

Panorama Printing(with space) Function Specifications

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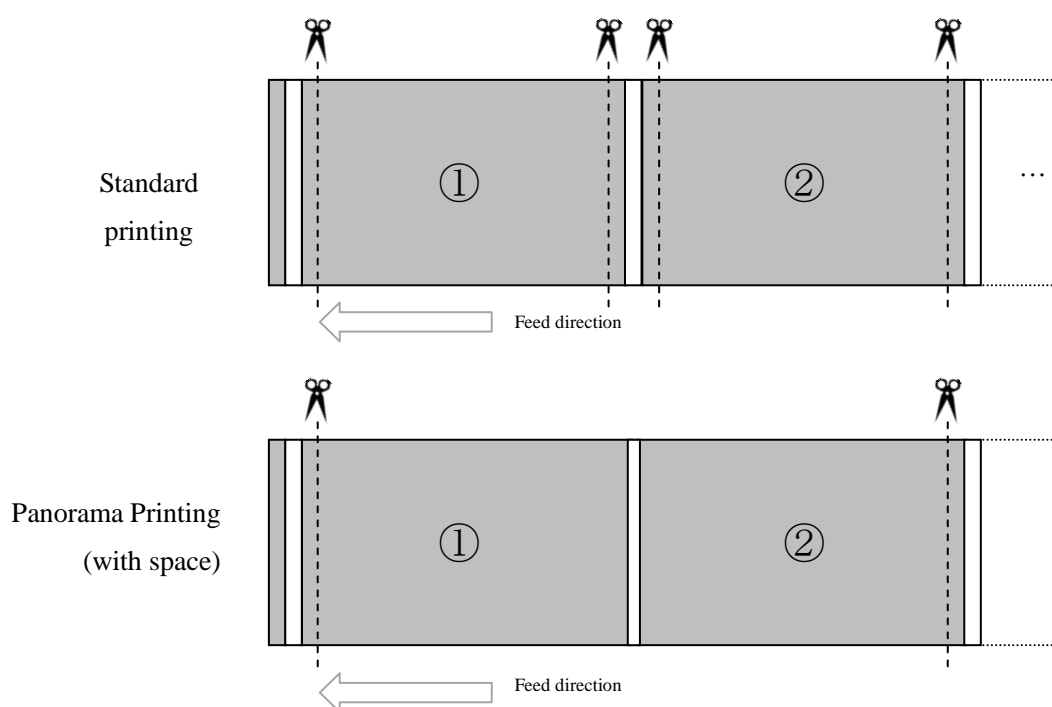
If the contents of this sample program are used on your system, there is no guarantee of their operation. Further, this company shall not be held responsible for any damages, direct or indirect, caused through use of the sample program.

About Panorama Printing(with space)

The Panorama Printing (with space) function (hereafter called Panorama Printing) allows 2 or 3 8x10 / 8x12 / A4-size images to be printed continuously without being cut.

In standard printing, the paper is cut after each print, but with panorama printing, the paper is not cut until after the last image. The images are printed continuously still connected, and the paper is only cut after the last image is printed.

<Output image>



(1) Panorama Printing Summary

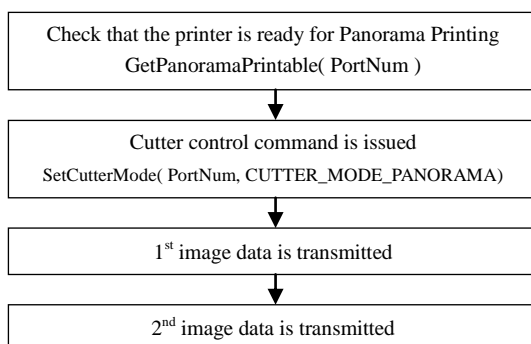
- Using a command designation from the host, Panorama Printing can be performed.
- When the printer receives the Panorama Print command, it will finish printing the first image, and continue printing the next image data that was sent without cutting after the first image. If the Panorama Print command is sent again before the 2nd print data is sent, then it will print the 2nd image, and continue printing the data received without cutting after the 2nd image.

(2) Panorama Printing Process Flow

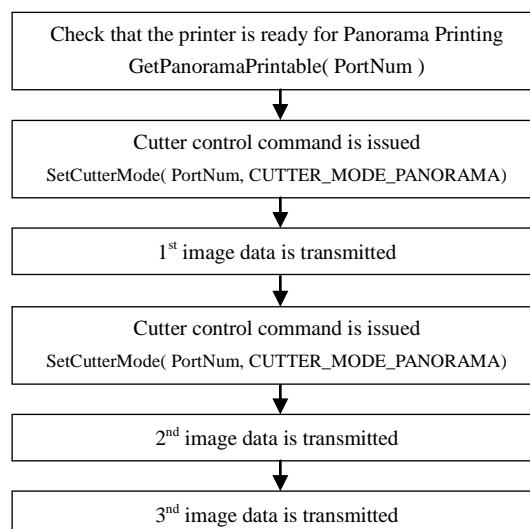
(ex.) In the case of 8x12-size image.

- ① When performing panorama printing, you can check whether the printer can perform panorama printing with the Panorama Printing Start Check API `GetPanoramaPrintable()`. (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 Use the cutter control API `SetCutterMode()` to designate the panorama print operation “CUTTER_MODE_PANORAMA”.
- ③ After issuing the command, send the 8x12 size print image data.

■For a 8x24 print

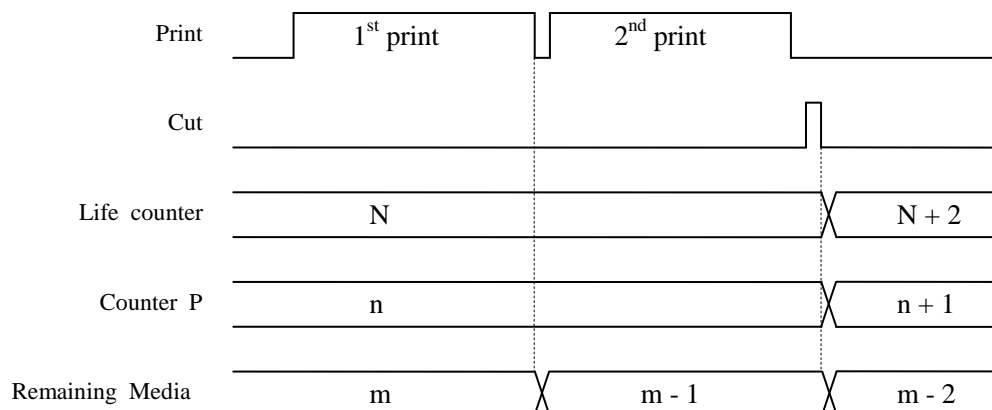


■For a 8x36 print



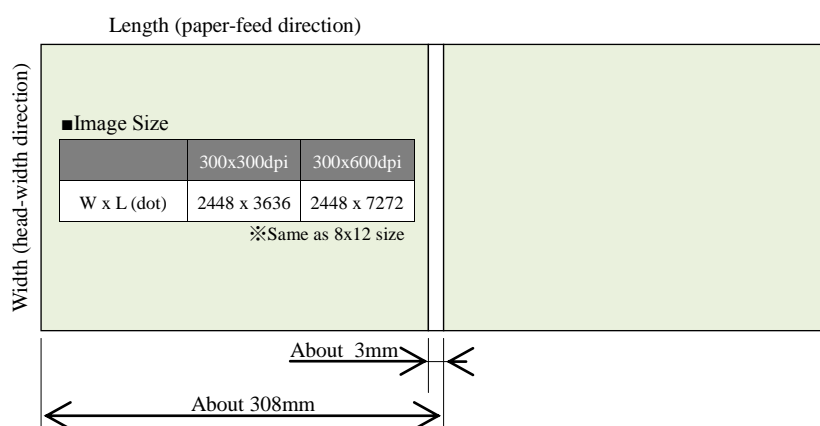
(3) Life Counter Operation

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



(4) Image Size and Print Pitch

(ex.) In the case of 8x12-size image.

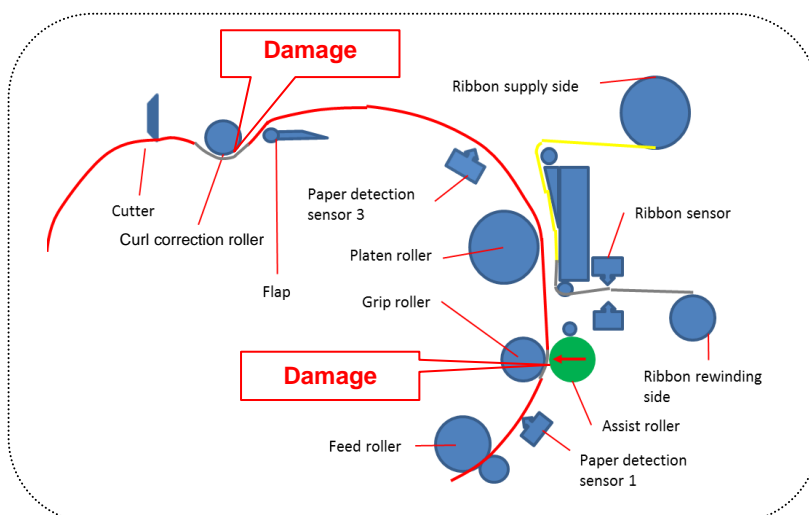


- In order to get the same output result as with normal single prints, the end 1.5mm of printing between the 1st and 2nd, and 2nd and 3rd prints will not be performed. (For single prints, this remains in the print cutting scrap.)

(5) Printer Operation during Panorama Printing

(5)-1 Overheating and Sending Data during Panorama Printing

When performing Panorama Printing, if the data for the 2nd or 3rd image is not received in time for continued printing, or if the printer overheats, the printer will stop with the print not completed. In this case, the print may be damaged (an impression left) by the de-curling section or the media grip section.

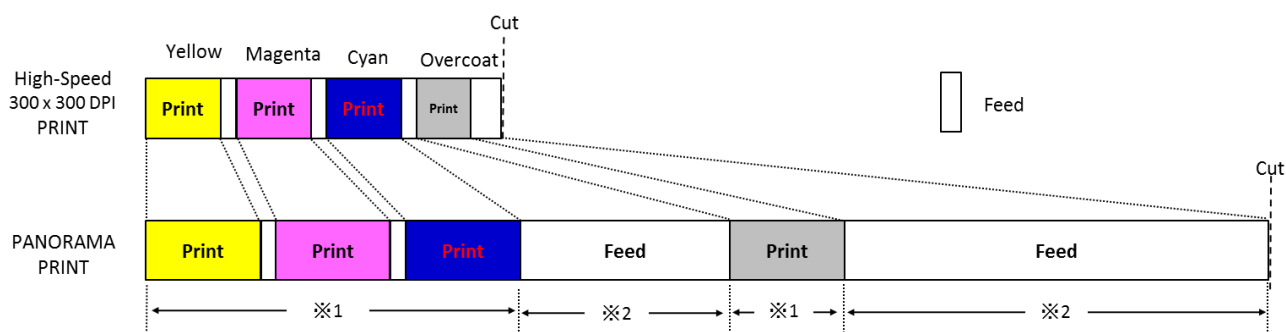


(5)-2 Avoiding overheating

a) Securing Time for Cooling

In order to curb the temperatures rise during printing, the print speed is lowered, and the feed speed is lowered after cyan printing until overcoat printing starts, and after overcoat printing until yellow printing starts.

Mode	Print Speed ※1		Feed Speed ※2	
	Normal environment (Ext. temp approx. 25℃)	High-temp environment (Ext. temp approx. 30℃)	Normal environment (Ext. temp approx. 25℃)	High-temp environment (Ext. temp approx. 30℃)
High-speed (300x300dpi)	High-speed	High-quality	1.2ips or 14ips	0.6ips
High-quality (300x600dpi)	High-quality			



b) Start Temperature

In order to avoid overheating during Panorama Printing, the printer will wait until the head temperature is lower than that shown in the chart below before starting printing of the 1st image.

Head Temperature	
Normal environment (Ext. temp approx. 25°C)	High-temp environment (Ext. temp approx. 30°C)
51.2°C	48.1°C

When used in a normal environment (external temperature is approximately 25°C), continuous printing without overheating is possible for a gray (50%) image. However, when operating in a high-temperature environment (external temperature is approximately 30°C), it may take longer for cooling after printing the first image. Before sending the data, use the GetPanoramaPrintable() API to check that the printer is ready to start Panorama Printing.

■Printing Time

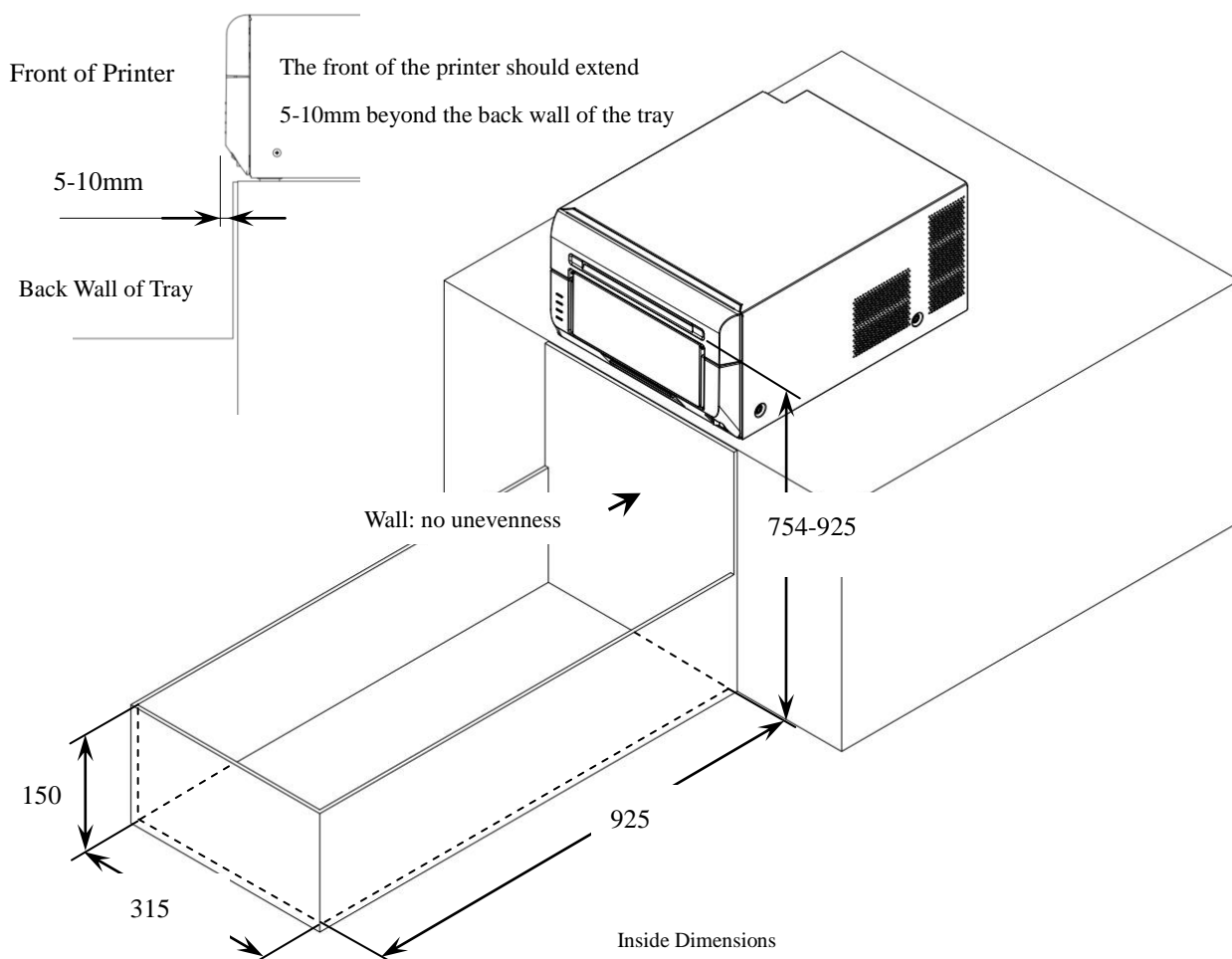
Size of Panorama Print [PP media]					
8x20in	8x30in	8x24in	8x36in	A4x2	A4x3
About 61 sec	About 90 sec	About 70 sec	About 105 sec	About 69 sec	About 103 sec

※Measurement conditions: gray (50%) images, 25°C±5°C 50%±10%RH

(6) About the Set-up Location and Paper Tray for Panorama Printing

When performing Panorama Printing, we recommend a tray and stand set-up as shown below.

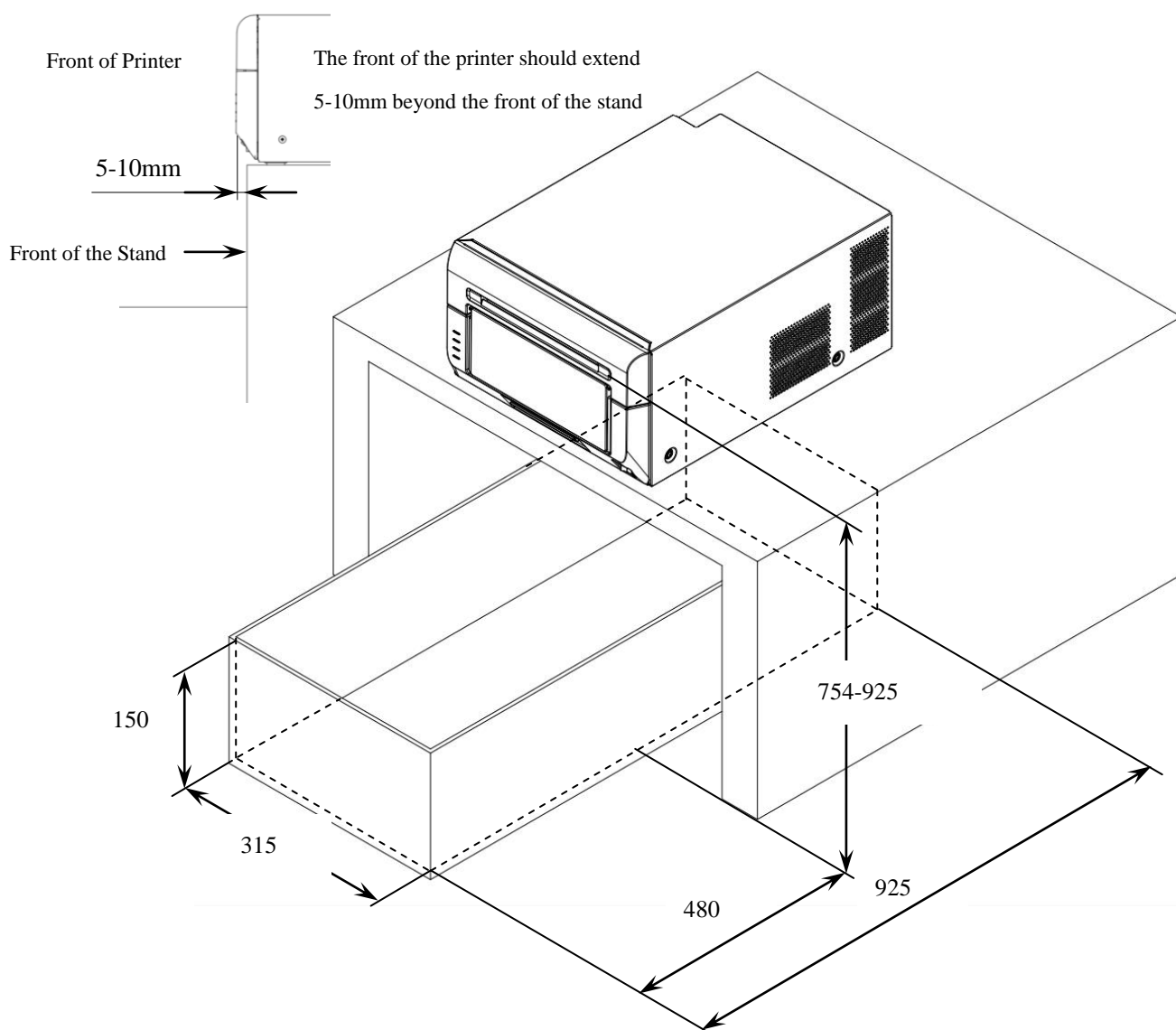
■ If there is a wall on the front of the printer stand:



< Notes >

- Set the printer so that the height of the paper output slot is 754-925 mm above the bottom of the tray. If the height of the output slot is less than 754mm, register slippage or printing irregularities could be caused when the end of the paper hits the tray. If the height is more than 925mm, the end of the print could be bent or scratched when it drops to the tray.
- Put a wall on the back of the tray. Curling that occurs toward the end of the media can cause the paper to curl back under the printer. Also, be sure there is no unevenness in the wall, and that the front of the printer extends 5-10mm beyond the back wall of the tray.
- When performing panorama printing, the paper will be fed out from the printer during the printing process. Touching the paper during printing could cause paper-jam, register slippage, or printing irregularities, so please do not touch the paper. (Strong airflow from air-conditioners etc. could have the same effect.)

■ If the front of the printer stand is open:



< Notes >

- Set the printer so that the height of the paper output slot is 754-925 mm above the bottom of the tray. If the height of the output slot is less than 754mm, register slippage or printing irregularities could be caused when the end of the paper hits the tray. If the height is more than 925mm, the end of the print could be bent or scratched when it drops to the tray.
- Be sure that the front of the printer extends 5-10mm beyond the edge of the stand.
- Set the tray so that the front extends 480mm in front of the stand, and the back is 445mm under the stand.
- Curling that occurs toward the end of the media can cause the paper to curl back under the printer.
- When performing panorama printing, the paper will be fed out from the printer during the printing process. Touching the paper during printing could cause paper-jam, register slippage, or printing irregularities, so please do not touch the paper. (Strong airflow from air-conditioners etc. could have the same effect.)

(7) Notes regarding Panorama Printing

- When the head temperature is high, the printer will wait for the head to cool before starting printing.
- When carrying out panorama printing, first get the remaining media quantity from the printer and check that there is enough media to complete the panorama printing.
- If ribbon end occurs during panorama printing, the printer will cut the print and stop printing. The printer status will be “Ribbon End”.
- During Panorama Printing, if the next print data is not received, the printer will be Idle until the next data is sent. In this case, be aware that the de-curl section or media grip section could leave impressions on the printed media.
- During Panorama Printing, if the next print data is not received for approximately 60 seconds, the print will be cut and the printing stopped, and the printer status will switch to Idle.
- For Panorama Printing, the print re-try function is invalid.
- If the Full Cutter Set-up command, No Cut-scrap command, or 2-inch Cut command are received during Panorama Printing, the partially printed Panorama Print will be cut, and operation will revert to normal. (This is because the designated operations of these commands are incompatible.)
- If data other than 8x10 / 8x12 / A4-size is received during Panorama Printing, the Panorama Print being printed will be cut, and operation will return to normal.
- Be sure not to handle the media being fed out of the printer during Panorama Printing.
- A maximum length of 36 inches can be fed out, so be careful in the placement of the printer.

Sample Program

This is a VB.NET Panorama Print (with space) sample application. This sample program allows for panorama printing of the selected image files and the designated number of panorama prints.

In order to use this sample program, please make the following changes to conform to your operating environment.

■Printer Name

Change the “Printer Name” in Form1_Load().

The initial setting is “PrinterName = “DP-DS820”, so you should set the name of the printer you have installed. For the printer name, refer to “Printer and Fax” on te computer.

■32/64bit OS selection

If the OS is 64bit, you should attach “#Const x64 = True” to the beginning of DS820Stat.vb.

The initial setting is for 32bit, and is set as “#Const x64 = False”.

