

Star Inbox Driver

Software Manual

- for Windows10 -

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Introduction

This manual describes the functions that are available on the Star Inbox Driver for Windows 10.

The models that are covered by this manual are listed below.

Compatible models

- SP500 / TSP600 / TSP700 / TSP800 / TUP900 / TSP1000

1. Windows Printer Driver Settings

The functions that can be set vary depending on the model, interface, and print mode.

The main capabilities that can be set by this driver are as follows.

	SP500	TSP600	TSP700	TSP800	TUP900	TSP1000
Print Mode (Raster)	-	✓	✓	✓	✓	✓
Paper Type	✓	✓	✓	✓	✓	✓
Detect Black Mark Position at Power On	✓	-	✓	✓	✓	✓
Top Serch	-	-	✓	✓	✓	✓
Page Cut	✓	✓	✓	✓	✓	✓
Document Cut	✓	✓	✓	✓	✓	✓
Print Quality	✓	✓	✓	✓	✓	✓
Logos Printing	-	✓	✓	✓	✓	✓
Chash Drawer Control	✓	✓	✓	✓	-	-
Peripheral Unit Control	-	-	-	-	-	✓
Presenter Control	-	-	-	-	✓	-
Bidirectional Printing	✓	-	-	-	-	-
2-Color Printing	-	✓	✓	✓	✓	✓
Device Font	✓	✓	✓	✓	✓	✓
Control Font	✓	✓	✓	✓	✓	✓
Barcode Font	-	✓	✓	✓	✓	✓



Available device settings vary according to whether operation is in Raster or Line .

In the following explanations, **Raster** and **Line** appear to the right of the setting name to indicate the mode to which the setting applies.

Operational settings may not work as expected if you switch between Raster and Line mode while your application is still running. Please restart the application after switching the mode.



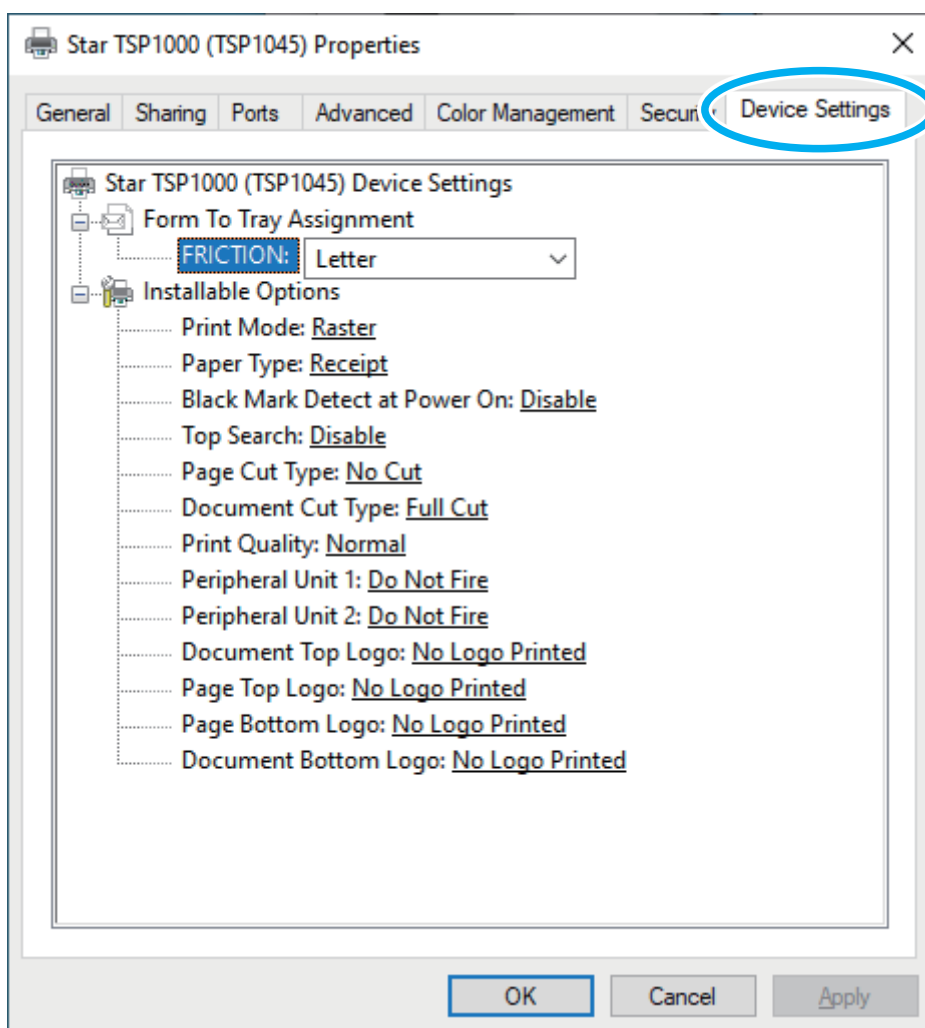
"Raster," the default print mode, is not supported if you are using the following models through the serial interface. Set Print Mode to "Line" before you access these models.

Applicable models : TSP600 / TSP700 / TSP800 / TUP900 / TSP1000

1.1 Setting the Printer


Using the printer's Properties dialog box, you can set various functions of this driver. Begin by opening the Properties dialog box, as follows.

- ① On the taskbar, click Start. Open the '**Control Panel**', and open the '**Devices and Printers**' folder.
- ② Right-click the printer queue that you want to configure to open a shortcut menu, then click '**Printer properties**'.
- ③ At the **Properties** dialog, click the **Device Settings** tab.



1.1.1 Explanation of Device Settings



Some of the above operations are mutually exclusive. If a  mark appears in the Device Settings tab, recheck your settings.

• Print Mode

Raster

Line

Sets the print mode.

Setting	Default	Meaning
Raster	✓	Sets Raster mode.
Line		Sets Line mode.

• Setting the Paper Type

Raster

Line

Changes the paper type setting.

Setting	Default	Meaning
Receipt	✓	Variable length: the printer does not output white-space padding at the end of the page data.
Ticket		Fixed length: the printer outputs white-space padding up to the end of the fixed-length page.
Black Mark		Fixed length: the printer outputs white-space padding up to the next black mark.

• Enabling / Disabling Black Mark Detection

Raster

Line

If this feature is set to **Enable**, the printer will detect the black mark position when turned on.

Setting	Default	Meaning
Disable	✓	At power on, does not execute paper feed in accordance with detection of black mark position.
Enable		At power on, feeds paper according to black mark position.



This setting is not available if the paper type is set to **Receipt** or **Ticket**.

• Page Cut Type

Raster

Line

Sets the cutting method for the end of each non-final page of a document.

Setting	Default	Meaning
No Cut	✓	Printer does not feed or cut paper.
Partial Cut		Printer feeds paper to the cut position, and then cuts it (Partial cut).
Full Cut		Printer feeds paper to the cut position, and then cuts it (full cut).

• Document Cut Type

Raster

Line

Sets the cutting method for the final page of the document.

Setting	Default	Meaning
No Cut	✓	Printer does not feed or cut paper.
Partial Cut		Printer feeds paper to the cut position, and then cuts it (Partial cut).
Full Cut		Printer feeds paper to the cut position, and then cuts it (full cut).

• Print Quality

Raster

Line

Sets the print quality. Note that the setting also affects the print speed.

Setting	Default	Meaning
Nomal	✓	Sets print quality and print speed to intermediate level.
High		Priority is given to print speed over print quality.
Best		Provides the highest print quality but lowers print speed.



When setting up color printing, this density setting has no effect on black print density (which is fixed). To set the print quality for dot matrix printers, refer to "4. Setting the Print Quality" on page 16.

• Selecting the Print Method

Line

Use this feature to select either unidirectional or bidirectional printing.
Note that the setting affects both the print speed and the print quality.

Setting	Default	Meaning
Bidirectional	✓	Printer prints in both directions.
Unidirectional		Printer prints in one direction only.

• Document Top Logo

Line

The NV logos are identified by their NV logo (image list) numbers. To select a top-of-document logo, choose the appropriate logo number. Before making this setting, you must load NV logos into the printer's nonvolatile memory.

Setting	Default	Meaning
No Logo Printed	✓	No logo printed at the document top.
Print Logo 1, ..., 10		Prints the selected logo at the document top.

! This setting is effective only in **Line** print mode.

• Page Top Logo

Line

The NV logos are identified by their NV logo (image list) numbers. To select a top-of-page logo, choose the appropriate NV logo (image list) number. Before making this setting, you must load NV logos into the printer's nonvolatile memory.

Setting	Default	Meaning
No Logo Printed	✓	No logo printed at the page top.
Print Logo 1, ..., 10		Prints the selected logo at the page top.

! This setting is effective only in **Line** print mode.

• Page Bottom Logo

Line

The NV logos are identified by their NV logo (image list) numbers. To select the bottom-of-page logo, choose the appropriate NV logo (image list) number. Before making this setting, you must load NV logos into the printer's nonvolatile memory.

Setting	Default	Meaning
No Logo Printed	✓	No logo printed at the page bottom.
Print Logo 1, ..., 10		Prints the selected logo at the page bottom.

! This setting is effective only in **Line** print mode.

• Document Bottom Logo

Line

The NV logos are identified by their NV logo (image list) numbers. To select the bottom-of-document logo, choose the appropriate NV logo (image list) number. Before making this setting, you must load NV logos into the printer's nonvolatile memory.

Setting	Default	Meaning
No Logo Printed	✓	No logo printed at the document bottom.
Print Logo 1, ..., 10		Prints the selected logo at the document bottom.

! This setting is effective only in **Line** print mode.

• Cash Drawer1 (or 2)

Raster

Line

This sets the operations of the cash drawer 1 (or 2).

Setting	Default	Meaning
Do Not Open	✓	No cash drawer drive.
Open Before Printing		Drives cash drawer 1(or 2) immediately before printing.
Open After Printing		Drives cash drawer 1(or 2) immediately after printing.

• Pulse Width for Cash Drawer 1

Raster

Line

Sets the pulse width for cash drawer 1 .

The pulse width for cash drawer2 is fixed at 200 milliseconds.

Setting	Default	Meaning
10 milliseconds		Sets the pulse width to 0.01 seconds.
100 milliseconds		Sets the pulse width to 0.1 seconds.
200 milliseconds	✓	Sets the pulse width to 0.2 seconds.
300 milliseconds		Sets the pulse width to 0.3 seconds.
400 milliseconds		Sets the pulse width to 0.4 seconds.
500 milliseconds		Sets the pulse width to 0.5 seconds.
600 milliseconds		Sets the pulse width to 0.6 seconds.
700 milliseconds		Sets the pulse width to 0.7 seconds.
800 milliseconds		Sets the pulse width to 0.8 seconds.
900 milliseconds		Sets the pulse width to 0.9 seconds.
1000 milliseconds		Sets the pulse width to 1.0 seconds.
1100 milliseconds		Sets the pulse width to 1.1 seconds.
1200 milliseconds		Sets the pulse width to 1.2 seconds.

• Peripheral Unit 1 or 2

Raster

Line

This sets the operations of the peripheral unit 1 (or 2).

Setting	Default	Meaning
Do Not Fire	✓	No peripheral unit drive.
20milliseconds ... 5000milliseconds		Drives peripheral unit 1 or 2 using the specified pulse width.

• Presenter Mode

Raster

Line

Sets the presenter operation.

Setting	Default	Meaning
Loop-Hold-Retract	✓	After printing is completed, presents (outputs and holds) the printed paper and waits for it to be removed. Retracts the paper if it is not removed within the specified retraction time.
Loop-Hold-Eject		After printing is completed, presents (outputs and holds) the printed paper and waits for it to be removed. Ejects the paper if it is not removed within the specified retraction time.
NoLoop-Hold-Retract		Begins outputting the paper while printing is in progress, then holds it and waits for its removal. Retracts the paper if it is not removed within the specified retraction time.
NoLoop-Hold-Eject		Begins outputting the paper while printing is in progress, then holds it and waits for its removal. Ejects the paper if it is not removed within the specified retraction time.
NoLoop-NoHold-Eject		Outputs the paper while printing is in progress, and then ejects it. Does not hold the paper.

! The Presenter Retract Time (see below) sets the retraction time. If the Presenter Retract Time is set to **"Do Not Retract"**, the presenter will present the paper and continue to hold it until it is removed. It will not retract or eject the paper.

• Presenter Retract Time

Raster

Line

Sets amount of time the presenter will hold out the printed paper before either retracting or ejecting it.

Setting	Default	Meaning
Do not Retract	✓	Holds paper until it is removed.
1 ~ 125 second		Sets amount of time the presenter will hold out the printed paper before either retracting or ejecting it. Can be set in 5-second increments.

! If the Presenter Mode is set to **"NoLoop – NoHold – Eject"**, the Retraction Time setting is meaningless and the presenter will eject the paper without holding it.

2. Setting the Paper Size

Raster

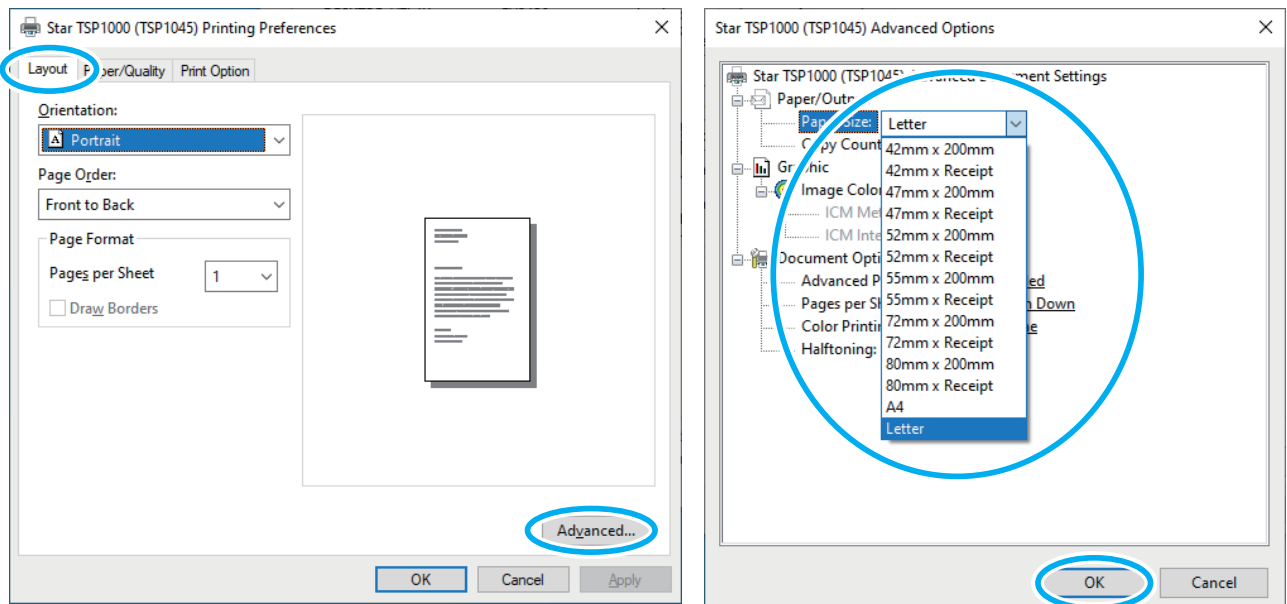
Line

This drivers let you use both preset standard sizes and custom, user-defined sizes.

2.1 Standard Sizes

The procedure is as follows.

- ① On the taskbar, click Start. Open the '**Control Panel**', and open the '**Devices and Printers**' folder.
- ② Right-click the printer queue that you want to configure to open a shortcut menu, then click '**Printer properties**'.
- ③ Click the **Layout** tab, and then click **Advanced...**. On the Advance Option dialog box, select the **Paper Size** value.



i Please be sure to set a print width that is smaller than the paper width, so as to allow for margins.

The following paper sizes are available and can be set.

Paper Size	Supported Models					
	SP500	TSP600	TSP700	TSP800	TUP900	TSP1000
42mm * 200mm						✓
42mm * Receipt						✓
45mm * 200mm	✓					
45mm * Receipt	✓					
47mm * 200mm						✓
47mm * Receipt						✓
48mm * 200mm	✓					
48mm * Receipt	✓					
50.8mm * 200mm		✓	✓			
50.8mm * Receipt		✓	✓			
52mm * 200mm						✓
52mm * Receipt						✓
52.5mm * 200mm			✓			
52.5mm * Receipt			✓			
55mm * 200mm						✓
55mm * Receipt						✓
56mm * 200mm					✓	
56mm * Receipt					✓	
60mm * 200mm	✓					
60mm * Receipt	✓					
63mm * 200mm	✓					
63mm * Receipt	✓					
72mm * 200mm		✓	✓		✓	✓
72mm * Receipt		✓	✓		✓	✓
80mm * 200mm			✓		✓	✓
80mm * Receipt			✓		✓	✓
104mm * 200mm				✓	✓	
104mm * Receipt				✓	✓	
Letter	✓	✓	✓	✓	✓	✓
A4	✓	✓	✓	✓	✓	✓

2.2 User-Defined Paper Settings

Raster

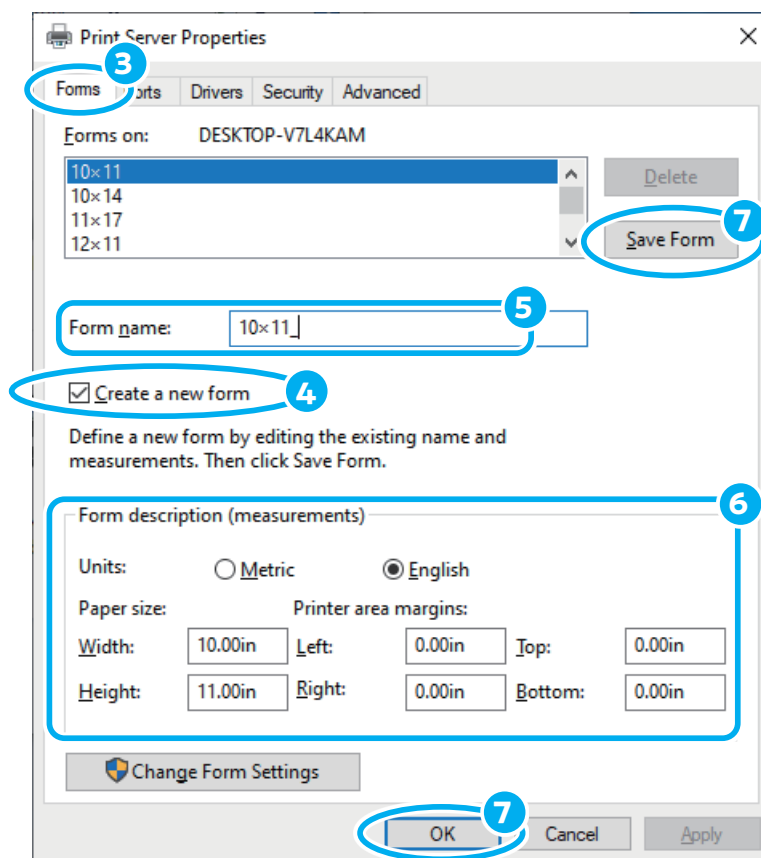
Line

The paper size that will be used can be defined. The procedure is as follows.

- ① From the Start menu in Windows, select [Windows System] > [Control Panel] > [Devices and Printers].
- ② Select the printer you want to configure, and click '**Printer Server Properties**' from the menu.
- ③ Click the **Forms** tab.
- ④ Select the **Create a new form** check box.
- ⑤ In the **Form name** textbox, overwrite the current name with a new name for the custom size you are defining.
- ⑥ In the **Form description (measurements)** area, select the appropriate Units and type the desired **Width** and **Height** settings.
- ⑦ Click the **Save Form** button. Click the **OK** button to close the dialog box.



Set all four margins (left, right, top, and bottom) to "0".



Available paper sizes are as follows.

Supported Models	Width		Height	
	Minimum	Maximum	Minimum	Maximum
SP500	25.4 mm	63 mm	25.4 mm	*OS's maximum print height
TSP600	25.4 mm	72 mm	25.4 mm	*OS's maximum print height
TSP700	25.4 mm	80 mm	25.4 mm	*OS's maximum print height
TSP800	25.4 mm	104 mm	25.4 mm	*OS's maximum print height
TUP900	25.4 mm	104 mm	25.4 mm	*OS's maximum print height
TSP1000	25.4 mm	80 mm	25.4 mm	*OS's maximum print height

* In general, the operating system's maximum print height is about 3 m (3,000 mm).

i User-defined sizes are available to all drivers that can support the dimensions (as indicated in the table).

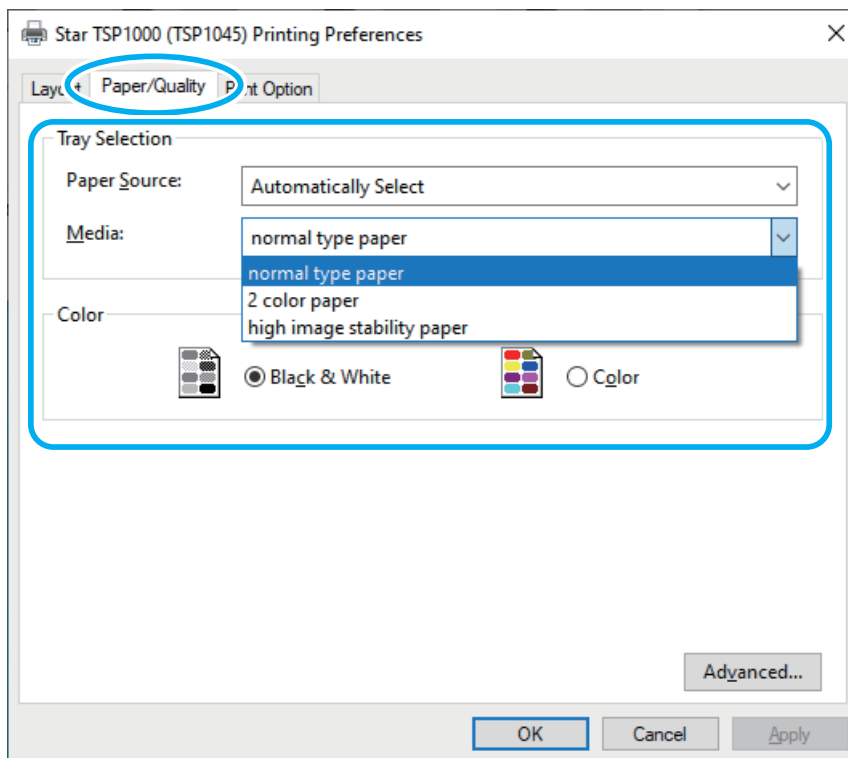
3. Setting the Print Color and Paper Type

Raster

This printer driver's Raster mode supports two-color printing. This section explains how to set up color printing, and how to set the printer to print on special paper types.

- ① From the Start menu in Windows, select [Windows System] > [Control Panel] > [Devices and Printers].
- ② Right-click the printer icon that you wish to set. In the drop-down menu, click **Printing Preference**.
- ③ Click the **Paper/Quality** tab.
Select the paper type appropriate for the specified print color.

Selecting the paper type and print color:



◆ **For normal monochrome printing (Standard thermal paper)**

- Media : Select **normal type paper**.
Color : Select check button of **Black & White**.

◆ **For color printing (2-color thermal paper)**

- Media : Select **2 color paper**.
Color : Select check button of **Color**.

◆ **For printing on special paper (dense black printing; some special high-stability papers)**

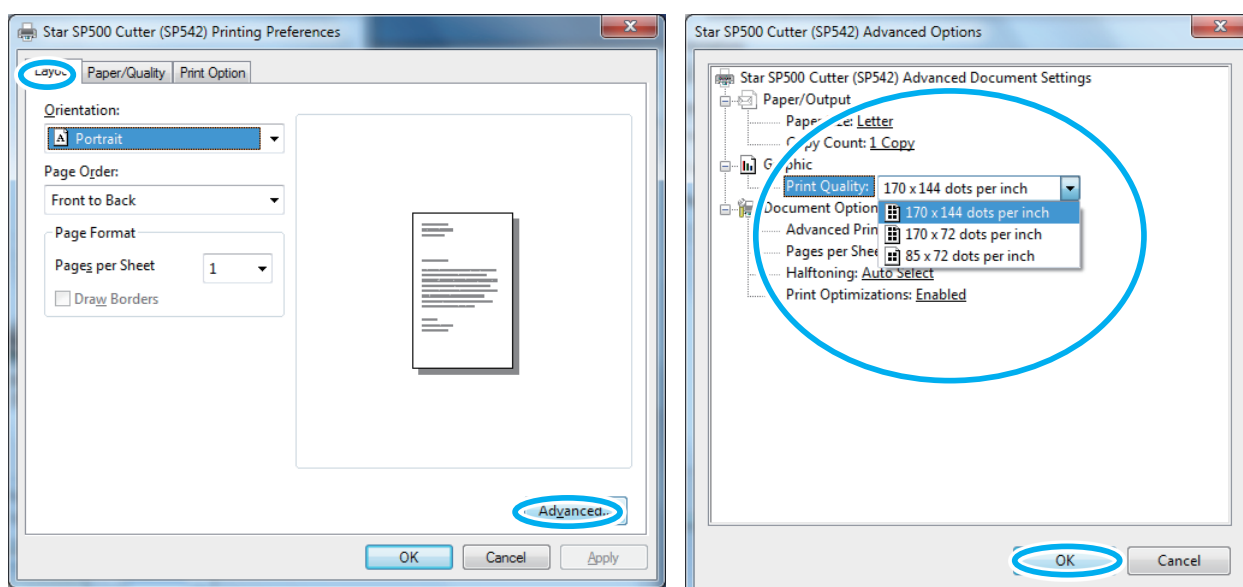
- Media : Select **high image stability paper**.
Color : Select check button of **Black & White**.

4. Setting the Print Quality

You can set the print quality for dot matrix printers.

To open the dialog, proceed as follows.

- ① From the Start menu in Windows, select [Windows System] > [Control Panel] > [Devices and Printers].
- ② Right-click the printer icon that you wish to set. In the drop-down menu, click **Printing Preference**.
- ③ Click the **Layout** tab, and then click **Advanced...** .
At the Advanced Option Dialog, set **Paper Size**.



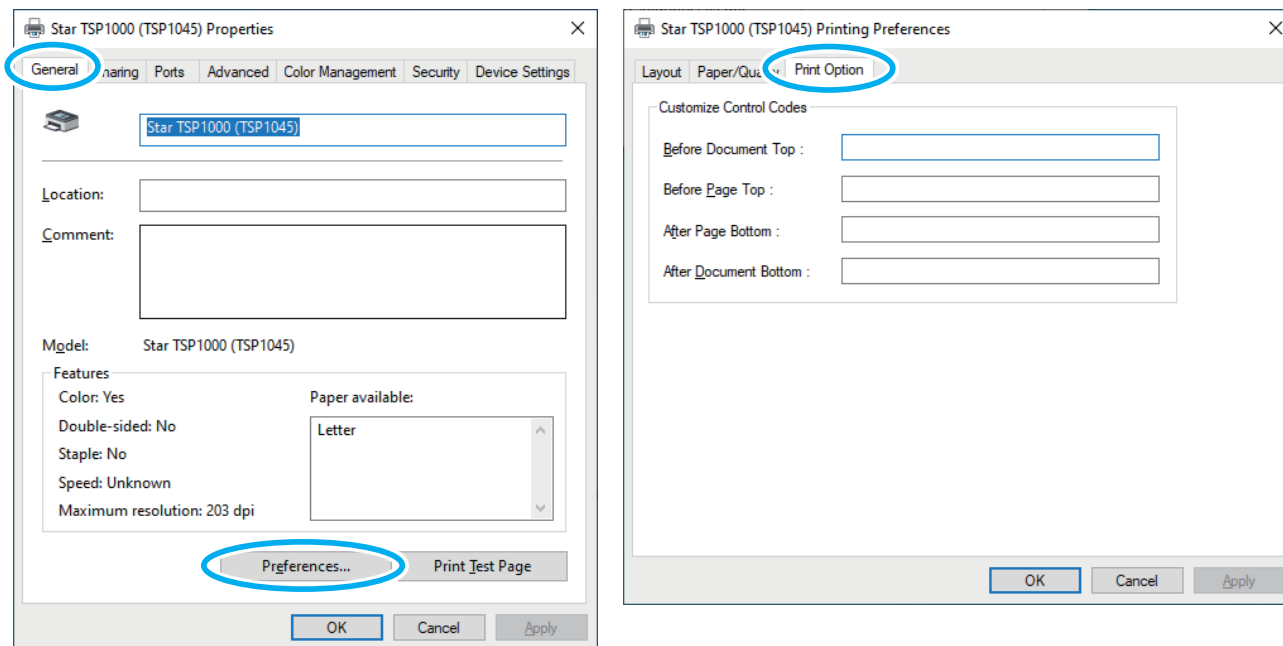
The following settings are available.

Setting	Default	Meaning
170 × 144 dots per inch	○	Print at 170 dpi(w) × 144 dpi(h) .
170 × 72 dots per inch		Print at 170 dpi(w) × 72 dpi(h) .
85 × 72 dots per inch		Print at 85 dpi(w) × 72 dpi(h) .

5. Setting the Print Option

By setting the print options, you can make the printer transmit control codes or character strings or both before and after printing.

To display the print options setup screen, on the printer's Properties dialog box, click the **General** tab, click **Preferences** to display the Printing Preferences dialog box, and then click the **Print Option** tab.



You can set the control codes that are transmitted at each of the following points in the printing process.

- Before Document Top
- Before Page Top *
- After Page Bottom *
- After Document Bottom

* These settings are only valid when the print mode is set to "Line."

To set the control codes, enter them in the text boxes that correspond to each point in the printing process according to the format shown below.

Character string :	Direct input
Control Code :	A number entered in hexadecimal format. \xhh (Specify a two-digit hexadecimal number in place of hh.)

< Example >

Input :	Shop Name \x0a Place \x0a Tel and Fax \x0a \x1b\x2d\x31 www.store-url.com \x1b\x2d\x30\x0a
Printed result :	Shop Name Place Tel and Fax <u>www.store-url.com</u>



• Use **Star Line Mode commands**.

• Up to 500 bytes worth of characters can be entered in each field.

6. Guidelines for Printing Documents

6.1 Notes for Printing via a Serial Interface

6.1.1 Checking the Print Mode

When you are using the serial interface to print from this driver, you must set Print Mode to “Line” for the following models.

Compatible models

- TSP600 / TSP700 / TSP800 / TUP900 / TSP1000



The “Raster” print mode is not supported if you are using the applicable models through the serial interface.

6.1.2 Configuring Printer and Serial Port Settings

Note also that printer settings and printer-port settings must be correctly matched.

For information, refer to the Star Inbox Driver Installation Manual for Windows10 (issued separately).

7. Revision History

Rev. No.	Date of Revision	Changes
Rev. 1.0	July. 2020	First edition



<https://www.starmicronics.com/support/>