duplex Error code was changed ・Duplex unit Status was added. ・CutPaper Infomatin was added. ・Duplex Printer Combination Chart was added.	0.6.5.1	0.6.5.1	08/05/2013		

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Revised Item	Type of Revision	Revision No.	Document No.	Revision Date	Approved	Designer
P35 P37 P48 P68	(Change of only a document) <ul style="list-style-type: none"> Revised the count-up operation explanation Added the count value for the DP-TC10 L card size 2-image layout continuous printing to the count-up operation Added the DP-TC10 L card size 2-image layout continuous printing designation to the Cutter Control commands Added the DP-TC10 L card size 2-image layout continuous printing explanation to the appendix 	0.6.5.1	0.6.5.1_1	10/24/2013		
P9,10, 20,23, 36,37 41, v -vi	<ul style="list-style-type: none"> Multi-cut paper size of cut paper was added. Cunter Duplex was added Duplex Unit, Cancelling the 2nd-side printing and ejecting the media was added. Duplex Printer Combination Chart was changed. List of function compatibility was changed. 	0.6.5.3	0.6.5.3	11/14/2013		
P56	<ul style="list-style-type: none"> Get duplex-unit firmware version added. 	0.6.5.4	0.6.5.4	12/28/2013		
P53 P73	(Change of only a document) <ul style="list-style-type: none"> Added DP-TC10 partial matte operation to the overcoat finish function. Added about DP-TC10 Partial Matte Printing to the appendix 	0.6.5.4	0.6.5.4_1	1/17/2014		
v	(Change of only a document) <ul style="list-style-type: none"> Duplex Printer Combination Chart was changed. 	0.6.5.4	0.6.5.4_2	3/28/2014		
P25,46 P12 P12 P50 P56 P58 P65 P66 P67 P68 P69 P11	<ul style="list-style-type: none"> DS80D cut paper 8x6x2 size was added. DP-DS620 was added. The following commands were added. <ul style="list-style-type: none"> Ribbon Rewind Function is added. The example of the ribbon rewind operation process is added. Get L/PC Size Conversion Media Counter of Remaining Sheets Get Color Data Version <Type Designation> Get Color Data Checksum <Type Designation> Full Cutter Set-up Set Standby mode transition time Get Standby mode transition time Set Media End Keep Mode Get Media End Keep Mode Set USB iSerialNumber availability setting Get USB iSerialNumber availability setting Set Rewind Mode setting Get Rewind Mode setting The operation in standby mode was added. 	0.6.6.1	0.6.6.1_1	08/22/2014		
v P17 P19 P54,55 P21	<ul style="list-style-type: none"> Duplex Printer Combination Chart was changed. 6. Status API function list was changed 11-2 Procedure to update for duplex-unit was added. The following commands were added. <ul style="list-style-type: none"> Set duplex-unit rewrite mode Write duplex-unit firmware data Get duplex-unit firmware rewriting status DS-621 description deleted. 	0.6.7.0	0.6.7.0	09/08/2014		
P69 P12 P48, 90 P14,16,	<ul style="list-style-type: none"> It was Changed the factory preset value of the Media End Keep Mode.(0:Not Keep Media End -> 1:Keep Media End) Rewind (5 x 3.5) was supported. It was clarified that DP-DS620 (A) is printed without rewinding the ribbon. Appendix (4) About DP-DS620 Ribbon End Check Operation was added. Get printer version information was added in the API that can be used in Standby Mode 	0.6.7.0	0.6.7.0_1	10/31/2014		

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P1 P19 P12,,24 ,28,45 P50-51 ,91 P38 P40	<ul style="list-style-type: none"> Remove “Winodws 2000” from supported OS. Fixed the order of procedure to update of “11. Procedure to firmware update when using API” The following media sizes were added. (for DP-DS620) 6x9, 6x4.5, (6x4.5)x2 Ribbon media (6x9) was supported. (for DP-DS620) Change wording to “Turning unit” from “Duplex unit”. Change wording to “cut sheet” from “cut paper”. Delete some wording from Get Printer Status description. Delete some wording from Getting Turning unit description. 	0.6.7.2	0.6.7.2_D	02/27/2015		
	• 64-bit version is supported.	0.6.7.2	0.6.7.2_D_2	03/31/2015		
P68 P17,69 P64 P62 P17,75 P92-93 P95-96	<ul style="list-style-type: none"> 6x4, 5x7, and 6x9 media sizes are now supported with Full Cutter Set-up. Full Cutter Set-up Extended Settings command added to support intermediate scrap cut setting. (SetFullCutterSetUpEX) Fine Matte, Partial Matte (Matte), and Partial Matte (Fine matte) added to the Overcoat Finishing Control command. Panorama printing operation added to the Cutter Control Command Panorama Printing Start Check command was added. (GetPanoramaPrintable) Information for DP-DS620 Partial Matte function added to Appendix (3) About Partial Matte Printing. Appendix (5) Panorama Printing was added. 	0.6.7.3	0.6.7.3	04/28/2015		
P24, 28,45 P17, 68-70	<ul style="list-style-type: none"> Paper size 6x6 was supported.(for DS40) Full cutter set-up function was supported.(for DS40) (paper size 6x8 only) 	0.6.7.5	0.6.7.5	06/30/20015		
P55 P17 P57-59	<ul style="list-style-type: none"> DP-DS80D Set Turning unit Rewrite Mode was changed. DP-DS80D Get Turning Unit Error Log function was added. Request Creation of Turning Unit Error Log Get Turning Unit Error Log Data Length Receive the Turning Unit Error Log Data Get the Turning Unit Error Log Creation Status 	0.6.7.6	0.6.7.6	07/22/2015		
P17, P71, P79, P77 (vi-vii)	<ul style="list-style-type: none"> DS40 the following functions was added. Get Initial Media Count Get Media Offset Count Set USB iSerialNumber availability setting Get USB iSerialNumber availability setting DP-DS80D Combination Chart and function compatibility list has been deleted. 	0.6.7.7	0.6.7.7	08/31/2015		
P17, P79, P77 P68	<ul style="list-style-type: none"> DS-RX1 the following functions was added. Get Media Offset Count Set USB iSerialNumber availability setting Get USB iSerialNumber availability setting Luster added to the Overcoat Finishing Control command. 	0.6.7.8	0.6.7.8	12/25/2015		
P17,80	• Continuous Panoramic Prints settings function was added.	0.6.7.9	0.6.7.9	02/29/2016		

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P12,14 15-17 21-22 25,29,35, 37,44, 46-47 52-53 64, 66-83 102	<ul style="list-style-type: none"> • DP-DS820 was added. <p>The following commands were added.</p> <ul style="list-style-type: none"> • Set Print Speed function was added. • Set System Time function was added. • Get Color Data Data Version <Type,Media designation> was added. • Get Color Data Checksum <Type,Media designation> was added. • L/PC Size Conversion Media Counter of Remaining Sheets was changed ⇒ Half Size Conversion Media Counter of Remaining Sheets 	0.6.8.0	0.6.8.0	02/29/2016		
P17,18	<ul style="list-style-type: none"> • Get media class was added in the API that can be used in Standby Mode. (DP-DS820) 	0.6.8.0	0.6.8.0_1	03/18/2016		
P1	<ul style="list-style-type: none"> • Support for Windows 10 	0.6.8.1	0.6.8.1	03/31/2016		
ix P17 P88,89	<ul style="list-style-type: none"> • Add the following API functions. - Set Gamma Table - Get Gamma Table Checksum - Clear Data Table 	0.6.8.2	0.6.8.2	05/27/2016		
P72	<p>(Change of only a document)</p> <ul style="list-style-type: none"> • Get Media Class Function was append a description of the media type. 	0.6.8.2	0.6.8.2_2	06/24/2016		
P14 P47	<p>DP-DS820 related portion of the table in the following section have been updated.</p> <ul style="list-style-type: none"> - 8.Standby Mode API that can be used in Standby Mode - Get Printer Counter Value Counter L/A/B/P count-up action 					
P71, P81,82, P83, P106,107	<p>The following section has been changed.</p> <ul style="list-style-type: none"> - Print Retry Control command. - Panorama Print Start Check function. - Continuous Panoramic Prints Settings function. - Appendix: (5) Panorama Printing with White Border 	0.6.8.3	0.6.8.3_D	09/13/2016		
P70,103	Fine Matte was supported to the Overcoat Finishing Control command.(for DP-DS620)	0.6.8.3	0.6.8.3_D2	02/28/2017		
P25,29, 46	<ul style="list-style-type: none"> • Paper size 5x5 and 6x6 was supported.(for DS-RX1). 	0.6.8.5	0.6.8.5_3_D	07/28/2017		
P37 P46 P52	<ul style="list-style-type: none"> • Part of contents of explanation of media code was changed. • Appends the contents on the DS-RX1 to the annotation of multi-cut (L 2-image layout) • Update media list. - 350 sheets is added to the 6x4(PC) size of DS-RX1 - 400 sheets is added to the 5x7(2L) size of DS-RX1 					
P52	Get media counter command, DS 620 5x3.5(L) media support. Delete unused parameter.(matte 2, 3)	0.6.8.7	0.6.8.7_D	02/28/2019		

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P14,17, 19-23, 25-27, 30,33,37, 40,42-43, 53,57-58, 70-71 73-82,84 87-88,93 P96 P96 P55 P40	< New model addition > - DP-QW410 was added. The following section has been added. - Set Decurl Control - Current time notification Added description when negative value is specified. The mistyping was fixed.	0.6.9.1	0.6.9.1_1_D	24/12/2019		
P30,33,42, 53,57,75,82 P70,71,73, 74,80,96	4.5x6 media was corresponded. (for DP-QW410) The errors was corrected.	0.6.9.3	0.6.9.3_D	24/04/2020		
P21,23 P14, 21-23,25, 71-72, 74-75 P76 P81 P55 P55 P98 P16-19, 22-23,26, 27,30, 93 P116	・Status API function list was changed ・Marged firmware for DP-DS620 was supported. (DP-DS620 firmware version 3.00 or later) ・Added 2image layout and non-scrap cutter operation parameter Cutter Control Command ・Added media type to Media Class Command ・The following function were added. - Get Life Counter Value Extended - Get Matte Counter Value Extended - Get supported media information command ・Revised typos. ・Changed the figure of in house confirmation pattern.	0.6.9.7	0.6.9.7_D	09/09/2020		
vii P23,27,58, 60,98	(Change of only a document) ・Marged firmware for DP-DS620 was supported.	0.6.9.7	0.6.9.7_1_D	05/20/2021		
P2	・ Changed the diagram of the Depiction of printing and processing using DLL	0.6.9.8	0.6.9.8	07/02/2021		

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P30,33, 54,77,85	• The following paper size have been added to the DP-QW410. 4x3, 4x4.5, 4.5x3, 4.5x4, 4x3x2, 4.5x3x2, 4.5x4x2					
P27-30, 32,37-43, 46,48-50, 57-68, 70-79, 81-93,95, 97-103, 105-114	• Revised the description of each API function	0.6.9.9	0.6.9.9_D	11/30/2021		
P22,92,93	• Supported the Rewind mode for DP-DS820.					
	[DLL modification] Fixed the processing related to multi cut printing in DP QW410 inside the DLL.	0.7.0.0	0.7.0.0_D	6/1/2022		

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Introduction



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Application Scope

This document has been written about the handling of the CSP status api function.

Supported OS, operating environment

This API runs on Windows XP, Windows Vista(32bit), Windows 7(32/64bit), Windows 8(32/64bit), and Windows 10(32/64bit).

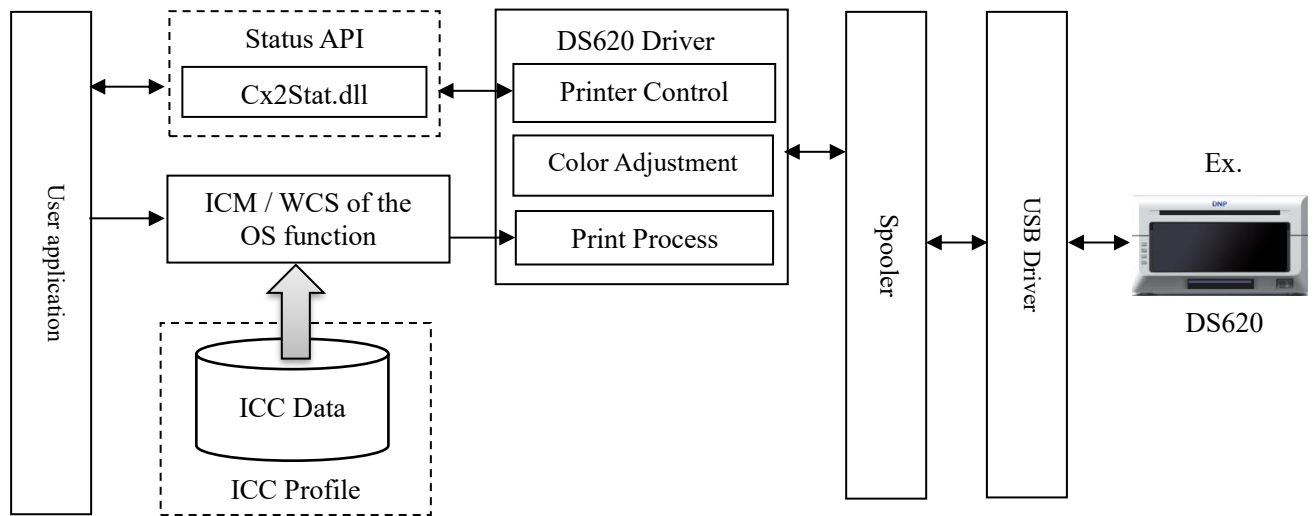
Note : This API have a DLL of two types of 32-bit and 64-bit versions.

1. Depiction of printing and processing using DLL

Printing and control data sent directly to the USB differs from that sent through the printer driver in the following ways.

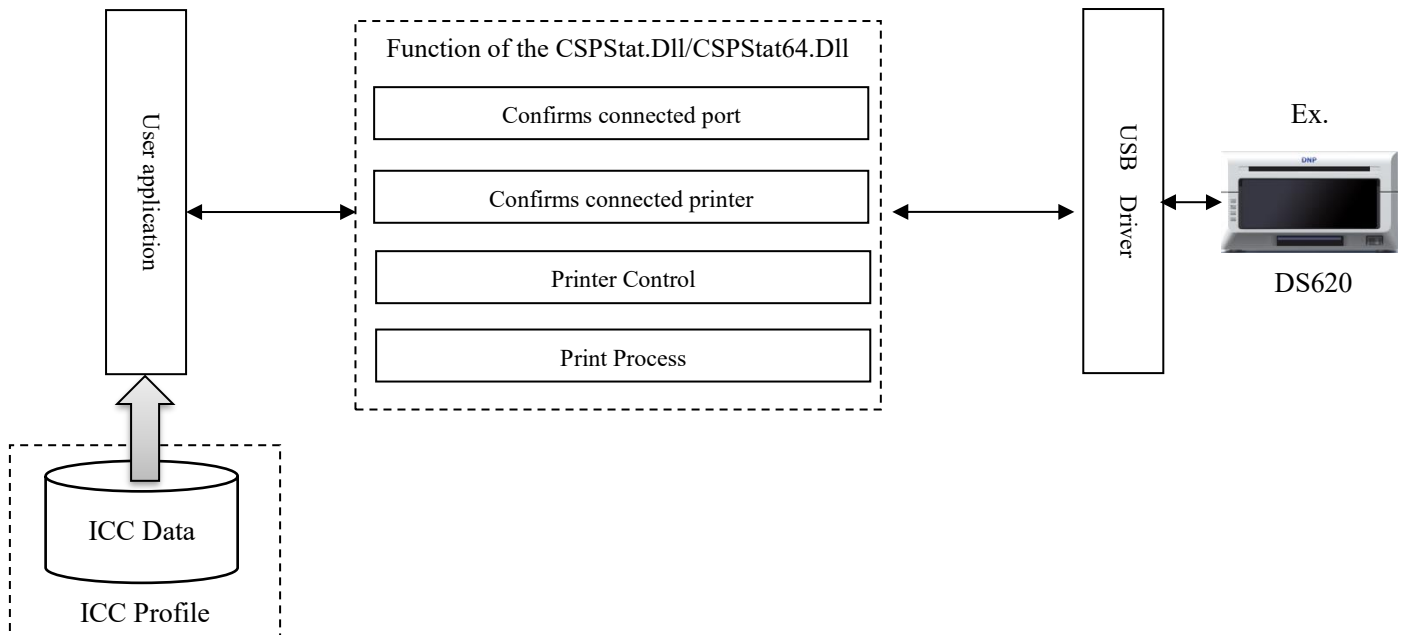
① Printing and control where the data is sent through the printer driver

The print and control data are processed through the respective drivers for each device.



② Printing and control where the data is sent directly to the USB

The print and control data are sent directly to the USB.



2. On the firmware stopping Window's driver requesting Wizard

In case the user uses direct DLL, and tower's firmware is used, it is possible to stop the driver requesting Wizard when connected to the USB.

Usually Windows, when printer is connected, starts USB connection (port formation)->Recognition of device name printer returns->Driver requesting Wizard, but tower's firmware at the time of connection, it does not return the device name from the printer, it would not start the driver request Wizard.

Windows dynamically allocates the ports, it makes the driver request every time the printer is connected to the new port. This firmware can stop the driver request Wizard even at the time the printer is connected to a new USB port.

(Note) In case the user wants to print from printer driver on this firmware, he need manually install the printer driver.

3. Port Number Designation

- ① With control via the printer driver, Port Initialize is used to designate the port connected to the driver.

Ex.) PortNo = PortInitialize(StrPrt("USB001"));

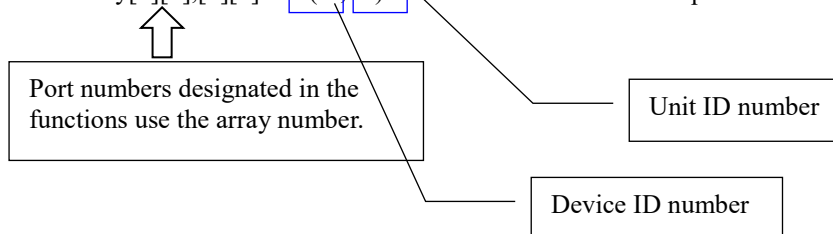
For the various DLL functions, the Port Number gotten with this API function was used. "USB00n" is the name of the port connected to the printer driver, so in order to bypass the printer driver, the following function ② is used.

- ② In sending the data directly to the USB, the application must check the connection status and designate the port numbers. Using the function GetPrinterPortNum, the printer connection status is gotten as follows. The port number used in the DLL functions is arranged as shown below.

PortNum = GetPrinterPortNum(PortArray[][]);

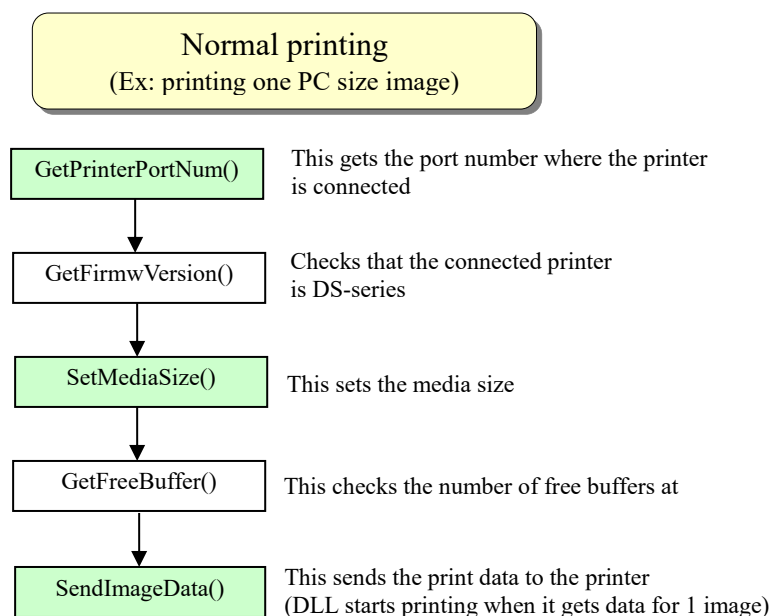
Ex) In the case with three CV and CW printers connected to the ports, the PortNum is 3.

PortArray[0][0],[0][1] =	(1, 7)	<- CV, 7
PortArray[1][0],[1][1] =	(1, 8)	<- CV, 8
PortArray[2][0],[2][1] =	(2, 1)	<- CW, 1
PortArray[3][0],[3][1] =	(-1, -1)	<- No CV or CW printers connected beyond this port

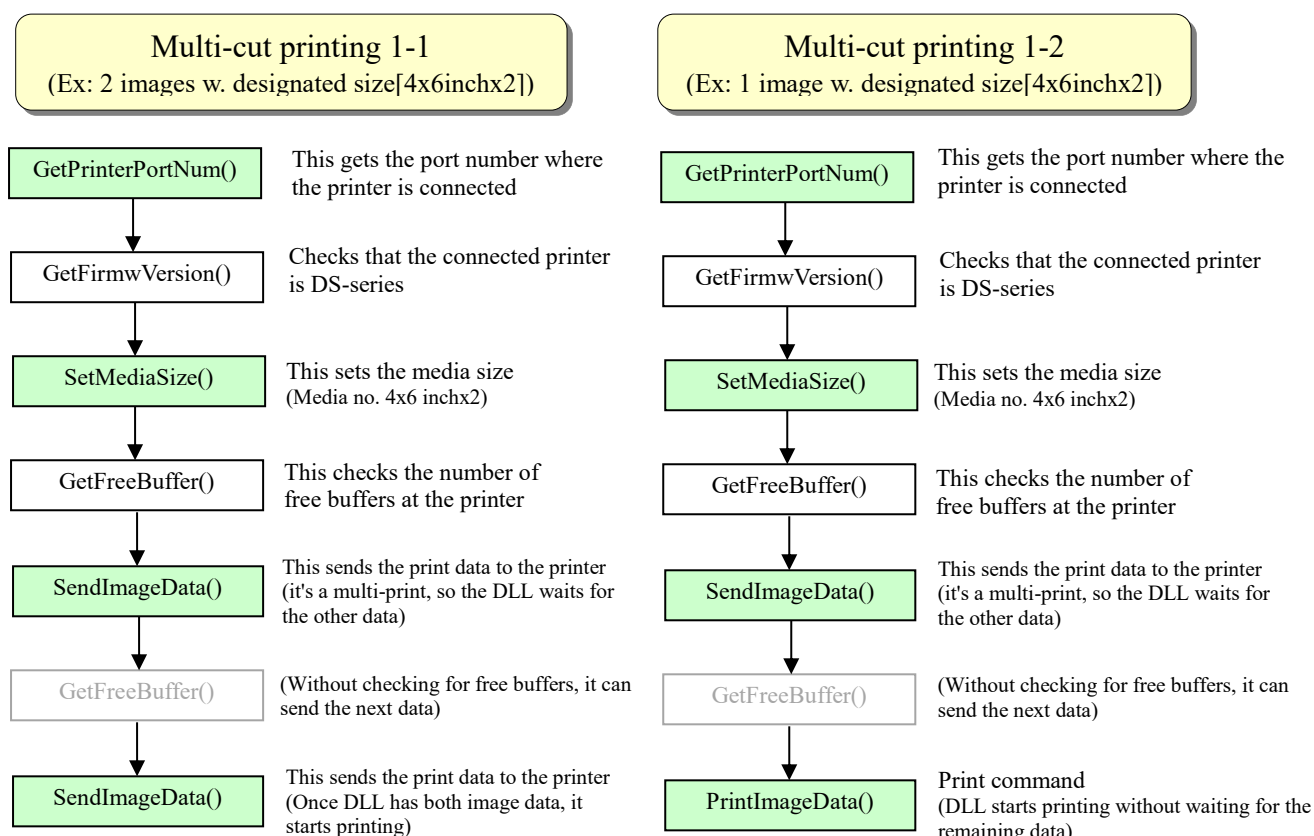


4. Print Process Flow

The print process order for the newly added API is as follows.

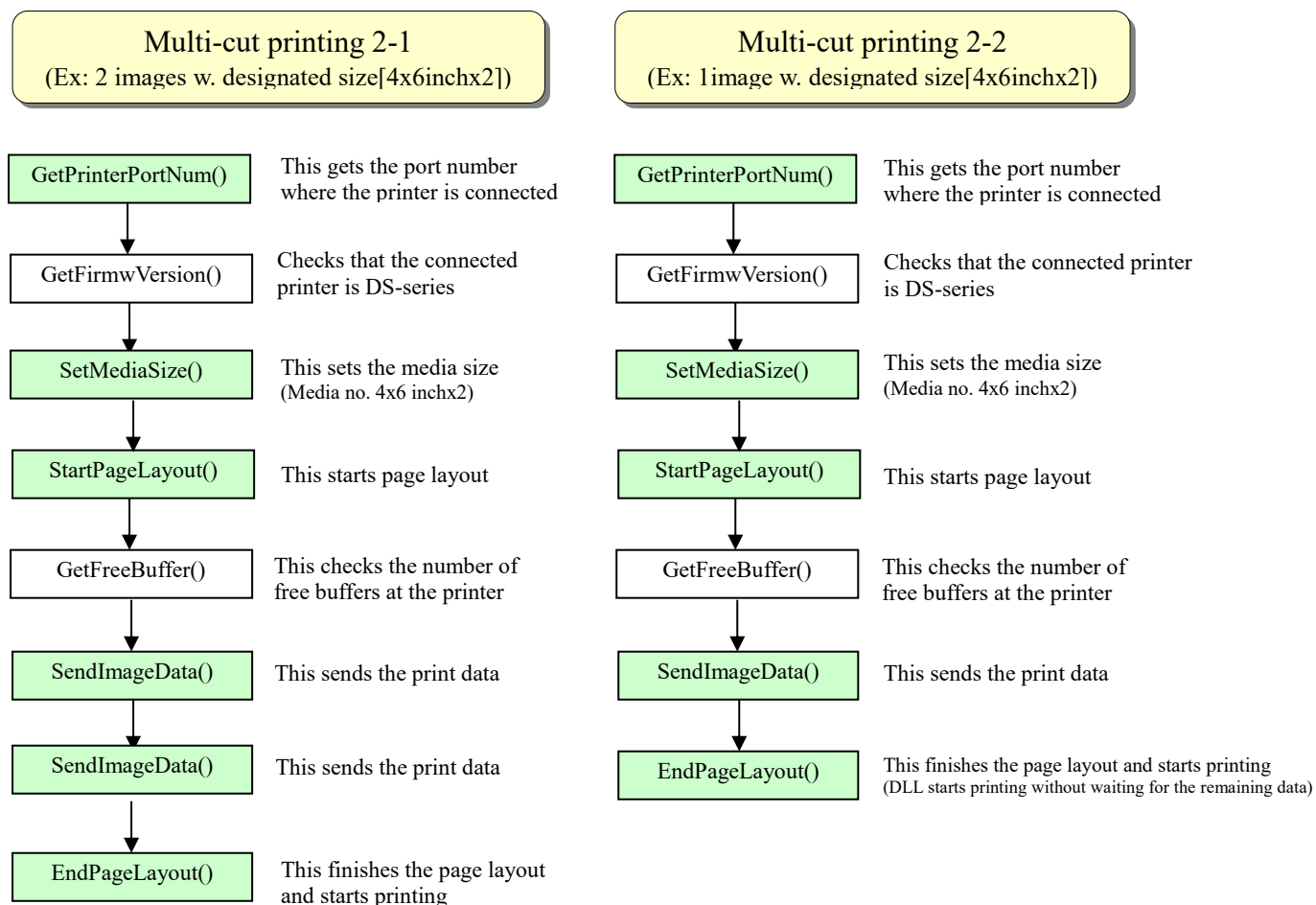


① Multi-cut print process not using the Page Layout function



GetPrinterPortNum() Exclusive function

② Multi-cut print process using the Page Layout function



For multi-cut printing, either method (① or ②) can be designated. The CV and CW send the data for printing one page in one installment, so the multi-print data are combined in the DLL and printer driver and sent. Whichever command is used, the data is sent when the necessary number of images is assembled.

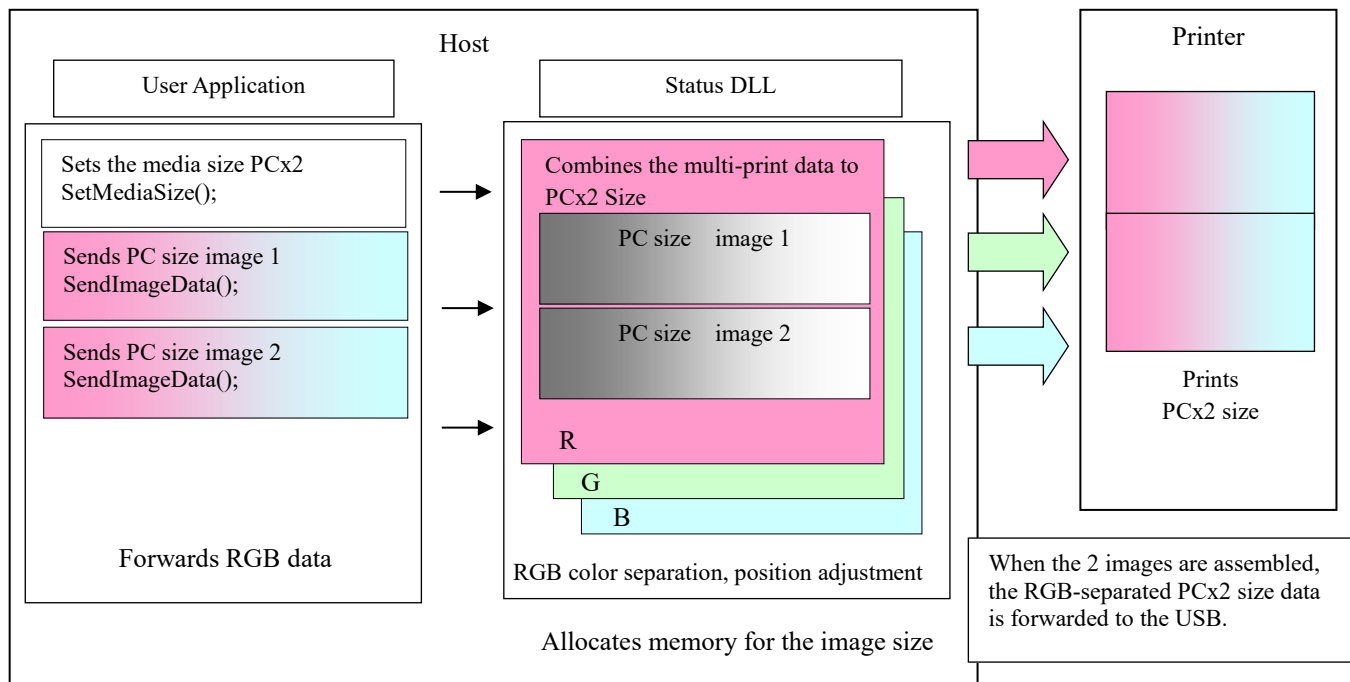
5. Image Flow Supplement Multi-cut printing

Multi-cut printing can be done in the two methods ① and ② shown below. The printer send all the page data for one printing in one installment, so the DLL or printer driver combines the multiple print data in the host memory, and sends it to the printer.

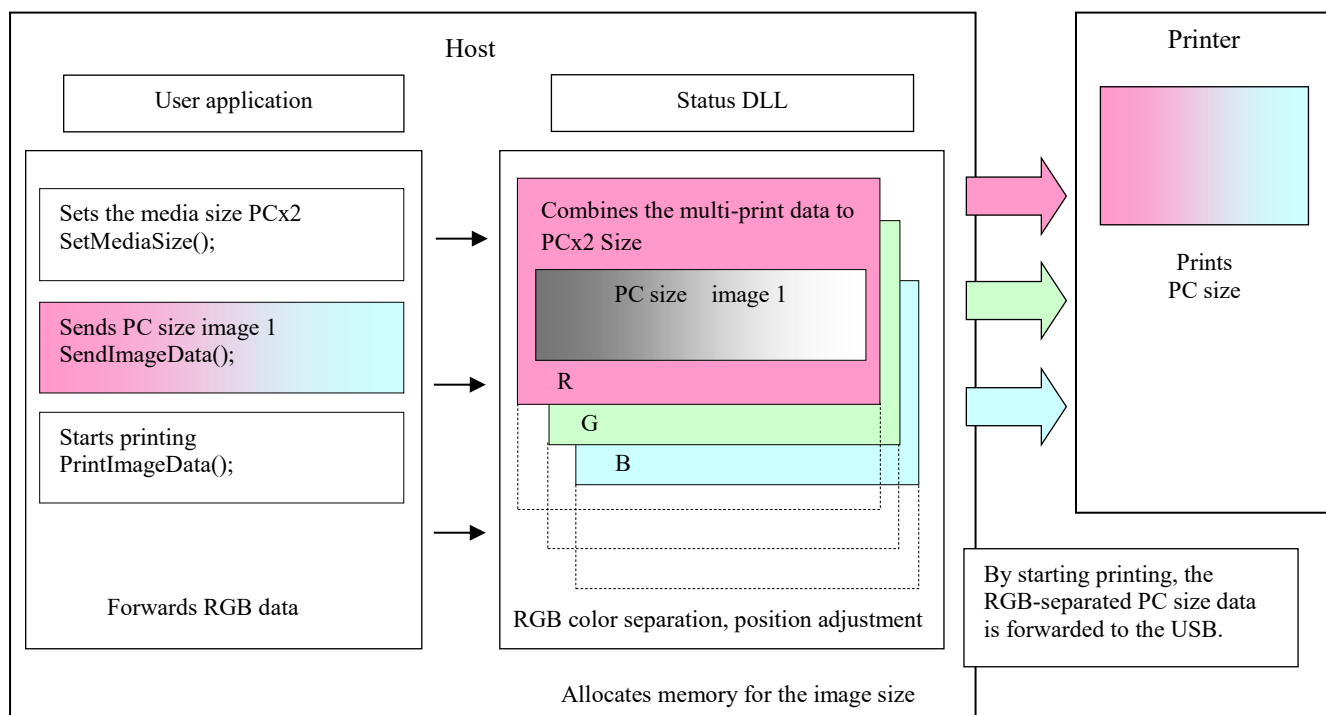
① Multi-cut print processing without using the Page Layout function

In printing without using the Page Layout function, the data is sent to the printer after the necessary images have been assembled in the memory allocated by the status DLL.

1-1 Image of the host process for dual-image layout



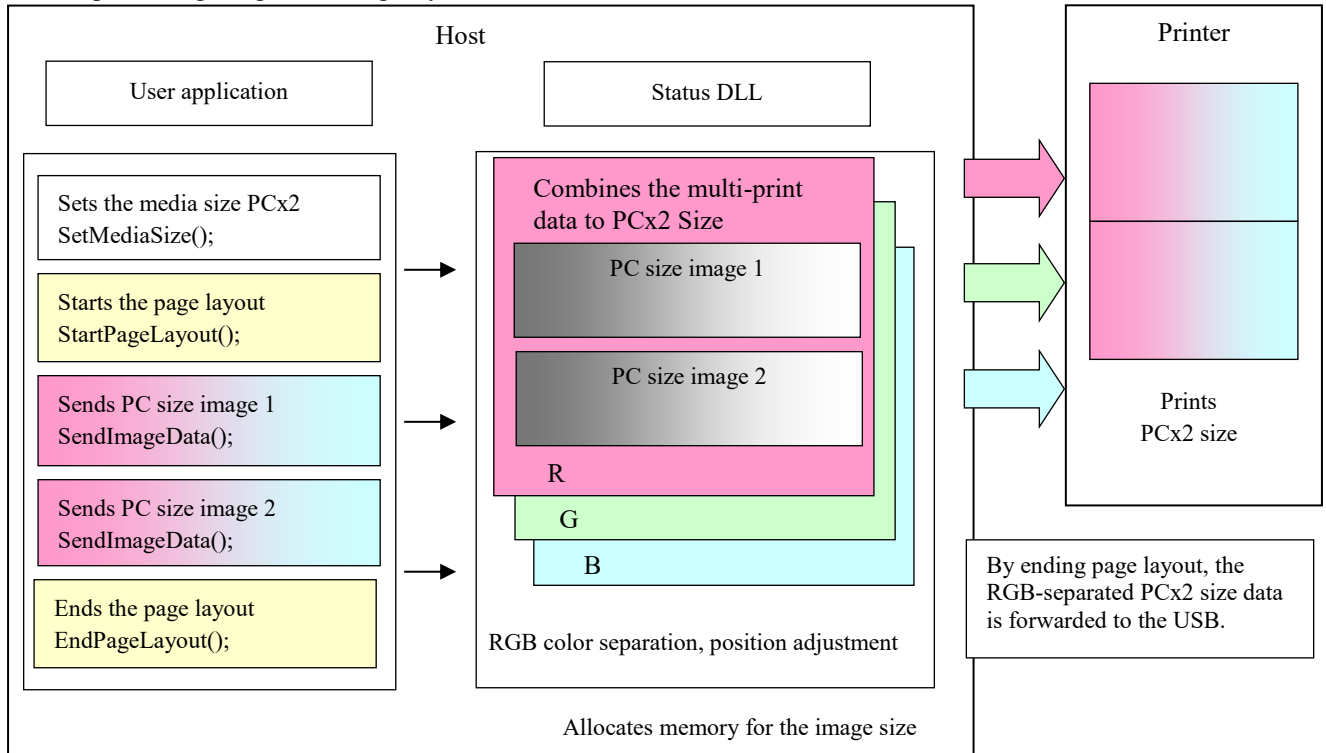
1-2 Host processing image for starting printing when only one image has been designated.



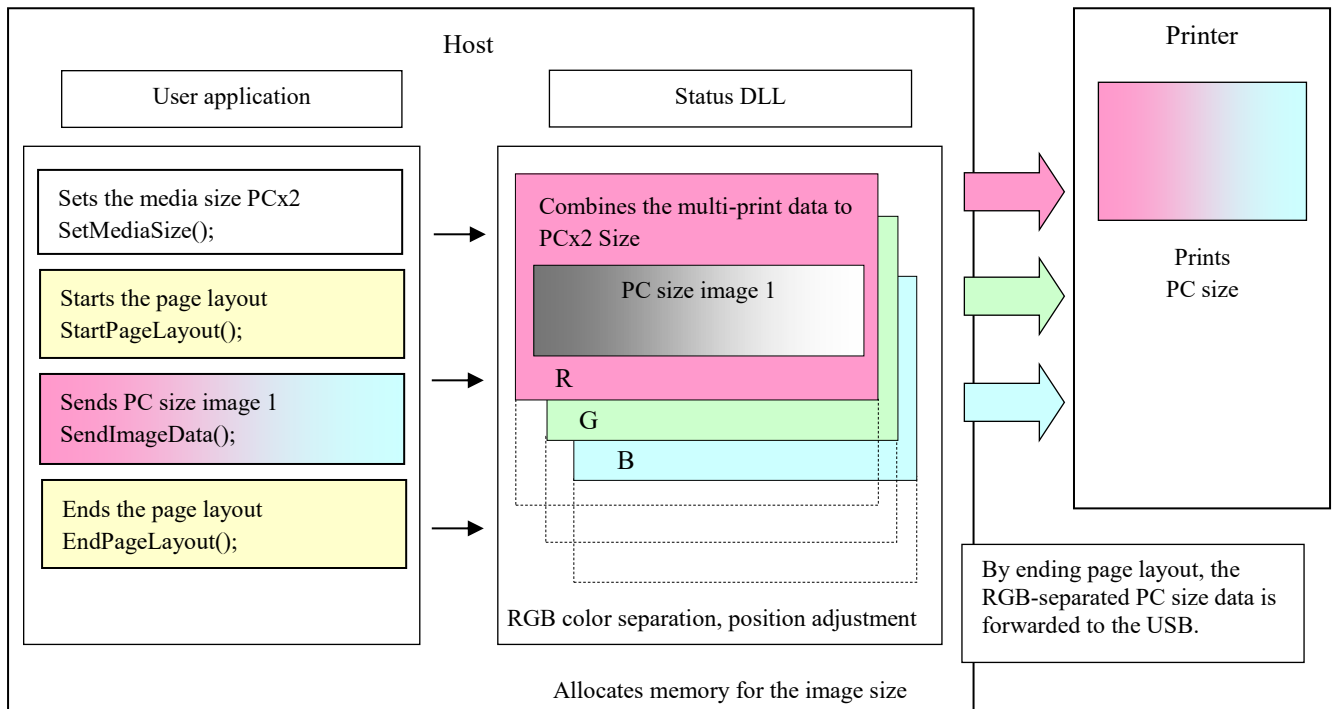
② Multi-cut print processing using the Page Layout function

When using the Page Layout function, once the host begins the page layout, the data is not forwarded to the printer until page layout is finished. In this way, the application forwards the data. The application clearly defines when to send the data.

2-1 Host processing image of 2-image layout



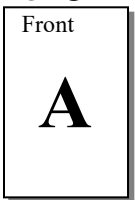
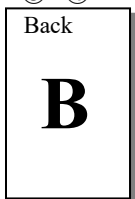
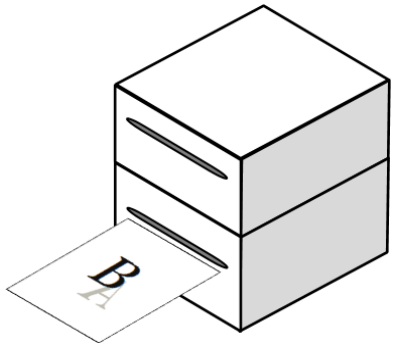
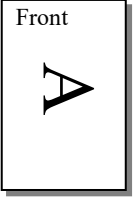
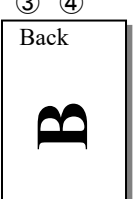
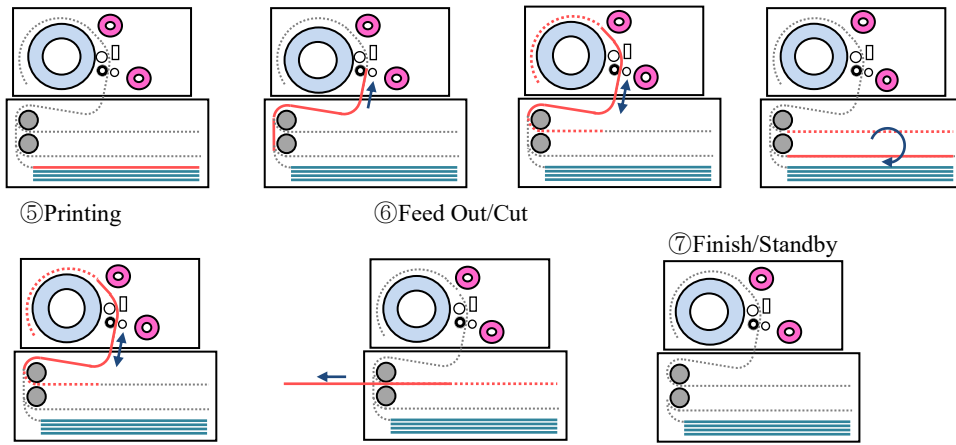
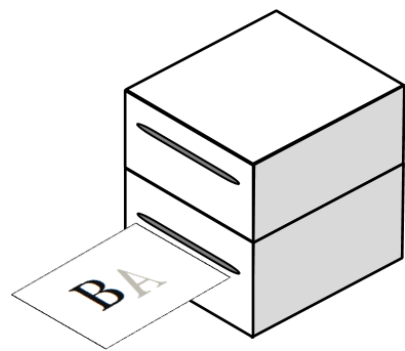
2-2 Host processing image for starting printing when only one image has been designated.



6.Duplex printer: Relationship between the image created by the application and the printer operation/output image

The application determined the order that images are sent to the printer for the desired result, and rotates and alters the image to be sent size depending on the print orientation, etc.
The relationship between the orientation of the image sent to the printer and the completed print is as shown in the chart below.

◆ For duplex printing (Duplex cut sheet, no layout. For 1-side printing with overcoating the other side, the process is the same.)

Paper type Output size	Duplex designation	Image creation, Layout & transmit order		Image Transmit Process and Printer Operation	Media Delivery Image
Duplex Cut sheet Single-Layout	Long edge binding	<div>① ② Front </div> <div>Image transmission order ↓</div> <div>③ ④ Back </div>	⇒	<p>Image transmission procedure</p> <div>① Paper size setting SetMediaSize() Ex:for 8x10(front) set the parameter 231</div> <div>② Send BMP image A SendImageData()</div> <div>③ Paper size setting SetMediaSize() Ex:for 8x10(back) set the parameter 331</div> <div>④ Send BMP image B SendImageData()</div> <div>(Example for printing 1 side, and putting an overcoat on the other side) ※If you only want to print on one side of the paper, and overcoat the other side, the BMP image data sent for the overcoat side should be blank.</div> <div>①Paper size setting SetMediaSize() Ex: for 8x10(front) set the parameter 231</div> <div>②Send BMP image A SendImageData()</div> <div>③Paper size setting SetMediaSize() Ex: for 8x10(back) set the parameter 331</div> <div>④Send blank BMP image B SendImageData()</div>	
	Short edge binding	<div>① ② Front </div> <div>Image transmission order ↓</div> <div>③ ④ Back </div>	⇒	<div>①Standby ②Paper feed ③Printing ④Reversing</div> <div>⑤Printing ⑥Feed Out/Cut ⑦Finish/Standby</div> 	

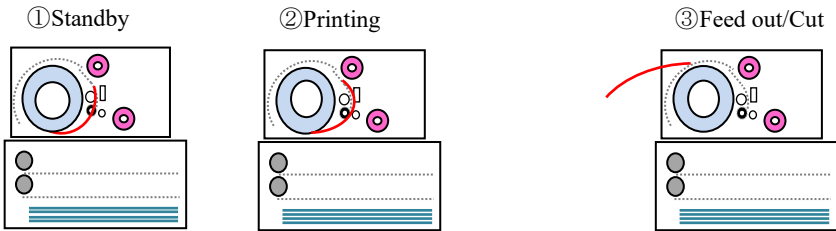
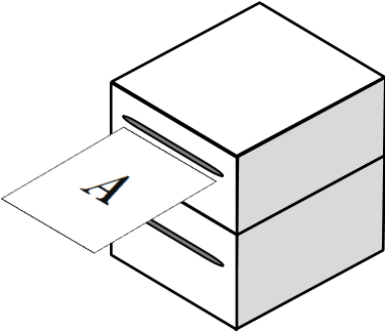
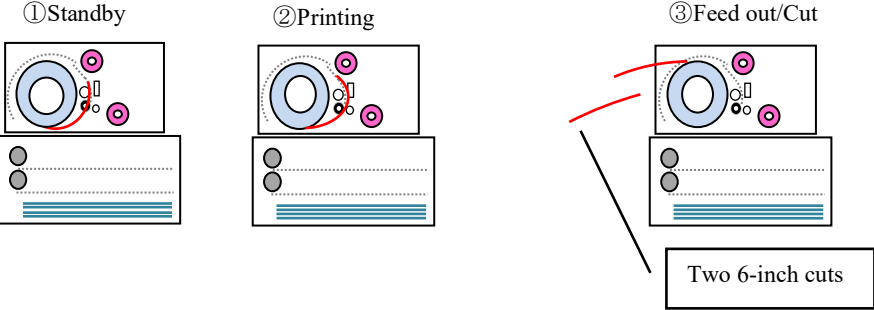
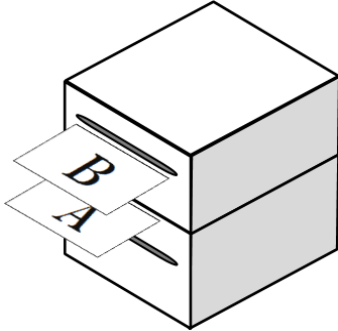
◆For duplex printing (Duplex cut sheet, 2-image layout. When printing only 1 side and overcoating the other side, the process is the same.)

Paper type Output size	Duplex designation	Image creation, Layout & transmit order	Printer Operation and Image Transmit Process	Media Delivery Image
Duplex Cut sheet Multi-Layout	Long edge		<p>Image transmission procedure</p> <p>① Paper size setting SetMediaSize() Ex: for 8x5x2(front) set the parameter 238</p> <p>② Send BMP image A SendImageData()</p> <p>③ Send BMP image C SendImageData()</p> <p>④ Paper size setting SetMediaSize() Ex: for 8x5x2(back) set the parameter 338</p> <p>⑤ Send BMP image B SendImageData()</p> <p>⑥ Send BMP image D SendImageData()</p> <p>(Example for printing 1 side, and putting an overcoat on the other side)</p> <p>※If you only want to print on one side of the paper, and overcoat the other side, the BMP image data sent for the overcoat side should be blank.</p> <p>①Paper size setting SetMediaSize() Ex: for 8x5x2(front) set parameter 238</p> <p>②Send BMP image A SendImageData()</p> <p>③Send BMP image C SendImageData()</p> <p>④Paper size setting SetMediaSize() Ex: for 8x5x2(back) set parameter 338</p> <p>⑤Send blank BMP image B SendImageData()</p> <p>⑥Send blank BMP image D SendImageData()</p>	
	Short edge		<p>①standby ②Paper feed ③Printing ④Reverse</p> <p>⑤Printing ⑥Feed out/Cut ⑦Finish/Standby</p> <p>Two 5-inch cuts</p>	

◆For single-side printing (Cut media, using the Turning unit)



Paper type Output size	Duplex designation	Image creation, Layout & transmit order		Printer Operation and Image Transmit Process	Media Delivery Image
Cut sheet Single-Layout	No	<div>① ②</div> <div>Front</div> <div>A</div>	⇒	<div>Image transmission procedure</div> <div>①Paper size setting SetMediaSize() Ex:for 8x10 set the parameter 131</div> <div>②Send BMP image A SendImageData()</div> <div>①Standby ②Paper feed ③Printing ④Feed out/Cut</div>	
Cut sheet Multi-layout	No	<div>① ②</div> <div>Front</div> <div>A</div> <div>8x5</div> <div>Front</div> <div>B</div> <div>8x5</div> <div>Image transmission order</div>	⇒	<div>Image transmission procedure</div> <div>①Paper size setting SetMediaSize() Ex:for 8x5x2 set the parameter 138</div> <div>②Send BMP image A SendImageData()</div> <div>①Standby ②Paper feed ③Printing ④Feed out/Cut</div> <div>Two 5-inch cuts</div>	

◆ For single-side printing (Roll media, not using the Turning unit)

Paper type Output size	Duplex designation	Image creation, Layout & transmit order		Printer Operation and Image Transmit Process	Media Delivery Image
Roll paper Single-Layout	No	<div>① ②</div> <div>Front</div> <div>A</div>	⇒	<div>Image transmission procedure</div> <div>①Paper size setting SetMediaSize() Ex:for 8x10 set the parameter 31</div> <div>②Send BMP image A SendImageData()</div> <div>①Standby ②Printing ③Feed out/Cut</div> 	
Roll paper Multi-layout	No	<div>① ②</div> <div>Front</div> <div>A</div> <div>8x6</div> <div>Front</div> <div>B</div> <div>8x6</div> <div>Image transmission order</div>	⇒	<div>Image transmission procedure</div> <div>①Paper size setting SetMediaSize() Ex:for 8x6x2 set the parameter 39</div> <div>②Send BMP image A SendImageData()</div> <div>①Standby ②Printing ③Feed out/Cut</div> 	

7. Ribbon Rewind Function (DP-DS620, DP-DS820)

- The host uses the Media Counter of Remaining Sheets information from the “Get Ribbon panel HALF Size Conversion Media Counter of Remaining Sheets” command to check the ribbon panel status. (DP-DS620 5x7*₁, 6x8, 6x9*₂, DP-DS820 8x10, 8x12, A4 media)
- If the ribbon panel Half Size Conversion Media Counter of Remaining Sheets returned is an even number, the ribbon panels are unused, and if it is an odd number, the panels are half-used.

Half Size Conversion Media Counter of Remaining Sheets	Ribbon Panel Status		
Even number	Unused condition		
Odd number	Half-used condition		

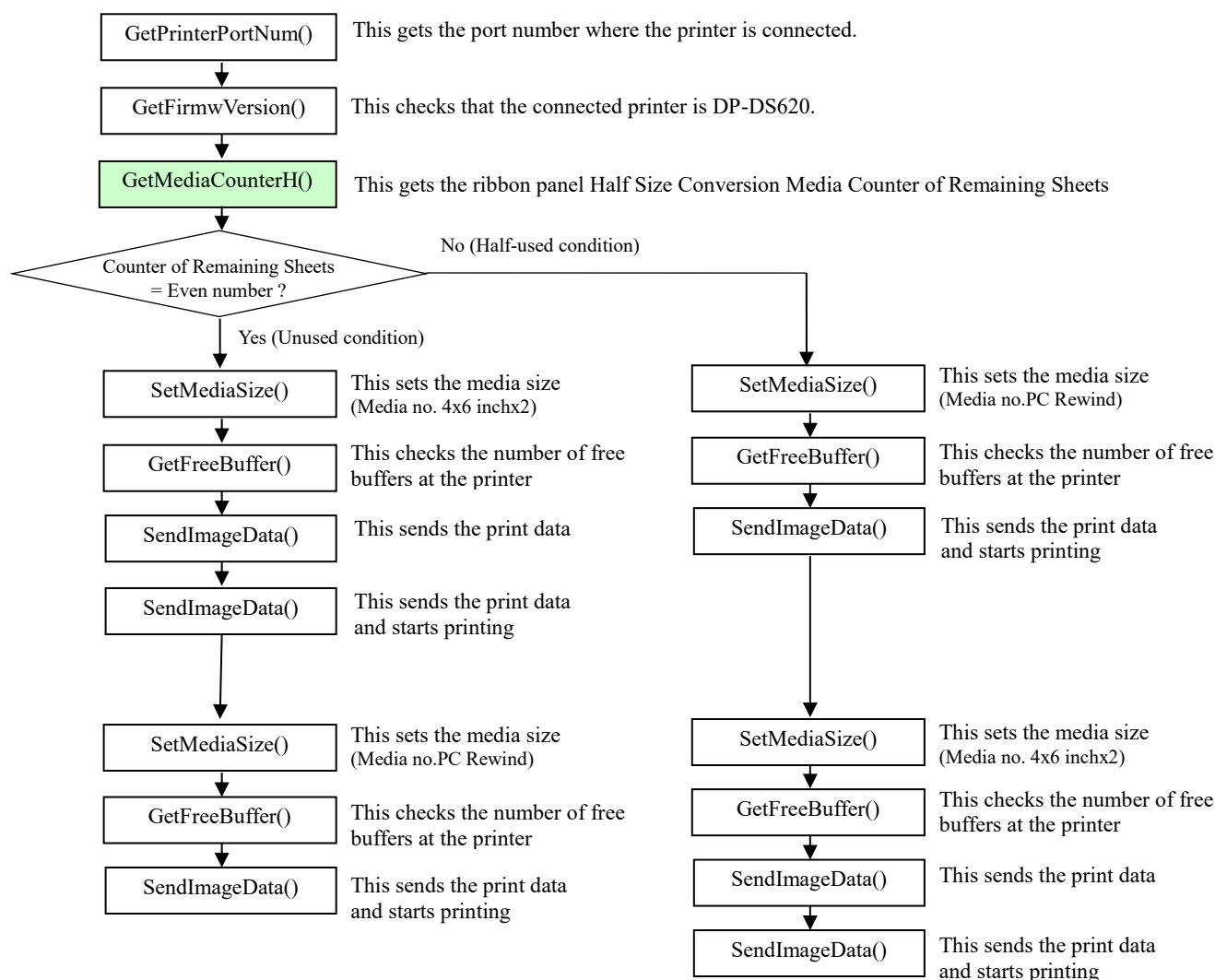
- * When PC Rewind (CSP_PC_REWIND) is selected with the DP-DS620 (A), printing is performed without rewinding the ribbon. The same applies when L Rewind (CSP_L_REWIND *₁) and 6x4.5 Rewind (CSP_6x4P5_REWIND *₂) is selected.
Also if the DP-DS820 is used, printing is performed without rewinding the ribbon.

Note
*1 Firmware version 0.31 or later
*2 Firmware version 1.10 or later

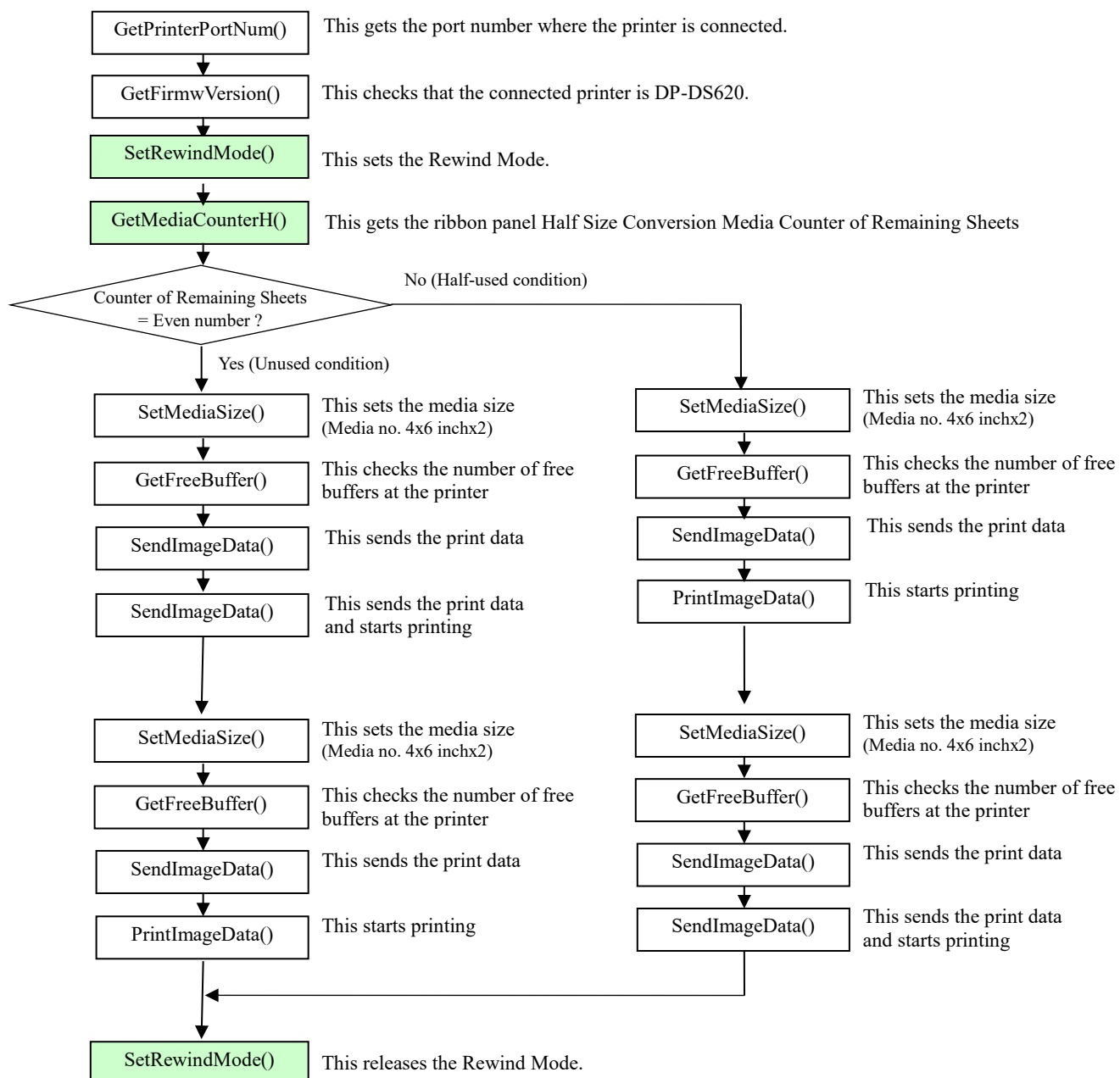
- It shows the example of printing to use the ribbon rewind function below.

Example of the Ribbon Rewind Function Process

- 1) This shows the process for the printing of three 6x4-size prints that specify the media size "PC Rewind (CSP_PC_REWIND)" or "PC 2-image layout (CSP_PCx2)".



- 2) This shows the process for the printing of three 6x4-size prints that specify the media size "PC 2-image layout (CSP_PCx2)" and use the Rewind Mode setting.



8.Standby Mode (DP-DS620, DP-DS820)

- If the printer is Idle for 10 minutes (or the set time if the standby transition time command has been used to change it), it will enter Standby Mode.
- While in the Standby Mode, the printer status will be “STATUS_USUALLY_STANDBY_MODE”, and the green LED will change from lit to flashing.
- The API listed above can be used during Standby Mode.

< API that can be used in Standby Mode >

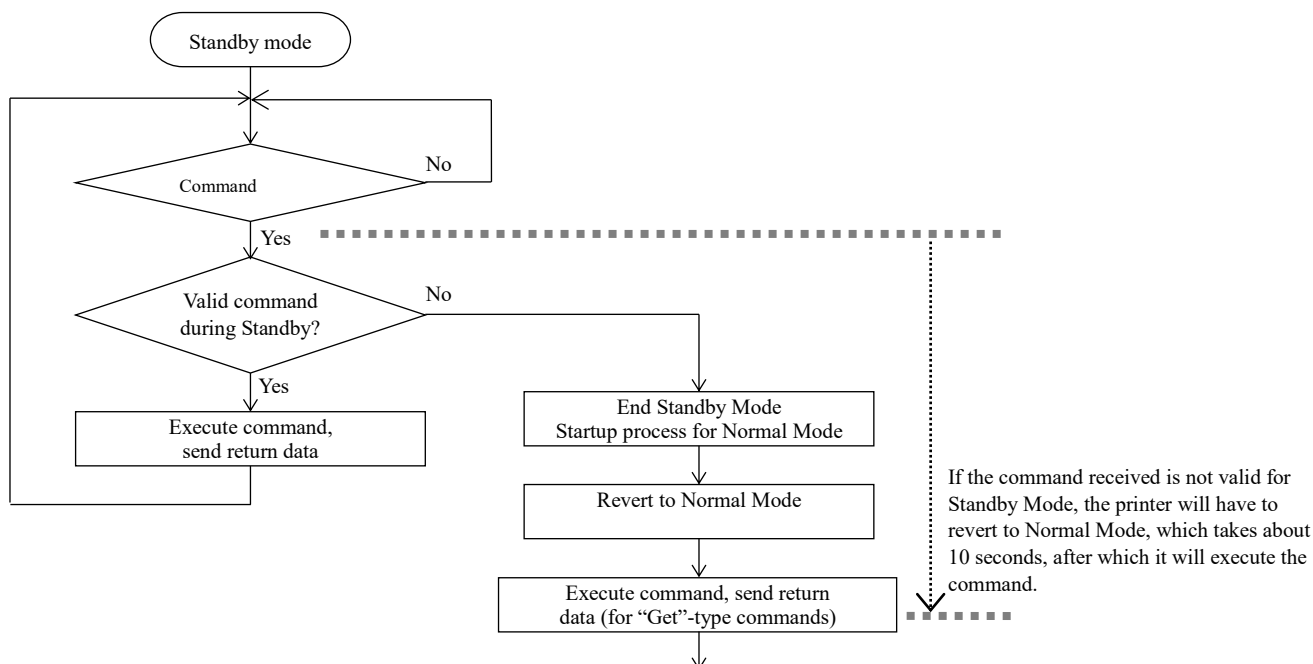
Function	API
Get Printer Status	CvGetStatus() / GetStatus()
Get Printer Serial Number	CvGetSerialNo() / GetSerialNo()
Get media counter default	GetInitialMediaCount()
Get Remaining Media Quantity	CvGetMediaCounter() / GetMediaCounter()
Get Half Size Conversion Ribbon Quantity	GetMediaCounterH()
Get Media User Info (Lot No.)	CvGetMediaLotNo() / GetMediaLotNo()
Get Media Code	CvGetMedia() / GetMedia()
Get Printer Version Information	CvGetVersion() / GetFirmwVersion() *1
Get Media Class	GetRfidMediaClass() *2

*1:DP-DS620 Firmware Version 0.31 or later

*2:Excluding DP-DS620 firmware version less than 3.00

- If any API other than those listed above while in Standby Mode is executed, or the cover is opened, the printer will come out of Standby Mode.
- If any API other than those listed above while in Standby Mode is executed, the printer will revert to Normal Mode before executing the process. In this case, the printer will need to undergo the startup process to revert to Normal Mode, and it will take approximately 10 seconds for the process to be executed. (See the chart below)

Printer operation when receiving commands during Standby



For “Get”-type commands that require return data from the printer, it will take approximately 10 seconds from the time of the command until the return data is sent from the printer. Therefore, after the Host issues the command, it will be necessary to wait while the return data is sent back from the printer.

9. Status API (CSPStat.Dll) function list

Operation of the API functions depends on the model connected and the firmware version compatibility. CSP Status API Ver.0.6.3.0 and later have the DLL filter function that checks the model and version. By using the filter function, the API function returns FALSE or (-1) if the printer is incompatible, and the command is not sent to the printer. By using the SetPrinterFilter() function on P28, you can turn the filter ON.

If the filter is turned OFF, operation may not be possible if the application uses printer-incompatible API functions. If the filter function is turned OFF, care must be taken that the application doesn't use printer-incompatible API functions.

9-1. Status API function list for CV, CW, CW02

○: Firmware compatible ×: Not firmware compatible(False or (-1))

Value: Compatible firmware version (Also compatible with subsequent versions)

API function	Direct Dll(CSP Stat.Dll) function name	Note	Standalone		
			CV	CW	CW02
Printer ID Number	GetPrinterPortNum();	-	○	○	○
Media size setting	SetMediaSize();	-	○	○	○
Send image data	SendImageData();	-	○	○	○
Printer resolution setting	SetResolution();	-	×	×	○
Designating print quantity	SetPQTY();	-	○	○	○
Start printing	PrintImageData();	-	○	○	○
Start page layout	StartPageLayout();	-	○	○	○
End page layout	EndPageLayout();	-	○	○	○
USB timeout setting	SetUSBTimeout();	-	○	○	○
CXM(for Tower) Function					
Get minilab tower status	GetMiniLabTowerStatis();	-	×	×	×
Minilab print data group no. Serial no. initial setting	SetMiniLabGroupNoIni();	-	×	×	×
Setting the miniLab print data group number	SetMiniLabGroupNo();	-	×	×	×
Setting the miniLab print data serial number	SetMiniLabSerialNo();	-	×	×	×
Setting miniLab back print data	SetMiniLabBackprintData();	-	×	×	×
Stop printing command	StopPrint();	-	×	×	×
Designation of paper feed destination	SetMiniLabOutputDest();	-	×	×	×
Set sorter paper max position detection sensor ON/OFF	SetMiniLabSortSensor();	-	×	×	×
Get sorter paper max position detection sensor ON/OFF	GetMiniLabSortSensor();	-	×	×	×
Get minilab group No.	GetMiniLabGroupNo();	-	×	×	×
Get minilab serial No.	GetMiniLabSerialNo();	-	×	×	×
Get printer address	GetMiniLabPrinterAdd();	-	×	×	×

API function	Direct Dll(CSP Stat.Dll) function name		Note	Standalone		
				CV	CW	CW02
Get printer version information	CvGetVersion();	GetFirmwVersion();	-	○	○	○
Get printer sensor information	CvGetSensorInfo();	GetSensorInfo();	-	○	○	○
Get printer resolution	CvGetResolutionH(); CvGetResolutionV();	GetResolutionH(); GetResolutionV();	-	○	○	○
Get printer media code	CvGetMedia();	GetMedia();	-	○	○	○
Get printer status	CvGetStatus();	GetStatus();	-	○	○	○
Get printer counter value	CvGetCounterL(); CvGetCounterA() CvGetCounterB();	GetCounterL();	-	○	○	○
		GetCounterA();	-	○	○	○
		GetCounterB();	-	○	○	○
		GetCounterP();	-	×	×	○
		GetCounterMatte()	-	×	×	○
		GetCounterM();	-	×	×	○
Set printer counter value (P)	SetCounterP();		-	×	×	○
Clear printer counter value	CvSetClearCounterA();	SetClearCounterA();	-	○	○	○
	CvSetClearCounterB();	SetClearCounterB();	-	○	○	○
Clear printer counter value(Matte)	SetClearCounterM();		-	×	×	○
Get the number of free image buffers	CvGetFreeBuffer();	GetFreeBuffer();	-	○	○	○
Get remaining print quantity	CvGetPQTY();	GetPQTY();	-	○	○	○
Get the media counter of remaining sheets	CvGetMediaCounter();	GetMediaCounter();	-	○	○	○

API function	Direct Dll(CSP Stat.Dll) function name		Note	Standalone		
				CV	CW	CW02
Half Size Conversion Media Counter of Remaining Sheets		GetMediaCounterH();	-	x	x	x
Get media color offset value of the lot	CvGetMediaColorOffset();	GetMediaColorOffset();	-	○	○	○
Get media lot information	CvGetMediaLotNo();	GetMediaLotNo();	-	○	○	○
Get printer serial number	CvGetSerialNo();	GetSerialNo();	-	○	○	○
Set printer update mode	CvSetFirmwUpdateMode();	SetFirmwUpdateMode();	-	○	○	○
Write firmware data	CvSetFirmwDataWrite();	SetFirmwDataWrite();	-	○	○	○
Clear color data	CvSetColorDataClear();	SetColorDataClear();	-	x	○	x
Write color data	CvSetColorDataWrite();	SetColorDataWrite();	-	x	○	x
Set color data version	CvSetColorDataVersion();	SetColorDataVersion();	-	x	○	x
Write color data (temporary)	SetColorDataWriteTmp();		-	x	○	x
Set color data version(temporary)	SetColorDataVersionTmp();		-	x	○	x
Get color data version	CvGetColorDataVersion();	GetColorDataVersion();	-	○	○	○
Get Color Data Version <Type designation>	GetColorDataVersionRes ();		-	x	x	x
Get Color Data Version <Type Media designation>	GetColorDataVersionResEX ();		-	x	x	x
Get color data checksum	CvGetColorDataChecksum();	GetColorDataChecksum();	-	○	○	○
Get Color Data Checksum <Type designation>	GetColorDataChecksumRes ();		-	x	x	x
Get Color Data Checksum Ex<Type, Media designation>	GetColorDataChecksumRes EX();		-	x	x	x
Cutter control command	SetCutterMode();		-	○	○	○
Get media ID setting value	GetMediaIdSetInfo();		-	x	○	○
Set 1-image retention control command	SetRetentionMode();		-	x	x	x
Overcoat finish control command	SetOvercoatFinish();		-	x	x	○
Print retry control command	SetRetryControl();		-	x	x	○
Get media class	GetRfidMediaClass();		-	x	x	x
Get RF-ID reserve data	GetRfidReserveData();		-	x	x	x
Get media counter default	GetInitialMediaCount();		-	x	x	x
Get media offset count	GetMediaCountOffset();		-	x	x	x
Get Turning unit firmware version	GetVersionDuplex();		-	x	x	x
Full Cutter Set-up	SetFullCutterSetUp();		-	x	x	x
Full Cutter Set-up Extended Settings	SetFullCutterSetUpEX();		-	x	x	x
Set Standby Mode Transition Time	SetStandbyTime();		-	x	x	x
Get Standby Mode Transition Time	GetStandbyTime();		-	x	x	x
Set Media End Keep Mode	SetEndKeepMode ();		-	x	x	x
Get Media End Keep Mode	GetEndKeepMode ();		-	x	x	x
Set USB iSerialNumber availability setting	SetUSBSerialEnable ();		-	x	x	x
Get USB iSerialNumber availability setting	GetUSBSerialEnable ();		-	x	x	x
Set Rewind Mode setting	SetRewindMode ();		-	x	x	x
Get Rewind Mode setting	GetRewindMode ();		-	x	x	x
Panorama Print Start Check	GetPanoramaPrintable();		-	x	x	x
Continuous Panoramic Prints settings	SetContPanorama();		-	x	x	x
Set Print Speed	SetPrintSpeed();		-	x	x	x
Set Gamma Table	SetGammaTable();		-	x	x	x
Get Gamma Table Checksum	GetGammaTableChecksum();		-	x	x	x
Clear Data Table	SetDataTableClear();		-	x	x	x
Set Turning unit rewrite mode	SetDunitFirmwUpdateMode();		-	x	x	x
Write Turning unit firmware data	SetDunitFirmwDataWrite();		-	x	x	x
Get Turning unit firmware rewriting status	GetDunitUpdateStatus();		-	x	x	x
Request Creation of Turning Unit Error Log	DunitErrorLogCreateReq();		-	x	x	x
Get Turning Unit Error Log Data Length	GetDunitErrorLogDataLength();		-	x	x	x
Receive the Turning Unit Error Log Data	GetDunitErrorLogData();		-	x	x	x
Get the Turning Unit Error Log Creation Status	GetDunitErrorLogStatus();		-	x	x	x

API function	Direct Dll(CSP Stat.Dll) function name	Note	Standalone		
			CV	CW	CW02
Set decurl control	SetDecurlCtrl();	-	×	×	×
Current time notification	SetSysTime();	-	×	×	×
Get Supported Media Information	GetSupportedMediaInfo();	-	×	×	×
Common set command	CvSetCommand();	SetCommand();	-	○	○
Common get command	CvGetCommandEX();	GetCommandEX();	-	○	○

9-2. Status API function list for DS40, DS80, DS40T, DS80T

○: Firmware compatible ×: Not firmware compatible(False or (-1))

Value: Compatible firmware version (Also compatible with subsequent versions)

API function	Direct Dll(CSP Stat.Dll) function name	Note	Standalone		For Tower	
			DS40	DS80	DS40T	DS80T
Printer ID Number	GetPrinterPortNum();	-	○	○	○	○
Media size setting	SetMediaSize();	-	○	○	○	○
Send image data	SendImageData();	-	○	○	○	○
Printer resolution setting	SetResolution();	-	○	○	○	○
Designating print quantity	SetPQTY();	-	○	○	○	○
Start printing	PrintImageData();	-	○	○	○	○
Start page layout	StartPageLayout();	-	○	○	○	○
End page layout	EndPageLayout();	-	○	○	○	○
USB timeout setting	SetUSBTimeout();	-	○	○	○	○
CXM(for Tower) Function						
Get minilab tower status	GetMiniLabTowerStat();	-	×	×	○	○
Minilab print data group no. Serial no. initial setting	SetMiniLabGroupNoIni();	-	×	×	○	○
Setting the miniLab print data group number	SetMiniLabGroupNo();	-	×	×	○	○
Setting the miniLab print data serial number	SetMiniLabSerialNo();	-	×	×	○	○
Setting miniLab back print data	SetMiniLabBackprintData();	-	×	×	○	○
Stop printing command	StopPrint();	-	×	×	○	○
Designation of paper feed destination	SetMiniLabOutputDest();	-	×	×	○	○
Set sorter paper max position detection sensor ON/OFF	SetMiniLabSortSensor();	-	×	×	○	○
Get sorter paper max position detection sensor ON/OFF	GetMiniLabSortSensor();	-	×	×	○	○
Get minilab group No.	GetMiniLabGroupNo();	-	×	×	○	○
Get minilab serial No.	GetMiniLabSerialNo();	-	×	×	○	○
Get printer address	GetMiniLabPrinterAdd();	-	×	×	○	○

API function	Direct Dll(CSP Stat.Dll) function name	Note	Standalone		For Tower	
			DS40	DS80	DS40T	DS80T
Get printer version information	CvGetVersion();	GetFirmwVersion();	-	○	○	○
Get printer sensor information	CvGetSensorInfo();	GetSensorInfo();	-	○	○	○
Get printer resolution	CvGetResolutionH(); CvGetResolutionV();	GetResolutionH(); GetResolutionV();	-	○	○	○
Get printer media code	CvGetMedia();	GetMedia();	-	○	○	○
Get printer status	CvGetStatus();	GetStatus();	-	○	○	○
Get printer counter value	CvGetCounterL();	GetCounterL();	-	○	○	○
	CvGetCounterA();	GetCounterA();	-	○	○	○
	CvGetCounterB();	GetCounterB();	-	○	○	○
		GetCounterP();	-	1.04	1.02	0.21
		GetCounterMatte();	-	1.30	1.30	0.31
		GetCounterM();	-			
Set printer counter value (P)	SetCounterP();		-	1.04	1.02	0.21
Clear printer counter value	CvSetClearCounterA();	SetClearCounterA();	-	○	○	○

API function	Direct Dll(CSP Stat.Dll) function name		Note	Standalone		For Tower	
				DS40	DS80	DS40T	DS80T
	CvSetClearCounterB();	SetClearCounterB();					
Clear printer counter value(Matte)	SetClearCounterM();		-	1.30	1.30	0.31	0.31
Get the number of free image buffers	CvGetFreeBuffer();	GetFreeBuffer();	-	○	○	○	○
Get remaining print quantity	CvGetPQTY();	GetPQTY();	-	○	○	○	○
Get the media counter of remaining sheets	CvGetMediaCounter();	GetMediaCounter();	-	○	○	○	○
Half Size Conversion Media Counter of Remaining Sheets		GetMediaCounterH();	-	×	×	×	×
Get media color offset value of the lot	CvGetMediaColorOffset();	GetMediaColorOffset();	-	○	○	○	○
Get media lot information	CvGetMediaLotNo();	GetMediaLotNo();	-	○	○	○	○
Get printer serial number	CvGetSerialNo();	GetSerialNo();	-	○	○	○	○
Set printer update mode	CvSetFirmwUpdateMode();	SetFirmwUpdateMode();	-	○	○	○	○
Write firmware data	CvSetFirmwDataWrite();	SetFirmwDataWrite();	-	○	○	○	○
Clear color data	CvSetColorDataClear();	SetColorDataClear();	-	×	×	×	×
Write color data	CvSetColorDataWrite();	SetColorDataWrite();	-	×	×	×	×
Set color data version	CvSetColorDataVersion();	SetColorDataVersion();	-	×	×	×	×
Write color data (temporary)	SetColorDataWriteTmp();		-	×	×	×	×
Set color data version(temporary)	SetColorDataVersionTmp();		-	×	×	×	×
Get color data version	CvGetColorDataVersion();	GetColorDataVersion();	-	○	○	○	○
Get Color Data Version <Type designation>	GetColorDataVersionRes ();		-	×	×	×	×
Get Color Data Version <Type Media designation>	GetColorDataVersionResEX ();		-	×	×	×	×
Get color data checksum	CvGetColorDataChecksum();	GetColorDataChecksum();	-	○	○	○	○
Get Color Data Checksum <Type designation>	GetColorDataChecksumRes ();		-	×	×	×	×
Get Color Data Checksum Ex<Type、Media designation>	GetColorDataChecksumRes EX();		-	×	×	×	×
Cutter control command	SetCutterMode();		-	○	○	○	○
Get media ID setting value	GetMediaIdSetInfo();		-	○	○	○	○
Set 1-image retention control command	SetRetentionMode();		-	○	×	○	×
Overcoat finish control command	SetOvercoatFinish()		-	1.30	1.30	0.31	0.31
Print retry control command	SetRetryControl()		-	1.30	1.30	×	×
Get media class	GetRfidMediaClass()		-	×	×	×	×
Get RF-ID reserve data	GetRfidReserveData()		-	×	×	×	×
Get media counter default	GetInitialMediaCount()		-	2.00	×	×	×
Get media offset count	GetMediaCountOffset()		-	2.00	×	×	×
Get Turning unit firmware version	GetVersionDuplex()		-	×	×	×	×
Full Cutter Set-up	SetFullCutterSetUp();		-	1.60	×	×	×
Full Cutter Set-up Extended Settings	SetFullCutterSetUpEX()		-	1.60	×	×	×
Set Standby Mode Transition Time	SetStandbyTime();		-	×	×	×	×
Get Standby Mode Transition Time	GetStandbyTime();		-	×	×	×	×
Set Media End Keep Mode	SetEndKeepMode ();		-	×	×	×	×
Get Media End Keep Mode	GetEndKeepMode ();		-	×	×	×	×
Set USB iSerialNumber availability setting	SetUSBSerialEnable ();		-	2.00	×	×	×
Get USB iSerialNumber availability setting	GetUSBSerialEnable ();		-	2.00	×	×	×
Set Rewind Mode setting	SetRewindMode ();		-	×	×	×	×
Get Rewind Mode setting	GetRewindMode ();		-	×	×	×	×
Panorama Print Start Check	GetPanoramaPrintable()		-	×	×	×	×
Continuous Panoramic Prints settings	SetContPanorama()		-	×	×	×	×
Set Print Speed	SetPrintSpeed()		-	×	×	×	×
Set Gamma Table	SetGammaTable()		-	×	×	×	×
Get Gamma Table Checksum	GetGammaTableChecksum()		-	×	×	×	×
Clear Data Table	SetDataTableClear();		-	×	×	×	×
Set Turning unit rewrite mode	SetDunitFirmwUpdateMode();		-	×	×	×	×
Write Turning unit firmware data	SetDunitFirmwDataWrite();		-	×	×	×	×

API function	Direct Dll(CSP Stat.Dll) function name	Note	Standalone		For Tower	
			DS40	DS80	DS40T	DS80T
Get Turning unit firmware rewriting status	GetDunitUpdateStatus();	–	×	×	×	×
Request Creation of Turning Unit Error Log	DunitErrorLogCreateReq();	–	×	×	×	×
Get Turning Unit Error Log Data Length	GetDunitErrorLogDataLength();	–	×	×	×	×
Receive the Turning Unit Error Log Data	GetDunitErrorLogData();	–	×	×	×	×
Get the Turning Unit Error Log Creation Status	GetDunitErrorLogStatus();	–	×	×	×	×
Set decurl control	SetDecurlCtrl();	–	×	×	×	×
Current time notification	SetSysTime();	–	×	×	×	×
Get Supported Media Information	GetSupportedMediaInfo();	–	×	×	×	×
Common set command	CvSetCommand();	SetCommand();	–	○	○	○
Common get command	CvGetCommandEX();	GetCommandEX();	–	○	○	○

9-3. Status API function list for DS-RX1, DP-TC10, DP-DS80D, DP-DS620, DP-DS820, DP-QW410

○: Firmware compatible ×: Not firmware compatible(False or (-1)) Value: Compatible firmware version (Also compatible with subsequent versions)

API function	Direct DLL(CSP Stat.DLL) function name	Note	Standalone					
			DS-RX1	DP-TC10	Duplex DP-DS80D	DP-DS620	DP-DS820	DP-QW410
Printer ID Number	GetPrinterPortNum();	-	○	○	○	○	○	○
Media size setting	SetMediaSize();	-	○	○	○	○	○	○
Send image data	SendImageData();	*3	○	○	○	○	○	○
Printer resolution setting	SetResolution();	-	○	○	○	○	○	○
Designating print quantity	SetPQTY();	*3	○	○	○	○	○	○
Start printing	PrintImageData();	*3	○	○	○	○	○	○
Start page layout	StartPageLayout();	-	○	○	○	○	○	○
End page layout	EndPageLayout();	-	○	○	○	○	○	○
USB timeout setting	SetUSBTimeout();	-	○	○	○	○	○	○
CXM(for Tower) Function								
Get minilab tower status	GetMiniLabTowerStatus();	-	×	×	×	×	×	×
Minilab print data group no. Serial no. initial setting	SetMiniLabGroupNoIni();	-	×	×	×	×	×	×
Setting the miniLab print data group number	SetMiniLabGroupNo();	-	×	×	×	×	×	×
Setting the miniLab print data serial number	SetMiniLabSerialNo();	-	×	×	×	×	×	×
Setting miniLab back print data	SetMiniLabBackprintData();	-	×	×	×	×	×	×
Stop printing command	StopPrint();	-	×	×	×	×	×	×
Designation of paper feed destination	SetMiniLabOutputDest();	-	×	×	×	×	×	×
Set sorter paper max position detection sensor ON/OFF	SetMiniLabSortSensor();	-	×	×	×	×	×	×
Get sorter paper max position detection sensor ON/OFF	GetMiniLabSortSensor();	-	×	×	×	×	×	×
Get minilab group No.	GetMiniLabGroupNo();	-	×	×	×	×	×	×
Get minilab serial No.	GetMiniLabSerialNo();	-	×	×	×	×	×	×
Get printer address	GetMiniLabPrinterAdd();	-	×	×	×	×	×	×

API function	Direct DII(CSP Stat.DII) function name		Note	Standalone					
				DS-RX1	DP-TC10	Duplex DP-DS80D	DP-DS620	DP-DS820	DP-QW410
Get printer version information	CvGetVersion();	GetFirmwVersion();	*1	○	○	○	○	○	○
Get printer sensor information	CvGetSensorInfo();	GetSensorInfo();	*2	○	○	○	○	○	○
Get printer resolution	CvGetResolutionH(); CvGetResolutionV();	GetResolutionH(); GetResolutionV();	*2	○	○	○	○	○	○
Get printer media code	CvGetMedia();	GetMedia();	*1	○	○	○	○	○	○
Get printer status	CvGetStatus();	GetStatus();	*1	○	○	○	○	○	○
Get printer counter value	CvGetCounterL(); CvGetCounterA() CvGetCounterB();	GetCounterL();	*2	○	○	○	○	○	○
		GetCounterA();							
		GetCounterB();							
		GetCounterP();	*2	○	○	○	○	○	○
		GetCounterMatte();	*2	○	○	○	○	○	○
		GetCounterM();							
Get Life Counter Value Extended	GetCounterLifeEX();		*3	×	×	×	4.00	×	×
Get Matte Counter Value Extended	GetCounterMatteEX();		*3	×	×	×	4.00	×	×
Set printer counter value (P)	SetCounterP();		*3	○	○	○	○	○	○
Clear printer counter value	CvSetClearCounterA();	SetClearCounterA();	*3	○	○	○	○	○	○
	CvSetClearCounterB();	SetClearCounterB();							
Clear printer counter value(Matte)	SetClearCounterM();		*3	○	○	○	○	○	○
Get the number of free image buffers	CvGetFreeBuffer();	GetFreeBuffer();	*2	○	○	○	○	○	○
Get remaining print quantity	CvGetPQTY();	GetPQTY();	*2	○	○	○	○	○	○
Get the media counter of remaining sheets	CvGetMediaCounter();	GetMediaCounter();	*1	○	○	○	○	○	○
Half Size Conversion Media Counter of Remaining Sheets		GetMediaCounterH();	*1	×	×	×	○	○	×
Get media color offset value of the lot	CvGetMediaColorOffset();	GetMediaColorOffset();	*2	○	○	○	○	○	○
Get media lot information	CvGetMediaLotNo();	GetMediaLotNo();	*1	○	○	○	○	○	○
Get printer serial number	CvGetSerialNo();	GetSerialNo();	*1	○	○	○	○	○	○
Set printer update mode	CvSetFirmwUpdateMode();	SetFirmwUpdateMode();	*3	○	○	○	○	○	○
Write firmware data	CvSetFirmwDataWrite();	SetFirmwDataWrite();	-	○	○	○	○	○	○
Clear color data	CvSetColorDataClear();	SetColorDataClear();	*3	×	×	×	○	○	○
Write color data	CvSetColorDataWrite();	SetColorDataWrite();	*3	×	×	×	○	○	○
Set color data version	CvSetColorDataVersion();	SetColorDataVersion();	*3	×	×	×	○	○	○
Write color data (temporary)	SetColorDataWriteTmp();		-	×	×	×	×	×	×
Set color data version(temporary)	SetColorDataVersionTmp();		-	×	×	×	×	×	×
Get color data version	CvGetColorDataVersion();	GetColorDataVersion();	*2	○	○	○	○	○	○
Get Color Data Version <Type designation>	GetColorDataVersionRes();		*2	×	×	×	○	○	○

API function	Direct DII(CSP Stat.DII) function name	Note	Standalone					
			DS-RX1	DP-TC10	Duplex DP-DS80D	DP-DS620	DP-DS820	DP-QW410
Get Color Data Version <Type Media designation>	GetColorDataVersionResEX();	*2	×	×	×	3.00	○	○
Get color data checksum	CvGetColorDataChecksum(); GetColorDataChecksum();	*2	○	○	○	○	○	○
Get Color Data Checksum <Type designation>	GetColorDataChecksumResEX();	*2	×	×	×	○	○	○
Get Color Data Checksum <Type, Media designation>	GetColorDataChecksumResEX();	*2	×	×	×	3.00	○	○
Cutter control command	SetCutterMode();	*3	○	○	○※1	○	○	○
Get media ID setting value	GetMediaIdSetInfo();	*2	○	○	○	○	○	○
Set 1-image retention control command	SetRetentionMode();	-	×	×	×	×	×	×
Overcoat finish control command	SetOvercoatFinish();	*3	○	○	○	○	○	○
Print retry control command	SetRetryControl();	*3	○	○	○※1	○	○	○
Get media class	GetRfidMediaClass();	*5	○	○	×	○	○	○
Get RF-ID reserve data	GetRfidReserveData();	*2	○	○	×	○	○	○
Get media counter default	GetInitialMediaCount();	*1	○	○	×	○	○	○
Get media offset count	GetMediaCountOffset();	-	2.00	×	×	×	×	×
Get Turning unit firmware version	GetVersionDuplex();	-	×	×	○	×	×	×
Full Cutter Set-up	SetFullCutterSetUp();	*3	×	×	×	○	○	○
Full Cutter Set-up Extended Settings	SetFullCutterSetUpEX();	*3	×	×	×	1.20	○	○
Set Standby Mode Transition Time	SetStandbyTime();	*3	×	×	×	○	○	×
Get Standby Mode Transition Time	GetStandbyTime();	*2	×	×	×	○	○	×
Set Media End Keep Mode	SetEndKeepMode();	*3	×	×	×	○	○	○
Get Media End Keep Mode	GetEndKeepMode();	*2	×	×	×	○	○	○
Set USB iSerialNumber availability setting	SetUSBSerialEnable();	*3	2.00	×	×	○	○	○
Get USB iSerialNumber availability setting	GetUSBSerialEnable();	*2	2.00	×	×	○	○	○
Set Rewind Mode setting	SetRewindMode();	-	×	×	×	○	○	×
Get Rewind Mode setting	GetRewindMode();	-	×	×	×	○	○	×
Panorama Print Start Check	GetPanoramaPrintable();	*2	×	×	×	1.20	○	×
Continuous Panoramic Prints settings	SetContPanorama();	*3	×	×	×	1.31	○	×
Set Print Speed	SetPrintSpeed();	*3	×	×	×	×	○	○
Set Gamma Table	SetGammaTable();	*3	×	×	×	×	0.50	×
Get Gamma Table Checksum	GetGammaTableChecksum();	*2	×	×	×	×	0.50	×
Clear Data Table	SetDataTableClear();	*3	×	×	×	×	0.50	×

API function	Direct DLL(CSP Stat.DLL) function name	Note	Standalone					
			DS-RX1	DP-TC10	Duplex DP-DS80D	DP-DS620	DP-DS820	DP-QW410
Set Turning unit rewrite mode	SetDunitFirmwUpdateMode();	-	×	×	1.11	×	×	×
Write Turning unit firmware data	SetDunitFirmwDataWrite();	-	×	×	1.11	×	×	×
Get Turning unit firmware rewriting status	GetDunitUpdateStatus();	-	×	×	1.11	×	×	×
Request Creation of Turning Unit Error Log	DunitErrorLogCreateReq();	-	×	×	1.17	×	×	×
Get Turning Unit Error Log Data Length	GetDunitErrorLogDataLength();	-	×	×	1.17	×	×	×
Receive the Turning Unit Error Log Data	GetDunitErrorLogData();	-	×	×	1.17	×	×	×
Get the Turning Unit Error Log Creation Status	GetDunitErrorLogStatus();	-	×	×	1.17	×	×	×
Set decurl control	SetDecurlCtrl();	-	×	×	×	×	×	○
Current time notification	SetSysTime();	-	×	×	×	×	×	○
Get Supported Media Information	GetSupportedMediaInfo();	*3	×	×	×	4.00	×	×
Common set command	CvSetCommand();	SetCommand();	*4	○	○	○	○	○
Common get command	CvGetCommandEX();	GetCommandEX();	*4	○	○	○	○	○

※1: Only compatible when printing on roll media.

Note (Compatible model= DP-DS620, DP-DS820)

*1: The printer can send return data even in Standby mode.

*2: During Standby mode, the printer will return to normal mode before carrying out the command and sending the return data (sends after approx. 10 sec).

The Host will have to wait for the printer to send the return data.

*3: During Standby mode, the printer will return to normal mode before carrying out the command (performs command after approx. 10 sec).

*4: During Standby mode, the behavior of the printer depends on the type of command to be issued.

*5: DP-DS820 printers and the firmware version of the DP-DS620 printer is 3.00 or later, the same operation as * 1. If the firmware version of the DP-DS620 printer is less than 3.00, the behavior is the same as * 2. (Refer to8.Standby Mode)

10.About the API function movement of the KIOSK model

Movement when KIOSK F/W was written in at a tower controller, and an API function for towers was called.

	Command	CSP Printer Status API function	DS40T	DS80T
Setting	Setting the MiniLab Print Data Group Number	SetMiniLabGroupNo()	○	○
	Minilab Print Data Group No., Serial No.Initial Setting	SetMiniLabGroupNoIni()	○	○
	Setting the MiniLab Print Data Serial Number	SetMiniLabSerialNo()	○	○
	Setting MiniLab Back Print Data	SetMiniLabBackprintData()	●	●
	Designation of Paper Feed Destination	SetMiniLabOutputDest()	●	●
	Stop Printing Command	StopPrint()	○	○
	Set Sorter Paper MAX Position Detection Sensor ON/OFF	SetMiniLabSrtSensor()	●	●
	Set Printer Counter Value	SetCounterP()	○	○
Getting	Get Minilab Tower Status	GetMiniLabTowerStatus ()	○	○
	Get Minilab Group No.	GetMiniLabGroupNo()	○	○
	Get Minilab Serial No.	GetMiniLabSerialNo()	○	○
	Get Printer Address	GetMiniLabPrinterAdd()	○	○
	Get Sorter Paper MAX Position Detection Sensor ON/OFF	GetMiniLabSrtSensor()	○	○
	Get Printer Counter Value	GetCounterP()	○	○
The command that movement is different				
Getting	Get Printer Status	GetStatus()	△	△

○ = There is no difference.

● = Setting is ignored.

△ = When a printer output a seal image("Shooting" status) , the status does not change in "Backprint".

11. Procedure to firmware update when using API

11-1 Procedure to update.

If you write the firmware using StatusAPI, you can do it in the following procedures. Then check that the writing occurred properly by checking the version and checksum.

		Reference
Using API)		
1 SetFirmwUpdateMode()	Switch to firmware update mode.	P63
2 SetFirmwDataWrite()	Write firmware data.	P64
3 GetFirmwVersion()	Check the firmware version.	P39
4 SetColorDataClear()	Clear the control data.	P70
5 SetColorDataVersion()	Set the 300dpi control data version.	P71
6 SetColorDataWrite()	Write the 300dpi control data.	P70
7 GetColorDataVersion()	Check the 300dpi control data version.	P71
8 GetColorDataChecksum()	Check the 300dpi control data checksum.	P75
9 SetColorDataVersion()	Set the 600dpi control data version.	P71
10 SetColorDataWrite()	Write the 600dpi control data.	P70
11 GetColorDataVersion()	Check the 600dpi control data version.	P71
12 GetColorDataChecksum()	Check the 600dpi control data checksum.	P75

■DP-DS620(Firmware version less than 3.00)

		Reference
Using API)		
1 SetFirmwUpdateMode()	Switch to firmware update mode.	P63
2 SetFirmwDataWrite()	Write firmware data.	P64
3 GetFirmwVersion()	Check the firmware version.	P39
4 SetColorDataClear()	Clear the control data.	P70
5 SetColorDataVersion()	Set the 300dpi control data version.	P71
6 SetColorDataWrite()	Write the 300dpi control data.	P70
7 GetColorDataVersionRes()	Check the 300dpi control data version.	P72
8 GetColorDataChecksumRes()	Check the 300dpi control data checksum.	P75
9 SetColorDataVersion()	Set the 600dpi control data version.	P71
10 SetColorDataWrite()	Write the 600dpi control data.	P70
11 GetColorDataVersionRes()	Check the 600dpi control data version.	P72
12 GetColorDataChecksumRes()	Check the 600dpi control data checksum.	P75
13 SetColorDataVersion()	Set the Low Speed control data version.	P71
14 SetColorDataWrite()	Write the Low Speed control data.	P70
15 GetColorDataVersionRes()	Check the Low Speed control data version.	P72
16 GetColorDataChecksumRes()	Check the Low Speed control data checksum.	P76

■DP-DS820, DP-QW410, DP-DS620 (Firmware version 3.00 or later)

In the DP-DS820, DP-QW410 and DP-DS620(Firmware version 3.00 or later) multiple media is mounted. There is a need to write the media type for each color control data.

(Excluding steps 9-12 and 17-20 because DP-QW410 does not support resolution 600 dpi and high density.

Excluding steps 17-20 because DP-DS620(Firmware version 3.00 or later) does not support high density.)

		Reference
Using API)		
1 SetFirmwUpdateMode()	Switch to firmware update mode.	P63
2 SetFirmwDataWrite()	Write firmware data.	P64
3 GetFirmwVersion()	Check the firmware version.	P39
4 SetColorDataClear()	Clear the control data.	P70
Media Type 1		
5 SetColorDataVersion()	Set the 300dpi control data version.	P71
6 SetColorDataWrite()	Write the 300dpi control data.	P70
7 GetColorDataVersionResEX()	Check the 300dpi control data version.	P73
8 GetColorDataChecksumResEX()	Check the 300dpi control data checksum.	P76
9 SetColorDataVersion()	Set the 600dpi control data version.	P71
10 SetColorDataWrite()	Write the 600dpi control data.	P70
11 GetColorDataVersionResEX()	Check the 600dpi control data version.	P73
12 GetColorDataChecksumResEX()	Check the 600dpi control data checksum.	P76
13 SetColorDataVersion()	Set the Low Speed control data version.	P71
14 SetColorDataWrite()	Write the Low Speed control data.	P70
15 GetColorDataVersionResEX()	Check the Low Speed control data version.	P73

16 GetColorDataChecksumResEX()	Check the Low Speed control data checksum.	P76
17 SetColorDataVersion()	Set the High Density control data version.	P71
18 SetColorDataWrite()	Write the High Density control data.	P70
19 GetColorDataVersionraResEX()	Check the High Density control data version.	P73
20 GetColorDataChecksumResEX()	Check the High Density control data checksum.	P76

Media Tyep 2
Repeat 5-20

11-2 Procedure to update for Turning unit.

If you write the Turning unit firmware using StatusAPI, you can do it in the following procedures. Then check that the writing occurred properly by checking the version.

		Reference
Using API)		
1 SetDunitFirmwUpdateMode()	Set Turning unit rewrite mode.	P65
2 GetDunitUpdateStatus()	Get Turning unit firmware rewriting status	P66
3 SetDunitFirmwDataWrite()	Write Turning unit firmware data	P65
4 GetDunitUpdateStatus()	Get Turning unit firmware rewriting status	P66
5 GetVersionDuplex()	Get Turning unit firmware version	P84

11-3 Regarding the version and checksum.

By reading the control data version, after writing the 300dpi control data, the version and checksum 300dpi will be read, and after writing the 600dpi control data, the version and checksum 600dpi will be read

The relationship between printer status and the version and checksum that are read are shown below.

Printer status	Control Data version and checksum
After writing 300dpi control data	300dpi
After writing 600dpi control data	600dpi
After turning power ON	300dpi
300dpi After printing	300dpi
600dpi After printing	600dpi

■DP-DS620, DP-DS820, DP-QW410

The relationship between printer status and the version and checksum that are read are shown below.

Printer status	Type	Control Data version and checksum	
		Type designation none	Type designation valid
After writing control data	300dpi	300dpi	300dpi
	600dpi *2	600dpi	600dpi
	Low Speed	Low Speed	Low Speed
	High Density *1	High Density	High Density
After turning power ON	300dpi	300dpi	300dpi
	600dpi *2	Unreadable (only 300dpi)	600dpi
	Low Speed		Low Speed
	High Density *1		High Density
After printing	300dpi	300dpi	300dpi
	600dpi *2	600dpi	600dpi
	Low Speed	Unreadable (specified resolution to print only 300dpi or 600dpi)	Low Speed
	High Density *1		High Density

*1: DP-DS820 only

*2: Excluding DP-QW410

12.Command Specification

Printer ID number, getting the quantity of connections

[Format] long GetPrinterPortNum(char *pArray, int arraysize);

[Argument] pArray: Header pointer for array storage
arraysize: Designates the size of the array

[Return] Successful: number of printers connected
Failure: 0

[Explanation] This returns the device and units ID's currently connected.
If successful, it returns the number of printers connected.

Device ID numbers	Model
1	CV
2	CW
3	DS40
4	DS80
5	DS-RX1
6	CW02
7	DP-TC10
8	DP-DS80D
10	TOWER_CONTROLLER
20	DP-DS620
30	DP-DS820
35	DP-QW410
90-99	Reserved

[Sample Coding] **< Visual C >**
long Pnum;
char PnumArray[3][2];
if((Pnum = GetPrinterPortNum(PnumArray , sizeof(PnumArray))) < 0){
// error
}

//In order of the device and unit ID
//PnumArray[0][0] Device type
//PnumArray[0][1] Unit ID number
//PnumArray[1][0] Device type
//PnumArray[1][1] Unit ID number
//PnumArray[2][0] Device type
//PnumArray[2][1] Unit ID number

< Visual Basic >
Dim Pnum
Dim PnumArray(2,3)
Pnum = GetPrinterPortNum(PnumArray(0,0), 6);
If Pnum < 0 Then GoTo Error

'The order is different from in Visual C.
'PnumArray(0,0) Device type
'PnumArray(1,0) Unit ID number
'PnumArray(0,1) Device type
'PnumArray(1,1) Unit ID number
'PnumArray(0,2) Device type
'PnumArray(1,2) Unit ID number

■Attention when connecting to the Tower:

Execute GetPrinterPortNum(), then the Tower recognizes the Tower controller and return UnitID No10.

Direct communication to the Tower is possible as well as to the Printer, but in the Tower case only following API function can be used;

```
GetFirmwVersion();  
GetSerialNo();
```

Printer Filter Function Setting

]Hqto cv_ rjpi "UgvRtlpvgthkngt*"rjpi "HkngtaUy +=

]Cti wo gpy_ HkngtaUy < Hkngt'hmpevkqp"ugwkipi

 RHKNGT'aQHH *2+ Hkngt'hmpevkqp"QHf*pkicri'xcnvg+

 RHKNGT'aQP *3+ Hkngt'hmpevkqp"QP

]Tgwtg_ Hkngt'hmpevkqp"QP 3

 Hkngt'hmpevkqp"QH 2

]Gzr rpevkqp_ Vj ku'wtpu'yj g'Hkngt'hmpevkqp"QP QHH

 Y kj "yj g'Hkngt."yj g'FNNf gvgto kpgu'hi'yj g'CRKctg'eqo r ckdng"qt'pqv'y kj "yj g'r tlpvgt'o qf gni'cpf "Hko y ctg."cpf "eqpvtqnu"

 yj g'tcpuo kuukqp"cpf "gzgewkqp"qh'eqo o cpf u'q"yj g'r tlpvgt0" Hqt'f g'cku'qh'yj g'hmpevkqpu."tghgt"q"yj g'hku'\$8EUR"

 Ucwu'CRKhmpevkqpu\$0

Hkngt	Hmpevkqp
QHH *pkicri'xcnvg+	FNNf qgu'pqv'eqpvtqneqo o cpf "gzgewkqp"q"yj g'r tlpvgt0 Hi'yj g'cr r rdecvkqp"wgug'r tlpvgt-kpeqo r ckdng'CRK'yj g'r tlpvgt'o c{"uqr 0 Vj ku'ku'yj g'ecug'y kj "qrf "FNN'y kj "pq'hkngtu0
QP	Hi'CRKhmpevkqpu'ctg'pqv'r tlpvgt-eqo r ckdng."yj g'FNN'eqpvtqnu'yj g'gzgewkqp"qh" eqo o cpf u'q"yj g'r tlpvgt0Wug'yj ku'ugwkipi "y j gp"wkpi "c'ucpf -cmppg'r tlpvgt0

]Uco r ng'Eqf lpi _ >"Xkuwcn'E"@

 kr"UgvRtlpvgthkngt*"RHKNGT'aQP "+"?? "3"+}

 il'Hkngt"QP

 i

 >"Xkuwcn'Dcule"@

 Fko "Tguwn/Cu"Nqpi

 Tguwn?"UgvRtlpvgthkngt*"RHKNGT'aQP "+"

USB Transmission Timeout Time Setting

]Hqto cv_" rqi "UgWUDVko gqw*"rqi "RqtP wo ."rqi "hMo g+="

]Cti wo gpv_" Vko g< Vtcpuo kuukqp "Vko gqw'ugwki "p'ugeqpf u="

2< Vtcpuo kuukqp "Vko gqw'QHf*pkicn'xcnwg+"

32/342< Vko g'dgy ggp'y j gp "WUD'tcpuo kuukqp "tgc fpi "f cwc+"uqr u'cpf "CRKinctw'vko gqw0'
Vj g'ugwki "ku'p'3'ugeqpf "lpetgo gpw0'

]Tgwtp_" Uweeguuhw<" 3"
Hkntg< 2"

]Gzr rpevqp_" Vj ku'ugv'yj g'vko g'wpvki'yj g'WUD'tcpuo kuukqp'vko gqw'inct u0'
WUD'tcpuo kuukqp'vko gqw'qeev'u'y j gp'yj g'CRKinqr u'tgc fpi "y g'tgwtp "f cwc+"tqo "y g'r tlvgt0'

Ugwkpi "xcnwg"	Hypevqp"
Vko gqw'QHf 2*"pkicn"	Hi'WUD'tcpuo kuukqp'inqr u.'y g'CRKy cku'wpvki'ecp'tgc f'f cwc'y kj qw'wulpi "vko gqw0' Hi'tcpuo kuukqp'q'3'r tlvgt'inqr u.'y g'CRKnggr u'y cskpi . "uq'tcpuo kuukqp'q'qy gt" r tlvgtu'f qugp)/inctv'cpf "y g'u'vgo 'inqr u0' " Vj ku'ku'twg'ht'qrf gt'F NN'y kj qw'yj g" Vko gqw'ugwki 0' "
Vko gqw'vko g" 32/342'ugeqpf u	Hi'y g'WUD'tcpuo kuukqp'inqr u.'y j gp'yj g'Vko gqw'vko g'ku'gzeggf gf . "y g'CRKugpf u'c" Vko gqw'gttqt.'cpf "inqr u'tcpuo vki "q'yj cv'r tlvgt0' " Gxgp'hi'3'r tlvgt'inqr u.'tcpuo kuukqp'q'qy gt'r tlvgtu'ku'r quukng0'

Vj g'hqmy kpi "ej ctv'ij qy u'tghgtgpeg'vko gu'wpvki'yj g'vko gqw0'

Hqt'yj g'F U62Vt: 2V.'y kj "Hko y ctg'Xgt2043'cpf "gctngt.'chgt'yj g'cr r rdecvqp'ugpf u'yj g'r tlv'f cwc.'y j gp'yj gtg'ku'c"
tgwtp'tgs wgu'v'hnq'I gv'Ucwwu.'y gtg'ku'c'vko ghtco g'y j gtg'tcpuo kuukqp'f cwc'ecppqv'dg'tgc f0' "Rrgcug'ugv'yj g'Vko gqw'
ugwki "vko g'iqpi gt "y cp'yj cv0'

Rtlvgt'qr gtcvqp"	F U62Vt: 2V" Hko "Xgt2043"	Vko gqw'ugwki " tghgtgpeg'vko gu"
P qto cni'r tlvki "	Ngui'yj cp'3'ugeqpf "	82'ugeqpf u"
Hqt'o gf'lc'lpkicrk'cvqp" *F wtkpi "lpkicrk' g<pgz'vko ci g'tcpu/ucwwu'i gv"	Cr r tqz072'ugeqpf u"	; 2'ugeqpf u"
F wtkpi "tgeqxt { 'r tqegu'chgt'r qy gt'hkntg" *F wtkpi "tgeqxt { < " pgz'vko ci g'tcpu/ucwwu'i gv"	Cr r tqz0322'ugeqpf u"	342'ugeqpf u"

]Uco r'rg'Eqf kpi _">"Xkucn'E"@
kr#"UgWUDVko gqw*"RqtP q.'82"+"? "3"+)"
ll"Vko GQW'82u"
i "

>"Xkucn'Dcule"@
Fko "Tguwn/Cu"Nqpi "
Tguwn?'UgWUDVko gqw*"RqtP q.'82"+"

Media Size Setting

[Format]	long SetMediaSize(long lPortNum,long Media);		
[Argument]	lPortNum:	Designates the port number	
	Media:	Designates paper size and image layout (defined in header: see below)	
[Return]	Successful:	1	
	Failure:	0	Not within media range (for example, when 8-inch size layout is given for a 6-inch printer)
[Explanation]	<p>This designated the output page size for use in print processing.</p> <p>Please compare the output page size with the media size set in the printer, and select an equivalent or smaller size.</p> <p>When sending the image with SendImageData as on P32, be sure to use this command to select the output size.</p>		
[Sample Coding]	< Visual C > <pre>if(SetMediaSize(PortNo, CSP_PCx2) < 0){ // error }</pre>		
	< Visual Basic > Dim Result As Long Result = SetMediaSize(PortNo, CSP_PCx2) If Result <= 0 Then GoTo Error		

■Page Definition Contents

Media	Header Definition	Media	Size	Layout	Media	Size	Layout
01	CSP_L	31	CSP	8x10	54	CSP	4x4
02	CSP_2L	32	CSP	8x12	55	CSP	4x6
03	CSP_PC	33	CSP	8x4			
04	CSP_A5	34	CSP	8x5	57	CSP	4P5x4P5
05	CSP_A5W	35	CSP	8x6	58	CSP	4P5x6
06	CSP_PCx2 (PC 2-image layout)	36	CSP	8x8	59	CSP	4P5x8
07	CSP_Lx2 (L 2-image layout)	37	CSP	8x4x2	60	CSP	4x3
08	CSP_PC_REWIND (PC Rewind) *1	38	CSP	8x5x2	61	CSP	4x4P5
09	CSP_L_REWIND (L Rewind) *1	39	CSP	8x6x2	62	CSP	4P5x3
10	CSP_5x5 *1	40	CSP	8x5_8x4	63	CSP	4P5x4
11	CSP_6x6 *3	41	CSP	8x6_8x4	64	CSP	4x3x2
12	CSP_6x4P5 *2	42	CSP	8x6_8x5	65	CSP	4P5x3x2
13	CSP_6x4P5x2 *2	43	CSP	8x8_8x4	66	CSP	4P5x4x2
14	CSP_6x4P5_REWIND (6x4.5 Rewind) *2	44	CSP	8x4x3	71	CSP	A5FORMAT
		45	CSP	A4_LENGTH	72	CSP	A5x2
21	CSP_TC86x61	46	CSP	8x7	73	CSP	A5_REWIND
22	CSP_TC127x61	47	CSP	8x9	74	CSP	A4x5
		48	CSP	8x4_REWIND	75	CSP	A4x6
		49	CSP	8x5_REWIND	76	CSP	A4x8
		50	CSP	8x6_REWIND	77	CSP	A4x10
					78	CSP	A4FORMAT
					79	CSP	A4x5x2
					80	CSP	A4x5_REWIND

*1: DP-DS620 and DS-RX1 firmware version 2.06 or later

*2: DP-DS620 firmware version 1.10 or later

*3: DP-DS620 and DS40 firmware version 1.60 or later and DS-RX1 firmware version 2.06 or later

J gcf gt "fghpklqp"eqpvgpw" (4/ukf gf "FR/F U: 2F "ew'uj ggv'ugwpi)

O gf lc"	Uk g'Nc {qw'	O gf lc"	Uk g'Nc {qw'
Ukpi ng/ukf g'r tlpv'ugwpi "		F wr ngz'r tlpv'htqpvr tlpv'ugwpi "	
353"	EURa: z32aEwRcr gt"	453"	EURa: z32aF wr ngzEwRcr gtaH'
354"	EURa: z34aEwRcr gt"	454"	EURa: z34aF wr ngzEwRcr gtaH'
355"	EURa: z6aEwRcr gt"	455"	EURa: z6aF wr ngzEwRcr gtaH'
356"	EURa: z7aEwRcr gt"	456"	EURa: z7aF wr ngzEwRcr gtaH'
357"	EURa: z8aEwRcr gt"	457"	EURa: z8aF wr ngzEwRcr gtaH'
358"	EURa: z: aEwRcr gt"	458"	EURa: z: aF wr ngzEwRcr gtaH'
359"	EURa: z6z4aEwRcr gt"	459"	EURa: z6z4aF wr ngzEwRcr gtaH'
35: "	EURa: z7z4aEwRcr gt"	45: "	EURa: z7z4aF wr ngzEwRcr gtaH'
35; "	EURa: z8z4aEwRcr gt"	45; "	EURa: z8z4aF wr ngzEwRcr gtaH'
373"	EURa: z32a72aEwRcr gt"	473"	EURa: z32a72aF wr ngzEwRcr gtaH'
374"	EURa: z32a97aEwRcr gt"	474"	EURa: z32a97aF wr ngzEwRcr gtaH'
375"	EURa: z6z5aEwRcr gt"	475"	EURa: z6z5aF wr ngzEwRcr gtaH'
		F wr ngz'r tlpv'dcenir tlpv'ugwpi "	
		553"	EURa: z32aF wr ngzEwRcr gtaT"
		554"	EURa: z34aF wr ngzEwRcr gtaT"
		555"	EURa: z6aF wr ngzEwRcr gtaT"
		556"	EURa: z7aF wr ngzEwRcr gtaT"
		557"	EURa: z8aF wr ngzEwRcr gtaT"
		558"	EURa: z: aF wr ngzEwRcr gtaT"
		559"	EURa: z6z4aF wr ngzEwRcr gtaT"
		55: "	EURa: z7z4aF wr ngzEwRcr gtaT"
		55; "	EURa: z8z4aF wr ngzEwRcr gtaT"
		573"	EURa: z32a72aF wr ngzEwRcr gtaT"
		574"	EURa: z32a97aF wr ngzEwRcr gtaT"
		575"	EURa: z6z5aF wr ngzEwRcr gtaT"

Sending Image Data

]Hqto cv_" mپی "Ugpf Kō ci gF cve*مپی "hRqtP wo .NRUVT"Dwhh"
مپی "ZRqu.مپی "l Rqu.مپی "Y kf yj .مپی "J gki j v="

]Cti wo gpv_" rRqtP wo <" Rqtv'pwo dgt"
Dwhh<" J gcf gt'r qkpvt'hqt"TI D'dkso cr "cpf'tcy 'f cve"
*Vj g'f cve'ku'TI D'46dk/eqrt'f cve+ "
Zr qu<" F guki pcvgu'yj g'qwr w'eqqtf lpcvgu*Z "czku.'F qv+ "
[r qu<" F guki pcvgu'yj g'qwr w'eqqtf lpcvgu*l "czku.'F qv+ "
Y kf yj <" Kō ci g'y kf yj *F qv+ "
J gki j v<" Kō ci g'j gki j v*F qv+ "

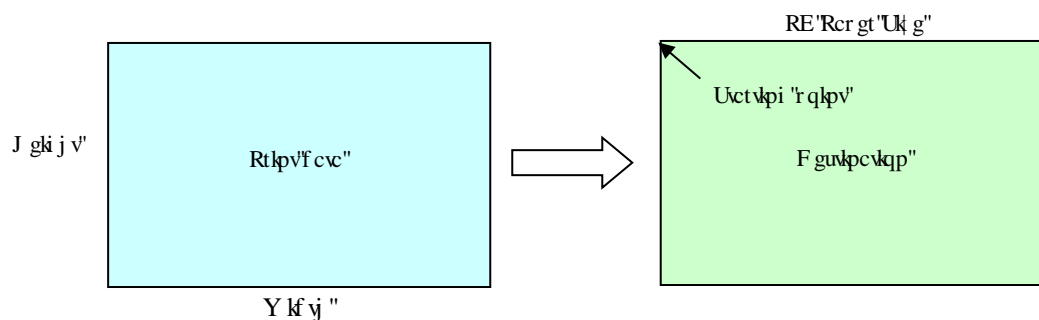
]TgwtP_" Uweeguuwn<" 3"
Hckwtg<" 2"

]Gzr rcpvqp_" Vj ku'ugpf u'yj g'lo ci g'f cve0"
Y j gp'ugpf lpi 'yj g'lo ci g'f cve'wulpi 'yj ku'eqo o cpf . 'dg'uwg'q'ugv'yj g'qwr w'uk g'y kj 'yj g'UgO gf lcUk g*+eqo o cpf "cu"
qp'R520' "Rgcug'eqo r ctg'yj g'lo ci g'uk g'y kj 'yj g'o gf lc'uk g'ugv'lp'yj g'r tlpvt. "cpf "ugrge'cp'gs wxcrgpv'qt'uo cmgt'uk g0"
Tghgt'vq"\$60Rtlpv/Rtqegui'Hqy \$'hqt'f gcku0'

]Uco r ng'Eqlpi _" >"XkuwriE"@
ej ct"TI DF cve]: 69: 942_" 1lDwhgt'hqt'r tlpv'f cve"
1lGz+vj g'pwo dgtu'ctg'hqt'RE'lo ci g'uk g'426: 'z'35: 2'z'4"
kr*"UgO gf lcUk g*RqtP q.'EURaREz4+ "@2"+)"
kr*"Ugpf Kō ci gF cve*RqtP q.'TI DF cve."2."2."426: .:35: 2+>?"2"+)"
1l'gttqt"
i "
i "
>"XkuwriDcule"@
F lo "Tguwn/Cu'Nqpi "
F lo "TI DF cve*: 69: 942+Cu'D{ vg)"Rtlpv'f cve'dwhgt.'pwo dgtu'tghgtlpi "vq'RE'lo ci g'uk g"
)Gz+vj g'pwo dgtu'ctg'hqt'RE'lo ci g'uk g'426: 'z'35: 2'z'4"
Tguwn"? "UgO gf lcUk g*RqtP q.'EURaREz4+ "
Kf'Tguwn">?"2"Vj gp'I qVq'Gttqt"

Tguwn"? "Ugpf Kō ci gF cve*RqtP q.XctRxt*TI DF cve*2+."2."2."426: .:35: 2+ "
Kf'Tguwn">?"2"Vj gp'I qVq'Gttqt"

, Vj g'Ugpf Kō ci gF cve'Impvqp'cmqy u'j gki j v'y kf yj . 'cpf'f gukpcvqp'eqqtf lpcvg'f guki pcvqp0

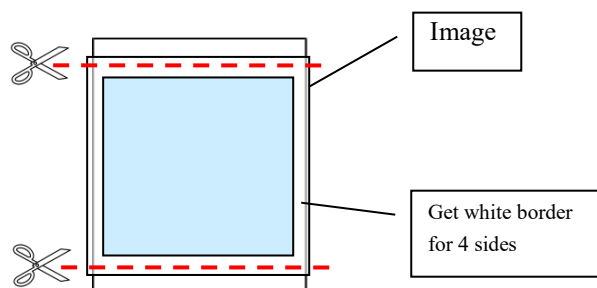


Kō r tqxgf 'lo ci g'f cve'tcpuo kuukqp'o gyj qf
] 'Chgt'Xgtukqp'207Q 0'cpf'20800'qt'rcvgt'_"
Y kj "yj ku'eqo o cpf . "yj g'CRKugpf u'f cve'uq"yj cv'yj g'gpf "qh'yj g'r rcp g'f cve'ku'c"uj qt v'r cengv'*guu'yj cp"734"d{ vgu+."lp"qtf gt'vq'o cng'yj g"
vcpuo kuukqp"qr gtcvqp'o qtg'wedng0'

■ Image pixel size (CV,CW)

Model	Paper type	Print area size W (Head width) x H (Paper feed direction)	Image pixel size	
			Resolution setting: 334x600dpi	Resolution setting: 334x334dpi
CV	DSC	121.5x92.0 mm	1598x2176 pixel	-
	L	130.0x92.0 mm	1710x2176 pixel	-
	PC	155.0x105.0 mm	2038x2480 pixel	-
	2DSC	121.5x181.0 mm	1598x4276 pixel	-
	2L	130.0x181.0 mm	1710x4276 pixel	-
	A5 (6x8)	155.0x206.0 mm	2038x4870 pixel	-
	A5W (6x9)	155.0x232.0 mm	2038x5480 pixel	-
CW	DSC	121.5x92.0 mm	1598x2176 pixel	1598x1210 pixel
	L	130.0x92.0 mm	1710x2176 pixel	1710x1210 pixel
	PC	155.0x105.0 mm	2038x2480 pixel	2038x1380 pixel
	2DSC	121.5x181.0 mm	1598x4276 pixel	1598x2380 pixel
	2L	130.0x181.0 mm	1710x4276 pixel	1710x2380 pixel
	A5 (6x8)	155.0x206.0 mm	2038x4870 pixel	2038x2710 pixel
	A5W (6x9)	155.0x232.0 mm	2038x5480 pixel	2038x3050 pixel
White border T/B		Top & Bottom 4.5 mm each	Top and Bottom 120 pixel each	Top and Bottom 60 pixel each
White border L/R		Left & Right 4.5 mm each	Left and Right 60 pixel each	Left and Right 60 pixel each

If you want to add a border to the 4 sides of the print, a white border can be imported for the 4 sides of the image. Refer to the values in the chart for border size.



■ Image pixel size (DP-QW410)

Model	Paper type	Print area size W (Head width) x H (Paper feed direction)	Image pixel size	
			Resolution setting: 300x600dpi	Resolution setting: 300x300dpi
DP-QW410	4x3 (*1)	107.2x79.3 mm		1266x936 pixel
	4x4	107.2x104.7 mm		1266x1236 pixel
	4x4.5 (*1)	107.2x117.4 mm		1266x1386 pixel
	4x6	107.2x155.5 mm		1266x1836 pixel
	4.5x3 (*1)	119.3x79.3 mm		1408x936 pixel
	4.5x4 (*1)	119.3x104.7 mm		1408x1236 pixel
	4.5x4.5	119.3x117.4 mm		1408x1386 pixel
	4.5x6	119.3x155.5 mm		1408x1836 pixel
	4.5x8	119.3x206.3 mm		1408x2436 pixel
White border T/B		Top & Bottom 4.5 mm each		Top and Bottom 54 pixel each
White border L/R		Left & Right 5.54 mm each		Left and Right 66 pixel each

*1: firmware version 1.09 or later

■ Kó ci g'r kzn'lk' g" F U621: 2.'F U62V1: 2V.'F U/TZ 3.EY 24.FR/FU: 2F .FR/FU842)

O qf gni	Rcr gt 'v' r g"	Rtkp'v'ctgc'uk' g" Y "J gcf 'y k' j '+'z" J "Rcr gt 'hggf 'f k' g'v'kq'p'+"	Kó ci g'r kzn'lk' g"	
			T guq'nw'kq'p'ug'w'kpi <' 522z822f r k'	T guq'nw'kq'p'ug'w'kpi <' 522z522f r k'
F U62162V"	7z50'N+	3530z"; 40'o o "	376: z4398'r kzn'	376: z32: : 'r kzn'
F U/TZ 3."	8z6'RE+	3780z3270'o o "	3: 66z46: 2'r kzn'	3: 66z3462'r kzn'
EY 24"	7z9'4N+	3530z3: 30'o o "	376: z6498'r kzn'	376: z435: 'r kzn'
FR/FU842"	8z: *C7+	3780z4280'o o "	3: 66z6: 94'r kzn'	3: 66z4658'r kzn'
F U62162V"	8z; *C7Y +"	3780z4540'o o "	3: 66z76: 2'r kzn'	3: 66z4962'r kzn'
EY 24"				
FR/FU842* 3+ "				
F U/TZ 3* 5+ "	7z7"	3530z3520'o o "	376: z52: 2'r kzn'	376: z3762'r kzn'
FR/FU842"				
FR/FU842* 3+ "	8z60"	3780z3390'o o "	3: 66z4994'r kzn'	3: 66z35: 8'r kzn'
F U62* 4+ "	8z8"	3780z3770'o o "	3: 66z5894'r kzn'	3: 66z3: 58'r kzn'
F U/TZ 3* 5+ "				
FR/FU842"				
F U: 21 2V"	*. z6+ "	4290z3260'o o "	466: z4694'r kzn'	466: z3458'r kzn'
FR/FU: 2F "	*. z7+ "	4290z3520'o o "	466: z5294'r kzn'	466: z3758'r kzn'
FR/FU: 42"	*. z8+ "	4290z3770'o o "	466: z5894'r kzn'	466: z3: 58'r kzn'
	*. z: + "	4290z4280'o o "	466: z6: 94'r kzn'	466: z4658'r kzn'
	*. z32+ "	4290z4790'o o "	466: z8294'r kzn'	466: z5258'r kzn'
	*. z34+ "	4290z5290'o o "	466: z9494'r kzn'	466: z5858'r kzn'
	C6'Ngpi vj "	4290z5220'o o "	466: z92: : 'r kzn'	466: z5766'r kzn'
FR/FU: 42"	*. z9+ "	4290 3: 20 'o o "	466: 6494'r kzn'	466: 4358'r kzn'
	*. z; + "	4290 4530'o o "	466: 7694'r kzn'	466: 4958'r kzn'
	C7'Hqto cv'	4360 3730'o o "	474: 578: 'r kzn'	474: 39: 6'r kzn'
	C6z7"	4360 3520'o o "	474: 5294'r kzn'	474: 3758'r kzn'
	C6z8"	4360 3770'o o "	474: 5894'r kzn'	474: 3: 58'r kzn'
	C6z: "	4360 4280'o o "	474: 6: 94'r kzn'	474: 4658'r kzn'
	C6z32"	4360 4790'o o "	474: 8294'r kzn'	474: 5258'r kzn'
	C6'Hqto cv'	4360 5220'o o "	474: 92: : 'r kzn'	474: 5766'r kzn'
Y j kg'dqtf gt'VID"		Vqr '('Dqwqo " 60'o o "gcej "	Vqr 'cpf 'Dqwqo " 32: 'r kzn'gcej " *RE-342'Rkzn'	Vqr 'cpf 'Dqwqo " 76'r kzn'gcej " *RE-82'Rkzn'
Y j kg'dqtf gt'NII"		Ngh'(' 'Tki j v' 70'o o "gcej "	Ngh'cpf 'Tki j v' 82'r kzn'gcej "	Ngh'cpf 'Tki j v' 82'r kzn'gcej "

, 3'FR/FU842'iko y ctg'xgtukqp'3082'qt'lcvgt

, 4'F U62'iko y ctg'xgtukqp'3082'qt'lcvgt

, 5'F U/TZ 3'iko y ctg'xgtukqp'408'qt'lcvgt"

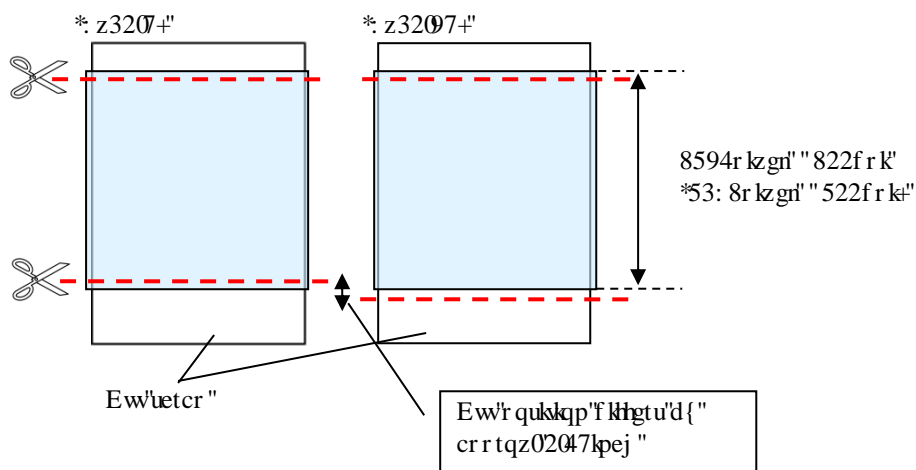
■ Kó ci g'r kzn'lk' g" FR/VE32+

O qf gni	Rcr gt 'v' r g"	Rtkp'v'ctgc'uk' g" Y "J gcf 'y k' j '+'z" J "Rcr gt 'hggf 'f k' g'v'kq'p'+"	Kó ci g'r kzn'lk' g"	
			T guq'nw'kq'p'ug'w'kpi <' 522z822f r k'	T guq'nw'kq'p'ug'w'kpi <' 522z522f r k'
FR/VE32"	VE: 8z83"	; 20z'860'o o "	3286z3734'r kzn'	3286z'978'r kzn'
	VE349z83"	3530z'860'o o "	376: z3734'r kzn'	376: z'978'r kzn'
Y j kg'dqtf gt'VID"		Vqr '('Dqwqo " 60'o o "gcej "	Vqr 'cpf 'Dqwqo " 32: 'r kzn'gcej "	Vqr 'cpf 'Dqwqo " 76'r kzn'gcej "
Y j kg'dqtf gt'NII"		Ngh'(' 'Tki j v' 70'o o "gcej "	Ngh'cpf 'Tki j v' 82'r kzn'gcej "	Ngh'cpf 'Tki j v' 82'r kzn'gcej "

Ko ci g'r kzn'uk g"FR/FU: 2F. 'Ew'uj ggvt

O qf gni	Rcr gt'v(r g"	Rtkp'ctgc'uk g" Y "J gcf "y kf vj -"z" J "Rcr gt 'ggf "f kgevkqp+"	Ko ci g'r kzn'uk g"	
			T guqnwkp'ugwkp i <" 522z822f r k'	T guqnwkp'ugwkp i <" 522z522f r k'
FR/FU: 2F "	*: z6+"	4296z3268"o o "	466: z4694'r kzn'	466: z3458'r kzn'
	*: z7+"	4296z3520"o o "	466: z5294'r kzn'	466: z3758'r kzn'
	*: z8+"	4296z3770"o o "	466: z5894'r kzn'	466: z3: 58'r kzn'
	*: z: +"	4296z4280"o o "	466: z6: 94'r kzn'	466: z4658'r kzn'
	*: z32+"	4296z4790"o o "	466: z8294'r kzn'	466: z5258'r kzn'
	*: z3207+," "	4296z48; 0"o o "	466: z8594'r kzn'	466: z53: 8'r kzn'
	*: z3207+," "	4296z48; 0"o o "	466: z8594'r kzn'	466: z53: 8'r kzn'
	*: z34+"	4296z5290 "o o "	466: z9494'r kzn'	466: z5858'r kzn'
Y j kg'dqtf gt "VID"		Vqr "('Dqwqo " 60"o o "gcej "	Vqr "cpf 'Dqwqo " 32: 'r kzn'gcej "	Vqr "cpf 'Dqwqo " 76'r kzn'gcej "
Y j kg'dqtf gt "NII"		Ngh'(" 'Tki j v' 70"o o "gcej "	Ngh'cpf 'Tki j v' 82'r kzn'gcej "	Ngh'cpf 'Tki j v' 82'r kzn'gcej "

*Vj g'ko ci g'r kzn'uk gu'hqt": z3207+"cpf": z3207+"ctg'y g'uco g0Vj g'r tlpw'y cv'ctg'qwr w'f kht'cu'hmqy u0



Ej cpi g'lp'Qwr w'Uk g'Nk kcvkpu'ceeqtf lpi 'v'Rtlpvt'Nqecvkp

Cu'f g'ckg'f'dgn'y . 'y gtg'j cxg'dggp'uqo g'ej cpi gu'lp'y g'qwr w'hk kcvkpu'hqt'ixti g'uk gu'ceeqtf lpi 'v'F U62V'hqecvkp. 'cpf 'h'qecvkp' h'k kcvkpu'hqt'F U: 2V'

Rtlpvt'	Gzknkpi 'Ur gekh'ecvkpu'	P gy 'Ur gekh'ecvkpu'
F U62V'	3 ^u cpf '5 ^{if} 'h'xgn'ctg'hk kgf 'v'qpn' 'N'uk g'cpf 'RE "	3 ^u h'xgn'ku'hk kgf 'v'qpn' 'N'uk g'cpf 'RE'uk g'r tlpw'
F U: 2V'	Ecp)'d'g'ug'v'qp'3 ^u /'5 ^{if} 'h'xgn'	Ecp)'d'g'ug'v'qp'3 ^u 'h'xgn'

Ej ctv'q'h'uk gu'hqt'geej 'F U62V'r tlpvt'hqecvkp'* ? "cxckrdng." ? 'P IC." ☐ Xgt2054"qt'ixvgt'pgy n' 'cxckrdng+'

Nqecvkp"	Rtlpv'Uk g"				
	7z50'N+	7z9'4N+	8z6'RE+, "	8z: 'C7+	8z: 'C7Y +"
3 ^u 'h'xgn'	"	"	"	"	"
4 ^{pf} 'h'xgn'	"	"	"	"	"
5 ^{if} 'h'xgn'	"	"	"	"	"
6 ^y 'h'xgn'	"	"	"	"	"

, h'p'nf lpi "o wnk'ew'r tlpw'

K'c'bpq/cxckrdng'r tlpv'uk g'ku'f guki pcvgf 'qp'y g'3^u'h'xgn'y g'r tlpvt'y knit'gwtp'\$Rcr gt'F gh'p'k'k'p'Gttqt\$0'

Ej ctv'q'h'uk gu'hqt'geej 'F U: 2V'r tlpvt'hqecvkp'* ? "cxckrdng." ? 'P IC." ☐ Xgt2054"qt'ixvgt'cxckrdng+'

Nqecvkp"	Rtlpv'Uk g"						
	: z6", "	: z7", "	: z8", "	: z: ", "	: z32"	: z330"	: z34"
3 ^u 'h'xgn'	"	"	"	"	"	"	"
4 ^{pf} 'h'xgn'	"	"	"	"	"	"	"
5 ^{if} 'h'xgn'	"	"	"	"	"	"	"
6 ^y 'h'xgn'	"	"	"	"	"	"	"

, h'p'nf lpi "o wnk'ew'r tlpw'

K'r tlpvt'ku'ug'v'qp'y g'3^u'h'xgn'y j gp'f guki pcvgf 'v'r tlpv.'y g'r tlpvt'y knit'gwtp'\$Rcr gt'F gh'p'k'k'p'Gttqt\$0'

Setting the Resolution

]Hqto cv_	nqpi "UgvT guqnwkp" *nqpi "hRqt vP wo ." nqpi "hT guqnwkp" ="	
]Cti wo gpv_	rRqt vP wo <" O gf kc<"	Rqt vP wo dgt" T guqnwkp "f guki pcvq p" f ghkp gf "lp" y g" j gcf gt" T GUQNWWKQP 522" qt "T GUQNWWKQP 822"
]Tgwtp_	Uweeguhwn<" Hckwt g<"	3" 2"
]Gzr npcvq p_	Vj ku" f guki pcvq u" y g" lo ci g" t guqnwkp 0' F R/ S Y 632" ku" xcrlf " qpnl " hqt "T GUQNWWKQP 5220' Vj ku" hwpvq p" ku" lpxcrlf " hqt "EX" cpf "EY 0'	
]Uco r rg'Eqf lpi _	>"XkwcrlE"@ kr" *UgvT guqnwkp" *Rqt vP q. "T GUQNWWKQP 522+ "> ? "2" +)" llGttqt" i " >"XkwcrlDcule"@ F ko "T guwn/ Cu" Nqpi " T guwn/? "UgvT guqnwkp" *Rqt vP q. "T GUQNWWKQP 522+ " Kf "T guwn/ "> ? "2" Vj gp "I q Vq "Gttqt"	

Designating Print Quantity

]Hqto cv_	nqpi "UgvRS V[*nqpi "hRqt vP wo ." nqpi "r s v{ +="	
]Cti wo gpv_	rRqt vP wo <" r s v{ <"	F guki pcvq u" y g" r qt v' pwo dgt" F guki pcvq u" y g" pwo dgt "qh' r tlpw"
]Tgwtp_	Uweeguhwn<" Hckwt g<"	3" 2"
]Gzr npcvq p_	Vj ku" f guki pcvq u" y g" pwo dgt "qh' r tlpw" hqt "y g" r tlpvgt 0'	
]Uco r rg'Eqf lpi _	>"XkwcrlE"@ kr" *UgvRS V[*Rqt vP q. "4+ "> ? "2" +)" ll'gttqt" i " >"XkwcrlDcule"@ F ko "T guwn/ Cu" Nqpi " T guwn/? "UgvRS V[*Rqt vP q. "4+ " Kf "T guwn/ "> ? "2" Vj gp "I q Vq "Gttqt"	

Start Printing

]Hqto cv_" npi "RtlpV6 ci gF cvc*npi "iRqtV wo +=
]Cti wo gpv_" nRqtV wo <" RqtV'pwo dgt"
]Tgwtp_" Uweeguhwn<" 3"
 Hckwtg<" 2"
]Gzr npevqkp_" Uctvu'r tlpvpi 0Vj ku'r tlpv'e'r ctvkn'r ci g'hqt'o wnr ng'nc{ qww'r ci gu+
]Uco r ng'Eqlpi _" >"XkwnrE"@
 kr*"RtlpV6 ci gF cvc*RqtV q+>? "2"+}
 ll'gttqt"
 i "
 >"XkwnrDcule"@
 F ko "T guwn/Cu'Nqpi "
 T guwn"? "RtlpV6 ci gF cvc*RqtV q+
 KiT guwn">? "2"Vj gp'I qVq'Gttqt"

Start Page Layout

]Hqto cv_" npi "UctvRci gNc{ qww*npi "iRqtV wo +=
]Cti wo gpv_" nRqtV wo <" RqtV'pwo dgt"
]Tgwtp_" Uweeguhwn<" 3"
 Hckwtg<" 2"
]Gzr npevqkp_" Uctvu'r ci g'nc{ qww0
 Vj ku'ku'ny c{ u'wugf "kp"eqplwpevqkp'y kj 'Gpf 'Rci g'Nc{ qww0
]Uco r ng'Eqlpi _" >"XkwnrE"@
 kr*"UctvRci gNc{ qww*RqtV q+>? "2"+}
 ll'gttqt"
 i "
 l, K6 ci g'r tqegukpi , l" "
 Gpf Rci gNc{ qww*RqtV q+
 >"XkwnrDcule"@
 F ko "T guwn/Cu'Nqpi "
 T guwn"? "UctvRci gNc{ qww*RqtV q+
 KiT guwn">? "2"Vj gp'I qVq'Gttqt"
 K6 ci g'r tqegukpi "
 Gpf Rci gNc{ qww*RqtV q+
 Fck'Pkrqp"RtlpVpi "Eq0"Nnf0"

End Page Layout

]Hqto cv_" mپی "Gpf Rci gNc{ qw*مپی "RqtP wo +=
]Cti wo gpv_" rRqtP wo <" Rqtv'pwo dgt"
]TgwtP_" Uweeguhwn<" 3"
 Hckwtg<" 2"
]Gzr mpcvqP_" Gpf u'r ci g'ir{ qw0'
 Vj ku'ku'cny c{ u'wugf "lp"eqplwpevqP'y kj "Uctv'Rci g'Nc{ qw0'
]Uco r ng'Eqf lpi _" >"XkucnE"@
 Uctv'Rci gNc{ qw*RqtP q+=
 l. "k0 ci g'r tqeguulpi ", l"
 ktr"Gpf Rci gNc{ qw*RqtP q+>? "2"+j"
 ll"gttqt"
 i "
 >"XkucnDcule"@
 F ko "T guwn'Cu'Nqpi "
 Uctv'Rci gNc{ qw*RqtP q+ "
 Jk0 ci g'r tqeguulpi "
 T guwn"? "Gpf Rci gNc{ qw*RqtP q+ "
 KfT guwn">? "2"Vj gp'I qVq'Gttqt"

Get Printer Version Information

]Hqto cv_" mپی "I gvHto y XgtukqP*مپی "RqtP wo ."NRUVT"r "!="
 mپی "ExI gvXgtukqP*مپی "RqtP wo ."NRUVT"r "!="
]Cti wo gpv_" rRqtP wo <" Rqtv'pwo dgt"
 r <" RqlpvgT"q"vj g'tgegkxkpi "dwhgt"
]TgwtP_" Uweeguhwn<" Vj g'pwo dgt"qh'ej ctcevgtu'tgegkxgf "lp"dwhgt"r "
 Hckwtg<" /3
]Gzr mpcvqP_" Tgegkxgu"vj g'r tlpvgT"xgtukqP"lphqto cvqP"lp"vj g'dwhgt0'
]Uco r ng'Eqf lpi _" >"XkucnE"@
 ej ct'tdwhj478 ="
 ktr"I gvHto y XgtukqP*RqtP q. "NRUVT"t dwh"@"2"+j"
 ll"P gzv'r tqeguul"
 i "
 >"XkucnDcule"@
 F ko "td'Cu'Utlpi ", "477."Xgt'Cu'Utlpi "
 F ko "p'Cu'Nqpi "
 p"? "I gvHto y XgtukqP*RqtP q."td+ "
 Kfp"@2"Vj gp"Xgt"? "Ngh'td."p+ " Jgtlgxgu'cu'c'ej ctcevgt'utlpi "
]XgtukqP"lphqto cvqP_" F U', Q , " Hto y ctg"xgtukqP"lphqto cvqP"

Get Printer Sensor Information

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]Hqto cv_      npi "I gVgpuqtKphq*"npi "RqtV wo ."NRUVT"r "=""
                npi "ExI gVgpuqtKphq*"npi "RqtV wo ."NRUVT"r "=""

]Cti wo gpy_    rRqtV wo <"      RqtVpwo dgt"
                r<"      RqlpvgT"q"j g'tgegkxkpi "dwhgt"

]TgwtP_        UweeguuhwK"      Vj g'pwo dgt"qh'ej ctcevgtu'tgegkxgf "lp"dwhgt"r "
                Hkwtg<"      /3

]Gzr rcpvKqp_  Tgegkxgu'xcnwg"qh'gcej "ugpuqt"*j tqwi j "CF "eqpxgtvgT+lp"j g'dwhgt0'

]Uco r ng'Eqlpi _  >"XkweriE"@/
                ej ct'tdwhj478_=""
                kH"I gVgpuqtKphq*"RqtV q."*NRUVT+tdwh"@"2"+} "
                lIP gzV'r tqegui"
                i "

                >"XkweriDcule"@/
                F lo 'td'Cu'Utlpi ", '477.'Ugp'Cu'Utlpi "
                F lo 'p'Cu'Nqpi "
                p"? "I gVgpuqtKphq*"RqtV q.'td+"
                Klp"@2"Vj gp"Ugp"? 'Nghvtd.'p+" ]Tgtlqgxgu'cu'c'ej ctcevgT'utlpi "

]Ugpuqt"Kphqto cvKqp'hqt_
J F V/, , ,="" "J gcf"lgo r gtcwtg"
O F V/, , ,="" "O gf lc"lgo r gtcwtg"
R O M/, , ,="" "Rcr gt'o ctnl'
T O N/, , ,="" "Tlddqp'o ctnlghv" *Gzegr vEX"cpf "EY "ctg'wpwugf 0$222$cnj c{u'tgwtpu'q'xcnwgU+"
T O E/, , ,="" "Tlddqp'o ctnlqpgvt"
T O T/, , ,="" "Tlddqp'o ctnlki j v'
R U /, , ,="" "Rcr gt'uk g" *Gzegr vEX"cpf "EY "ctg'wpwugf 0$222$cnj c{u'tgwtpu'q'xcnwgU+"
R P V/, , ,="" "Rcr gt'pqvej " *Gzegr vEX"cpf "EY "ctg'wpwugf 0$222$cnj c{u'tgwtpu'q'xcnwgU+"
R L O/, , ,="" "Rcr gt'lco " *Gzegr vEX"cpf "EY "ctg'wpwugf 0$222$cnj c{u'tgwtpu'q'xcnwgU+"
R G F/, , ,="" "Rcr gt'gpf "
R G V/, , ,="" "Rcr gt'go r v" *Gzegr vEX"cpf "EY "ctg'wpwugf 0$222$cnj c{u'tgwtpu'q'xcnwgU+"
J F X/, , ,="" "J gcf"xqnci g"
J O F/, , ,="" J wo lf k{" *EX"ku'gzewf gf +"
T R 3/, , ,="" "Tqmlo gf lc'r cr gt'gpf "f ggevKqp'ugpuqt/3" *Qpn("eqo r cvldng'hqt"FR/FU: 2F +"
T R 4/, , ,="" "Tqmlo gf lc'r cr gt'gpf "f ggevKqp'ugpuqt/4" *Qpn("eqo r cvldng'hqt"FR/FU: 2F +"
E U T/, , ,="" "EqmT'Ugpuqt"*Tgf +" *Eqo r cvldng'hqt"FR/FU842"cpf "FR/FU: 42+"
E U I/, , ,="" "EqmT'Ugpuqt"*I tggp+" *Eqo r cvldng'hqt"FR/FU842"cpf "FR/FU: 42+"
E U D/, , ,="" "EqmT'Ugpuqt"*Dmg-" *Eqo r cvldng'hqt"FR/FU842"cpf "FR/FU: 42+"
F E 7/, , ,="" "WUD'r qy gt'uw r n" "xqnci g" *Qpn("eqo r cvldng'hqt"FR/SY 632+"

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Get Printer Resolution

]Hqto cv_" nqpi 'I gvTguqnwkqpJ *'nqpi 'iRqtvP wo "t="

nqpi 'ExI gvTguqnwkqpJ *'nqpi 'iRqtvP wo "t="

nqpi 'I gvTguqnwkqpX*'nqpi 'iRqtvP wo "t="

nqpi 'ExI gvTguqnwkqpX*'nqpi 'iRqtvP wo "t="

]Cti wo gpv_" nRqtvP wo <" Rqtv'pwo dgt"

]TgwtP_" Uweeguhwn<" J qtk qpvcn"qt"Xgtvlecnltguqnwkqp"*f r ki"

Hckwtg<" /3

]Gzr rcpvqkp_" I gvTguqnwkqpJ *t'ExI gvTguqnwkqpJ *t' " tgwtpu"J qtk qpvcnltguqnwkqp"*f r ki"

I gvTguqnwkqpX*t'ExI gvTguqnwkqpX*t' " tgwtpu"Xgtvlecnltguqnwkqp"*f r ki"

]Uco r rg'Eqf lpi _" >"XkucnE"@

nqpi 'tj ="

kt*"tj "? 'I gvTguqnwkqpJ *'RqtvP q"+"@ "2 "+" "

ll"tgwtpu"J qtk qpvcnltguqnwkqp"vq"rh"

i "

>"XkucnDcule"@

Fko 'tj 'Cu"Nqpi "

tj "? 'I gvTguqnwkqpJ *'RqtvP q+"

Get Printer Media Code

]Hqto cv_" rjpi 'I gvO gf lc*]rpi 'iRqtV wo . 'NRUVT' r " ="
rjpi 'ExI gvO gf lc*]rpi 'iRqtV wo . 'NRUVT' r " ="

]Cti wo gpy_" rRqtV wo < RqtV'pwo dgt"
r < Rqkpvt "q "j g'tgegkxkpi "dwhgt "

]Tgwtp_" Uweeguhw<" Vj g'pwo dgt "qh'ej ctcevgtu'tgegkxgf "d { "dwhgt " r "
Hckwtg< /3

]Gzr rcpvqkp_" Tgegkxgu'o gf lc"eqf g'kp "j g'dwhgt0'

]Uco r rg'Eqlpi _" > "XkweriE"@
ej ct'tdwhj478_="
kr*I gvO gf lc*RqtV q. "NRUVT #dwh'+"@2"+j "
 l'P gzv'r tqeguu"
 i "

 > "XkweriDcule"@
 F ko 'td'Cu'Utlpi ", '477. 'O gf lcEqf g'Cu'Utlpi "
 F ko 'p'Cu'Nqpi "

 p"? 'I gvO gf lc*RqtV q. 'td+ "
 Klp "@2" Vj gp 'O gf lcEqf g'? 'Nghv'd. 'p+")Tgtkxgu'cu'c'ej ctcevgt'ltlpi "

]O gf lc"eqf g_

O gf lc"eqf g'ku'f ghpgf "d { '7'f geko cn'd { vgu0Vj g'tgwtp'xcnwg'ht "j g'I gvO gf lc"Eqf g'eqo o cpf "ku'tghgttgf "q'cu'j g"
 hqmqy kpi '7'd { vgu"CUEKkpwo gtle+0'

7j . '6j "d { vg" *2p222+ " "Tgugt xgf "	5tf . '4pf "d { vg" *22pp2+ " "Rcr gt'Uk g"	3uv'd { vg" *2222p+ "
pp"? "22"	22372" 6lpej "y kf yj "	2-6z8"
	22382" 60lpej "y kf yj "	3-60z: " 5-60z8"
	22422" 7z50" %N+ " 22432" 7z9" %4N+ " 22522" 8z6" %RE+ " 22532" 8z: " %C7+ " 22622" 8z: " %C7Y + " 22722" : z32" 22732" : z34" 22822" " C6" 22342" VE: 8z83" 22352" VE349z83"	p"? "2"qt "3" %3-8z6'qpn+ "

*Kphqto cvkqp"qp'o gf lc"qvj gt "j cp'o gf lc'uk g'y km'dg'wrr qtvgtf "d { 'i gv'o gf lc"gzvgpukqp'eqf g'eqo o cpf +"

Gzco r rg"

Rcr gt'Uk g"	*Uk g<"Y kf yj "z "J gki j vt"	O gf lc"Eqf g"
7z50" %N+ "	*3490z": ; 0"o o +"	22422"
8z6" %RE+ "	*3740z"3240"o o +"	22523"
7z9" %4N+ "	*3490z"39: 0"o o +"	22432"
8z: " %C7+ "	*3740z"4250"o o +"	22532"
8z: " %C7Y + "	*3740z"44: 0"o o +"	22622"

Get Printer Status

]Hqto cv_"	mipi 'I gVUcwu*mqpi 'iRqtvP wo "≡" mipi 'ExI gVUcwu*mqpi 'iRqtvP wo "≡"	
]Cti wo gpv_"	iRqtvP wo <"	Rqtv'pwo dgt"
]TgwtP_"	Uweeguhw<" Hkwtg<"	Ucwu" UVCVWUaGTTQT"qt'EURUVCVWUaVKO GQWW"
]Gzr npevklp_"	Vj ku'tgwtpu'ij g'r tlpvgt'ucwu0' Dk'r quklqp'qh'ij g'ucwu'ku'f ghkpgf 'lp'Eur Ucvfj 'd{ 'o cetq0' O gcplpi u'qh'ij g'u{o dqn'ctg'cu'hmqjy u<"	
	I TQWRaWUWCNN " "]Wiwci'Qr gtevlkp_" I tqwr 'kf gpv'hecvklp'dk'
	I TQWRaUGVVPI " "]Ugvlpi 'Gttqt_" I tqwr 'kf gpv'hecvklp'dk'
	I TQWRaJ CTFYCTG"]J ctf y ctg'Gttqt_" I tqwr 'kf gpv'hecvklp'dk'
	I TQWRaU UVGO " "]U{ungo 'Gttqt_" I tqwr 'kf gpv'hecvklp'dk'
	I TQWRaHNUJ RTQI ""]Tgy tskpi 'O qf g_" I tqwr 'kf gpv'hecvklp'dk'
	I TQWRaF WP K"]Vwplpi 'vpl'gttqt_" I tqwr 'kf gpv'hecvklp'dk'
	UVCVWUaWUWCNN aUVC PF D[aO QF G"	Ucpf d{ 'O qf g"
	UVCVWUaGTTQT"	Ucwu'Tgegklpi 'Gttqt"
	EURUVCVWUaVKO GQWW"	Vko gqw'Gttqt"pq'cdng'q'tgegkxg'ij g'eqo o cpf +"
	UVCVWUaWUWCNN aK NG"	K ng"
	UVCVWUaWUWCNN aRTIP VPI ""	Rtlplpi "
	UVCVWUaWUWCNN aRCRGTaGP F "	Rcr gt'Gpf "
	UVCVWUaWUWCNN aTDDQPaGP F "	Tkddqp'Gpf "
	UVCVWUaWUWCNN aEQQNPI ""	J gcf 'Eqqkpi 'F qy p"
	UVCVWUaWUWCNN aO QVEQQNPI "	O clp'O qvt'Eqqkpi 'F qy p"
	UVCVWUaWUWCNN aUJ QQVPI "	Vqy gt'Uj qqvpi "
	UVCVWUaWUWCNN aDCeMRTIP V"	Vqy gt'DcenRTlplpi "
	UVCVWUaUGVVPI aEQXGTaQRGP "	Eqxgt'Qr gp"
	UVCVWUaUGVVPI aRCRGTaLCO "	Rcr gt'Lco "
	UVCVWUaUGVVPI aTDDQPaGTT"	Tkddqp'Gttqt"fg'gevtGttqt.Tkddqp'dtgcni"
	UVCVWUaUGVVPI aRCRGTaGTT"	Rcr gt'F ghplklp'Gttqt"
	UVCVWUaUGVVPI aF CVCaGTT"	F cv'Gttqt"Kgi cn'eqo o cpf +"
	UVCVWUaUGVVPI aUETCRDQZaGTT"	Uetcr 'Dqz'Gttqt"
	UVCVWUaJ CTFYCTGaGTT23"	J gcf 'Xqnci g'Gttqt"
	UVCVWUaJ CTFYCTGaGTT24"	J gcf 'Rquklqp'Gttqt"
	UVCVWUaJ CTFYCTGaGTT25"	Rqy gt'Uwr r n{ 'Hcp'Uqr r gf "
	UVCVWUaJ CTFYCTGaGTT26"	Ewwgt'Gttqt"EWw/co o lpi 'gve+"
	UVCVWUaJ CTFYCTGaGTT27"	Rlpej 'Tqngt'Rquklqp'Gttqt"
	UVCVWUaJ CTFYCTGaGTT28"	Cdpqto criJ gcf 'Vgo r gtcwtg"
	UVCVWUaJ CTFYCTGaGTT29"	Cdpqto criO gf k'Vgo r gtcwtg"
	UVCVWUaJ CTFYCTGaGTT2:"	Tkddqp'Vgplqp'Gttqt"
	UVCVWUaJ CTFYCTGaGTT2;"	THK 'O qf wrg'Gttqt"
	UVCVWUaJ CTFYCTGaGTT32"	Rcr gt'Tgy lpf 'O qvt'Cdpqto criVgo r gtcwtg"
	UVCVWUaEZO aTU644aUVQR"	EZO 'Vqy gt'TU644'Eqppgevlkp'Uqr "
	UVCVWUaJ CTFYCTGaGTT34"	WUD'Rqy gt'Uwr r n{ 'Xqnci g'Gttqt"
	UVCVWUaU UVGO aGTT23"	U{ungo 'Gttqt"
	UVCVWUaHNUJ RTQI aK NG"	K npi 'ht'tgegklpi 'tgy tskpi 'f cv"
	UVCVWUaHNUJ RTQI aF CVCaGTT3"	Vtcpuo kwgf 'F cv'Gttqt"
	UVCVWUaHNUJ RTQI aF GXKEGaGTT3"	F gxleg'Gttqt"
	UVCVWUaHNUJ RTQI aQVJ GTUaGTT3"	Qjy gt'Gttqt"

Gttqt"qh'c"Vwtpkpi "wpk"

WP K/aGTTQTaLCO O R I aUWRN " "
 WP K/aGTTQTaLCO O R I aRCUU"
 WP K/aGTTQTaLCO O R I aUJ GNN"
 WP K/aGTTQTaLCO O R I aGLGEV"

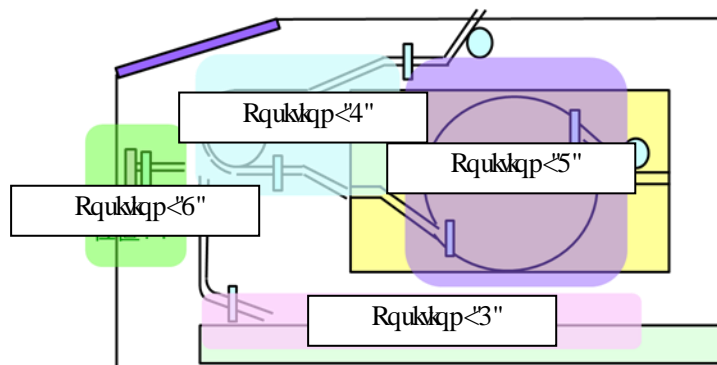
WP K/aGTTQTaECRUVCP aO QVQT"
 WP K/aGTTQTaUJ GNNaO QVQT"
 WP K/aGTTQTaRPEJ "
 WP K/aGTTQTaRCUaI WFG" "
 WP K/aGTTQTaUMGY aI WFG" "
 WP K/aGTTQTaUMGY aTGLGEV""
 WP K/aGTTQTaUJ GNNaTQVCVG"
 WP K/aGTTQTaNGXGT"
 WP K/aGTTQTaEWVGT"

WP K/aGTTQTaVTCI aQWW"
 WP K/aGTTQTaEQXGTaQWW"
 WP K/aGTTQTaUJ UVGO "

Rcr gt'ku'lco o gf 'lp'yj g'wrr n('unqv (rquksqp-3) "
 Rcr gt'ku'lco o gf 'lp'yj g'wrr gt'hggf'ctgc (rquksqp-4) "
 Rcr gt'ku'lco o gf 'lp'yj g'uj gni'ctgc (rquksqp-5) "
 Rcr gt'ku'lco o gf 'lp'yj g'glgevkqp'unv'ctgc (rquksqp-6) "

Rcr gt'f grkxgt{ "o qvqt"o crhwpevkqp"
 F grkxgt{ "o qvqt"o crhwpevkqp'lp'yj g'tgxgtulpi "dmjenti'uj gm"
 Rkpej "qr gtcvkqp"o crhwpevkqp"
 Cevkxg'r cuu'i wkf g'qr gtcvkqp"o crhwpevkqp"
 Ukf g'i wkf g'qr gtcvkqp"o crhwpevkqp"
 Ukf g'cf lwuo gpv'o crhwpevkqp"
 Tgxgtulpi "dmjenti'uj gm"qr gtcvkqp"o crhwpevkqp"
 Rcr gt'hggf'hxgt"qr gtcvkqp"o crhwpevkqp"
 Ew'qr gtcvkqp"o crhwpevkqp"

Vtc{ "qw'gttqt"
 O ckpvpcpeg'eqxgt'ku'qr gp"
 U{uugo "gttqt"



]Uco r ng'Eqf lpi _"

```

>"XkwcrlE"@
kpenxf g'$Eur Ucvfj $"
nqpi 'uncv"
uncv?'I gVUcwur*Rqt vP q"±"
kr#"uncv( "I TQWRaWUWCNN "±)"I"WüwcriQr gtcvkqp"UcwuI tqwr "
      uy kej *'uncv'±)"
          ecug"UVCVWUaWUWCNN aF NG<±"
          ecug"UVCVWUaWUWCNN aRT P VP I <±"
          ecug"UVCVWUaWUWCNN aRCRGTaGP F <±"
          <
i "
i "
kr#"uncv( "I TQWRaUGVVVP I "±)"I"Ugwłpi "Gttqt"UcwuI tqwr "
      uy kej *'uncv'±)"
          ecug"UVCVWUaUGVVVP I aEQXGTaQRGP <±"
          <
i "
i "

```

```

>"XkwcrlDcule"@
Flo 'uncvCu'Nqpi "

```

```

uncv?'I gVUcwur*Rqt vP q"±"
kr#"uncvCpf "I TQWRaWUWCNN "Vj gp"      )"WüwcriQr gtcvkqp"UcwuI tqwr "
      Ugrgev'Ecug'uncv"
          Ecug"UVCVWUaWUWCNN aF NG<Vgzv30vgzv?"$F NG$"
          Ecug"UVCVWUaWUWCNN aRT P VP I <Vgzv30vgzv?"$RT P VP I $"
          Ecug"UVCVWUaWUWCNN aRCRGTaGP F <Vgzv30vgzv?"$RCRGTaGP F $"
          Ecug"UVCVWUaWUWCNN aT KDDQP aGP F <Vgzv30vgzv?"$T KDDQP aGP F $"
          Ecug"UVCVWUaWUWCNN aEQQNKP I <Vgzv30vgzv?"$EQQNKP I $"
      Gpf "Ugrgev"
Gngkr#"uncvCpf "I TQWRaUGVVVP I "Vj gp"      )"Ugwłpi "Gttqt"UcwuI tqwr "
      )"Qr gtcvkqp"Gttqt"±"
Gngkr#"uncvCpf "I TQWRaJ CTF YCTG"Vj gp" )"J ctfy ctg"Gttqt"UcwuI tqwr "
      )"J ctfy ctg"Gttqt"±"
Gngkr#"uncvCpf "I TQWRaU UVGO "Vj gp"      )"U{ungo "Gttqt"UcwuI tqwr "
      )"U{ungo "Gttqt"±"
Gpf "kr"

```

Getting Turning unit Status (DP-DS80D)

[Format]	long GetDunitStatus(long lPortNum);	
[Argument]	lPortNum:	Port number
[Return]	Successful:	Turning unit Status
	Failure:	STATUS_ERROR or CSPSTATUS_TIMEOUT
[Explanation]	This returns the Turning unit status.	

Bit position of the status is defined in CspStat.h by macro. Meanings of the symbols are as follows:

Status of a Turning unit

UCS_JAMMING_SUPPLY_SENS_ON	The print didn't pass the supply sensor, so the sensor didn't switch ON (no paper) (paper feed operation)
UCS_JAMMING_SUPPLY_SENS_OFF	The print didn't reach the supply sensor, so the sensor didn't switch OFF (paper present) (paper feed operation)
UCS_JAMMING_SLOT_SENS_ON	The print didn't pass the delivery slot sensor, so the sensor didn't switch ON (no paper) (paper feed / reversing operation)
UCS_JAMMING_SLOT_SENS_OFF	The print didn't reach the delivery slot sensor, so the sensor didn't switch OFF (paper pres.) (paper feed/reversing operation)
UCS_JAMMING_PASS_SENS_ON	The print didn't pass the pinch pass sensor, so the sensor didn't switch ON (no paper) (reversing / ejecting operation)
UCS_JAMMING_PASS_SENS_OFF	The print didn't reach the pinch pass sensor, so the sensor didn't switch OFF (paper present) (reversing / ejecting operation)
UCS_JAMMING_SHELL_SENS1_ON	The print didn't pass shell pass sensor-1, so the sensor didn't switch ON (no paper) (reversing / ejecting operation)
UCS_JAMMING_SHELL_SENS1_OFF	The print didn't reach shell pass sensor-1, so the sensor didn't switch OFF (paper present) (reversing / ejecting operation)
UCS_JAMMING_SHELL_SENS2_ON	The print didn't pass shell pass sensor-2, so the sensor didn't switch ON (no paper) (reversing operation)
UCS_JAMMING_SHELL_SENS2_OFF	The print didn't reach shell pass sensor-2, so the sensor didn't switch OFF (paper present) (reversing operation)
UCS_JAMMING_EJECT_SENS_ON	The print didn't pass the eject sensor, so the sensor didn't switch ON (no paper) (ejecting operation)
UCS_JAMMING_EJECT_SENS_OFF	The print didn't reach the eject sensor, so the sensor didn't switch OFF (paper present) (ejecting operation)
UCS_JAMMING_SLOT_FG_SENS	During printing, the printer transfer FG sensor didn't detect the print (printing)
UCS_JAMMING_SHELL_FG_SENS	While delivering the print out of the shell roller, the FG sensor in the shell didn't detect the print (reversing operation)
UCS_JAMMING_PAPER_JAM	When the power is turned ON, paper is in the shell (power ON)
UCS_CAPSTAN_TRAPZ_ERROR	The capstan drive control didn't end within the set time
UCS_SHELL_ROLLER_ERROR	Shell roller malfunction (slow or stuck)
UCS_PINCH_OPEN_ERROR	The pinch roller could not be moved to the release position
UCS_PINCH_CLOSE_ERROR	The pinch roller could not be moved to the pinch position
UCS_PINCH_INIT_ERROR	The pinch roller initialization could not be completed
UCS_PINCH_POS_UNKNOWN	The pinch roller position is unknown (during trials only)
UCS_PASS_GUIDE_SUPPLY_ERROR	The pass guide could not be moved to the supply position
UCS_PASS_GUIDE_SHELL_ERROR	The pinch roller could not be moved to the retracted position
UCS_PASS_GUIDE_EJECT_ERROR	The pinch roller could not be moved to the eject position
UCS_PASS_GUIDE_INIT_ERROR	The pass guide initialization could not be completed
UCS_PASS_GUIDE_POS_UNKNOWN	The pass guide position is unknown (during trials only)
UCS_SIDE_GUIDE_HOME_ERROR	The side guide could not be moved to the HOME position
UCS_SIDE_GUIDE_POS_ERROR	The side guide could not be moved to the prescribed position
UCS_SIDE_GUIDE_INIT_ERROR	The side guide initialization could not be completed
UCS_ACT_GUIDE_HOME_ERROR	The act guide could not be moved to the HOME position
UCS_SHELL_ROTATE_HOME_ERROR	The shell roller didn't rotate to the HOME position
UCS_SHELL_ROTATE_REV_ERROR	The shell roller didn't rotate to the REV position
UCS_LEVER_DOWN_ERROR	The paper feed lever could not be moved to the DOWN position
UCS_LEVER_LOCK_ERROR	The paper feed lever could not be moved to the LOCK position
UCS_LEVER_UP_ERROR	The paper feed lever could not be moved to the UP position

UCS_CUTTER_HOME_ERROR	The cutter could not be returned to the HOME position
UCS_CUTTER_AWAY_ERROR	The cutter could not be moved to the AWAY position
UCS_CUTTER_INIT_ERROR	The cutter initialization could not be completed
UCS_CUTTER_POS_UNKNOWN	The cutter position is unknown (during trials only)
UCS_TRAY_OUT	The paper tray was removed during printing
UCS_TOP_COVER_OPEN	The maintenance cover opened during printing

Getting Turning unit and cut sheet information (DP-DS80D)

[Format]	long GetCutPaper(long lPortNum, LPSTR p);		
[Argument]	lPortNum:	Port number	
	p:	Pointer to the receiving buffer	
[Return]	Successful:	Number of characters received at buffer p	
	Failure:	-1	
[Explanation]	Receives a character string for paper size (tray guide position) and paper status		

Turning unit status

4, 3 digits (nn00) Paper size (tray guide position)	2, 1 digits (00nn) Paper status
0000 Unit not connected	0000 No cut sheet
0100 8 x 10.75	0001 Protective sheet
0200 8 x 12	0002 Cut sheet set

Sample code

Paper size	Paper status	Media code
8x10.75	Yes	0102
8x10.75	Protective sheet	0101
8x10.75	No	0100

Turning unit, Cancelling the 2nd-side printing and ejecting the media (DP-DS80D)

[Format] BOOL SetCancelDuplexPrint(long lPortNum);

[Argument] lPortNum: Port number

[Return] Successful: TRUE
 Failure: FALSE

[Explanation] During duplex printing, this command cancels the 2nd-side print after printing the 1st side, and ejects the media. This command is used so that, in situations such as the ribbon ending after printing the 1st side, etc., the media on hold in the printer is forcibly ejected.

The relation between this command and the printer operation differs depending on the printer status and the status of the 2nd-side print data transmission.
 Refer to the chart below for the operations.

Relation between commands and printer operation

Printer status	2 nd -side print data transmission status	
	After 2 nd -side data trans.	Before 2 nd -side data trans.
When the ribbon ends after completing 1 st -side printing	1 st side is printed and media is ejected. Printer's print buffer is cleared	1 st side is printed and media is ejected.
Other than above	After completion of duplex printing, the media is ejected. Command is invalid	1 st side is printed and media is ejected.

[Sample Coding] < Visual C >
 SetCancelDuplexPrint (PortNo);

< Visual Basic >
 SetCancelDuplexPrint (PortNo)

Get Printer Counter Value

```

]Hqto cv_"      rqi "I gEqwpgtN*rqi "iRqtP wo "+"
                rqi "ExI gEqwpgtN*rqi "iRqtP wo "+"

                rqi "I gEqwpgtC*rqi "iRqtP wo "+"
                rqi "ExI gEqwpgtC*rqi "iRqtP wo "+"

                rqi "I gEqwpgtD*rqi "iRqtP wo "+"
                rqi "ExI gEqwpgtD*rqi "iRqtP wo "+"

                rqi "I gEqwpgtR*rqi "iRqtP wo "+"      *F U62t 2.F U/TZ 3.EY 24.'FR/F U: 2F .FR/F U842.FR/F U: 42+"

                rqi "I gEqwpgtO cwg*rqi "iRqtP wo "+"      *F U62t 2.'F U/TZ 3.EY 24.'FR/F U: 2F .FR/F U842.FR/F U: 42+"
                rqi "I gEqwpgtO *rqi "iRqtP wo "+"      *F U62t 2.'F U/TZ 3.EY 24.'FR/F U: 2F .FR/F U842.FR/F U: 42+"
                rqi "I gEqwpgtF wr rgz*rqi "iRqtP wo "+"      *F R/F U: 2F +

]Cti wo gpy_"    iRqtP wo <      RqtPwo dgt"

]Tgwtp_"         Uweeguhw<"      Eqwpgt "Xcnwg"
                Hkwtg<      /3

]Gzr rcpvqp_"    I gEqwpgtN*+.ExI gEqwpgtN*+ "Tgwtpu'Nkg'Eqwpgt'XcnwgO'
                I gEqwpgtC*+.ExI gEqwpgtC*+ "Tgwtpu'Eqwpgt'C'XcnwgO'
                I gEqwpgtD*+.ExI gEqwpgtD*+ "Tgwtpu'Eqwpgt'D'XcnwgO'
                I gEqwpgtR*rqi "iRqtP wo "+"      Tgwtpu'Eqwpgt'R'Xcnwg"
                I gEqwpgtO cwg*+ " " "      Tgwtpu'O cwg'Eqwpgt'XcnwgO'
                I gEqwpgtO *+ " " "      Tgwtpu'Eqwpgt'O 'XcnwgO'
                I gEqwpgtF wr rgz*+ " " "      Tgwtpu'Eqwpgt'F wr rgz'XcnwgO'

                Nkg'Eqwpgt.'Eqwpgt'C.'Eqwpgt'D
                • Hqt'yj g'8/lpej 'y kf yj 'ukl g.'k'eqwpu'wr "3'hqt'gcej 'uj gg0J qy gxgt.'hqt'yj g'8z; *C7Y +.'8z: *C7+'cpf '7z9*4N+'ukl gu.
                  k'eqwpu'wr "4'hqt'gcej 'uj ggV*eqpxgtkpi 'vq'RE IN'ukl g+0Hqt'o wnk'ew'r tlpw.'k'eqwpu'wr "4'chgt'gxgt { '4pf'uj ggV0
                • Hqt'yj g: /lpej 'y kf yj 'ukl g'ucpf /cnpg'o qf gn'k'eqwpu'wr "3'hqt'gxgt { 'uj gg0Hqt'o wnk'ew'r tlpkpi . 'k'eqwpu'wr "3
                  chgt'gxgt { '4pf'uj ggV'gxgt { '5f'uj ggV'hqt'5/ko ci g'rc { qww+
                • Hqt'yj g: /lpej 'y kf yj 'ukl g'vqy gt'o qf gn'k'eqwpu'wr "3/5'f gr gpf lpi 'qp'r tlp'ukl g'ugg'yj g'ej ctv'qp'yj g'pgz v'r ci g+0
                • Eqwpgtu"C'cpf'D'ecp'dg'ergt gf 'y kj 'UgvErgtEqwpgtC*+cpf 'UgvErgtEqwpgtD*+hpevqp'u't gur gevkg n[0

                Eqwpgt'R
                • Eqwpgt'R'ku'lpklcrkl gf 'y j gp'r qy gt'qp0' "Tcpf qo 'ugwki 'ku'QM'y kj 'UgvEqwpgtR*0
                • Eqwpgt'R'xcnwg'ku'eqwpgt gf 'ceeqt f lpi 'vq'gcej 'f kiej cti g'qh'ko ci g0

                O cwg'Eqwpgt.'Eqwpgt'O
                • Y j gp'q xgteqc v'lpkuj 'ku'o cwg'r tlpv'O cwg'Eqwpgt'cpf 'Eqwpgt'O 'y kn'dg'eqwpgf 'wr '*Nkg'Eqwpgt'cpf 'Eqwpgt
                  CID'ctg'eqwpgf 'wr 'cnq+0
                • Eqwpgt'O 'ku'ergtcdng'y kj 'UgvErgtEqwpgtO *+hpevqp0
                • Vj gug'eqwpgtu'ctg'gh'gevkg'vq'yj g'r tlpvt '*F U62t 2'Xgt852'qt'rcvgt0F U62Vt: 2V'Xgt853'qt'rcvgt0: 'y j lej
                  uwr r qtvgf'o cwg'r tlpkpi 0
                • Ur gekh'ecv'qp'qh'eqwpu'wr 'ku'yj g'uco g'cu'yj cv'qh'yj g'cdq xg/o gpv'qp'gf 'Nkg'Eqwpgt'cpf 'Eqwpgt'C ID0

                Eqwpgt'F wr rgz
                • Y j gp'r tlpkpi 'wulpi 'ew'uj ggV*wulpi 'Vwtpkpi 'vpl+.'.Eqwpgt'F wr rgz'y kn'dg'eqwpgf 'wr 0
                • F wr rgz'eqwpgt'3'eqwpu'wr 'y j gp'r tlpkpi 'qp'g'ukl g'qh'yj g'ew'uj ggV'cpf 'hqt'4'eqwpu'wr 'y j gp'r tlpkpi 'qp
                  dqj 'ukl gu

]Uco r rg'Eqf lpi _" >'XkwcrlE"@
                rqi "eqwpgt="
                ktr*eqwpgt"? 'I gEqwpgtN*RqtP q"+'@"'2"+' "
                  IfTgwtpu'Nkg'Eqwpgt'Xcnwg'vq'counter"
                i "
                >'XkwcrlDcule"@
                Fko "eqwpgt'C u'Nqpi "
                eqwpgt"? 'I gEqwpgtN*RqtP q+"

```

Counter L/A/B/P Count-up Action

Vqy gt<

Vlo lpi "qhl'c'eqwpv'w' 'ku'chgt'c'r' tlpv'r lewtg'ku'eqtg'ew' 'eqpxg{gf' 'q' 'j' g'dgn'uqtvgt'qt' 'j' g'wr r gt' 'tc{ 'qhl'c'qy gt0
Eqwpv'w' 'ku'pqv'r gthto gf' 'y j gp'gttqt'qeewtgf 0Eqwpvgt'R'ku'ergetgf' 'q'2. 'hl'c'r qy gt' 'uwr r n' 'ku'wtpgf' 'qhl'c'

F U62V"	Rtlpv'Uk' g"		Eqwpvgt'NIC ID"	Eqwpvgt'R"
Ukpi rg/ew"	7z50'N"		- 3	- 3
	8z6'RE +"		- 3	- 3
	7z9'4N"		- 4	- 3
	8z: 'C7 +"		- 4	- 3
	8z: 'C7Y +"		- 4	- 3
O wnk/ew"	8z6z4"	3uv'lo ci g"	///"	- 3
	*RE'4/lo ci g'x{qwr"	4pf'lo ci g"	- 4	- 3

F U 2V"	Rtlpv'Uk' g"		Eqwpvgt'NIC ID"	Eqwpvgt'R"
Ukpi rg/ew"	: z32"		- 5	- 3
	: z34"		- 5	- 3
	: z6"		- 3	- 3
	: z7"		- 3	- 3
	: z8"		- 3	- 3
	: z: "		- 4	- 3
	C6aNgpi y "		- 5	- 3
O wnk/ew"	: z6z4"	3uv'lo ci g"	///"	- 3
		4pf'lo ci g"	- 4	- 3
	: z7z4"	3uv'lo ci g"	///"	- 3
		4pf'lo ci g"	- 4	- 3
	: z8z4"	3uv'lo ci g"	///"	- 3
		4pf'lo ci g"	- 4	- 3
	: z7- : z6"	3uv'lo ci g"	///"	- 3
		4pf'lo ci g"	- 4	- 3
	: z8- : z6"	3uv'lo ci g"	///"	- 3
		4pf'lo ci g"	- 4	- 3
	: z8- : z7"	3uv'lo ci g"	///"	- 3
		4pf'lo ci g"	- 4	- 3
	: z: - : z6"	3uv'lo ci g"	///"	- 3
		4pf'lo ci g"	- 4	- 3
	: z6z5"	3uv'lo ci g"	///"	- 3
		4pf'lo ci g"	///"	- 3
		5tf'lo ci g"	- 5	- 3

■ Stand-alone:

Timing of a count-up is after performing a cut of a print picture correctly.

Count-up is not performed when an error occurred. Counter P is cleared to 0, if a power supply is turned off.

DS40,DS-RX1, CW02,DP-DS620	Print Size		Counter L/A/B	Counter P (*1)
Single-cut	5x3.5 (L)		+1	+1
	6x4 (PC)		+1	+1
	6x4.5 (*3)		+1	+1
	5x5 (*5)		+2	+1
	6x6 (*4)		+2	+1
	5x7 (2L)		+2	+1
	6x8 (A5)		+2	+1
	6x9 (A5W) *Except for DS-RX1		+2	+1
Multi-cut	6x4x2 (PC 2-image layout)	1st image	---	+1
		2nd image	+2	+1
	6x4.5x2 (*3) (6x4.5 2-image layout)	1st image	---	+1
		2nd image	+2	+1
	5x3.5x2 (*2) (L 2-image layout)	1st image	---	+1
		2nd image	+2	+1
2inch cut *Only correspondence model Refet to cutter control command	6x4	1st sheet	---	+1
		2nd sheet	+1	+1
	6x8	1st sheet	---	+1
		2nd sheet	---	+1
		3rd sheet	---	+1
		4th sheet	+2	+1

(*1) DS40 firmware version 1.04 or later

(*2) DS-RX1 firmware version 1.20 or later and DP-DS620

(*3) DP-DS620 firmware version 1.10 or later

(*4) DS40 firmware version 1.60 or later and DS-RX1 firmware version 2.06 or later and DP-DS620

(*5) DS-RX1 firmware version 2.06 or later and DP-DS620

DS80	Print Size		Counter L/A/B	Counter P (*1)
Single-cut	8x10		+1	+1
	8x12		+1	+1
	8x4		+1	+1
	8x5		+1	+1
	8x6		+1	+1
	8x8		+1	+1
	A4 Length		+1	+1
Multi-cut	8x4x2	1st image	---	+1
		2nd image	+1	+1
	8x5x2	1st image	---	+1
		2nd image	+1	+1
	8x6x2	1st image	---	+1
		2nd image	+1	+1
	8x5+8x4	1st image	---	+1
		2nd image	+1	+1
	8x6+8x4	1st image	---	+1
		2nd image	+1	+1
	8x6+8x5	1st image	---	+1
		2nd image	+1	+1
	8x8+8x4	1st image	---	+1
		2nd image	+1	+1
	8x4x3	1st image	---	+1
		2nd image	---	+1
		3rd image	+1	+1

(*1)DS80 firmware version 1.02 or later

DP-TC10	Print Size	Counter L/A/B	Counter P
Single-cut	TC86x61	+1	+1
	TC127x61	+1	+1
2-image layout continuous printing,	TC127x61	+2	+1

FR/FU: 42"	Rtlpv'Uk g"		Eqwpgt'NC ID"	Eqwpgt'R"
Ukpi rg/ew'	: z6"		- 3	- 3
	: z7"		- 3	- 3
	: z8"		- 3	- 3
	: z9"		- 3	- 3
	: z: "		- 3	- 3
	: z; "		- 3	- 3
	: z32"		- 3	- 3
	: z34"		- 3	- 3
	C6aNgpi yj "		- 3	- 3
	C7"Hqto cv'		- 3	- 3
	C6z7"		- 3	- 3
	C6z8"		- 3	- 3
	C6z: "		- 3	- 3
	C6z32"		- 3	- 3
	C6"Hqto cv'		- 3	- 3
O wnk'ew'	: z6z4"	3uv'lo ci g"	///"	- 3
		4pf'lo ci g"	- 3	- 3
	: z7z4"	3uv'lo ci g"	///"	- 3
		4pf'lo ci g"	- 3	- 3
	: z8z4"	3uv'lo ci g"	///"	- 3
		4pf'lo ci g"	- 3	- 3
	: z7- : z6"	3uv'lo ci g"	///"	- 3
		4pf'lo ci g"	- 3	- 3
	: z8- : z6"	3uv'lo ci g"	///"	- 3
		4pf'lo ci g"	- 3	- 3
	: z8- : z7"	3uv'lo ci g"	///"	- 3
		4pf'lo ci g"	- 3	- 3
	: z: - : z6"	3uv'lo ci g"	///"	- 3
		4pf'lo ci g"	- 3	- 3
	: z6z5"	3uv'lo ci g"	///"	- 3
		4pf'lo ci g"	///"	- 3
		5tf'lo ci g"	- 3	- 3
	C7z4"	3uv'lo ci g"	///"	- 3
		4pf'lo ci g"	- 3	- 3
	C6z7z4"	3uv'lo ci g"	///"	- 3
		4pf'lo ci g"	- 3	- 3
4lpej 'ew'	: z6"	3uv'lo ci g"	///"	- 3
		4pf'lo ci g"	- 3	- 3
	: z8" C6z8"	3/4pf'lo ci g	///"	- 3 lo ci g
		5tf'lo ci g"	- 3	- 3
	: z: " C6z: "	3/5tf'lo ci g	///"	- 3 lo ci g
		6yj'lo ci g"	- 3	- 3
	: z32" C6z32"	3/6yj'lo ci g	///"	- 3 lo ci g
		7yj'lo ci g"	- 3	- 3
	: z34"	3/7yj'lo ci g	///"	- 3 lo ci g
		8yj'lo ci g"	- 3	- 3

EX'EY "	Rtlpv'Uk g"		Eqwpgt'NC ID"
Ukpi rg/ew'	7z50'Nt"		- 3
	8z6'RE +"		- 3
	7z9'4Nt"		- 4
	8z: 'C7 +"		- 4
	8z: 'C7Y +"		- 4
O wnk'ew'	8z6z4"	3uv'lo ci g"	///"
	*RE'4/lo ci g'rc{qww"	4pf'lo ci g"	- 4

DP-QW410	Print Size		Counter L/A/B	Counter P
Single-cut	4x3		+1	+1
	4x4		+1	+1
	4x4.5		+1	+1
	4x6		+1	+1
	4x8		+1	+1
	4.5x3		+1	+1
	4.5x4		+1	+1
	4.5x4.5		+1	+1
	4.5x6		+1	+1
	4.5x8		+1	+1
Multi-cut	4x3x2	1st sheet	---	+1
		2nd sheet	+1	+1
	4.5x3x2	1st sheet	---	+1
		2nd sheet	+1	+1
	4.5x4x2	1st sheet	---	+1
		2nd sheet	+1	+1
2inch cut	4x4	1st sheet	---	+1
		2nd sheet	+1	+1
	4x6, 4.5x6	1st sheet	---	+1
		2nd sheet	---	+1
		3rd sheet	+1	+1
	4.5x8	1st sheet	---	+1
		2nd sheet	---	+1
		3rd sheet	---	+1
		4th sheet	+1	+1

F w r g z

Vj g'eqwpgt'ku'kpetgcugf'chgt'c'r tlpv'ko ci g'ku'ew'pqt0 cm(0

Vj g'eqwpgt'f'qgupw'kpetgcug'y j gp'cp'gttqt'qeewu0Eqwpgt'R'ku'ergctgf'v'2'y j gp'v'j g'r qy gt'ku'wtpgf'QHHD

Y j gp'wulpi 'tqmlo gfk

FR/FU: 2F "	Rtkpv'uk' g"		Eqwpgt'NICID"	Eqwpgt'R"	Eqwpgt'F w r g z"
Ukpi ng'ew"	: z32"		- 3	- 3	///"
	: z34"		- 3	- 3	///"
	: z6"		- 3	- 3	///"
	: z7"		- 3	- 3	///"
	: z8"		- 3	- 3	///"
	: z: "		- 3	- 3	///"
	C6aNgpi yj "		- 3	- 3	///"
O wnk'ew"	: z6z4"	3 ^{um} ko ci g"	///"	- 3	///"
		4 ^{pf} ko ci g"	- 3	- 3	///"
	: z7z4"	3 ^{um} ko ci g"	///"	- 3	///"
		4 ^{pf} ko ci g"	- 3	- 3	///"
	: z8z4"	3 ^{um} ko ci g"	///"	- 3	///"
		4 ^{pf} ko ci g"	- 3	- 3	///"
	: z7- : z6"	3 ^{um} ko ci g"	///"	- 3	///"
		4 ^{pf} ko ci g"	- 3	- 3	///"
	: z8- : z6"	3 ^{um} ko ci g"	///"	- 3	///"
		4 ^{pf} ko ci g"	- 3	- 3	///"
	: z8- : z7"	3 ^{um} ko ci g"	///"	- 3	///"
		4 ^{pf} ko ci g"	- 3	- 3	///"
	: z: - : z6"	3 ^{um} ko ci g"	///"	- 3	///"
		4 ^{pf} ko ci g"	- 3	- 3	///"
	: z6z5"	3 ^{um} ko ci g"	///"	- 3	///"
		4 ^{pf} ko ci g"	///"	- 3	///"
		5 ^{tf} ko ci g"	- 3	- 3	///"

Y j gp'wulpi 'ew'o gf lc"

FR/FU: 2F"	Rtlpv'uk' g"		Eqwpgt'NIC ID"	Eqwpgt'R"	Eqwpgt'F w' rnz"
Ulp' ng'Ew'	: z32"	3'uk' g"	- 3	- 3	- 3
		Dqj 'uk' gu"	- 4	- 3	- 4
	: z34"	3'uk' g"	- 3	- 3	- 3
		Dqj 'uk' gu"	- 4	- 3	- 4
	: z6"	3'uk' g"	- 3	- 3	- 3
		Dqj 'uk' gu"	- 4	- 3	- 4
	: z7"	3'uk' g"	- 3	- 3	- 3
		Dqj 'uk' gu"	- 4	- 3	- 4
	: z8"	3'uk' g"	- 3	- 3	- 3
		Dqj 'uk' gu"	- 4	- 3	- 4
	: z: "	3'uk' g"	- 3	- 3	- 3
		Dqj 'uk' gu"	- 4	- 3	- 4
	: z3207"	3'uk' g"	- 3	- 3	- 3
		Dqj 'uk' gu"	- 4	- 3	- 4
	: z3207"	3'uk' g"	- 3	- 3	- 3
		Dqj 'uk' gu"	- 4	- 3	- 4
O wnk Ew'	: z6z4"	3'uk' g"	3 ^w 'uj ggv'	///"	///"
			4 ^{pf} 'uj ggv'	- 3	- 3
		Dqj 'uk' g"	3 ^w 'uj ggv'	///"	///"
			4 ^{pf} 'uj ggv'	- 4	- 4
	: z7z4"	3'uk' g"	3 ^w 'uj ggv'	///"	///"
			4 ^{pf} 'uj ggv'	- 3	- 3
		Dqj 'uk' g"	3 ^w 'uj ggv'	///"	///"
			4 ^{pf} 'uj ggv'	- 4	- 4
	: z8z4"	3'uk' g"	3 ^w 'ko ci g"	///"	///"
			4 ^{pf} 'ko ci g"	- 3	- 3
		Dqj 'uk' g"	3 ^w 'ko ci g"	///"	///"
			4 ^{pf} 'ko ci g"	- 4	- 4
	: z6z5"	3'uk' g"	3 ^w 'uj ggv'	///"	///"
			4 ^{pf} 'uj ggv'	///"	///"
			5 ^{tf} 'uj ggv'	- 3	- 3
		Dqj 'uk' g"	3 ^w 'uj ggv'	///"	///"
			4 ^{pf} 'uj ggv'	///"	///"
			5 ^{tf} 'uj ggv'	- 4	- 4

Get Life Counter Value Extended(DP-DS620)

```

]Hqto cv_"      mپی "I gEqwpgtNkgGZ *mپی "RqtP wo , F Y QTF "f y O gf kc"="

]Cti wo gpv_"   rRqtP wo : "      RqtPwo dgt"
                  f y O gf kc : "      Ur gekh{lpi "tgc f "cti gv"

]TgwtP_"        Uweeguihwk"      Eqwpgt "Xcnwg"
                  Hkktg<      /3

]Gzr rncvqP_"   Tgc f "j g"pwo dgt "qhiNkg'Eqwpgt "xcnwg0'

                  Ur gekh{lpi "tgc f "cti gv"
                  EQWP VaCNN"<Nkg'Eqwpgt'hqt'Cmi'O gf kc"
                  EQWP VaUF " " <Nkg'Eqwpgt'r tlpvgf "d{ "UF "O gf kc"
                  EQWP VaRF <Nkg'Eqwpgt'r tlpvgf "d{ "RF "O gf kc"
                  Y j gp "{qwhgv"j g"Qj gt "j cp "j qug"cdqxg.'k'ku'tgwtpgf "Nkg'Eqwpgt'hqt'cmi'o gf kc0'

]Uco r ng'Eqf lpi _" >"XkwcrE"@
                    mپی "eqwpgt=
                    "kr"eqwpgt"? "I gEqwpgtNkgGZ "RqtP q.'EQWP VaCNN"+"@ "2"+}"
                    lTgwtPuNkg'Eqwpgt "Xcnwg"q'eqwpgt"
                    i "

                    >"XD P GV"@
                    F lo "e'C u"Kvgi gt"
                    e"? "I gEqwpgtNkgGZ "RqtP q.'EQWP VaCNN+"
                    Kile"@ "2"Vj gp "Vgzv30vgz v"? "Ut *e+"Gng "Vgzv30vgz v"? "SGT TQT #s"

```

Get Matte Counter Value Extended(DP-DS620)

```

]Hqto cv_"      mپی "I gEqwpgtO cwgGZ *mپی "RqtP wo , F Y QTF "f y O gf kc"="

]Cti wo gpv_"   rRqtP wo : "      RqtPwo dgt"
                  f y O gf kc : "      Ur gekh{lpi "tgc f "cti gv"

]TgwtP_"        Uweeguihwk"      Eqwpgt "Xcnwg"
                  Hkktg<      /3

]Gzr rncvqP_"   Tgc f "j g"pwo dgt "qhi'O cwg'Eqwpgt "xcnwg0'

                  Ur gekh{lpi "tgc f "cti gv"
                  EQWP VaCNN"<O cwg'Eqwpgt'hqt'Cmi'O gf kc" "
                  EQWP VaUF " " <O cwg'Eqwpgt'r tlpvgf "d{ "UF "O gf kc"
                  EQWP VaRF <O cwg'Eqwpgt'r tlpvgf "d{ "RF "O gf kc"
                  Y j gp "{qwhgv"j g"Qj gt "j cp "j qug"cdqxg.'k'ku'tgwtpgf "O cwg'Eqwpgt'hqt'cmi'o gf kc"

]Uco r ng'Eqf lpi _" >"XkwcrE"@
                    mپی "eqwpgt=
                    "kr"eqwpgt"? "I gEqwpgtO cwgGZ "RqtP q.'EQWP VaCNN"+"@ "2"+}"
                    lTgwtPu'O cwg'Eqwpgt "Xcnwg"q'eqwpgt"
                    i "

                    >"XD P GV"@
                    F lo "e'C u"Kvgi gt"
                    e"? "I gEqwpgtO cwgGZ "RqtP q.'EQWP VaCNN+"
                    Kile"@ "2"Vj gp "Vgzv30vgz v"? "Ut *e+"Gng "Vgzv30vgz v"? "SGT TQT #s"

```

Clear Printer Counter Value

]Hqto cv_"	DQQN'Ug'EngctEqwpvgtC*~'hpi 'hRqt'P wo "!=" DQQN'Ex'Ug'EngctEqwpvgtC*~'hpi 'hRqt'P wo "!=" DQQN'Ug'EngctEqwpvgtD*~'hpi 'hRqt'P wo "!=" DQQN'Ex'Ug'EngctEqwpvgtD*~'hpi 'hRqt'P wo "!=" DQQN'Ug'EngctEqwpvgtO *~'hpi 'hRqt'P wo "!="	
]Cti wo gpv_"	nRqt'P wo <"	Rqt'pwo dgt"
]TgwtP_"	Uweeguihwn<"	VTWG"
	Hckwtg<"	HCNUG"
]Gzr rcpvqP_"	Ug'EngctEqwpvgtC*~'Ex'Ug'EngctEqwpvgtC*~'"Engctu'Eqwpvgt'C0' Ug'EngctEqwpvgtD*~'Ex'Ug'EngctEqwpvgtD*~'"Engctu'Eqwpvgt'D0' Ug'EngctEqwpvgtO *~'"Engctu'Eqwpvgt'O 0' Eqwpvgt'O 'ku'ghge'xg'q'j g'r tlpvgt"~F U62 i: 2'Xgt(8(53'qt'~vgt0F U62V i: 2V'Xgt(2(53'qt'~vgt0~'y j lej 'uwr r qt vgf 'o cwg" r tlpvpi 0'	
]Uco r ng'Eqf lpi _"	>"Xkuwcn'E"@ k~'Ug'EngctEqwpvgtC*~Rqt'P q"+}" l~'Eqwpvgt'C'y cu'engctgf " i " >"Xkuwcn'Dcule"@ k~'Ug'EngctEqwpvgtC*~Rqt'P q">@Hcnng"Vj gp")Eqwpvgt'C'y cu'engctgf " Gpf 'k~'	

Set Printer Counter Value

]Hqto cv_"	DQQN'Ug'EqwpvgtR*~'hpi 'hRqt'P wo ."hpi 'hEqwpvgt"!="	
]Cti wo gpv_"	nRqt'P wo <" nEqwpvgt<"	Rqt'pwo dgt" Ug'vEqwpvgt'xcnwg"
]TgwtP_"	Uweeguihwn<"	VTWG"
	Hckwtg<"	HCNUG"
]Gzr rcpvqP_"	Ugw'Eqwpvgt'xcnwg'R0' " Ug'v'cpf qo 'pwo dgt'q'Eqwpvgt'R0Y j gp'r qy gt'q'lh 'k'ku'lpkknk gf'q'20' k~'c'pgi cv'xg'xcnwg'ku'ur gekhgf . '2'ku'ugv0'	
]Uco r ng'Eqf lpi _"	>"Xkuwcn'E"@ k~'Ug'EqwpvgtR*~Rqt'P q. '322+}" l~'Ug'Eqwpvgt'R" i " >"Xkuwcn'Dcule"@ k~'Ug'EqwpvgtR*~Rqt'P q. '322+>@Hcnng"Vj gp")Ug'Eqwpvgt'R" Gpf 'k~'	

Get the Number of Free Image Buffers

```

]Hqto cv_ "      nqpi 'I gVHtggDwlhtg*!nqpi 'iRqtvP wo "!="
                  nqpi 'ExI gVHtggDwlhtg*!nqpi 'iRqtvP wo "!="

]Cti wo gpv_ "      iRqtvP wo <"      Rqtv'pwo dgt"

]TgwtP_ "      UweeguhwK<"      Vj g'pwo dgt'qh'htgg'r tlpv'dwlhtgu"
                  Hckwtg<"      /3

]Gzr npcvKqp_ "      RtlpvgT'y knltgwtP'vj g'pwo dgt'qh'htgg'ko ci g'dwlhtgu0'

]Uco rrg'Eqf lpi _ "      >"XkuwcnE"@
                        nqpi 'dp="
                        klt*dp"? 'I gVHtggDwlhtg*!RqtvP q"+"@"2"j"
                        llt'gwtP'u'vj g'pwo dgt'qh'htgg'dwlhtgu'vq"bn"
                        ; "

                        >"XkuwcnDcule"@
                        F ko 'dp'Cu'Nqpi "
                        dp"? 'I gVHtggDwlhtg*!RqtvP q+"

```

Get Remaining Print Quantity

```

]Hqto cv_ "      nqpi 'I gVRS V[ *!nqpi 'iRqtvP wo "!="
                  nqpi 'ExI gVRS V[ *!nqpi 'iRqtvP wo "!="

]Cti wo gpv_ "      iRqtvP wo <"      Rqtv'pwo dgt"

]TgwtP_ "      UweeguhwK<"      Tgo clpKpi 'pwo dgt'qh'ko ci gu'vq'dg'r tlpvgf"
                  Hckwtg<"      /3

]Gzr npcvKqp_ "      TgwtP'u'vj g'pwo dgt'qh'ko ci gu'tgo clpKpi 'vq'dg'r tlpvgf0'

]Uco rrg'Eqf lpi _ "      >"XkuwcnE"@
                        nqpi 'pwo dgt="
                        klt*dp"? 'I gVRS V[ *!RqtvP q"+"@"2"j"
                        llt'gwtP'u'vj g'pwo dgt'qh'htgo clpKpi 'r tlpw'vq'pwo dgt"
                        ; "

                        >"XkuwcnDcule"@
                        F ko 'pwo dgt'Cu'Nqpi "
                        pwo dgt'? 'I gVRS V[ *!RqtvP q+"

```

Get the Media Counter of Remaining Sheets

[Format] long GetMediaCounter(long lPortNum);
 long CvGetMediaCounter(long lPortNum);

[Argument] lPortNum: Port number

[Return] Successful: The number of remaining sheets
 Failure: -1

Machine	Media	Number of Printable sheets	Number of sheets default value
CV	5x3.5 (L)	400	500
	6x4 (PC)	400	450
	5x7 (2L)	230	280
	6x9 (A5W)	180	230
CW CW02	5x3.5 (L)	660	710
	6x4 (PC)	600	650
	5x7 (2L)	350	400
	6x8 (A5)	300	350
	6x9 (A5W)	280	330
DS40 DS40T	5x3.5 (L)	400	450
	6x4 (PC)	400	450
	5x7 (2L)	230	280
	6x8 (A5)	200	250
	6x9 (A5W)	180	230
DS-RX1	5x3.5 (L)	700	750
	6x4 (PC)	700	750
		350	400
	5x7 (2L)	350	400
	6x8 (A5)	350	400
DS80 DS80T DP-DS80D	8x10	130	180
	8x12	110	160
DP-TC10	TC86x61	600	650
	TC127x61	600	650
DP-DS620	5x3.5 (L) *2	420	420
	6x4 (PC)	400	400
	5x7 (2L)	230	230
	6x8 (A5)	200	200
	6x9 (A5W) *1	180	180
DP-DS820	8x10	130	130
	8x12	110	110
	A4	110	110
DP-QW410	4x6	150	150
	4.5x6 *3	150	150
	4.5x8	110	110

*1 DP-DS620 firmware version 1.10 or later

*2 DP-DS620 firmware version 1.60 or later

*3 DP-QW410 firmware version 1.07 or later

When paper initialization is performed due to media replacement, etc., the remaining number of printed media may be consumed depending on the model. See below for consumption.

Media status	DP-TC10(ver.1.20 only) DP-DS620/DP-DS820	DP-QW410	Others
Unused media	0	0	-1
Media in use	0	-1	-1

[Explanation] Printer will return the number of sheets remaining in the printer.
 The number of remaining sheets is greater than the number of printable sheets.
 (For DP-QW410, this value is 0 and ribbon end. For the DP-DS620/DP-DS820, if this value is 0 it signals ribbon end, but it runs ribbon check before this point. Refer to "(4) About DP-DS620/DP-DS820 Ribbon End Check Operation" for details.)

[Sample Coding]

```
< Visual C >
long number;
if(( number = GetMediaCounter( PortNo )) >= 0 ){
    // Returns the number of remaining sheets to number
}

< Visual Basic >
Dim number As Long
number = GetMediaCounter(PortNo)
```

Half Size Conversion Media Counter of Remaining Sheets (DP-DS620, DP-DS820)

[Format] long GetMediaCounterH(long lPortNum);

[Argument] lPortNum: Port number

[Return] Successful: The Media Counter of Remaining Sheets which has been converted to half size of loaded ribbon.
 Failure: -1

Model	Media Size	Half Size	Half size conversion media default counter of sheets
DP-DS620	5x7 (2L)	5x3.5	460
	6x8 (A5)	6x4	400
	6x9 (A5W) *1	6x4.5	360
DP-DS820	8x10	8x5	260
	8x12	8x6	220
	A4	A5	220

*1 DP-DS620 firmware version 1.10 or later

[Explanation] When you load the ribbon size media to printer, it will return the number of remaining sheets which has been converted to half size.

[Sample Coding]

```
< Visual C >
long number;
if(( number = GetMediaCounterH ( PortNo )) >= 0 ){
    // Next process
}

< Visual Basic >
Dim number As Long
number = GetMediaCounterH (PortNo)
```

Get Media Color Offset Value of the Lot

JHqto cv_	npi "I gvO gf kEqmQThugv*npi "rRqtP wo "t" npi "ExI gvO gf kEqmQThugv*npi "rRqtP wo "t"
JCti wo gpv_	rRqtP wo <" Rqtvpwo dgt "
JTgwtP_	UweeguuhwK" Hkwtg< /3 O gf k"eqmt "qhugvxcnwg"qh'j g"rqv"
JGzr rpxvkqp_	Rtkpvt'y knl'tgwtp'yj g"qhugvxcnwgO'
JUco rrgEqf lpi _"	>"XkwcrE"@ npi "qhugv" kr**qhugv"? I gvO gf kEqmQThugv*RqtP q"+"@ "2"-+ " ll"Tgwtpu'yj g'xcnwg"q"qhugv" i "
	>"XkwcrDcule"@ Fko "qhugvCu"Npi " qhugv"? I gvO gf kEqmQThugv*RqtP q+" "
JGzco rrg_	Kp'yj g'ecug'yj gtg"qhugv"? 38; 2; 4; ; 7*f geko cn"/ @2z2C36222H*j gz+." yj g"qhugvxcnwguht"gej "eqmt'ctg'f ghpf "cu'dmgY O'

Eqm [†] "	Qlhgv'xcmw [†] "
[gmy "]	32*2z2C ⁺ "
O ci gpc [†] "	42*2z36 ⁺ "
E { cp " }	2*82z22 ⁺ "
Or " "	37*2z2H ⁺ "

Get Media Lot Information

JHqto cv_	rupi 'I gvO gf kNqP q*rupi 'rRqtVp wo .'NRUVT'r "≡" rupi 'ExI gvO gf kNqP q*rupi 'rRqtVp wo .'NRUVT'r "≡"
JCti wo gpv_	rRqtVp wo <" r <" RqtVpwo dgt" RqlpvgT"q"y g'tgegkxkpi "dwhgt"
JTgwtP_	Uweeguuwn<" Hkwtg<" Vj g'pwo dgt"qh'ej ctcevgtu'tgegkxgf'd{ "dwhgt'r" /3
JGzr rcpvqp_	RtlpvgT'y knltgwtP'y g'lphtto cvkqp"uqtgT'lp"THH"ci "qh'y g'o gf k0"
JUco r ng'Eqf kpi _	>"XluwcnE"@ ej ct'tdwhj478_=" kr*I gvO gf kNqP q*RqtVp q."*NRUVT#+dwhi+"@2"+j" ll'P gzV'r tqeguu" i " >"XluwcnDcule"@ F ko 'td'Cu'Utlpi ", "477.'Xgt'Cu'Utlpi " F ko 'p'Cu'Nqpi " p"? 'I gvO gf kNqP q*RqtVp q.'td+" Klp"@2'Vj gp'Xgt'? 'Ngh'd. 'p+")Tgvtgkxgu'cu'c'ej ctcevgT'utlpi "
JO gf k'ci 'lphtto cvkqp_	ON,....." Wugt/ur gelhe'lphtto cvkqp>38D{ ygu@

Get Printer Serial Number

```

]Hqto cv_ "I gVgtkcrP q*mqpi 'rRqtVp wo . 'NRUVT' r " =
mqpi 'ExI gVgtkcrP q*mqpi 'rRqtVp wo . 'NRUVT' r " =

]Cti wo gpv_ "rRqtVp wo < " RqtVpwo dgt"
r < " Rqlpvgt "vq" j g'tgegkxkpi "dwhgt"

]TgwtP_ "Uweeguuhwk" Vj g'pwo dgt "qh'ej ctcevgtu'tgegkxgf "d{ "dwhgt" r "
Hckwtg< " /3

]Gzr rpevqP_ "Rtlpvgt 'y kn'tgwtP 'vj g'r tlpvgt 'ugtkrpwo dgt0'

]Uco r ng'Eqf lpi _ " >"XkwcrlE"@/
ej ct 'tdwhj478_ =
kr*I gVgtkcrP q*RqtVp q. *NRUVT #dwh' + "@2" + } "
ll'P gzv'r tqeguu"
i "

>"XkwcrlDcule"@/
Flo 'td'Cu'Utlpi ", '477.'Xgt'Cu'Utlpi "
Flo 'p'Cu'Nqpi "
p"? 'I gVgtkcrP q*RqtVp q. 'td+"
Klp '@2'Vj gp'Xgt'? 'Ngh' *d. 'p+" )Tgtlgxgu'cu'c'ej ctcevgt'wtlpi "

]Gzco r ng'qh'ugtkrpwo dgt_ "
F U6Zpppppppp"

```

Set Firmware Update Mode

```

]Hqto cv_ "DQQN'UgvHkto y WrfcvgO qf g*mqpi 'rRqtVp wo " =
DQQN'ExUgvHkto y WrfcvgO qf g*mqpi 'rRqtVp wo " =

]Cti wo gpv_ "rRqtVp wo < " RqtVpwo dgt"

]TgwtP_ "Uweeguuhwk" VTWG"
Hckwtg< " HCNUG"

]Gzr rpevqP_ "Ej cpi gu'vj g'r tlpvgt'o qf g'vq'hkto y ctg'wrfcvg'o qf g0'
Tghgt "vq"$33(Rtqegf wtg'vq'hkto y ctg'wrfcvg'y j gp'wukpi 'CRK$'hqt'f gvcnu0'

]Uco r ng'Eqf lpi _ " >"XkwcrlE"@/
kr*I'UgvHkto y WrfcvgO qf g*RqtVp q+ "? 'VTWG"+ } "
ll'P gzv'r tqeguu"
i "

>"XkwcrlDcule"@/
Kl*I'UgvHkto y WrfcvgO qf g*RqtVp q+ "? 'Vtwg'+ 'Vj gp"
)P gzv'r tqeguu"
Gpf "Kl"

```

Write Firmware Data

```

]Hqto cv_      DQQNUGvHkto y FcvcY tkg*mqpi 'rRqtP wo . 'NRUVT'ir Fcvc. 'F Y QTF 'f y FcvcNgp'="
                DQQNEXUGvHkto y FcvcY tkg*mqpi 'rRqtP wo . 'NRUVT'ir Fcvc. 'F Y QTF 'f y FcvcNgp'="

]Cti wo gpv_   rRqtP wo <      Rqtvpwo dgt"
                r Fcvc<      Rqlpvg't'q'j g'dwhtgt'y j gtg'yj g'f'cvc'ku'q'dg'tgy tkxgp"
                f y FcvcNgp<      Vj g'pwo dgt'qh'ej ctcevtu'qh'yj g'f'cvc"

]Tgwtp_        Uweeguhwn<"      VTWG"
                Hckwtg<      HCNUG"

]Gzrncpckqp_  Ugpfu'f'cvc'q'tgy tkg'hkto y ctg'q'j g'r'tkpvgt0Vj g'f'cvc'ku'lwrr nkgf'd{ 'O qvqtqnc'U'hqto cv'hkg0' "
                Y j gp'yj ku'eqo o cpf'ku'kuwgf . 'c'dwhtgt'cr r tqz032O 'd{ vg+ku'pgeguuct { 'hqt'tgcf lpi 'y g'hkg'cpf 'hqt'lvqtlpi 'y g'f'cvc"
                vgo r qtctkq0'
                Chgt'eqo r ngvqp'qh'f'cvc'y tkgu'j g'r'tkpvgt'ku'tgdqqvgf "cwqo cvecmf. 'cpf 'Wf f cvg'O qf g'ku'tgugv0'
                Tghgt'q'$330Rtqegf wtg'q'hkto y ctg'wr f cvg'y j gp'wulpi "CRK$'hqt'f'gvcnu0'

]Uco r ng'Eqf lpi _  >"XkuwcnfDcule"@
                F ko 'hf *32222222+"
                F ko 'e'Cu'Nqpi . 'p'Cu'Nqpi "

                E?2"
                Qr gp'lpco g'hqt'Dlpct { 'Ceeguu'Tgcf 'Cu'%0"
                HkgNgpi yj '?' 'NQH#3+"
                Hqt'p'?'2"Vq'HkgNgpi yj '/'3"
                        I gv%0. 'f *e+"
                        e"? 'e"- "3"

                P gzv'p"
                Enqug'%0"

                UgvHkto y FcvcY tkg*Rqtvpq. 'XctRu *f *2++ 'e'+"

```

Set Turning unit Rewrite Mode

]Hqto cv_" DQQN'UgF wplkHkto y Wf f cvgO qf g*!qpi 'rRqtVp wo . 'F Y QTF 'f y Dcwf Tcvg"="

]Cti wo gpv_" rRqtVp wo <" RqtVpwo dgt"
f y Dcwf Tcvg" Dcwf 'Tcvg'Ugwkpi "
2"<5: 622dr u"
3"<79822dr u"
4"<337422dr u"
5"<452622dr u"

]TgwtP_" UweeguuHwK" VTWG"
HkKwtg<" HCNUG"

]Gzr npcvKqp_" Ej cpi gu'yj g'r tlpvgt'o qf g'q'Vwtpkpi 'wplkHkto y ctg'tgy tkg'o qf gO'
Tghgt'q'\$33(Rtqegf wtg'q'ht'o y ctg'wr f cvg'y j gp'wulpi 'CRK\$ht'f gcknuO'
Vj g'ugwkpi 'o c { 'hckl'q'wr f cvgO'K'p'j ku'ecug.'r ngcug'wug'4-337422'dr uO'

]Uco r ng'Eqf lpi _" >"XkwcrnE"@
Kt'UgF wplkHkto y Wf f cvgO qf g*RqtVp q.5+??"VTWG"+j"
l'P gzv'r tqeguu"
i "
>"XkwcrnDcule"@
Kt'UgF wplkHkto y Wf f cvgO qf g*RqtVp q.5+?"Vtwg"+Vj gp"
)P gzv'r tqeguu"
Gpf 'Kt'

Write Turning unit Firmware Data

]Hqto cv_" DQQN'UgF wplkHkto y F cvcY tkg*!qpi 'rRqtVp wo . 'NRUVT'ir F cvc. 'F Y QTF 'f y F cvcNgp"="

]Cti wo gpv_" rRqtVp wo <" RqtVpwo dgt"
r F cvc<" Rqlpvg't'q'yj g'dwhtgt'y j gtg'yj g'f cvc'ku'q'dg'tgy tkwgp"
f y F cvcNgp<" Vj g'pwo dgt'qh'ej ctcevgtu'qh'yj g'f cvc"

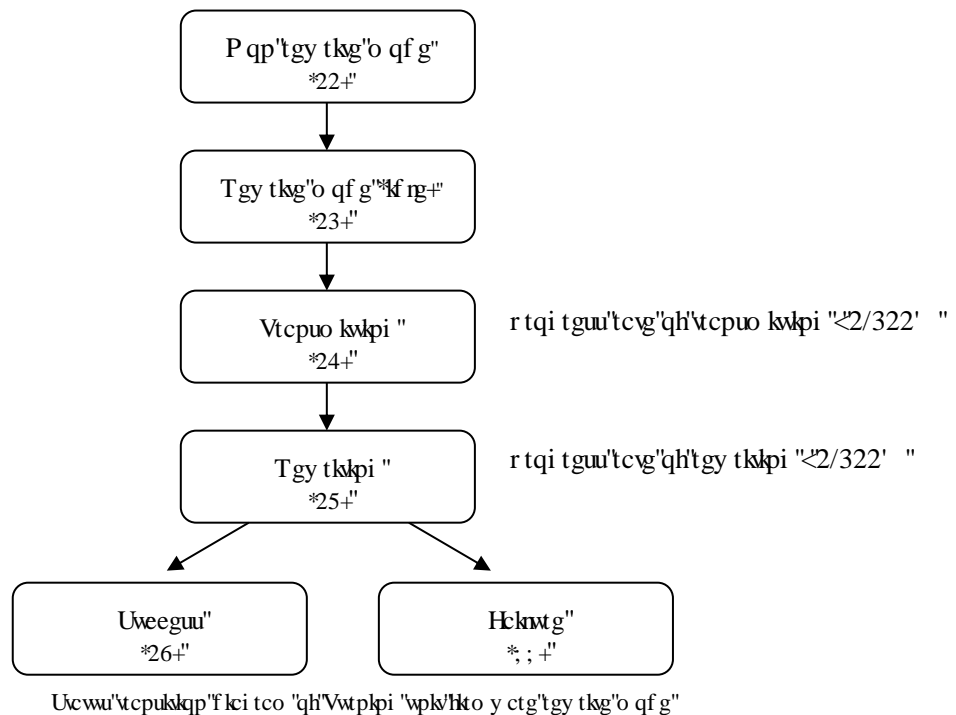
]TgwtP_" UweeguuHwK" VTWG"
HkKwtg<" HCNUG"

]Gzr npcvKqp_" Ugpf u'f cvc'q'tgy tkg'Vwtpkpi 'wplkHkto y ctg'q'yj g'r tlpvgtO'Vj g'f cvc'ku'wv r rkgf 'd { 'dlpct { 'hqt o cv'htkgO' "
Y j gp'Vj ku'eqo o cpf 'ku'kuwgf .c'dwhtgt'cr r tqz032O 'd { vg+'ku'pgeguuct { 'hqt'tgcf lpi 'y j g'htkg'cpf 'hqt'wqt lpi 'y j g'f cvc"
vgo r qtctknO'
Chgt'eqo r ngvKqp'qh'f cvc'y tkgu.'y j g'r tlpvgt'ku'tgdqvgf 'cwqo c vkecm'. 'cpf 'Wf f cvg'O qf g'ku'tgugvO'
Tghgt'q'\$33(Rtqegf wtg'q'ht'o y ctg'wr f cvg'y j gp'wulpi 'CRK\$ht'f gcknuO'

]Uco r ng'Eqf lpi _" >"XkwcrnDcule"@
F lo 'hf *3222222+ "
F lo 'e'Cu'Nqpi . 'p'Cu'Nqpi "
E?2"
Qr gp'Ipco g'Hqt'Dlpct { 'Ceeguu'Tgcf 'Cu'%8"
HkgNgpi yj '?' 'NQH*3+ "
Hqt'p'? '2'Vq'HkgNgpi yj '/' '3"
I gv%8. 'hf *e+ "
e"? 'e' "3"
P gzv'p "
Enqug'%8"
UgF wplkHkto y F cvcY tkg*RqtVp q. 'XctRt *hf *2+."e" +"

Get Turning unit Firmware Rewriting Status

]Hqto cv_" rpi "I gF wplWf f cvUcwu"*rpi "rQtvP wo ."NRUVT"r "+"
]Cti wo gpv_" rQtvP wo <" Rqtvpwo dgt"
 r <" Rqlpvg"q"j g'tgegkxkpi "dwhgt"
]Tgwtp_" Uweeguuhw<" Vj g'pwo dgt"qh'ej ctcevgtu'tgegkxgf "lp'dwhgt"r "
 Hkwtg<" /3
]Gzr npcvqp_" Tgegkxgu"j g'hto y ctg'tgy tkkpi "lphqto cvqp"lpvq"j g'dwhgt0'
]Uco rrg'Eqf kpi _" >"XkwnrE"@
 ej ct'tdwhj478_=" ktfI gF wplWf f cvUcwu"*RqtvP q."*NRUVT-tdwh"+"@2"+" "
 lIP gzv'r tqeguu"
 i "
 >"XkwnrDcule"@
 Fko 'td'Cu'Utkpi ", '477.'Xgt'Cu'Utkpi "
 Fko 'p'Cu'Nqpi "
 p"? 'I gF wplWf f cvUcwu"*RqtvP q.'td+"
 Klp"@2"Vj gp'Xgt"? 'Ngh'td.'p+"]Tgtlqgu'cu'c'ej ctcevgt'utkpi "
]Hto y ctg'Tgy tkkpi "lphqto cvqp_"
 UVU, , = Tgy tkkpi "Ucwu"
 22-pqp'tgy tkg'o qf g"
 23-Vwtpkpi "wpl/hto y ctg'tgy tkg'o qf g"*f rg+"
 24-Vwtpkpi "wpl/hto y ctg'ku'tcpuo kxkpi 0'
 25-Vwtpkpi "wpl/hto y ctg'ku'tgy tkkpi 0'
 26-Tgy tkkpi "j g"Vwtpkpi "wpl/hto y ctg'ku'weegu0'
 ; ; <Tgy tkkpi "j g"Vwtpkpi "wpl/hto y ctg'ku'hkwtg0'
 RTI / , , , = Rqi tguuTcvg"*222/322+"
 GZV/ , , , , , , = Gzvgpf gf "lphqto cvqp"*22222222/ ; ; ; ; ; ; ; "+"



Request Creation of Turning Unit Error Log (DP-DS80D)

]Hqto cv_"	DQQNF wplkGttqtNqi EtgcvgTgs *hpi 'hRqtP wo . 'F Y QTF 'f y Dcwf Tcvg"=	
]Cti wo gpv_"	rRqtP wo <" f y Dcwf Tcvg<"	Rqtv'pwo dgt" Dcwf 'tcvg'ugwlp " 2<5: 622"dr u" 3<79822"dr u" 4<337422"dr u"
]Tgwtp_"	Uweeguhw<" Hckwtg<"	VTWG" HCNUG"
]Gzr rncvqkp_"	Vj ku'tgs wguu'j g'r tlpvt'q'etgcvg'c'Vwtpkpi 'Wpk/Gttqt'Nqi 0' Hqt'f gvcnu.'r rncug'tghgt'q'öR8; 'I gwlpki 'j g'Vwtpkpi 'Wpk/Gttqt'Nqi 'F cvcö0'	
]Uco r ng'Eqf lpi _"	>"XkweriE"@ kF wplkGttqtNqi EtgcvgTgs *RqtP q.4+ "? "VTWG"+} l'Rtqeguu" i " >"XkweriDcule"@ kF wplkGttqtNqi EtgcvgTgs *RqtP q.4+ "? "Vtwg"Vj gp" Rtqeguu" Gpf 'kh'	

Get Turning Unit Error Log Data Length (DP-DS80D)

]Hqto cv_"	hpi 'I gF wplkGttqtNqi F cvcNgpi y *hpi 'hRqtP wo " " =	
]Cti wo gpv_"	rRqtP wo <"	Rqtv'pwo dgt"
]Tgwtp_"	Uweeguhw<" Hckwtg<"	F cvc'hpi y " /3
]Gzr rncvqkp_"	Vj ku'i gw'j g'f cvc'hpi y 'qh'y g'Vwtpkpi 'Wpk/Gttqt'Nqi 0' Hqt'f gvcnu.'r rncug'tghgt'q'öR8; 'I gwlpki 'j g'Vwtpkpi 'Wpk/Gttqt'Nqi 'F cvcö0'	
]Uco r ng'Eqf lpi _"	>"XkweriDcule"@ F lo 'hpi y 'Cu'Nqpi " ngpi y '?' I gF wplkGttqtNqi F cvcNgpi y *RqtP q"+	

Receive the Turning Unit Error Log Data (DP-DS80D)

]Hqto cv_" rñpi "I gVF wplkGttqtNqi Fcvc*"ñpi "rRqtVp wo ."NRUVT"r Fcvc."F Y QTF "f y DwHÜk g" " +="

]Cti wo gpv_" rRqtVp wo <" RqtV'pwo dgt"
 rr Fcvc<" Rqkpvgt'hqt'yj g'dwHgt'vq'tgegkxg'yj g'ñqi 'f cvc"
 f y DwHÜk g<" Ük g'qh'yj g'dwHgt'yj g'cr r ñecvqp'ugngevgf "vq'tgegkxg'yj g'f cvc"

]Tgwtp_" Uweeguhwn<" Fcvc"ñpi yj "
 Hckwtg<" /3

]Gzr rñpcvqp_" Vj ku'tgegkxgu'yj g'Vwtpkpi "Wplk'Gttqt'Nqi 'f cvc0'
 Vj g'Gttqt'Nqi 'F cvc'ku'lp'EUX'hqto cv'vgz0Y j gp'wulpi "yj ku'eqo o cpf ."c'dwHgt'"cdqww'32'Md{vg+"ku"
 pggf gf "q"vgo r qtctkñ"j qñf "yj g'Gttqt'Nqi 'f cvc0'
 Y j gp'yj g'tgegkxkpi 'ku'eqo r rvgg."yj g'r tlpvgt'y kn'gpf "yj g'I gV'Gttqt'Nqi 'o qf g0'
 Hqt'f gvcñu."r rñcug'tghgt'vq"öR8; "I gwkpi "yj g'Vwtpkpi "Wplk'Gttqt'Nqi 'F cvcö0'

]Uco r rñg'Eqf lpi _" >"Xkñwer'Dcule"@
 F lo 'hf *32222+ "
 F lo 'e'Cu'Nqpi ."p'Cu'Nqpi "

I gVF wplkGttqtNqi Fcvc*"RqtVp q."XctRxt*hf *2++."32222"+ "

Get the Turning Unit Error Log Creation Status (DP-DS80D)

]Hqto cv_" rñpi "I gVF wplkGttqtNqi Ucwu*"ñpi "rRqtVp wo ."NRUVT"r ."F Y QTF "f y DwHÜk g" +="

]Cti wo gpv_" rRqtVp wo <" RqtV'pwo dgt"
 r <" Rqkpvgt'hqt'tgegkxkpi "dwHgt"
 f y DwHÜk g<" Ük g'qh'yj g'dwHgt'yj cv'yj g'cr r ñecvqp'ugngevgf "vq'tgegkxg'yj g'f cvc"

]Tgwtp_" Uweeguhwn<" Vj g'pwo dgt'qh'ej ctcevgtu'tgegkxgf "cv'dwHgt'r "
 Hckwtg<" /3

]Gzr rñpcvqp_" Vj ku'tgegkxgu'yj g'Gttqt'Nqi 'Etgcvqp'Ucwu'cv'yj g'ej ctcevgt'utkpi "dwHgt0'

]Uco r rñg'Eqf lpi _" >"Xkñwer'E"@
 ej ct'tdwhj478_=" "
 kñfI gVF wplkGttqtNqi Ucwu*"RqtVp q."*NRUVT"#dwh "478"+"@2"+") "
 Il'Rtqeguu"
 i "

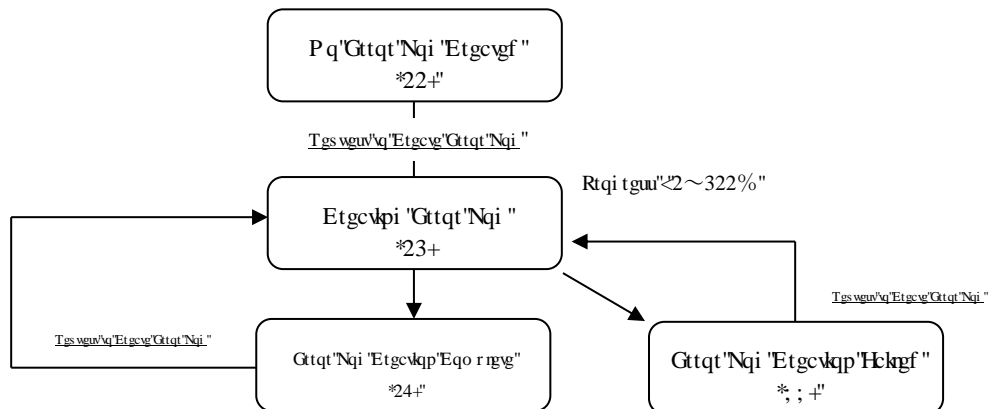
>"Xkñwer'Dcule"@
 F lo 'td'Cu'Utkpi ", "477."Ugp'Cu'Utkpi "
 F lo 'p'Cu'Nqpi "
 p"? "I gVF wplkGttqtNqi Ucwu*"RqtVp q."td."478+ "
 Kp"@"2"Vj gp'Ugp"? "Ngh*td."p+")Y j gp'lo r qtvlpi "c'ej ctcevgt'utkpi 0'

JI gwłpi 'Gttqt'Nqi 'Etgcłqp'Ucwu_

UVU/, , = Tgy tkłpi 'Ucwu'
 22<Vwłplpi 'Włk'Gttqt'Nqi 'łpeqo r rvg"
 23<Etgcłpi 'Vwłplpi 'Włk'Gttqt'Nqi "
 24<Vwłplpi 'Włk'Gttqt'Nqi 'eqo r rvg"
 ; ; <Gttqt"

RTI /, , , = Rtqi tguu'ucwu'*22~322+ "

GZ V/, , , , , , , = Gzvgpukqp'ucwu'*2222222~; ; ; ; ; ; ; + "
 22227623<Vwłplpi 'Włk'Nqi 'F c v' Hqty ctf łpi 'Rtgr ctcłqp'gttqt "
 22227624<Vwłplpi 'Włk'Nqi 'Hqty ctf łpi 'D{ v g/eqwpvTgegr vłqp'gttqt "
 22227625<Vwłplpi 'Włk'Nqi 'F c v'Tgegr vłqp'gttqt "
 22227626<Vwłplpi 'Włk'Nqi 'F c v'Qxgthqy "
 22227627<Vwłplpi 'Włk'Nqi 'Hqty ctf łpi 'Gpf 'Tgegr vłqp'gttqt "
 22227628<Vwłplpi 'Włk'Nqi 'Vtcpuo k'O qf g'Gpf 'gttqt "
 22227629<Vło g/qw'Gttqt "
 22227642<Qvj gt'Gttqt "



F łci tco 'qh'vj g'Uweegułqp'qh'vj g'Vwłplpi 'Włk'Gttqt'Nqi 'O qf g'Ucwu"

Getting the Turning Unit Error Log Data

Y j gp'włłpi 'vj g'CRKq'i gv'vj g'Gttqt'Nqi . 'r rncug'wug'vj g'łqmıy łpi 'r tqegf wt g'

Tghgtgpeg'r ci g"

"" "Gzco r r g'qh'CRKwug+ "		
3"" "F włk'Gttqt'Nqi EtgcvgTgs *+ "	Tgs wguv'Etgcłqp'qh'Vwłplpi 'Włk'Gttqt'Nqi "	R89"
4"" "I gvF włk'Gttqt'Nqi Ucwu*+ "	I gv'Vwłplpi 'Włk'Gttqt'Nqi 'Etgcłqp'Ucwu"	R8: "
5"" "I gvF włk'Gttqt'Nqi F c v'Ngpi vj *+ "	I gv'Vwłplpi 'Włk'Gttqt'Nqi 'F c v'Ngpi vj "	R89"
6"" "I gvF włk'Gttqt'Nqi F c v*+ "	Tgeglxg'Vwłplpi 'Włk'Gttqt'Nqi 'F c v"	R8: "

Clear Color Data

]Hqto cv_" DQQN'UgEqmrtF cveEngct*mqpi 'rRqtP wo "!="
DQQN'ExUgEqmrtF cveEngct*mqpi 'rRqtP wo "!="

]Cti wo gpy_" rRqtP wo "<" Rqtv'pwo dgt"

]TgwtP_" Uweeguuhwk"<" VTWG"
Hckwtg<" HCNUG"

]Gzr n'pcv'kqp_" Engct'eqmrt'eqpvtqnl'f cve'uvqtgf 'lp'yj g'r tlpvgt0'
Y j gp'tgy tskpi 'eqmrt'eqpvtqnl'f cve.'r ngcug'htuv'engct'eqmrt'eqpvtqnl'f cve'y kj 'y ku'eqo o cpf 0'
T ghgt'vq"\$33(Rtqegf wtg'vq'ht o y ctg'wr f cvg'y j gp'wulpi "CRK\$'hqt'f gvcnu0'

]Uco r ng'Eql lpi _" >"Xkuwcn'E"@'
kt'UgEqmrtF cveEngct*mqpi 'rRqtP q'+}"
ll'Eqmrt'eqpvtqnl'f cve'uweeguuhwk' "engctgf "
i "

>"Xkuwcn'Dcule"@'
kt'UgEqmrtF cveEngct*mqpi 'rRqtP q'+}"Vtwg'Vj gp"
)Eqmrt'eqpvtqnl'f cve'uweeguuhwk' "engctgf "
Gpf 'kt'

Write Color Data

]Hqto cv_" DQQN'UgEqmrtF cveY tkg*mqpi 'rRqtP wo .'NRUVT'ir F cve.'F Y QTF 'f y F cveNgp'!="
DQQN'ExUgEqmrtF cveY tkg*mqpi 'rRqtP wo .'NRUVT'ir F cve.'F Y QTF 'f y F cveNgp'!="

]Cti wo gpy_" rRqtP wo "<" Rqtv'pwo dgt"
rr F cve<" Rqkpvtg'vq'yj g'dwhgt'y j gtg'yj g'eqmrt'f cve'ku'vq'dg'tgy tskgp"
f y F cveNgp<" Vj g'pwo dgt'qh'ej ctcevgtu'qh'yj g'f cve"

]TgwtP_" Uweeguuhwk"<" VTWG"
Hckwtg<" HCNUG"

]Gzr n'pcv'kqp_" Ugpf u'eqmrt'f cve'vq'tgy tkg0'
Dghgtg'ugpf lpi 'y j gp'gy 'eqmrt'f cve'y kj 'y ku'eqo o cpf.'r ngcug'htuv'engct'gzkunkpi 'eqmrt'f cve0'

Eqmrt'f cve'ku'r tqxkf gf 'lp'cp'qtki lpcn'ht o cv'dlpct { 'hkg.'cpf'y j gp'yj ku'eqo o cpf 'ku'kuwgf.'c'dwhgt'"crr tqz0320 "
d{vg+'ku'pgeguuct { 'hqt'tgcf lpi 'y j g'hkg'cpf 'hqt'uvqtkpi 'y j g'f cve'vgo r qtctkn0'
T ghgt'vq"\$33(Rtqegf wtg'vq'ht o y ctg'wr f cvg'y j gp'wulpi "CRK\$'hqt'f gvcnu0'

]Uco r ng'Eql lpi _" >"Xkuwcn'Dcule"@'
F ko 'hf *32222222+"
F ko 'e'Cu'Nqpi .'p'Cu'Nqpi "

E?2"
Qr gp'lpco g'Hqt'Dlpct { 'Ceeguu'Tgcf 'Cu'%
HkgNgpi yj '?' 'NQH#3+"
Hqt'p"? '2'Vq'HkgNgpi yj '/' '3"
I gv'%.'. 'f *e+"
e"? 'e'- '3"

P gzv'p"
Enqug'%

UgEqmrtF cveY tkg*mqpi 'rRqtP q.'XctRt*hf *2+.'e'+"

Set Color Data Version

]Hqto cv_	DQQN'UgEqmrtF cvcXgtukqp*mqpi 'hRqtVp wo . 'NRUVT'ir F cvc.'F Y QTF 'f y F cvcNgp' += DQQN'ExUgEqmrtF cvcXgtukqp*mqpi 'hRqtVp wo . 'NRUVT'ir F cvc.'F Y QTF 'f y F cvcNgp' +=	
]Cti wo gpv_	rRqtVp wo <" r F cvc<" f y F cvcNgp<"	RqtVpwo dgt" Rqlpvg't"q"y j g'dwhgt"y j gtg'y j g'eqmrt" f cvc'xgtukqp'ku'lwqtf " Vj g'pwo dgt"qh'ej ctcevgtu'qh'y j g'f cvc"
]Tgwtp_	Uweeguihwk"<" Hckwtg<"	VTWG" HCNUG"
]Gzr mpcvqp_	Ugw'y j g'eqmrt'eqpvtqnl'f cvc'xgtukqp0' C'ngt'tgy tskpi "eqmrt'eqpvtqnl'f cvc.'r rgcug'ugv'y j g'xgtukqp'pco g'cu'y j g'hkg'pco g'qh'y j g'eqmrt'eqpvtqnl'f cvc'lw r rkgf 0' T ghgt"q"\$33(Rtqegf wtg'q'hko y ctg'wr f cvg'y j gp'wulpi 'CRK\$'hqt" f gvcnu0'	
]Uco r ng'Eqf lpi _	>"Xkweri'Dcule"@ F lo 'h'pco g'Cu'Utlpi ")Uqgtg'xgtukqp'pco g'lp'h'pco g" UgEqmrtF cvcXgtukqp*RqtVp q.'h'pco g.'Ngp'h'pco g+'h"	

Get Color Data Version

]Hqto cv_	mqpi 'I gEqmrtF cvcXgtukqp*mqpi 'hRqtVp wo . 'NRUVT'r " += mqpi 'ExI gEqmrtF cvcXgtukqp*mqpi 'hRqtVp wo . 'NRUVT'r " +=	
]Cti wo gpv_	rRqtVp wo <" r <"	RqtVpwo dgt" Rqlpvg't"q"y j g'tgegkxkpi "dwhgt"
]Tgwtp_	Uweeguihwk"<" Hckwtg<"	Vj g'pwo dgt"qh'ej ctcevgtu'tgegkxgf 'd{ "dwhgt'r " /3
]Gzr mpcvqp_	Rtlpvg't'y knltgwtp'y j g'xgtukqp'pco g'lp'y j g'dwhgt0' T ghgt"q"\$33(Rtqegf wtg'q'hko y ctg'wr f cvg'y j gp'wulpi 'CRK\$'hqt" f gvcnu0'	
]Uco r ng'Eqf lpi _	>"Xkweri'E"@ ej ct'tdwhj478_ = krf gEqmrtF cvcXgtukqp*RqtVp q.'*NRUVT-#dwh'+"@2'+"} l'P gzv'r tqeguu" i " >"Xkweri'Dcule"@ F lo 'td'Cu'Utlpi ", '477.'Xgt'Cu'Utlpi " F lo 'p'Cu'Nqpi " p"? 'I gEqmrtF cvcXgtukqp*RqtVp q.'td+ " Kfp"@2'Vj gp'Xgt'? 'Ngh'td.'p+ ")Tgtlgxgu'cu'c"ej ctcevg't'wtlpi "	

Get Color Data Version <Type Designation> (DP-DS620, DP-DS820, DP-QW410)

]Hqto cv_ nqpi 'I gEqmF cxcXgtukpTgu* nqpi 'hRqt vP wo . 'NRUVT 'r '. 'nqpi 'hV{r g'+="

]Cti wo gpv_ rRqt vP wo < Rqt v'pwo dgt"
r < Rqkpvg' "q 'y g'tgegkxkpi "dwhgt"
nV{r g< V{r g'f guli pcvkp" ugwkpi "xcnwg"<2"/"6"

]Tgwtp_ Uweeguhw< Vj g'pwo dgt "qh'ej ctcevgtu'tgegkxgf "d{ "dwhgt"r "
Hckwtg< /3

]Gzr rcpvkqp_ Rtkpvg' y kn'tgwtp'ej genuwo "qh'yj g'xgtukp'pco g'qh'ur gekkfg "v{r g'lp'yj g'dwhgt0"
Hqt'f gvcnu'qh'yj g'hwpvkqpu'tghgt "q '\$33(Rtqegf wtg'q' hto y ctg'wf cvg'yj gp'wulpi 'CRK\$0'

Ces wukukp'f cve'ht'gcej 'o qf gricpf "xcrkf"ugwkpi "xcnwg"

ces wktgf "xcnwg"	ugwkpi "xcnwg"		
	FR/F U842"	FR/F U 42"	FR/S Y 632"
522f r k'	2"	2"	2"
822f r k'	3"	3"	*pqv'cr r ncedng+ "
urqy 'ur ggf "	4"	4"	6"
j k j 'f gpukv "	*pqv'cr r ncedng+ "	5"	*pqv'cr r ncedng+ "

]Uco r ng'Eqf lpi _ ">"XkuwcnE"@
nqpi 'hV{r g=" "
ej ct'tdwhj478_=" "
krf' gEqmF cxcXgtukpTgu* Rqt vP q. "NRUVT-#dwh'. 'hV{r g'+="@2"+} "
Il'P gzv'r tqeguu"
; "
>"XkuwcnDcuke"@
Flo 'hV{r g'Cu'Nqpi "
Flo 'td'Cu'Utkpi ", '477.'Xgt'Cu'Utkpi "
Flo 'p'Cu'Nqpi "
p"? 'I gEqmF cxcXgtukpTgu* Rqt vP q. 'td. 'hV{r g+ "
Kfp"@2"Vj gp'Xgt"? 'Nghw'td. 'p+""

Get Color Data Version <Type, Media Designation> (DP-DS620, DP-DS820, DP-QW410)

]Hqto cv_" rqi 'I gEqmTF cwcXgtukpTguGZ *RqtV wo . 'NRUVT' r ". 'rqi 'nV{r g.'F Y QTF 'f y O gf kc="

]Cti wo gpy_" rRqtV wo < RqtV'pwo dgt"
 r < RqkpvgT "q" 'j g't gegkxkpi "dwhgt"
 nV{r g< V{r g'f guki pcvkqp" ugwkpi "xcnwg"<2"/"6"
 f y O gf kc< O gf kc'V{r g'f guki pcvkqp" ugwkpi "xcnwg"<3*UF +".4*RF +.5*RR+"

]TgwtP_" Uweeguuhw<" Vj g'pwo dgt "qh'ej ctcevgtu'tgegkxgf "d{ "dwhgt" r "
 Hcknwg< /3

]Gzr rcpvkqp_" RtlpvgT 'y knltgwtP'ej genuwo "qh'ij g'xgtukqp'pco g'qh'ur gekkfg 'V{r g'lp'ij g'dwhgt0'
 Hqt'f g'cknu'qh'ij g'hwpevkqpu.'tghgt "q"\$33(Rtqegf wtg'q'kto y ctg'wrf cvg'y j gp'wulpi 'CRK\$0'

Ces wklukqp'f cwc'ht'gcej "o qf grlcpf "xcrkf "ugwkpi "xcnwg"

ces wktgf "xcnwg"	ugwkpi "xcnwg"		
	FR/F U842"	FR/F U: 42"	FR/S Y 632"
522f r k'	2"	2"	2"
822f r k'	3"	3"	*pqv'cr r rlecdng+"
urqy "ur ggf "	4"	4"	6"
j k j "f gpukv{ "	*pqv'cr r rlecdng+"	5"	*pqv'cr r rlecdng+"

Y j gp'f{qw'ugv'j'q'ij g'O gf kc'V{r g'f guki pcvkqp.'r tlpvgT 'y knltgwtP'xgtukqp'pco g'qh'ij g'eqmTF cwc'ht'UF "o gf kc'lp'ij g'dwhgt0'
 Y j gp'f{qw'ugv'j'q'ij g'O gf kc'V{r g'f guki pcvkqp.'r tlpvgT 'y knltgwtP'xgtukqp'pco g'qh'ij g'eqmTF cwc'ht'RF "o gf kc'lp'ij g'dwhgt0', 3"
 Y j gp'f{qw'ugv'j'q'ij g'O gf kc'V{r g'f guki pcvkqp.'r tlpvgT 'y knltgwtP'xgtukqp'pco g'qh'ij g'eqmTF cwc'ht'RR'o gf kc'lp'ij g'dwhgt0', 4"
 , 3<F R/S Y 632"cpf 'F R/F U842*xgt(5022"qt'hwgt+"
 , 4<F R/F U: 42"qprf "

]Uco r ng'Eqf kpi _" >"XkucnE"@
 ej ct'tdwhj478_="

 krfI gEqmTF cwcXgtukpTguGZ *RqtV q. "NRUVT-t dwh". "3. "5 "+"@2 "+" "
 lI'P gzv'r tqeguu"
 i "

>"XkucnDcuLe"@
 Fko 'td'Cu'Utlpi ", "477.'Xgt'Cu'Utlpi "
 Fko 'p'Cu'Nqpi "
 p"? 'I gEqmTF cwcXgtukpTguGZ *RqtV q. 'td. "2. "5 +"
 Klp"@2"Vj gp'Xgt"? 'Nghw'td. 'p+"

Set the Color Control Data Version in Temporary Buffer (CW)

```

]Hqto cv_ " DQQNUGvEqmrtF cvcXgtukqpVo r *hpi "hRqtV wo . "NRUVT"hr F cvc. "F Y QTF "f y F cvcNgp" " +=
]Cti wo gpv_ " rRqtV wo < " RqtVpwo dgt "
r F cvc< " Rqlpvtg "vq" yj g'dwhgt "y j gtg" yj g'eqmrt "eqpvtqnlF cvc"ku'lvqtf "
f y F cvcNgp< " F cvc"ej ctcevtg "hpi yj "
]Tgwtp_ " Uweeguhwn< " VTWG"
Hkwtg< " HCNUG"
]Gzr rpcvklp_ " Vj ku'ugv" yj g'Eqmrt "EqpvtqnlF cvc"Xgtukqp"lp" yj g'r tlpvtg "TCO " %go r qtct { "dwhgt +0"
Y j gp "ugpf lpi " yj g'eqmrt "eqpvtqnlF cvc"vq" yj g'go r qtct { "hkg. "wug" yj ku'eqo o cpf "vq"ugv" yj g'eqmrt "eqpvtqnlF cvc"Xgtukqp0"
Wug" yj g'hkg" pco g'qh" yj g'eqmrt "eqpvtqnlF cvc" hkg" yj cv'ku' r tqxf gf "y j gp"ugv lpi " yj g'eqmrt "eqpvtqnlF cvc"Xgtukqp0"
]Uco r ng"Eqf lpi _ " Tghgt "vq"UgEqmrtF cvcY tkgVo r "hqt" yj g'uco r ng"

```

Send Color Control Data to Temporary Buffer (CW)

```

]Hqto cv_ " DQQNUGvEqmrtF cvcY tkgVo r *hpi "hRqtV wo . "NRUVT"hr F cvc. "F Y QTF "f y F cvcNgp" " +=
]Cti wo gpv_ " rRqtV wo < " RqtVpwo dgt "
r F cvc< " Rqlpvtg "vq" yj g'dwhgt "y j gtg" yj g'eqmrt "eqpvtqnlF cvc"ku'lvqtf "
f y F cvcNgp< " F cvc"ej ctcevtg "hpi yj "
]Tgwtp_ " Uweeguhwn< " VTWG"
Hkwtg< " HCNUG"
]Gzr rpcvklp_ " Vj ku'ugpf u" yj g'eqmrt "eqpvtqnlF cvc"vq" yj g'r tlpvtg "TCO " %go r qtct { "dwhgt +0D { "ugpf lpi " yj g'eqmrt "eqpvtqnlF cvc." yj g"
r tgzklwuf cvc" y knidg" y tkgp "qxtg0"

Vj ku'eqo o cpf "tgy tkgu" yj g'EY "r tlpvtg" eqmrt "eqpvtqnlF cvc. "cpf "ku'wugf " yj gp" yj g'tguqnlwklp "ku'ej cpi gf "hgs wgpv" (0Vj g"
ygo r qtct { "hkg" y knidg" gtcugf " yj gp" yj g'r qy gt "ku'wtpgf "QH0T gdqqv lpi " y knitgwtp "k/vq" yj g'f ghcwn"xcnvg0"
*Vj g'f ghcwn"xcnvg" ecp "dg" tgy tkgp "wulpi "UgEqmrtF cvcY tkg*0"

Eqmrt "eqpvtqnlF cvc"ku' r tqxf gf "lp" cp" qtki kpcnlhqtto cv'dlpct { "hkg0Y j gp" wulpi " yj ku'eqo o cpf . "c" dwhgt "hqt" vgo r qtct { "
uqtci g" %cr r tqzko cvgn { "32" O d { vg+ "ku'pgeguuct { "vq" tgcg " yj g'hkg" cpf "tgy tkg" yj g'f cvc0"

]Uco r ng"Eqf lpi _ " >"XkwnrDcule"@
F ko "hf *32222222+ "
F ko "e" Cu" Nqpi . "p" Cu" Nqpi "

E?2"
Qr gp "Ipco g" Hqt "Dlpct { "Ceegui" Tgcf "Cu" % "
HkgNgpi yj "? "NQH*3+ "
Hqt "p" "? "2" Vq" HkgNgpi yj "/" "3"
I gv%6. " . "hf *e+ "
e"? "e- " "3"

P gzv"p"
Enqug" %6"

UgEqmrtF cvcXgtukqpVo r *RqtV q. "Ipco g. "Ngp" *Ipco g+ "+"
UgEqmrtF cvcY tkgVo r *RqtV q. "XctRt *hf *2+ " . "e" + "

```

Get Color Data Checksum

]Hqto cv_" nqpi 'I gEqmrtF cveEj genuwo *nqpi 'hRqtvP wo . 'NRUVT' r " ="
 nqpi 'ExI gEqmrtF cveEj genuwo *nqpi 'hRqtvP wo . 'NRUVT' r " ="

]Cti wo gpy_" nRqtvP wo <" Rqtv'pwo dgt"
 r <" Rqlpvg't'q'j g'tgegkxkpi "dwhgt"

]TgwtP_" Uweeguuhwk" Vj g'pwo dgt'qh'ej ctcevgtu'tgegkxgf "d{ "dwhgt" r "
 Hckwtg<" /3

]Gzr npevqkp_" Rtlpvg't'y knltgwtP'ej genuwo "qh'yj g'eqmrt'f cve'lp'yj g'dwhgt0"
 Tghgt'vq'\$33(Rtqegf wtg'vq'hko y ctg'wr f cvg'y j gp'wulpi 'CRK\$'hqt'f gvcnu0'

]Uco r ng'Eqf lpi _" >"Xkucn'E"@
 ej ct'tdwhj478 ="
 krtf gEqmrtF cveEj genuwo *RqtvP q. "NRUVT-tdwh'+"@2"+" "
 Il'P gzv'r tqeguu"
 i "

>"Xkucn'Dcule"@
 Flo 'td'Cu'Utlpi ", '477.'Xgt'Cu'Utlpi "
 Flo 'p'Cu'Nqpi "
 p'? 'I gEqmrtF cveEj genuwo *RqtvP q. 'td+ "
 Klp'@2'Vj gp'Xgt'? 'Ngh'td. 'p+ ")Tgwtgvgu'cu'c'ej ctcevg't'utlpi "

Get Color Data Checksum <Type Designatiop@(DP-DS620, DP-DS820, DP-QW410)

]Hqto cv_" nqpi 'I gEqmrtF cveEj genuwo Tgu*nqpi 'hRqtvP wo . 'NRUVT' r . 'nqpi 'hV{r g+="
 nqpi 'hV{r g+="
 ej ct'tdwhj478 ="

]Cti wo gpy_" nRqtvP wo <" Rqtv'pwo dgt"
 r <" Rqlpvg't'q'j g'tgegkxkpi "dwhgt"
 nV{r g<" V{r g'f guki pcvkqp" ugwlpi "xcnvg"<2"/"6"

]TgwtP_" Uweeguuhwk" Vj g'pwo dgt'qh'ej ctcevgtu'tgegkxgf "d{ "dwhgt" r "
 Hckwtg<" /3

]Gzr npevqkp_" Rtlpvg't'y knltgwtP'ej genuwo "qh'yj g'eqmrt'f cve'qh'ur gekhgf "v{r g'lp'yj g'dwhgt0"
 Hqt'f gvcnu'qh'yj g'hpevqkp'u. 'tghgt'vq'j g'\$33(Rtqegf wtg'vq'hko y ctg'wr f cvg'y j gp'wulpi 'CRK\$0'

Ces wklkqp'f cve'hqt'gcej "o qf grlcpf "xcrkf "ugwlpi "xcnvg"

ces wklkqp'f cve'hqt'gcej "o qf grlcpf "xcrkf "ugwlpi "xcnvg"	ugwlpi "xcnvg"		
	FR/FU842"	FR/FU: 42"	FR/SY 632"
522f r k'	2"	2"	2"
822f r k'	3"	3"	*pqv'cr r nlecdng+ "
unqy "ur ggf "	4"	4"	6"
j k j "f gpukv{ "	*pqv'cr r nlecdng+ "	5"	*pqv'cr r nlecdng+ "

]Uco r ng'Eqf lpi _" >"Xkucn'E"@
 nqpi 'hV{r g+="
 ej ct'tdwhj478 ="
 krtf gEqmrtF cveEj genuwo Tgu*RqtvP q. "NRUVT-tdwh'. 'hV{r g+ "+"@2"+" "
 Il'P gzv'r tqeguu"
 i "

>"Xkucn'Dcule"@
 Flo 'hV{r g'Cu'Nqpi "
 Flo 'td'Cu'Utlpi ", '477.'Xgt'Cu'Utlpi "
 Flo 'p'Cu'Nqpi "
 p'? 'I gEqmrtF cveEj genuwo Tgu*RqtvP q. 'td. 'hV{r g+ "
 Klp'@2'Vj gp'Xgt'? 'Ngh'td. 'p+ "

Get Color Data Checksum <Type, Media Designatiop@ (DP-DS620, DP-DS820, DP-QW410)

]Hqto cv_" rmpI 'I gVeqmrtF cveEj genuwo TguGZ *RqtP wo . 'NRUVT' r . 'hpi 'hV(r g. 'F Y QTF 'f y O gf lc="

]Cti wo gpv_" rRqtP wo < RqtPwo dgt"
 r < Rqkpvt "q" y g'tgegkxlpI "dwhgt"
 nV(r g< V(r g'f guki pcvqp" ugwlpi "xcnwg"<2"/"6"
 f y O gkf c" O gf lc'f guki pcvqp" ugwlpi "xcnwg"<3"*UF +."4*RF +."5*RR+"

]Tgwtp_" Uweeguhwn< Vj g'pwo dgt"qh'ej ctcevgtu'tgegkxgf "d{ "dwhgt"r "
 Hkntg< /3

]Gzr rcpvqp_" Rtlpvt'y knltgwtp'ej genuwo "qh'ij g'eqmrt'f cve'qh'ur gekHgf "V(r g'lp'y g'dwhgt0"
 Hqt'f gvcnu'qh'ij g'hwpevqp'u. 'tghgt"q" y g'S33(Rtqegf wt g'q'ht o y ctg'wr f cvg'y j gp'wulpi 'CRK\$0

Ces wuklqp'f cve'ht'gcej "o qf gncpf "xcrkf "ugwlpi "xcnwg"

ces wkt gf "xcnwg"	ugwlpi "xcnwg"		
	FR/F U842"	FR/F U: 42"	FR/S Y 632"
522f r k'	2"	2"	2"
822f r k'	3"	3"	*pqv'cr r rlecdng+"
urqy "ur ggf "	4"	4"	6"
j k j "f gpukx{ "	*pqv'cr r rlecdng+"	5"	*pqv'cr r rlecdng+"

Y j gp'{"qw'ugv'3})'q'ij g'O gf lc'V(r g'f guki pcvqp. 'r tlpvt'y knltgwtp'ej genuwo "qh'ij g'eqmrt'f cve'ht'UF "o gf lc'lp'y g'dwhgt0"
 Y j gp'{"qw'ugv'4})'q'ij g'O gf lc'V(r g'f guki pcvqp. 'r tlpvt'y knltgwtp'ej genuwo "qh'ij g'eqmrt'f cve'ht'RF "o gf lc'lp'y g'dwhgt0, 3"
 Y j gp'{"qw'ugv'5})'q'ij g'O gf lc'V(r g'f guki pcvqp. 'r tlpvt'y knltgwtp'ej genuwo "qh'ij g'eqmrt'f cve'ht'RR"o gf lc'lp'y g'dwhgt0, 4"
 , 3<FR/S Y 632"cpf "FR/F U842*xgt(5022"qt"rcvgt+"
 , 4<FR/F U: 42"qpnq

]Uco r ng'Eqf lpi _" >"XkucnE"@
 ej ct'tdwhj478_="<
 krtf gVeqmrtF cveEj genuwo TguGZ *RqtP q. "NRUVT+tdwh".n'5"+"@2"+}) "
 lIP gzv'r tqeguu"
 i "

>"XkucnDcule"@
 F ko 'td'Cu'Utlpi ", '477.'Xgt'Cu'Utlpi "
 F ko 'p'Cu'Nqpi "
 p"? 'I gVeqmrtF cveEj genuwo TguGZ *RqtP q.'td.'h'5+"
 Klp"@2"Vj gp'Xgt"? 'Nghv'td.'p+"

Cutter Control Command

[Format] BOOL SetCutterMode(long lPortNum, DWORD ctMode);

[Argument] lPortNum: Port number
ctMode: Cutter mode selection

[Return] Successful: TRUE
Failure: FALSE

[Explanation] This is to designate the cutter operation.
The cutter operation designation has a macro definition of CspStat.h.
The symbols have the following meanings:

CUTTER_MODE_STANDARD	(0)	Standard cutter operation
CUTTER_MODE_NONSCRAP	(1)	Non-scrap cutter operation
CUTTER_MODE_SINGLECUT	(2)	Single cut mode operation (DP-TC10)
CUTTER_MODE_NONSCRAP_1	(100)	2 image layout and both sheets non-scrap cutter operation *4
CUTTER_MODE_NONSCRAP_2	(101)	2 image layout and 1st sheet non-scrap cutter operation*4
CUTTER_MODE_NONSCRAP_3	(102)	2 image layout and 2nd sheet non-scrap cutter operation *4
CUTTER_MODE_2INCHCUT	(120)	2inch cut operation *1
CUTTER_MODE_L2IMAGEPRINT	(130)	L card size 2-image layout continuous printing designation (for DP-TC10 only) *2
CUTTER_MODE_PANORAMA	(1000)	Panorama printing operation (with blank between images)*3

Note) The cutter control command sets the operation before the image data is sent. The command is valid for 1 image. After performing the designated cut for the printed image, the printer will return to its standard cut operation.

2inch cut operation is effective in these paper size.

DS40/DS-RX1	: 6x4, 6x8
DP-DS620	: 6x4, 6x8, 6x4x2
DP-DS820	: 8x4, 8x6, 8x8, 8x10, 8x12, A4x6, A4x8, A4x10
DP-QW410	: 4x4, 4x6, 4.5x4, 4.5x6, 4.5x8, 4.5x4x2

Panorama printing supports these sizes.

DP-DS620	: 6x16(two 6x8 images), 6x24(two 6x8 images)
DP-DS820	: 8x20(two 8x10 images), 8x24(two 8x12 images), A4x2(two A4 images), 8x30(three 8x10 images), 8x24(three 8x12 images), A4x3(three A4 images)

*1 Effective at the firmware version of the model in the following table.

Model	DS40	DS-RX1	DP-DS620	DP-DS820	DP-QW410
Firmware Ver.	1.40 or later	1.10 or later	○	○	○

*2 For details on the DP-TC10 L card size 2-image layout continuous printing, please refer to “13.Appendix (2) About DP-TC10 L card size 2-image layout continuous printing”.

*3 Supported by DP-DS620 firmware version 01.20 or later or DP-DS820.

Refer to “13.Appendix (5) Panorama Printing with White Border”, for more information about panorama printing.

*4 Supported by DP-DS620 firmware version 04.00 or later

The Non-scrap cutter operation when the 2image layout and Non-scrap cutter operation parameter (CUTTER_MODE_NONSCRAP_1, CUTTER_MODE_NONSCRAP_2, CUTTER_MODE_NONSCRAP_3) is selected is shown in the table below.

Specified value	2image layout		1image layout
	First print	Second print	
CUTTER_MODE_NONSCRAP_1	Non-scrap cutter operation	Non-scrap cutter operation	Non-scrap cutter operation
CUTTER_MODE_NONSCRAP_2	Non-scrap cutter operation	Normal operation	Non-scrap cutter operation
CUTTER_MODE_NONSCRAP_3	Normal operation	Non-scrap cutter operation	Non-scrap cutter operation

[Sample Coding] < Visual C >

```
SetCutterMode(PortNo, (DWORD)CUTTER_MODE_NONSCRAP);
```

< Visual Basic >

```
SetCutterMode(PortNo, CUTTER_MODE_NONSCRAP)
```

Get Media ID Set Info

]Hqto cv_ " rpi 'I gvO gf lcK UgVKhq*'rpi 'rRqtV wo "t="

]Cti wo gpv_ " rRqtV wo < " RqtV'pwo dgt "

]TgwtP_ " Uweeguhwn< " O gf lc'K 'ugV'phq "

]Gzr rpevKqp_ " TgwtP'qh'vj g'O gf lc'K 'ugV'phq'0

O qf gni	TgwtP " XcniG "	Vj g'eqpvgpw'qh'c'O gf lc'K 'ugV'phq "
EY . "	2 "	K 'ugwr 'ku'pqv'eqo r ngvf 0'
EY 24 "	3 "	EY /uwpf ctf "K "
	4 "	EY /RO Kk "
Qvj gtu "	2 "	

]Uco r ng'Eql pi _ " >"Xkwnr'E"@'
rpi 'kf xcn!
krt*"kf xcn?' 'I gvO gf lcK UgVKhq*'RqtV q "+"@ "2 "+" "
ll'TgwtP'u'vj g'O gf lc'K 'ugV'phq "

i "
>"Xkwnr'Dcule"@'
F ko 'pwo dgt'Cu'Nqpi "
kf xcn?' 'I gvO gf lcK UgVKhq*'RqtV q "+"

1-image Retention Control Command (DS40)

]Hqto tv_ " DQQN'UgV'gvgpVkpO qf g*rpi 'rRqtV wo . 'F Y QTF 'tO qf g"t="

]Cti wo gpv_ " rRqtV wo < " RqtV'pwo dgt "
tO qf g< " 3/ko ci g'tgvgpVkp'o qf g'ugngvKqp

]TgwtP_ " Uweeguhwn< " VTWG "
Hckwtg< " HCNUG "

]Gzr rpevKqp_ " Vj ku'ku'q'f guki pcvg'vj g'3/Ko ci g'tgvgpVkp'qr gtcvKp'hqt'r tlpvg' "F U62-0'
Vj g'3/Ko ci g'tgvgpVkp'o qf g'f guki pcvKp'j cu'c'o cetq'f ghkpkKqp'qh'Eur Ucvj 0'
Vj g'u{o dqu'j cxg'vj g'hqny pi "o gcplpi u<

TGVGP VKQP aO QF Ga QHH' *2+ P qto cniO qf g'F ghcwn+
TGVGP VKQP aO QF Ga QP " *3+ 3/Ko ci g'tgvgpVkp'O qf g

P qvg+ " K'vj g'r tlpvg'ku'wtpgf "qh'k'y knltgxgtv'q'vj g'pqto cniO qf g'vj g'pgzv'ko g'k'ku'uctvgf "wr 0'

]Uco r ng'Eql pi _ " >"Xkwnr'E"@'
UgV'gvgpVkpO qf g'RqtV q. "F Y QTF -TGVGP VKQP aO QF Ga QP "+"

>"Xkwnr'Dcule"@'
UgV'gvgpVkpO qf g'RqtV q. "TGVGP VKQP aO QF Ga QP "+"

Overcoat Finishing Control Command

[Fomrt]	BOOL SetOvercoatFinish (long lPortNum, DWORD ovcoat);	
[Argument]	lPortNum:	Port number
	ovcoat:	Overcoat finishing mode selection
[Return]	Successful:	TRUE
	Failure:	FALSE
[Explanation]	This is to designate the overcoat finishing operation.	
	The overcoat finishing mode designation has a macro definition of CspStat.h. The symbols have the following meanings:	
	OVERCOAT_FINISH_GLOSSY	(0) glossy(default)
	OVERCOAT_FINISH_MATTE1	(1) matte 1
	OVERCOAT_FINISH_PMATTE1	(11) Partial matte1 (Partial matte)
	OVERCOAT_FINISH_FINEMATTE	(21) Fine matte
	OVERCOAT_FINISH_LUSTER	(22) Luster
	OVERCOAT_FINISH_PMATTE11	(101) Partial matte (Matte)
	OVERCOAT_FINISH_PMATTE12	(121) Partial matte (Fine matte)
	OVERCOAT_FINISH_PMATTE13	(122) Partial matte (Luster)

Note) The overcoat finishing control command sets the operation before the image data is sent.
The command is valid for 1 image.
After performing the designated overcoat finishing for the printed image, the printer will return to its glossy finishing operation.

This command is valid for DS40/80, DS40T/80T compatible firmware DS-RX1, CW02, DP-DS620, DP-DS820, DP-QW410, DP-DS80D and DP-TC10.

If connected to devices other than these, the return will be FALSE.

This command first checks the printer version, and if the version is not Matte compatible, it will return FALSE.

Model	Version	Return
CV <MPⅢ> / CW	-	FALSE
DS40/80	Compatible	TRUE
DS40T/80T	Not Compatible	FALSE
Others	Compatible	TRUE

• Overcoat finish <overall type>

○:Support -:No support Value:Effective firmware version (This or later)

Overcoat finish	Model							
	DS40T DS80T	DS40 DS80	CW2 DS-RX1	DP- DS80D	DP- DS620	DP- DS820	DP- QW410	Others
OVERCOAT_FINISH_GLOSSY	○	○	○	○	○	○	○	○
OVERCOAT_FINISH_MATTE1	0.31	1.30	○	○	○	○	○	-
OVERCOAT_FINISH_FINEMATTE	-	-	-	-	1.20	○	-	-
OVERCOAT_FINISH_LUSTER	-	-	-	-	1.30	○	-	-

- Overcoat finish <partial matte type> *1

○:Support -:No support Value:Effective firmware version (This or later)

Overcoat finish	Model				
	DP-TC10	DP-DS620	DP-DS820	DP-QW410	Others
OVERCOAT_FINISH_PMATTE1	○	-	-	-	-
OVERCOAT_FINISH_PMATTE11	-	1.20	○	○	-
OVERCOAT_FINISH_PMATTE12	-	1.30	○	-	-
OVERCOAT_FINISH_PMATTE13	-	1.30	○	-	-

*1 Refer to “13.Appendix(3) About Partial Matte Printing”.

[Sample Coding]

< Visual C >

SetOvercoatFinish (PortNo, (DWORD) OVERCOAT_FINISH_MATTE2);

< Visual Basic >

SetOvercoatFinish (PortNo, OVERCOAT_FINISH_MATTE2)

Print Retry Control command

[Format]	BOOL SetRetryControl (long lPortNum, DWORD retry);		
[Argument]	lPortNum:	Port number	
	retry:	Selects Print Retry ON/OFF	
		PRINT_RETRY_OFF (0)	Print retry [OFF]
		PRINT_RETRY_ON (1)	Print retry [ON]
[Return]	Successful:	TRUE	
	Failure:	FALSE	
[Explanation]	With this function setting, when there is a printer error, this makes a new attempt to print the data that was in the printer buffer after the error is resolved. The operation designation for Retry Control is macro defines as CspStat.h. This command is valid for DS40/80(Ver.1.30 or later.) and CW02, DS-RX1, DP-DS80D, DP-DS620, DP-DS820, DP-QW410.		

Note) The Retry Control command is sent before the image data. Each command is valid for 1 image. The normal initial status of the printer has the Retry Control OFF, so if this command is not executed, the operation is the same as always. Details of operation are as follows.

When using cut sheet on the DP-DS80D Turning unit, the Retry function cannot be used.

Setting Value:	Disable(Default)	Enable
Function:	Printing data in a printer buffer is cleared in the case of a printer error.After an error recovery, the cleared image data must be re-sent.	Printing data in a printer buffer is held in the case of a printer error.After an error recovery, the print process resumes with the saved data. However, if the power is turned OFF, the data will not be saved.

For retry printing operation in each error

Print Re-try printing operation in each error		
Contents of an error	Print Re-try setup is "Disable"	Print Re-try setup is "Enable"
Paper End	Please resend picture data not printed after error recovery.	Printing processing is resumed from data currently held in a printer buffer after error recovery. When paper initialization operation is performed, it is printed after paper initialization operation.
Ribbon End		
Cover Open		
Scrap Box Error		
Paper Jam	Please resend picture data not printed after error recovery.	DP-DS820, DP-QW410: Even if the printing retry function has been set to "Enable", print data in a printer buffer is cleared. Please resend picture data not printed after error recovery. Other model: Printing processing is resumed from data currently held in a printer buffer after error recovery. When paper initialization operation is performed, it is printed after paper initialization operation.
Ribbon Error		
Paper Definition Error		
Data Error	For error recovery, the power supply of a printer once needs to be turned OFF. Therefore, print data in a printer buffer is cleared by power-supply OFF of a printer regardless of a setup of the Print Re-try function.	For error recovery, the power supply of a printer once needs to be turned OFF. Therefore, print data in a printer buffer is cleared by printer power-supply OFF even if the Print Re-try function is set to "Enable". Please resend picture data not printed after printer re-starting.
Head Voltage Error		
Head Position Error		
Power Supply Fan Stop		
Cutter Error		
Abnormal Head Temp.		
Abnormal Media Temp.		
Ribbon Tension Error		
RFID Module Error		
Abnormal motor Temp.		
USB Power Supply Voltage Error	Please resend picture data not printed after printer re-starting.	
System Error		

Get Media Class

[Format]	long GetRfidMediaClass(long lPortNum, LPSTR p);	
[Argument]	lPortNum:	Port number
	p:	Pointer to the receiving buffer
[Return]	Successful:	The number of characters received by buffer p
	Failure:	-1
[Explanation]	The media class data recorded in the RF-ID tag is returned. (ASCII character of four digits)	

•Media Type

Acquired string	Description
(None)	Default media
0001	Digital (SD) media.
0002	Premium(PD) media
0003	Pure Premium (PP) media.
1004	Metallic paper
1023	Silverpearl paper

Models other than DP-DS620, DP-DS820 and DP-QW410: Not set. (No String)
 * The default media depends on the model.

[Sample Coding]

```

< Visual C >
char rbuf[256];
if(GetRfidMediaClass( PortNo, (LPSTR)rbuf ) > 0 ){
    // Next process
}

< VB.NET >
Dim s As String = New String("", 255)
Dim i As Integer
i = GetRfidMediaClass(PortNo, s)
If i > 0 Then Text1.Text = VB.Left(s, i) Else Text1.Text = "ERROR!"
  
```

Get RF-ID reserve data (DS-RX1, DP-TC10, DP-DS620, DP-DS820, DP-QW410)

[Format]	long GetRfidReserveData(long lPortNum, LPSTR p, DWORD dwPage);	
[Argument]	lPortNum:	Port number
	p:	Pointer to the receiving buffer
	dwPage:	Page of reserve data
[Return]	Successful:	The number of characters received by buffer p
	Failure:	-1
[Explanation]	The reserve data recorded in the RF-ID tag is returned. (ASCII character of four digits)	
[Sample Coding]	< Visual C > char rbuf[256]; if(GetRfidReserveData(PortNo, (LPSTR)rbuf, 0x01) > 0){ // Page 1 // Next process }	
	< VB.NET > Dim s As String = New String("", 255) Dim i As Integer i = GetRfidReserveData(PortNo, s, &h2) 'Page 2 If i > 0 Then Text1.Text = VB.Left(s, i) Else Text1.Text = "ERROR!"	

Get Initial Media Count (DS-RX1, DP-TC10, DS40, DP-DS620, DP-DS820, DP-QW410)

[Format]	long GetInitialMediaCount(long lPortNum);	
[Argument]	lPortNum:	Port number
[Return]	Successful:	Initial media count
	Failure:	-1
[Explanation]	<p>This returns the initial media count.</p> <p>The returned for the initial media count is the actual number +50, so when using a function, be sure to factor in the +50 count. (DP-DS620, DP-DS820 and DP-QW410 are excluded.)</p>	
[Sample Coding]	< Visual C > long number; if((number = GetInitialMediaCount(PortNo) >= 0)){ // Next process } 	
	< VB.NET > Dim number As Integer number = GetInitialMediaCount(PortNo) 	

Get Turning unit Firmware Version (DP-DS80D)

[Format]	long GetVersionDuplex(long lPortNum, LPSTR p);	
[Argument]	lPortNum:	Port number
	p:	Pointer the reciving buffer
[Return]	Successful:	The number of characters received by buffer p
	Failure:	-1
[Explanation]	<p>Receive the Turning unit firmware version to the character string buffer.</p> <p>When a printer is not DP-DS80D, returns -1.</p>	
[Sample Coding]	< Visual C > char rbuf[256]; if (GetVersionDuplex(PortNo, (LPSTR)rbuf) > 0){ // Process } 	
	< Visual Basic > Dim rb As String * 255, Ver As String Dim n As Long n = GetVersionDuplex(PortNo, rb) If n > 0 Then Ver = Left(rb, n) 'Retrieves as a character string 	
[Version Infomation]	*.**	Frimware version
	△△△△△△	When Turning unit firmware is not support function or Turning unit is not connected, version Information is blank (△ 0x20).

Full Cutter Set-up

[Format] long SetFullCutterSetUp(long lPortNum, long lCutSize1, long lCutSize2, long lCutSize3, long lCutSize4);

[Argument] lPortNum: Port number
 lCutSize1: Image1 cut size setting value:0, 20 -
 lCutSize2: Image2 cut size setting value:0, 20 -
 lCutSize3: Image3 cut size setting value:0, 20 -
 lCutSize4: Image4 cut size setting value:0, 20 -

[Return] Successful: 1
 Failure: 0

[Explanation] With the media sizes shown in the table below, it will cut to the designated sizes to make from 1 to the corresponding maximum cutting sheet number.

The cut size can be set in 0.1-inch increments in the 2 inches to the maximum size range. The total size should not exceed the maximum size.

When you set '0' to the cutting size of the image 1, it will print in usually size (6x8). In that case, the cut size of the image 2-4 is ignored.

When the cutting sheet number is one sheet, please set '0' to the cut size of the image 2 - 4.

When the cutting sheet number is two sheets, please set '0' to the cut size of the image 3 - 4.

When the cutting sheet number is three sheets, please set '0' to the cut size of the image 4.

If you set the out-of-range cut size, it is returned "0".

■ Media size and cut size setting range

Media size	Maximum cutting sheet number	Maximum size	No. of images	Cut size setting range	
				Minimum	Maximum
6x4 (PC) *1 4x4 *4 4.5x4 *5	2 sheets	4 inches	1	20	40
			2	20	20
4x4.5 *5 4.5x4.5 *5	2 sheets	4.5 inches	1	20	45
			2	20	25
4x6 *4 4.5x6 *4	3 sheets	6 inches	1	20	60
			2	20	40
			3	20	20
5x7 (2L) *1 8x7	3 sheets	7 inches	1	20	70
			2	20	50
			3	20	30
6x8 (A5) *2 4.5x8 *4	4 sheets	8 inches	1	20	80
			2	20	60
			3	20	40
			4	20	20
6x9 (A5W) *1 8x9	4 sheets	9 inches	1	20	90
			2	20	70
			3	20	50
			4	20	30
8x10 *3	4 sheets	10inches	1	20	100
			2	20	80
			3	20	60
			4	20	40
A4 *3	4 sheets	11.7inches	1	20	117
			2	20	97
			3	20	77
			4	20	57
8x12 *3	4 sheets	12inches	1	20	120
			2	20	100
			3	20	80
			4	20	60

*1 Supported by DP-DS620 firmware version 01.20 or later.

*2 Supported by DS40 firmware version 01.60 or later and DP-DS620

*3 Supported by DP-DS820.

*4 Supported by DP-QW410.

*5 Supported by DP-QW410 firmware version 01.09 or later.

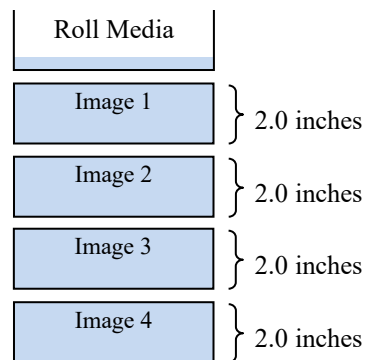
[Attention] If you specify both this command and cutter control command, this command will be given priority.
 If the total cut size set using this command is larger than the image size sent to the printer, this command is disabled and printing is done with the media size (normal size) sent to the printer.

[Sample Coding] **< Visual C >**

```
if((SetFullCutterSetUp( PortNo, 20, 20, 20, 20 )) == 0 ){
    //Error
}
```

< Visual Basic >
 Dim Result As Long
 Result = SetFullCutterSetUp(PortNo, 20, 20, 20, 20)
 If Result = 0 Then GoTo Error

*It will print the following result, when using the sample coding above.



Full Cutter Set-up Extended Settings

[Format] long SetFullCutterSetUpEX(long lPortNum, long lCutNum, long lScrapSize, long lCutSize1, ...);

[Argument]

lPortNum:	Port number	
lCutNum:	Number of image cut size settings	Setting value: 1-6
lScrapSize:	Intermediate scrap cut size	Setting value: 0, 12-22 (*1)
lCutSize1:	Image1 cut size	Setting value: 0, 20-
lCutSize2:	Image2 cut size	Setting value: 0, 20-
lCutSize3:	Image3 cut size	Setting value: 0, 20-
lCutSize4:	Image4 cut size	Setting value: 0, 20-
lCutSize5:	Image5 cut size	Setting value: 0, 20-
lCutSize6:	Image6 cut size	Setting value: 0, 20-

[Return]

Successful:	1
Failure:	0

[Explanation]

Full Cutter Set-up Extended command that makes it possible to set the size of an intermediate scrap cut. The scrap size can be set in 0.01-inch increments in the 0.12 to 0.22 inches range. (*1)
When setting the intermediate scrap cut size to a valid value other than 0, pay attention that the total cut size calculated with the formula below does not exceed the media maximum size.

$$\text{Total cut size} = (\text{Total of each image cut size}) + ((\text{Intermediate scrap cut size}/10) \times (\text{Number of images}-1))$$

Example: The following formula is obtained when the media size is 6x9 inches (90), there are 4 images of 2 inches each (setting value = 20), and the intermediate scrap is 0.22 inches (setting value = 22).

$$(20+20+20+20+0+0)+((22/10)\times(4-1)) = 86.6 \leq 90$$

When intermediate scrap cut size is set to 0, refer to the table in Full Cutter Set-up for the media size and cut size setting ranges for each image.

If values outside the setting range above are set for the cut sizes, "0" is returned.

Effective at the firmware version of the model in the following table.

Model	DP-DS620	DS40	DP-DS820	DP-QW410
Firmware Ver.	1.20 or later	1.60 or later	○	○

For the paper size and cut size setting range, see the table " Media size and cut size setting range " in the full cutter setup.

(*1) DP-QW 410 can only be set to 0 (no intermediate scrap cut) or 22.

[Attention]

If you specify both this command and the cutter control command, this command will be given priority. If the total cut size set using this command is larger than the image size sent to the printer, this command is disabled and printing is done with the media size (normal size) sent to the printer.

[Sample Coding]

< Visual C >

```

if((SetFullCutterSetUpEX( PortNo, 4, 12, 20, 20, 20, 20 )) == 0 ){
    //Error
}

```

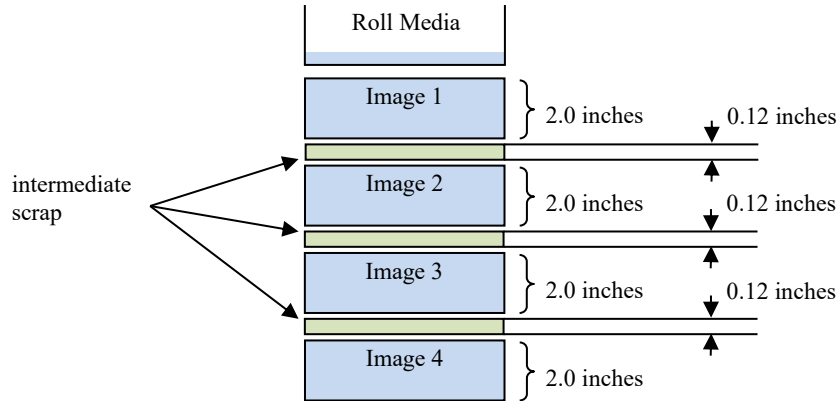
< Visual Basic >

Dim Result As Long

Result = SetFullCutterSetUpEX (PortNo, 4, 12, 20, 20, 20, 20)

If Result = 0 Then GoTo Error

* Using the sample coding above will print the following result.



Set Standby Mode Transition Time (DP-DS620, DP-DS820)

[Format]	long SetStandbyTime(long lPortNum, long lTime);		
[Argument]	lPortNum:	Port number	
	lTime:	Standby mode transition time	Setting value: 0, 1 - 99
[Return]	Successful:	1	
	Failure:	0	
[Explanation]	Set the time to transition to standby mode in 1 minute increments. (Up to 99 minutes maximum)		
	When the idle state continues for a set time, it transitions to the standby mode. Settings are stored in the printer. (It is valid even when you turn off the printer.)		
[Attention]	It becomes the specification the printer does not transition to the standby mode, if you set 00.		
	If you set the out-of-range transition time, it is returned "0".		
[Sample Coding]	When setting the Standby Mode transition time to less than the 10-minute default, if the time between the switch to Standby and reversion to Normal Mode is repeatedly short cycles of less than 10 minutes, the lifespan of the power unit in the printer could be decreased, so please try to avoid this situation. (The lifespan of the power relay is expected to be 11 years, with transitions between the power-saving Standby Mode and Normal Mode every 10 minutes, for 12 hours a day, 20 days a month. If the cycle time between the two modes is shorter than 10 minutes, the lifespan will be shorter than that.)		
	<div>< Visual C ></div> <pre>if((SetStandbyTime(PortNo, 0)) == 0){ //Error }</pre> <div>< Visual Basic ></div> <pre>Dim Result As Long Result = SetStandbyTime(PortNo, 99) If Result = 0 Then GoTo Error</pre>		

Get Standby Mode Transition Time (DP-DS620, DP-DS820)

[Format]	long GetStandbyTime(long lPortNum);		
[Argument]	lPortNum:	Port number	
[Return]	Successful:	Standby mode transition time	
	Failure:	-1	
[Explanation]	This returns the Standby mode transition time. The default value for this setting is "10 minutes".		
[Sample Coding]	<div>< Visual C ></div> <pre>long time; if((time = GetStandbyTime(PortNo)) >= 0){ // Next process }</pre> <div>< VB.NET ></div> <pre>Dim time As Integer time = GetStandbyTime(PortNo)</pre>		

Set Media End Keep Mode (DP-DS620, DP-DS820, DP-QW410)

[Format]	long SetEndKeepMode(long lPortNum, long lMode);		
[Argument]	lPortNum:	Port number	
	lMode:	Keep Mode Setting	Setting value:0, 1
[Return]	Successful:	1	
	Failure:	0	
[Explanation]	After the Media End has occurred, when you open and close the door or you restart the printer, it is set to determine whether or not to hold the Media End.		
	Media End (ribbon end, paper end) and Media Errors (Ribbon error, paper jam) are eligible. Settings are stored in the printer. (It is valid even when you turn off the printer.)		
[Sample Coding]	When you set '0' to the keep mode setting, it becomes the mode not to keep media end.		
	When you set '1' to the keep mode setting, it becomes the mode to keep media end. (factory preset value)		
	When you set the out-of-range keep mode, it is returned "0".		
[Sample Coding]	< Visual C >		
	<pre>if((SetEndKeepMode (PortNo, 0)) == 0){ //Error }</pre>		
[Sample Coding]	< Visual Basic >		
	Dim Result As Long		
	Result = SetEndKeepMode (PortNo, 1)		
	If Result = 0 Then GoTo Error		

Get Media End Keep Mode (DP-DS620, DP-DS820, DP-QW410)

[Format]	long GetEndKeepMode (long lPortNum);		
[Argument]	lPortNum:	Port number	
[Return]	Successful:	Keep Mode Setting	
	Failure:	-1	
[Explanation]	This returns the Media End Keep Mode setting value. The factory preset value for this setting is "the mode to keep media end (1)".		
[Sample Coding]	< Visual C >		
	<pre>long mode; if((mode = GetEndKeepMode (PortNo)) > 0){ // Next process }</pre>		
[Sample Coding]	< VB.NET >		
	Dim mode As Integer		
	mode = GetEndKeepMode (PortNo)		

Set USB iSerialNumber Availability Setting (DS40, DS-RX1, DP-DS620, DP-DS820, DP-QW410)

[Format]	long SetUSBSerialEnable(long lPortNum, long lEnable);	
[Argument]	lPortNum:	Port number
	lEnable:	Availability Setting
[Return]	Successful:	1
	Failure:	0
[Explanation]	Sets the USB iSerialNumber availability setting.	
	Settings are stored in the printer. (It is valid even when you turn off the printer.)	
	This configuration change will be effective when the power of the printer is turned on again.	
	When you set '0' to the USB iSerialNumber availability setting, it becomes disabled. (default)	
	When you set '1' to the USB iSerialNumber availability setting, it becomes enabled.	
[Sample Coding]	Also, when you enable this setting, serial number is the product serial number of the product-specific information.	
	< Visual C >	
	if(SetUSBSerialEnable(PortNo, 1) == 1){ // Enable the USB serial number	
	// Successful	
	}	
	< VB.NET >	
	If SetUSBSerialEnable(PortNo, 0) = 1 Then ' Disable the USB serial number	
	' Successful	
	End If	

Get USB iSerialNumber Availability Setting (DS40, DS-RX1, DP-DS620, DP-DS820, DP-QW410)

[Format]	long GetUSBSerialEnable(long lPortNum);	
[Argument]	lPortNum:	Port number
[Return]	1 :	The USB iSerialNumber is enabled.
	0 :	The USB iSerialNumber is disabled.
	-1 :	Fail
[Explanation]	printer will return the USB iSerialNumber availability setting.	
	The default value for this setting is "The USB iSerialNumber is disabled (0)".	
[Sample Coding]	< Visual C >	
	if(GetUSBSerialEnable(PortNo) == 1){	
	// use	
	}	
	< VB.NET >	
	If GetUSBSerialEnable (PortNo) = 0 Then	
	' not use	
	End If	

Set Rewind Mode setting (DP-DS620, DP-DS820)

[Format] long SetRewindMode(long lPortNum, int iMode);

[Argument] lPortNum: Port number
 iMode: Rewind Mode Setting

[Return] Successful: 1
 Failure: -1

[Explanation] Set the Rewind Mode.
 When you set '0' to the rewind mode setting, it releases the rewind mode. (default)
 When you set '1' to the rewind mode setting, it becomes the rewind mode.

When the Rewind mode is set, if you specify the paper size for multiple screen allocation and send only the image data for one screen and execute printing, the paper size is replaced with the paper size for rewind printing, and the print Will be done.

Specified paper size	Replaced paper size
CSP_Lx2	CSP_L_REWIND
CSP_PCx2	CSP_PC_REWIND
CSP_6x4P5x2	CSP_6x4P5_REWIN
CSP_8x4x2	D CSP_8x4_REWIND
CSP_8x5x2	CSP_8x5_REWIND
CSP_8x6x2	CSP_8x6_REWIND
CSP_8x4x3	CSP_8x4_REWIND
CSP_A5x2	CSP_A5_REWIND
CSP_A4x5x2	CSP_A4x5_REWIND

*However, the following the paper size for multiple screen allocation are not applicable to Rewind mode.
 CSP_8x5_8x4, CSP_8x6_8x4, CSP_8x6_8x5, CSP_8x8_8x4

[Sample Coding] < Visual C >
 if(SetRewindMode(PortNo, 1) == 1){ // Set to the Rewind Mode
 // Successful
 }

 < VB.NET >
 If SetRewindMode(PortNo,0) = 1 Then ' Release the Rewind Mode
 ' Successful
 End If

Get Rewind Mode setting (DP-DS620, DP-DS820)

[Format]	long GetRewindMode (long lPortNum);
[Argument]	lPortNum: Port number
[Return]	1 : The Rewind Mode is active. 0 : The Rewind Mode is inactive. -1 : Fail
[Explanation]	This returns the Rewind Mode Status. The default value for this setting is "The Rewind Mode is inactive (0)".
[Sample Coding]	<div>< Visual C ></div> <pre>if(GetRewindMode (PortNo) == 1){ // use }</pre> <div>< VB.NET ></div> <pre>If GetRewindMode (PortNo) = 0 Then ' not use End If</pre>

Panorama Print Start Check (DP-DS620, DP-DS820)

[Format]	DWORD GetPanoramaPrintable(long lPortNum);	
[Argument]	lPortNum:	Port number
[Return]	Successful:	Printer status indicating whether or not panorama printing is possible
	Failure:	STATUS_COMM_ERROR
[Explanation]	This command returns the printer status indicating whether or not panorama printing is possible.	

Effective at the firmware version of the model in the following table.

Model	DP-DS620	DP-DS820
Firmware Ver.	01.20 or later	○

The values for each status are defined in CspStat.h by a macro.
The status wordings have the following meanings.

Return value	value[HEX]	Status
STATUS_PRINTABLE	0x00000000	Panoramic prints can be started.
STATUS_HIGHTEMP_HEAD	0x00000001	High head temperature.
STATUS_HIGHHUMIDITY *1	0x00000100	High humidity.
STATUS_LOWTEMP_MEDIA *2	0x00000020	Low media temperature.
STATUS_OTHER_STATE	0x00010000	Other status (printing, cooling, error, etc.) Details can be obtained with the Get Printer Status command.
STATUS_COMM_ERROR	0xFFFFFFFF	Communication error

*1: Supported by DP-DS620 firmware version 01.40 or later and DP-DS820 01.01 or later.

*2: Supported by DP-DS620 firmware version 01.40 or later and DP-DS820 01.03 or later.

[Attention]	<ul style="list-style-type: none"> • When the head temperature is high, send the panoramic prints data without waiting for the status to change to show printing is possible. (The same as for normal printing, it will start cooling, and printing will start when the head temperature has dropped.) • When the humidity is high, the print quality of the panoramic prints may deteriorate, so we don't recommend printing in high-humidity situations. • When the media temperature is low, don't perform the continuous panoramic prints. (It may occur the problem such as a paper jam according to the image.)
-------------	--

(For details regarding panorama printing with a white border, please refer to “13. Appendix (5) Panorama Printing with White Border”.)

(Please refer to the continuous panorama SDK for continuous panorama printing)

[Sample Coding]

```

< Visual C >
DWORD stat;
stat = GetPanoramaPrintable( PortNo );
if(stat == STATUS_LOWTEMP_MEDIA){
    // please do not run the continuous panoramic prints
}else if(stat == STATUS_HIGHHUMIDITY){
    // run of the continuous panoramic prints is not recommended
}else if((stat == STATUS_PRINTABLE) || (stat == STATUS_HIGHTEMP_HEAD)){
    // please start the panoramic prints
}else{
    // checking printer status, and others
}

< VB.NET >
Dim stat As UInt32
stat = GetPanoramaPrintable( PortNo )
If stat = STATUS_LOWTEMP_MEDIA Then
    ' please do not run the continuous panoramic prints
Else If stat = STATUS_HIGHHUMIDITY Then
    ' run of the continuous panoramic prints is not recommended
Else If (stat = STATUS_PRINTABLE) Or (stat = STATUS_HIGHTEMP_HEAD) Then
    ' please start the panoramic prints
Else
    ' checking printer status, and others
End If

```

Get Media Offset Count (DS40, DS-RX1)

[Format]	long GetMediaCountOffset(long lPortNum);	
[Argument]	lPortNum:	Port number
[Return]	Successful:	Media Offset Count
	Failure:	-1
[Explanation]	This returns the media offset count (a value already added to the actual sheet count).	
[Sample Coding]	<pre> < Visual C > long qtr_offset; qtr_offset = GetMediaCountOffset(PortNo); < Visual Basic > Dim qtr_offset As Integer qtr_offset = GetMediaCountOffset(PortNo) </pre>	

Continuous Panoramic Prints Settings (DP-DS620, DP-DS820)

[Format] BOOL SetContPanorama(long lPortNum, DWORD dwContinuous, DWORD dwOverlap);

[Argument] lPortNum: Port number
 dwContinuous: Continuous Panoramic Prints specification.
 dwOverlap: Overlap width.

[Return] Successful: TRUE
 Failure: FALSE

[Explanation] This function sets the operation of continuous panoramic prints.

Effective at the firmware version of the model in the following table.

Model	DP-DS620	DP-DS820
Firmware Ver.	01.31 or later	○

The continuous panoramic prints specification has a macro definition of CspStat.h.
 The symbols have the following meanings.

CONT_PANORAMA_PRINT : Continuous Panoramic Prints has specified.
 CONT_PANORAMA_LAST : Last image of Continuous Panoramic Prints, or normal printing. (Continuous Panoramic Prints cancelation)

[Attention] Continuous Panoramic Prints specification is only valid for the first image and second image.
 If you set this parameter for the third image, the specified parameter will be ignored, and the paper will be cut.

The overlap width for the first image printed with Continuous Panoramic Prints is also applied to the second image and later on, but is disabled if a different value is set for the second or later images. Also, if you set this value to less than the recommended value, the print quality of the overlapped area will deteriorate.

[Sample Coding] < Visual C >
 if(SetContPanorama(PortNo, CONT_PANORAMA_PRINT, 200) { // Continuous Panoramic Prints settings
 // Successful
 }
 }
 < VB.NET >
 If SetContPanorama(PortNo, CONT_PANORAMA_PRINT, 200) Then 'Continuous Panoramic Prints settings
 ' Successful
 End If

Set Print Speed (DP-DS820, DP-QW410)

[Format] BOOL SetPrintSpeed(long lPortNum, long lPrintSpeed);

[Argument] lPortNum: Port Number
 lPrintSpeed: Print Speed

0: Normal printing (Default)

1: Printing of 6 00dpi resolution *1

2: low speed printing (DP-DS820) or High quality printing (DP-QW410)

3: High density printing *1

*1: DP-DS820 only

[Return] Successful: TRUE
 Failure: FALSE

[Explanation] Printing is carried out at the designated print speed.
 Specify this when you want to reduce the printing speed and aim for higher image quality.

[Attention] The printer will revert to the conventional operation after each image is printed.
 This command must be designated for each image.

[Sample Coding] < Visual C >
 if(SetPrintSpeed (PortNo, 3)){ // High density printing
 // Successful
 }
 < VB.NET >
 If SetPrintSpeed (PortNo, 0) Then // Normal printing
 ' Successful
 End If

Set Gamma Table (DP-DS820)

[Format] BOOL SetGammaTable(long lPortNum, LPBYTE lpGammaTable, long lDataLen);

[Argument] lPortNum : Port number
 lpGammaTable : Pointer to the buffer where the gamma table data
 lDataLen : Gamma table data size.(Unit:Byte)

[Return] Successful: TRUE
 Failure: FALSE

[Explanation] Sets the gamma table data.
 For information on the format of the gamma table data, please refer to the table below.

Type	Item	Explanation
Header (8byte)	Data unit size	0002h fixed
	Row	0100h fixed
	Plane	0004h fixed
	Checksum	xxxxh (sum value of expansion and gamma table data)
Expansion Data (8byte)	Mode	0000h fixed
	Rsv1	0000h fixed
	Rev2	0000h fixed
	Rev	0000h fixed
Gamma Table Data (2048byte)	Y[0]...Y[255] M[0]...M[255] C[0]...C[255] OP[0]...OP[255]	0000h~FFFFh

[Attention] Because the gamma table data is lost when the printer is turned OFF or reverts to stand-by mode, it should be sent just before printing.

[Sample Coding] **< Visual C >**
 BYTE tableData[2064];
 ...
 if(SetGammaTable(PortNo, tableData, 2064)){
 // successful
 }

 < VB.NET >
 Dim tableData(2064) As Byte
 ...
 If SetGammaTable(PortNo, tableData, 2064) Then
 ' successful
 End If

Get Gamma Table Checksum (DP-DS820)

[Format]	long GetGammaTableChecksum(long lPortNum, LPSTR p);	
[Argument]	lPortNum :	Port number
	lpRcvBuf :	Pointer to the receiving buffer
[Return]	Successful:	The number of characters received by buffer p
	Failure:	-1
[Explanation]	Printer will return checksum of the gamma table data in the buffer. However, if the gamma table data is not set at the printer, it will receive a 4-character space character string " " (CR<0Dh> terminus, 4-byte padding).	
[Sample Coding]	< Visual C > char sum[256]; if(GetGammaTableChecksum(PortNo, sum) > 0){ // successful }	
	< VB.NET > Dim sum As String = New String(" ", 256) If GetGammaTableChecksum (PortNo, sum) > 0 Then ' successful End If	

Clear Data Table (DP-DS820)

[Format]	BOOL SetDataTableClear(long lPortNum);	
[Argument]	lPortNum :	Port number
[Return]	Successful:	TRUE
	Failure:	FALSE
[Explanation]	Clear the data of gamma table stored in the printer.	
[Sample Coding]	< Visual C > if(SetDataTableClear(PortNo)){ // successful }	
	< VB.NET > If SetDataTableClear(PortNo) Then ' successful End If	

Set Decurl Control

[Format]	BOOL SetDecurlCtrl (long lPortNum, WORD wMode);	
[Argument]	lPortNum :	Port number
	wMode :	Decurl operation mode
		0 : Do not perform the decurl operation
		1 : Perform the decurl operation
		2 : Automatic control (default)
[Return]	Successful:	TRUE
	Failure:	FALSE
[Explanation]	<p>Sets the paper decurl operation.</p> <p>Decurl control settings are set before sending image data.</p> <p>Decurl control settings are effective once for one image.</p> <p>The printer will return to the default settings for each image.</p>	
[Sample Coding]	< Visual C > <pre>if(SetDecurlCtrl(PortNo, 1)){ // successful }</pre>	
	< VB.NET > <pre>If SetDecurlCtrl(PortNo, 1) Then ' successful End If</pre>	

Current time notification

[Format]	BOOL SetSysTime(long lPortNum, LPSTR lpSystemTime);	
[Argument]	lPortNum :	Port number
	lpSystemTim :	Current time (Format : yyyyymmddHHMMSS) range : 20000101000000 (Jan. 1, 2000 00:00:00) - 99991231235959 (Dec 31, 9999 23:59:59)
[Return]	Successful:	TRUE
	Failure:	FALSE
[Explanation]	<p>Notify the printer of the current time.</p> <p>When the printer is turned on, this setting has been an initial value(Jan. 1, 2000 00:00:00).</p> <p>If you set a value outside the range, it will be set with the minimum or maximum value of each set value.</p> <p>This current time is used when the decurl control setting is “automatic control”.</p> <p>Set it before executing SendImageData ().</p>	
	<p>Example of lpSystemTime input:</p> <p>When the current time is 8:30:12 on April 26, 2019 => 20190426083012</p>	
[Sample Coding]	< Visual C > <pre>if(SetSysTime(PortNo, "20190426083012")){ // successful }</pre>	
	< VB.NET > <pre>If SetSysTime(PortNo, "20190426083012") Then ' successful End If</pre>	

Get Supported Media Information(DP-DS620)

[Format]	long GetSupportedMediaInfo (long lPortNum, LPSTR p);	
[Argument]	lPortNum:	Port number
	p:	Pointer to the receiving buffer
[Return]	Successful:	The number of characters received in buffer p
	Failure:	-1
[Attention]	Get information on media supported by the printer.	

■DP-DS620

The setting value is set in following 8-digit decimal ASCII numbers as the supported media information.

Setting value	Supported media		
	Luxury(LX) Media	Digital(SD) Media	Premium Digital(PD) Media
00000101	○	×	○
00000110	○	○	×
00000111	○	○	○

[Sample Coding]

```

< Visual C >
char rbuf[256];
if(GetSupportedMediaInfo(PortNo, (LPSTR)rbuf) > 0 ){
    // successful
}

< VB.NET >
Dim s As String = New String("", 255)
Dim i As Integer
i = GetSupportedMediaInfo(PortNo, s)
If i > 0 Then
    Text1.Text = VB.Left(s, i)
Else
    Text1.Text = "ERROR!"
End If

```

Common Set Command

[Format]	BOOL SetCommand(long lPortNum, LPSTR lpCmd, DWORD dwCmdLen); BOOL CvSetCommand(long lPortNum, LPSTR lpCmd, DWORD dwCmdLen);	
[Argument]	lPortNum:	Port number
	lpCmd:	Pointer to the buffer where the command is stored
	dwCmdLen:	The number of characters of the command
[Return]	Successful:	TRUE
	Failure:	FALSE
[Explanation]	Sends the command to the printer	

Common Get Command

[Format]	long GetCommandEX(long lPortNum, LPSTR lpCmd, DWORD dwCmdLen, LPSTR lpRetBuff, DWORD dwRetBuffSize); long CvGetCommandEX(long lPortNum, LPSTR lpCmd, DWORD dwCmdLen, LPSTR lpRetBuff, DWORD dwRetBuffSize);	
[Argument]	lPortNum:	Port number
	lpCmd:	Pointer to the buffer where the command is stored
	dwCmdLen:	The number of characters of the command
	lpRetBuff:	Pointer to the buffer to store receipt data
	dwRetBuffSize:	Available size of receiving buffer
[Return]	Successful:	The number of bytes received (Receipt data by lpRetBuff)
	Failure:	-1
[Explanation]	After the command is sent to the printer, receipt data is stored in the buffer.	

Get Minilab Tower Status

[Format] long GetMiniLabTowerStatus(long lPortNum);

[Argument] lPortNum: Port number

[Return] Successful: Tower Error Status
Failure: STATUS_ERROR

[Explanation] This returns the minilab tower status.
Bit position of the status is defined in CspStat.h by macro.
Meanings of the symbols are as follows:

TGROUP_CXM0	[Shooter/Sorter]	Group identification bit
TGROUP_CXM1	[Shooter/Sorter]	Group identification bit
TGROUP_CXM2	[Shooter/Sorter]	Group identification bit
TGROUP_CXM3	[Shooter/Sorter]	Group identification bit
TGROUP_CXM4	[Shooter/Sorter]	Group identification bit

/* tower normal */

STATUS_CXM_TOWER_NORMAL	Tower Normal Operation
-------------------------	------------------------

/* Sorter sensor */

STATUS_CXM_SRT_SENSEN	Sorter Unit Paper Max Position Sensor On
STATUS_CXM_SRT_MAXERR	Sorter Unit Paper Max Position Error

/* Multi Sorter */

STATUS_CXM_SRT_SYSERR	Sorter Unit System Error
STATUS_CXM_SRT_MOTERR	Sorter Unit Motor Error
STATUS_CXM_SRT_TIMEOUT	Sorter Unit Working Timeout

/* Shooter Cover & Door Open Status */

STATUS_CXM_SHT_COPENA	Shooter Cover A Open Error
STATUS_CXM_SHT_COPENB	Shooter Cover B Open Error
STATUS_CXM_SHT_COPENC	Shooter Cover C Open Error
STATUS_CXM_SHT_COPEND	Shooter Cover D Open Error
STATUS_CXM_SHT_DOPENA	Shooter Door A Open Error
STATUS_CXM_SHT_DOPENB	Shooter Door B Open Error
STATUS_CXM_SHT_CORNER_OPEN	Shooter Corner Unit Open

/* Back Print Unit Door Open Status */

STATUS_CXM_BP_DOPENA	Back Print Unit Door A Open Error
STATUS_CXM_BP_DOPENB	Back Print Unit Door B Open Error
STATUS_CXM_BP_DOPENC	Back Print Unit Door C Open Error
STATUS_CXM_BP_DOPEND	Back Print Unit Door D Open Error
STATUS_CXM_BP_DOPENE	Back Print Unit Door E Open Error

/* Shooter Paper Jam Status */

STATUS_CXM_SHT_PJAM_A	Shooter Paper Jam Error A
STATUS_CXM_SHT_PJAM_B	Shooter Paper Jam Error B
STATUS_CXM_SHT_PJAM_CORNER	Shooter Paper Jam Error Corner

/* Back Print Unit Paper Jam Status */

STATUS_CXM_BP_PJAM_A	Back Print Unit Paper Jam Error A
STATUS_CXM_BP_PJAM_ABC	Back Print Unit Paper Jam Error A or B or C

/* Others */

STATUS_CXM_SHT_SYSERR	Shooter System Error
STATUS_CXM_RS422_NONC	Shooter RS422 Non connection Error
STATUS_CXM_BP_WDP	Back Print Unit Wire Dot Printer Error
STATUS_CXM_KIOSK_MODERR	KIOSK Mode Error (*note 1)
STATUS_CXM_BP_MODERR	Sorter Mode Error (*note 1)

Note) A switch on the tower itself allows you to switch between Kiosk mode and Sorter mode.
The Kiosk and Sorter mode errors are determined by the BP unit connection status, which depends on the operating mode selected.

Tower switch (operating mode)	Connection with the BP unit	Error
Kiosk mode	Yes	Kiosk mode error
Sorter mode	No	Sorter mode error

Minilab Print Data Group No., Serial No. Initial Setting

[Format] BOOL SetMiniLabGroupNoIni(long lPortNum, long lGrNo, long lSrNo, long lOption);

[Argument]	lPortNum:	Port Number	
	lGrNo:	Group No. Initial value	1-10000 Normal operation 0x55AA Bulk transmission mode
	lSrNo:	Serial No. Initial value	1-10000 Normal operation 0x55AA Bulk transmission mode
	Option:	Operation options	0: No designation 1: Sorter on

[Return]	Successful:	TRUE
	Failure:	FALSE

[Explanation] This sets the initial value (pointer) for the tower controller group no. and serial no.
The sorter operates under the following conditions:

- When the operation option is set to 1 (Sorter on), and an image from a new group is delivered.
- When the quantity in one basket exceeds a specified amount.

In the Bulk Transmission Mode, the tower delivers prints as soon as they are ready and printed, regardless of the Group No./Serial No. order. In this case, the sorter operation does not switch depending on the Group No. / Serial No.

Note) This command is processed as a sequential execute command after printing is complete.
Be sure to send this command to the printer that printed the last image of the group.

Ex.)Transmission method for 3-printer set-up

- ① Gr.1 Sr1 image transmission -> printer 1
- ② Gr.1 Sr2 image transmission -> printer 2
- ③ [Initial value setting]SetMiniLabGroupNoIni(Gr.2 Sr.1) -> printer 2
- ④ Gr.2 Sr1 image transmission -> printer 3

After the printing at ② is complete, the controller sets the GrNo./SrNo. initial value (pointer change) at ③. Then, it receives the new GrNo. at ④.

[Sample Coding]

< Visual C >

```

long lGrNo = 1;           // Group number initialization
long lSrNo = 1;           // Serial number initialization
char text[82];
char text2[41];
char len;

// ①Group No 1 Serial No 1
SetMiniLabGroupNo(PortNo1, lGrNo);           // Sends the group number
SetMiniLabSerealNo(PortNo1, lSrNo, SERIAL_NUM_SET); // Sends the serial number
strcpy( text, "Group No.1 -\r" );           // 1st line of data
strcpy( text2, "Serial No.1\r" );           // 2nd line of data
strcat( text, text2 );                     // Combines 1st and 2nd lines of data
len = strlen(text);                       // String length
SetMiniLabBackPrintData( PortNo1, (LPSTR)text, len); // Sends back print data

//At this point, it sends the print data

// ②Group No 1 Serial No 2(Finishes Group No 1)
lSrNo += 1;                               // Updates serial number
SetMiniLabGroupNo(PortNo2, lSrNo);         // Sends the group number
SetMiniLabSerealNo(PortNo2, lSrNo, SERIAL_NUM_SET); // Sends the serial number
strcpy( text, "Group No.1 -\r" );           // 1st line of data
strcpy( text2, "Serial No.2\r" );           // 2nd line of data
strcat( text, text2 );                     // Combines 1st and 2nd lines of data
len = strlen(text);                       // String length
SetMiniLabBackPrintData( PortNo2, (LPSTR)text, len); // Sends back print data

// At this point, it sends the print data
lGrNo += 1;                               // Updates group number
lSrNo = 1;                               // Initializes serial number

// ③Group No 2 Serial No 1 Initialization
SetMinilabGroupNoIni(PortNo2, lGrNo, lSrNo, 1); // Sorter Control

// ④Group No 2 Serial No 1
SetMiniLabGroupNo(PortNo3, lGrNo);         // Sends group number
SetMiniLabSerealNo(PortNo3, lSrNo, SERIAL_NUM_SET); // Sends serial number
strcpy( text, "Group No.2 -\r" );           // 1st line of data
strcpy( text2, "Serial No.1\r" );           // 2nd line of data
strcat( text, text2 );                     // Combines 1st and 2nd lines of data
len = strlen(text);                       // String length
SetMiniLabBackPrintData( PortNo3, (LPSTR)text, len); // Sends back print data

// At this point, it sends the print data

```

< Visual Basic >

```

Dim lGrNo As Long
Dim lSrNo As Long
Dim bpText As String * 255
lGrNo = 1 'Initializes group number
lSrNo = 1 'Initializes serial number

'①Group No 1 Serial No 1
SetMiniLabGroupNo(PortNo, lGrNo) 'Sends group number
SetMiniLabSerealNo(PortNo, lSrNo, SERIAL_NUM_SET) 'Sends serial number
bpText = "Group No.1 -" & Chr(&HD) & "Sereal No.1" & Chr(&HD)
SetMiniLabBackPrintData( PortNo, bpText, 24) 'Sends back print data

' At this point, it sends the print data

'②Group No 1 Serial No 2
lSrNo = lSrNo + 1 'Updates serial number
SetMiniLabGroupNo(PortNo, lSrNo) 'Sends group number
SetMiniLabSerealNo(PortNo, lSrNo, SERIAL_NUM_SET) 'Sends serial number
bpText = "Group No.1 -" & Chr$(&HD) & "Sereal No.2" & Chr$(&HD)
SetMiniLabBackPrintData( PortNo, bpText, 24) 'Sends back print data

' At this point, it sends the print data

lGrNo = lGrNo + 1 'Updates group number
lSrNo = 1 'Initializes serial number
'③Group No 2 Serial No 1 Initialization
SetMinilabGroupNoIni(PortNo2, lGrNo, lSrNo, 1) 'Sorter Control

'④Group No 2 Serial No 1
SetMiniLabGroupNo(PortNo, lGrNo)
SetMiniLabSerealNo(PortNo, lSrNo, SERIAL_NUM_SET) 'Sends serial number
bpText = "Group No.2 -" & Chr$(&HD) & "Sereal No.1" & Chr$(&HD)
SetMiniLabBackPrintData( PortNo, bpText, 24)

' At this point, it sends the print data

```

Setting the MiniLab Print Data Group Number

[Format]	BOOL SetMiniLabGroupNo(long lPortNum, long lGrNo);	
[Argument]	lPortNum:	Port number
	lGrNo:	Print data group No.(1 - 10000) No.0 is a special number.
[Return]	Successful:	TRUE
	Failure:	FALSE
[Explanation]	This sets the group number for the print data. CXM sorts the print material by group number. No.0 is the number put out when the shooter is empty, regardless of the serial order.	
[Sample Coding]	Refer to the following section.	

Setting the MiniLab Print Data Serial Number

[Format]	BOOL SetMiniLabSerialNo(long lPortNum, long lSrNo, long lFinal);	
[Argument]	lPortNum:	Port number
	lSrNo:	Print data serial No(1 - 10000) No.0 is a special number.
	lFinal:	Announces the end of the print data serial numbers
[Return]	Successful:	TRUE
	Failure:	FALSE
[Explanation]	This sets the serial number for the print data. 1 serial number is designated for each image. In the last data of the group, designate SERIAL_NUM_FINAL in lFinal. Operation designation is macro-defined as CspStat.h.	
	SERIAL_NUM_SET	Designates a normal serial number
	SERIAL_NUM_FINAL	The final serial number
	When No.0 is set, the serial numbers in the tower are not increased.	
	Example) Regarding serial numbers in the tower	
	■ Normal order management	
	Serial numbers in the tower	
	Setting No.1	-> 2
	Setting No.2	-> 3
	Setting No.3	-> 4
	■ When No.0 is used	
	Serial numbers in the tower	
	Setting No.1	-> 2
	Setting No.2	-> 3
	Setting No.0	-> remains 3, without being raised
[Sample Coding]	Refer to the following section.	

Setting MiniLab Back Print Data

[Format]	BOOL SetMiniLabBackPrintData(long lPortNum, LPSTR lpText, long lTextLen);	
[Argument]	lPortNum:	Port number
	lpText:	Back print data text string Add CR(0xD) at the end of the data
	lTextlen:	Number of characters (1 - 82)
		Set the number of characters to include CR.
[Return]	Successful:	TRUE
	Failure:	FALSE
[Explanation]	<p>This sets the text data to be printed on the back side.</p> <p>In setting 2 lines of data, show as [1st line text] + CR + [2nd line text] + CR.</p> <p>Each line can have a maximum of 40 characters.</p>	
[Sample Coding]	< Visual C >	
	<pre> long lGrNo = 1; // Group number initialization long lSrNo = 1; // Serial number initialization char text[82]; char text2[41]; char len; // Group No 1 Serial No 1 SetMiniLabGroupNo(PortNo, lGrNo); // Sends the group number SetMiniLabSerealNo(PortNo, lSrNo, SERIAL_NUM_SET); // Sends the serial number strcpy(text, "Group No.1 -\r"); // 1st line of data strcpy(text2, "Serial No.1\r"); // 2nd line of data strcat(text, text2); // Combines 1st and 2nd lines of data len = strlen(text); // String length SetMiniLabBackPrintData(PortNo, (LPSTR)text, len); // Sends back print data //At this point, it sends the print data // Group No 1 Serial No 2(Finishes Group No 1) lSrNo += 1; // Updates serial number SetMiniLabGroupNo(PortNo, lSrNo); // Sends the group number SetMiniLabSerealNo(PortNo, lSrNo, SERIAL_NUM_FINAL); // Sends the final serial number strcpy(text, "Group No.1 -\r"); // 1st line of data strcpy(text2, "Serial No.2\r"); // 2nd line of data strcat(text, text2); // Combines 1st and 2nd lines of data len = strlen(text); // String length SetMiniLabBackPrintData(PortNo, (LPSTR)text, len); // Sends back print data // At this point, it sends the print data // Group No 2 Serial No 1 lGrNo += 1; // Updates group number lSrNo = 1; // Initializes serial number SetMiniLabGroupNo(PortNo, lGrNo); // Sends group number SetMiniLabSerealNo(PortNo, lSrNo, SERIAL_NUM_FINAL); // Sends final serial number strcpy(text, "Group No.2 -\r"); // 1st line of data strcpy(text2, "Serial No.1\r"); // 2nd line of data strcat(text, text2); // Combines 1st and 2nd lines of data len = strlen(text); // String length SetMiniLabBackPrintData(PortNo, (LPSTR)text, len); // Sends back print data // At this point, it sends the print data </pre>	

< Visual Basic >

```

Dim lGrNo As Long
Dim lSrNo As Long
Dim bpText As String * 255
lGrNo = 1 'Initializes group number
lSrNo = 1 'Initializes serial number

'Group No 1 Serial No 1
SetMiniLabGroupNo(PortNo, lGrNo) 'Sends group number
SetMiniLabSerealNo(PortNo, lSrNo, SERIAL_NUM_SET) 'Sends serial number
bpText = "Group No.1 -" & Chr(&HD) & "Sereal No.1" & Chr(&HD)
SetMiniLabBackPrintData( PortNo, bpText, 24) 'Sends back print data

' At this point, it sends the print data

'Group No 1 Serial No 2 (Finishes Group No 1))
lSrNo = lSrNo + 1 'Updates serial number
SetMiniLabGroupNo(PortNo, lSrNo) 'Sends group number
SetMiniLabSerealNo(PortNo, lSrNo, SERIAL_NUM_FINAL) 'Sends final serial number
bpText = "Group No.1 -" & Chr$(&HD) & "Sereal No.2" & Chr$(&HD)
SetMiniLabBackPrintData( PortNo, bpText, 24) 'Sends back print data

' At this point, it sends the print data

'Group No 2 Serial No 1
lGrNo = lGrNo + 1 'Updates group number
lSrNo = 1 'Initializes serial number
SetMiniLabGroupNo(PortNo, lGrNo)
SetMiniLabSerealNo(PortNo, lSrNo, SERIAL_NUM_FINAL) 'Sends final serial number
bpText = "Group No.2 -" & Chr$(&HD) & "Sereal No.1" & Chr$(&HD)
SetMiniLabBackPrintData( PortNo, bpText, 24)

' At this point, it sends the print data

```

Stop Printing Command

[Format]	BOOL StopPrint(long lPortNum);	
[Argument]	lPortNum:	port number
[Return]	Successful:	TRUE
	Failure:	FALSE
[Explanation]	When a printer receives this command, if printing, it will complete printing, and if permitted, will deliver it to the shooter. If delivery is denied, the image will be cut into small pieces and destroyed. If there is still data in the print buffer, the buffer is cleared.	
[Sample Coding]	< Visual C >	
	StopPrint(PortNo);	
	< Visual Basic >	
	StopPrint(PortNo)	

Designation of Paper Feed Destination

[Format]	BOOL SetMiniLabOutputDest(long lPortNum, long lDest);	
[Argument]	lPortNum:	Port number
	lDest:	Paper feed destination
[Return]	Successful:	TRUE
	Failure:	FALSE
[Explanation]	This designates the paper feed destination when using the Mini-lab. The paper feed destination is macro defined with CspStat.h. The symbols have the following meanings.	
	OUTPUT_DEST_AUTO (0) Automatic setting by paper size (default) OUTPUT_DEST_SORTER (1) Feed to sorter OUTPUT_DEST_TRAY (2) Feed to front tray	
[Sample Coding]	< Visual C >	
	SetMiniLabOutputDest(PortNo, OUTPUT_DEST_SORTER);	
	< Visual Basic >	
	SetMiniLabOutputDest(PortNo, OUTPUT_DEST_SORTER)	

Set Sorter Paper MAX Position Detection Sensor ON/OFF

[Format]	BOOL SetMiniLabSrtSensor(long lPortNum, long lSens);	
[Argument]	lPortNum:	Port number
	lSens:	Paper detection function switch
[Return]	Successful:	TRUE
	Failure:	FALSE
[Explanation]	This sets the function for the Paper Maximum Position detection sensor. Paper position detection sensor designation is macro defined as CspStat.h. The symbols have the following meanings:	
	SORTER_MAX_OFF Ignores paper position detection during delivery SORTER_MAX_ON Detects paper position.(Default)	
[Sample Coding]	< Visual C >	
	SetMiniLabSrtSensor(PortNo, SORTER_MAX_ON);	
	< Visual Basic >	
	SetMiniLabSrtSensor(PortNo, SORTER_MAX_OFF)	

Get Sorter Paper MAX Position Detection Sensor ON/OFF

[Format]	long GetMiniLabSrtSensor(long lPortNum);	
[Argument]	lPortNum:	Port number
[Return]	Successful:	Current paper detection function status
	Failure:	-1
[Explanation]	This gets the status for the Paper Maximum Position detection sensor. Paper position detection sensor designation is macro defined as CspStat.h. The symbols have the following meanings:	
	SORTER_MAX_OFF Ignores paper position detection during delivery SORTER_MAX_ON Detects paper position.(Default)	
[Sample Coding]	< Visual C >	
	long lSens; lSens = GetMiniLabSrtSensor(PortNo, SORTER_MAX_ON);	
	< Visual Basic >	
	Dim lSens As Long lSens = GetMiniLabSrtSensor(PortNo, SORTER_MAX_OFF)	

Get Minilab Group No.

[Format]	long GetMiniLabGroupNo(long lPortNum);	
[Argument]	lPortNum:	Port number
[Return]	Successful:	Group No(1-10000)
	Failure:	-1
[Explanation]	This gets the current group number set at the tower controller. Note) When the tower is in operation, the group numbers are constantly changing. If attempting to get the same number as the application has, stop the tower before getting the group number.	
[Sample Coding]	<pre>< Visual C > long lGNo; if((lGNo = GetMiniLabGroupNo(PortNo)) >= 0){ // lGNo Group No. } < Visual Basic > Dim lGNo As Long lGNo = GetMiniLabGroupNo(PortNo)</pre>	

Get Minilab Serial No.

[Format]	long GetMiniLabSerialNo(long lPortNum);	
[Argument]	lPortNum:	Port number
[Return]	Successful:	Serial No(1-10000)
	Failure:	-1
[Explanation]	This gets the current serial number set at the tower controller. Note) When the tower is in operation, the serial numbers are constantly changing. If attempting to get the same number as the application has, stop the tower before getting the serial number.	
[Sample Coding]	<pre>< Visual C > long lSNo; if((lSNo = GetMiniLabSerialNo(PortNo)) >= 0){ // lSNo Serial No. } < Visual Basic > Dim lSNo As Long lSNo = GetMiniLabSerialNo(PortNo)</pre>	

Get Printer Address

[Format]	long GetMiniLabPrinterAdd(long lPortNum);	
[Argument]	lPortNum:	port number
[Return]	Successful:	None Connect (0) printer address (1 - 4)
	Failure:	-1
[Explanation]	Printer gets the position set in the Tower. No. 1 is the topmost.	
[Sample Coding]	< Visual C > long lAddr; if((lAddr = GetMiniLabPrinterAdd(PortNo)) >= 0){ // lAddr printer address }	
	< Visual Basic > Dim lAddr As Long lAddr = GetMiniLabPrinterAdd(PortNo)	

13. Appendix

(1) About DP-TC10 Single cut mode

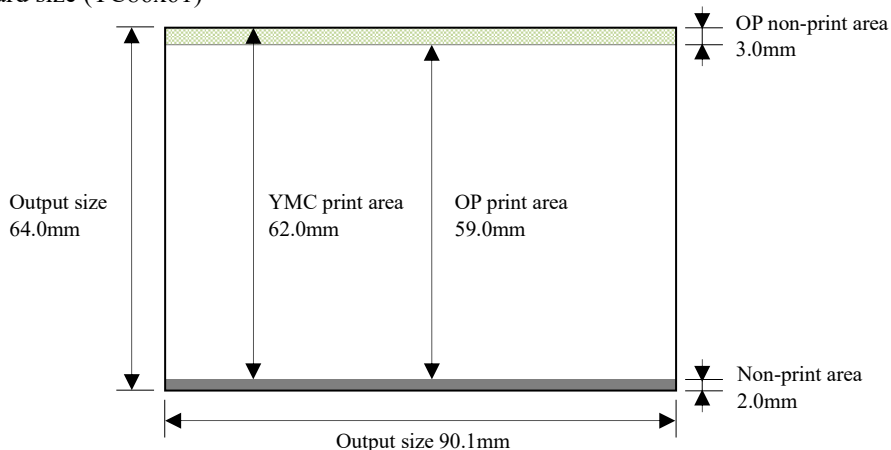
① Operation Overview

- In order to overlap the next printing, 3mm of the printing tip, not printing OP.
- Cut at the position of 2mm from the print tip.
- The printing end portion, so as to overlap 1mm to 2mm of last remaining print, to print up to 1mm from the terminal end paper.
- The printer receives the image data of the vertical 64mm, lower 2mm (300dpi: 24dot, 600dpi: 48dot) data is not printing.

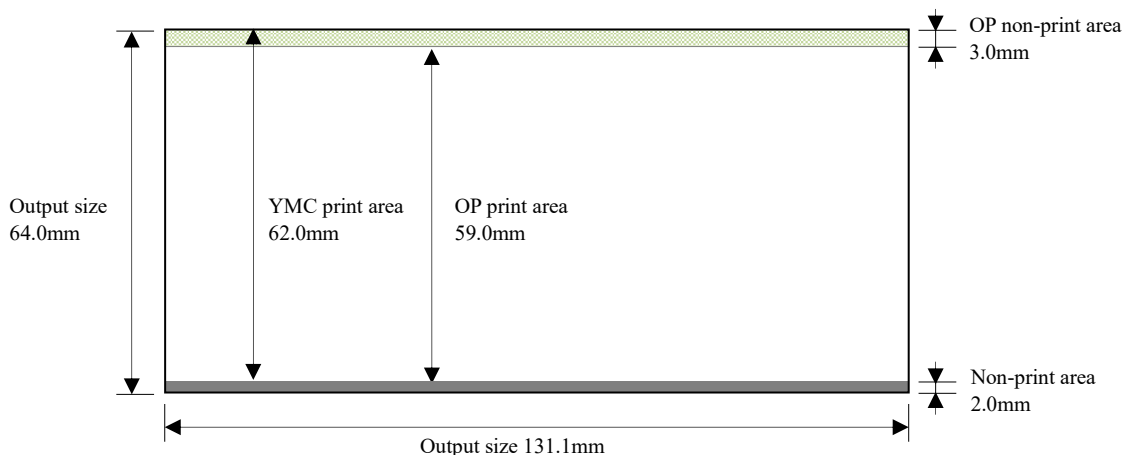
② Print area size

Paper Type	Image data size (W x H)	Image pixel size		Print size
		Resolution setting: 300x600dpi	Resolution setting: 300x600dpi	
TC86x61	90.1 x 64.0mm	1064 x 1512 pixel	1064 x 756 pixel	90.1 x 62mm
TC127x61	131.1 x 64.0mm	1548 x 1512 pixel	1548 x 756 pixel	131.1 x 62mm

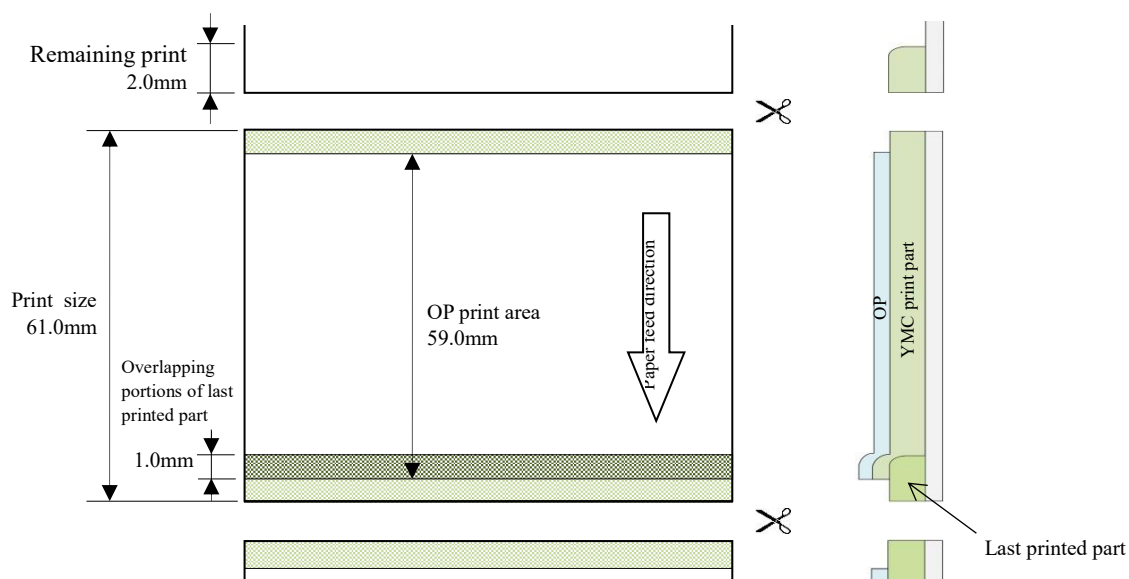
■ Card size (TC86x61)



■ L width size (TC127x61)



③ Print result



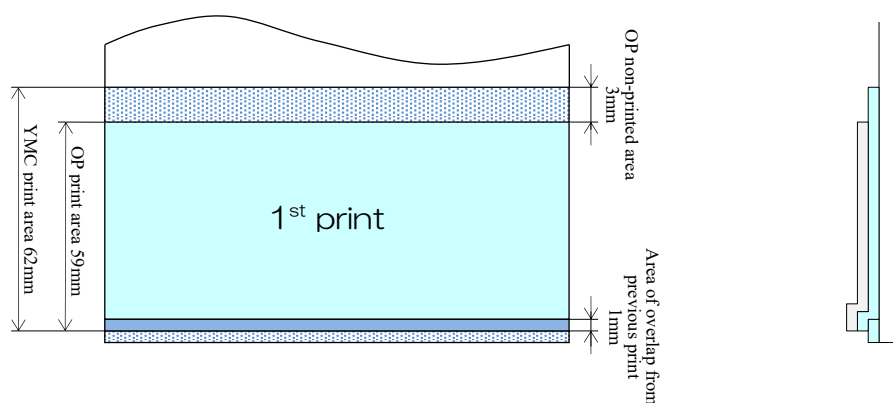
(2) About DP-TC10 L card size 2-image layout continuous printing

① Summary of Operations

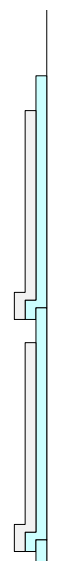
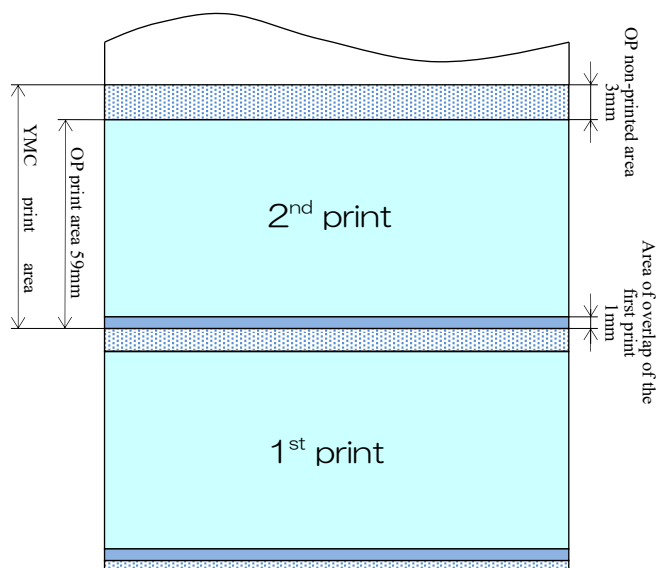
- With the command from the host, L card size 2-image layout continuous printing is carried out.
- After the L card size 2-image layout continuous print command is sent from the host, by sending 2 prints' data of L card size, the printer prints 2 images continuously.
- 2-image layout continuous printing can be done on L card size (127x61mm), and cannot be done on card size (86x61mm).

② Print Area Size

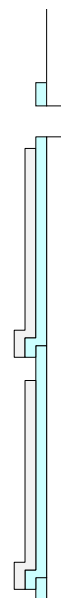
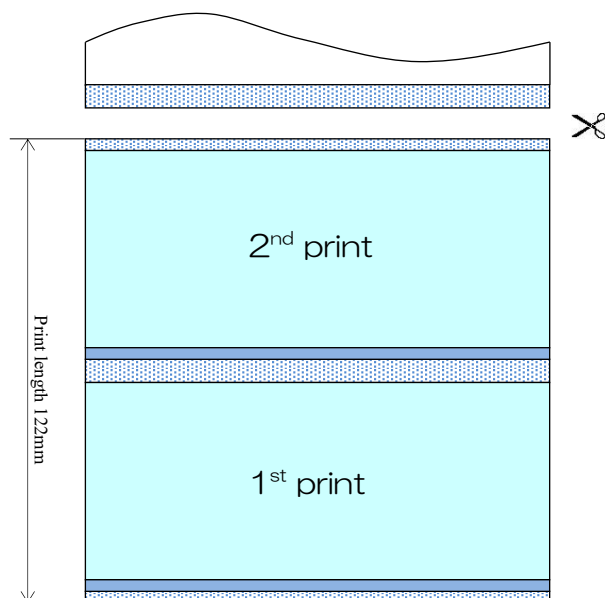
(I) 1st Print printing



(II) 2nd Print printing



(III) Cutting the prints



③ How to perform 2-image layout continuous printing

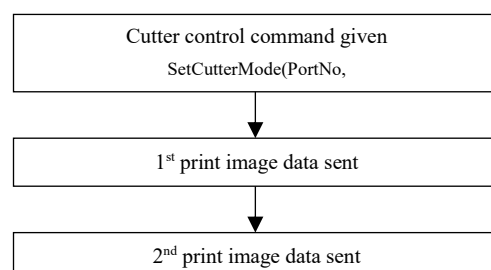
- Designation of the 2-image layout continuous printing can be done with the Direct DLL Cutter Control Command.

■ How to Designate

- (I) When performing 2-image layout continuous printing, before sending the data for the 1st print, use the Cutter Control Command to designate

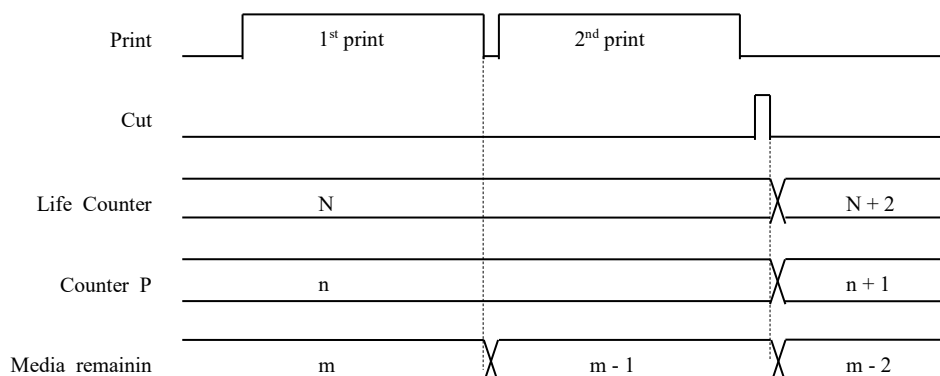
“CUTTER_MODE_L2IMAGEPRINT”(130)

- (II) After the command is given, send the image data for 2 prints.



④ Life Counter operation

- When performing 2-image layout continuous printing, the life counter counts up +2 after printing and cutting the 2nd print.
- Counter P counts up +1 after the printing and cutting of the 2nd print has been completed.



⑤ Cautions

- When performing 2-image layout continuous printing, get the remaining media quantity from the printer, and check that the 2nd image can be printed. (Note that the actual media quantity can differ due to opening/shutting of the printer cover.)
- If Ribbon End occurs after printing the 1st print of 2-image layout continuous printing, the printer will cut the 1st print, and stop. (The printer status will be Ribbon End.)
- If the image data for the 2nd print of the 2-image layout continuous printing isn't sent, after approximately 20 seconds the print will be cut and the printer will stop. (The printer status will be Idle.)

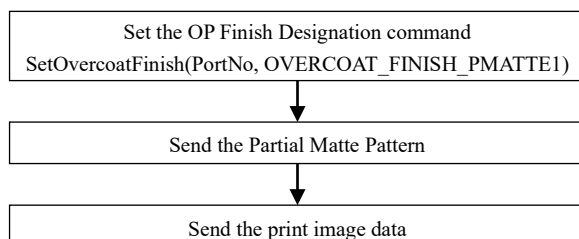
(3) About Partial Matte Printing

① Outline of Partial Matte Printing.

- When the command designating the Partial Matte Mode is sent from the host, the printer will switch to Partial Matte Mode. After that, the partial matte pattern is sent, followed by the print image data, and partial matte printing is performed.
- In the Partial Matte Mode, 1 image is printed, after which the printer will revert to Normal Mode. When partial matte printing is being performed, it is necessary to send the command and partial matte pattern for each print.
- When sending the partial matte pattern data, the pattern, created in black and white, is sent using the same process as is used when sending normal print data.

② How to Designate Partial Matte

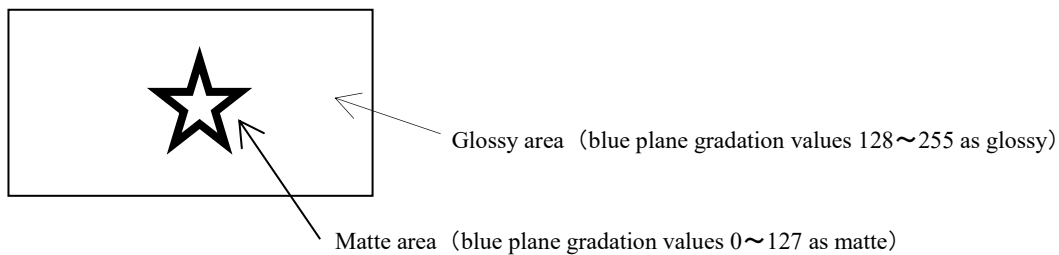
- (I) When performing partial matte printing, first use the Overcoat Finish Control command "SetOvercoatFinish()" to designate OVERCOAT_FINISH_PMATTE1 with the DP-TC10, or OVERCOAT_FINISH_PMATTE11 to 13 with the DP-DS620 or DP-DS820.
- (II) Then, send the partial matte pattern to the printer with "SendImageData()", the same as for normal image data.
- (III) After the partial matte pattern, send the print image data.



③ About Partial Matte Patterns

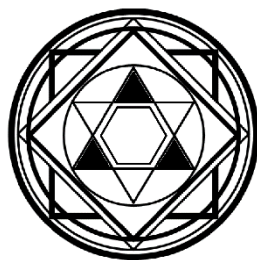
Create the partial matte pattern as a black and white image.

(Set the image format for the Direct DLL as RGB24bit color bitmap format.)



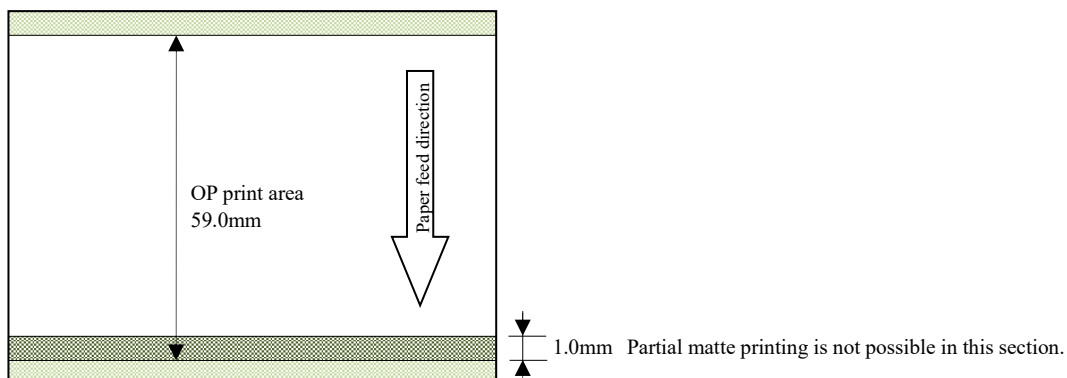
④ In-house confirmation pattern

With this Partial Matte mode, the print ratio for a design like the one below is expected to be 8~10%.



⑤ Limitations

When printing a partial matte pattern, partial matte printing is not possible at the end of the OP printing. (DP-TC10)



(4) About DP-DS620/DP-DS820 Ribbon End Check Operation

The ribbons for printers until now had a black line at the head of each color panel, and ribbon end was determined after the ribbon was wound following OP printing, by whether the black line for the next Yellow panel was detected or not. The end of the ribbon was made such that the black line for the next Yellow panel was in a position that would not be detected by the ribbon sensor (it was designed with a lengthened pitch between the OP and Yellow).

Conversely, the ribbon for the DP-DS620/DP-DS820 doesn't have a black line for detection at each color panel (it detects the panel color), and the panel pitch is shortened and the Yellow panel is in a position that can be detected by the ribbon sensor at the end of the ribbon. Therefore, for the DP-DS620/DP-DS820, the ribbon count is determined with the count recorded in the RF-ID tag. When the remaining count is 0, it determines ribbon end.

Normally, the actual remaining ribbon count and the ribbon count recorded in the RF-ID tag will match, but if trouble such as jamming occurs during printing, and the actual remaining ribbon count is 1 less than that recorded in the RF-ID tag, then even though it has used the last of the ribbon, it will detect the next Yellow panel and the RF-ID tag will show 1 remaining, so it won't show ribbon end.

In order to avoid this, only when the RF-ID tag shows the following remaining ribbon count, it will run the ribbon end check operation.

<Conditions for Ribbon End Check>

Media Size	RF-ID-tag Ribbon count (after OP printing)	
	Function: CvGetMediaCounter() / GetMediaCounter()	Function: GetMediaCounterH()
5x3.5 (L)	2 or 1	-
6x4 (PC)	2 or 1	-
5x7 (2L)	2 or 1	4 or 2 (5x3.5 conversion qty)
6x8 (A5)	2 or 1	4 or 2 (6x4 conversion qty)
6x9 (A5W) *1	2 or 1	4 or 2 (6x4.5 conversion qty)
8x10	2 or 1	4 or 2 (8x5 conversion qty)
8x12	2 or 1	4 or 2 (8x6 conversion qty)
A4	2 or 1	4 or 2 (A5 conversion qty)

*1 DP-DS620 firmware version 1.10 or later

When the RF-ID ribbon count after OP printing is as shown above, it will run the following ribbon end check operation.

<Ribbon End Check Operation>

After OP printing, it will wind the ribbon until the ribbon sensor detects the Yellow panel.

After the ribbon sensor detects the Yellow panel, it will continue to wind the ribbon for a predetermined length (about 20mm). Note that, ribbon winding at this time is wound at slowly, in order to prevent peeling of the adhesion part of a ribbon supply bobbin and a ribbon film.

After it has wound for the predetermined length, the ribbon will rewind, Yellow panel position will be set, and operation will continue.

If it cannot be wound the predetermined length (winding stops), it will be ribbon end, and operation will stop.

(5) Panorama Printing with White Border

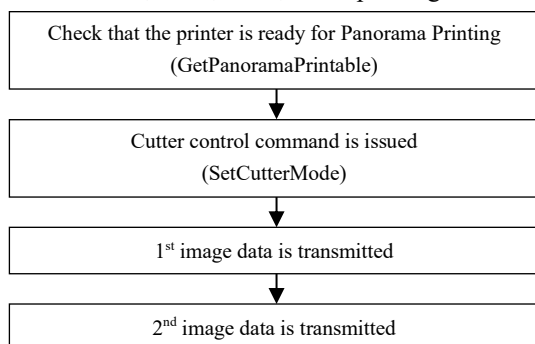
① Overview

- Panorama printing is performed by specifying a command from the host computer.
- After receiving the Cutter Control command (panorama printing operation), the printer does not cut the printout at the end of the printing but continues printing the data it received next. If the Panorama Printing Specification command is sent again before sending the data for the second image, the printer will not cut the media after printing the second image but will continue printing the data it received next.

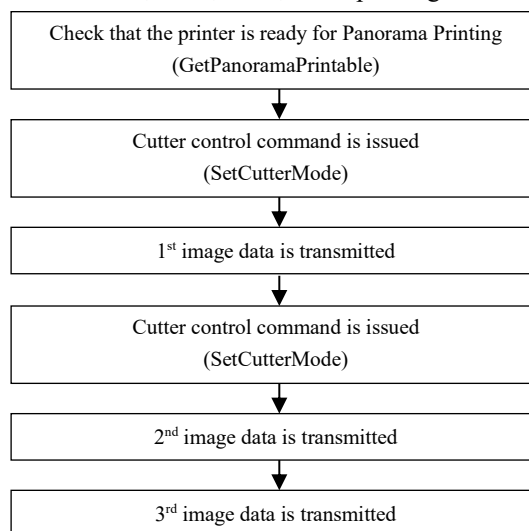
② Panorama Printing Operation Flow

1. When performing panorama printing, you can check whether the printer can perform panorama printing with the Panorama Printing Start Check function. (This can be skipped. When the head temperature is high, send the panorama print data without waiting for the status to change to show printing is possible.)
2. With panorama printing, specify panorama printing operation “CUTTER_MODE_PANORAMA” with the Cutter Control command before sending the image data.
3. After executing the command, send print data of 6x8, 8x10, 8x12, A4 size.

■ With 6x16, 8x20, 8x24, A4x2 printing

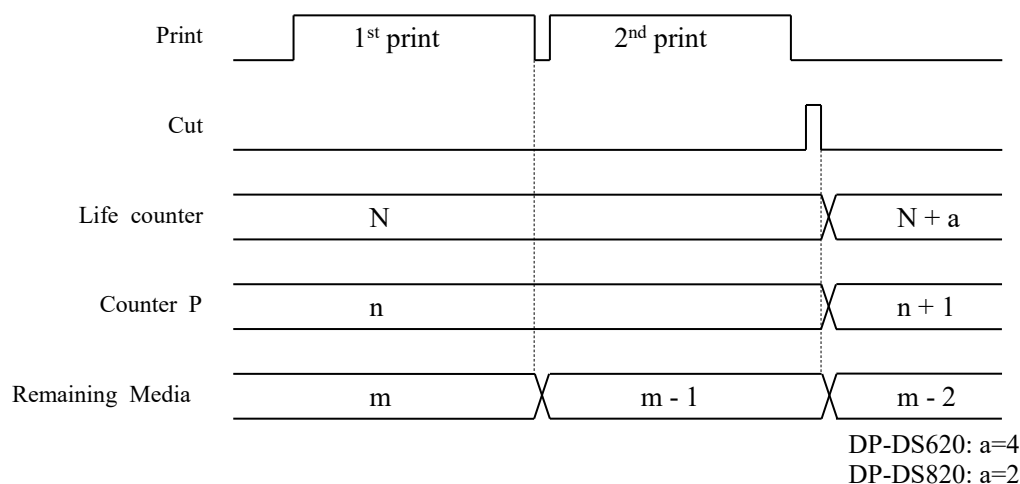


■ With 6x24, 8x30, 8x36, A4x3 printing



③ Life Counter operation

- For Panorama Printing, the counter increases after printing at the point when the print is cut. (For 6x16:+4, For 6x24:+6, For 8x20, 8x24, or A4x2:+2, For 8x30, 8x36, or A4x3:+3)
- The counter P counts up +1 after printing at the point when the print is cut.



④ Cautions

- When the head temperature is high, the printer will wait for the head to cool before starting printing.
- When performing panorama printing, get the remaining media quantity from the printer, and check that enough media remains to print the panorama before executing the command.
- If Ribbon End occurs during panorama printing, the printer will cut the printout and stop. The printer status will indicate Ribbon End.
- During panorama printing, the printer will wait until the next data transmission if it did not receive the data for the next printing. In such cases, note that marks may remain in the decurl part or where the media has been gripped.
- During panorama printing, if the next image data is not sent after approximately 60 seconds, the printout will be cut and the printer will stop. The printer status will indicate Idle.
- During panorama printing, the Print Retry Control command is disabled.
- During panorama printing, if the printer receives the Full Cutter Set-up command, the Non-scrap Cutter Operation command, or the 2inch Cut Operation command, the printout will be cut during the panorama printing operation and the printer will return to normal operation.
- During panorama printing, if the printer receives data for image size other than 6x8-size (DP-DS820: 8x10, 8x12, A4), the printout will be cut during the panorama printing operation and the printer will return to normal operation.
- Do not touch the paper output from the printer during panorama printing.
- Pay attention to the printer installation location since printout of up to approximately 36 inches can be output.