Thermal Printer



Software Manual

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Introduction

This driver software runs on Windows 2000 (SP3 and later), XP, and Vista.

If you going to use Windows applications and are connecting by USB, please be sure to install the provided USB printer class driver. If you are planning to use OPOS applications over a USB connection, please install the USB vendor class driver. For instructions, see Chapter 1, "Installing/ Uninstalling," and follow the steps that apply to the your environment and intended usage.

1. Installing/Uninstalling

The installation steps vary according to the operating system. Therefore, refer to the section for the environment that you are using.

Caution: Administrator privilege is required to run the installation.

1.1 Installing (Windows 2000/XP)

To install the driver, proceed as follows.

Note: If you are connecting to the printer by USB, do not turn the printer on yet. First carry out the steps under Section 1.1.1,."Installing the Software." Then proceed to either Section 1.1.2, "Installing the USB Printer Class Driver" or to Section 1.1.4, "Installing the USB Vendor Class Driver," and turn on the power when instructed to do so.

1.1.1 Installing the Software

① Open the "Star_TUP500_Software_Ver1_0" folder (created when the "Star_TUP500_Software_Ver1_0.zip" file is unzipped) and start "Star_TUP500_Installer.exe".

The following window appears, and the wizard prepares to start the installation. The time required for installation may be longer than usual depending on the environment used.





② Click the **Next** button to proceed.



③ Type your user information.

After typing your user name and the name of your organization and selecting whether the installed program is to be available to all users of this computer or only to you, click the **Next** button.

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④ Select the setup type, either Typical or Custom. Use Custom if you wish to include installation of the virtual port emulator, or if you wish to suppress installation of features that you do not need. Otherwise, select Typical. Features included by a Typical installation are as indicated below. After selecting, click Next.

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Passe clieb a cebu type. © Erric d Alancyon Laters allow dates, Manya Lorendold Status	 Language monitor plug-in USB vendor class driver OPOS driver JavaPOS Setup utilities
deuss vielnerum, e bezaterne sont e state a state aveil avei	 Note that a Typical install will not install the following. (Use Custom if you wish to include this feature.) Virtual port emulator



⑤ Click the **Install** button to begin the installation.





Software installation is now completed.
 Click the Finish button to close the wizard.

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- ⑦ Now install the driver software that matches your interface and intended use. Proceed to one of the following sections, in accordance with your needs:
 - 1.1.2 Installing the USB Printer Class Driver
 - 1.1.3 Installing the Non-USB Printer Driver
 - 1.1.4 Installing the USB Vendor Class Driver



1.1.2 Installing the USB Printer Class Driver

To install the USB printer class driver, proceed as follows.

① Connect the printer, and then turn on the printer's power switch.

The computer's Plug and Play feature detects the connection of the printer hardware and automatically installs the driver software.

At this time, the following message will appear on the lower right of the Windows desktop.



② From the Windows Start menu, select Printers and Faxes and confirm that Star TUP500 Presenter (TUP592) or Star TUP500 (TUP542) appears in the folder. If the appropriate printer appears there, installation was completed successfully.





1.1.3 Installing the Non-USB Printer Driver

To install the non-USB driver, proceed as follows.

When using a TCP/IP interface, the port must be configured beforehand. For details, see Section 6.3, "Setting up a TCP/IP Printer Port."

 From the Windows Start menu, select Programs – StarMicronics – TUP500 – Utility – Add Printer Wizard (TUP500).



② In the Add Printer Wizard dialog box, click the Next button.



③ In the Local or Network Printer dialog box, select Local printer attached to this computer and uncheck Automatically detect and install my Plug and Play printer. Click the Next button to proceed.





④ In the Select a Printer Port dialog box, select the port to use, and then click the **Next** button.

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(5) Select the printer to install, and then click the **Next** button.

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(6) Specify the printer name that will be used after installation in Windows-based programs. Type the printer name if you wish to change it. Additionally, you may set the printer currently being installed as the default printer. Confirm the settings, and then click the Next button.

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⑦ Make the appropriate printer-sharing settings, and then click the **Next** button.



③ Select Yes to print a test page or No to not print one, and then click the Next button.

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Note: When using a serial port, do not print the test page. Confirm the printer and computer printer port settings when printing via a serial port. For details, see Section 5.1, "Notes for Printing via a Serial Interface."



(9) The settings are displayed. If the settings are correct, click the **Finish** button to add the printer.





① A From the Windows Start menu, select Printers and Faxes and confirm that Star TUP500 Presenter (TUP592) or Star TUP500 (TUP542) appears in the folder. If the appropriate printer appears there, installation was completed successfully.





1.1.4 Installing the USB Vendor Class Driver

To install the USB vendor class driver, proceed as follows.

① At the printer, set DIP switch 1-5 to OFF. Then connect the printer to the computer, and turn on the printer's power.

The computer's Plug and Play feature detects the connection of the printer hardware and automatically installs the USB vendor class driver software.

Point! For information about the printer's DIP switches, refer to the Product Specifications Manual (issued separately).

② From the Start menu, select Control Panel – System – Hardware – Device Manager and confirm that SMJ USB Device (COM*) appears under Ports (COM & LPT). If it does, installation has completed successfully.





1.2 Installing (Windows Vista 32-Bit Edition)

To install the driver, proceed as follows.

Note: If you are connecting to the printer by USB, do not turn the printer on yet. First carry out the steps under Section 1.2.1,."Installing the Software." Then proceed to either Section 1.2.2, "Installing the USB Printer Class Driver" or to Section 1.2.4, "Installing the USB Vendor Class Driver," and turn on the power when instructed to do so.

1.2.1 Installing the Software

- ① Open the "Star_TUP500_Software_Ver1_0" folder (created when the "Star_TUP500_Software_Ver1_0.zip" file is unzipped) and start "Star_TUP500_Installer.exe".
- ② In the User Account Control dialog box, click the Continue or Allow button.

The following window appears, and the wizard prepares to start the installation. The time required for installation may be longer than usual depending on the environment used.



③ Click the **Next** button to proceed.





④ Type your user information.

After typing your user name and the name of your organization and selecting whether the installed program is to be available to all users of this computer or only to you, click the **Next** button.

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here

(5) Select the setup type, either Typical or Custom. Use Custom if you wish to include installation of the virtual port emulator, or if you wish to suppress installation of features that you do not need. Otherwise, select Typical. Features included by a Typical installation are as indicated below. After selecting, click Next.



- A Typical installation will install the following features:

 Printer driver
 Language monitor plug-in
 USB vendor class driver
 OPOS driver
 JavaPOS
 Setup utilities

 Note that a Typical install will not install the following. (Use Custom if you wish to include this feature.)

 Virtual port emulator
- ⑥ Click the **Install** button to begin the installation.





⑦ If you have opted to install the virtual port emulator, the security window shown below will appear. Click Install this driver software anyway to continue the installation.



Software installation is now completed. Click the Finish button to close the wizard.



- ③ Now install the driver software that matches your interface and intended use. Proceed to one of the following sections, in accordance with your needs:
 - 1.2.2 Installing the USB Printer Class Driver
 - 1.2.3 Installing the Non-USB Printer Driver
 - 1.2.4 Installing the USB Vendor Class Driver



1.2.2 Installing the USB Printer Class Driver

To install the USB printer class driver, proceed as follows.

 Connect the printer, and then turn on the printer's power switch. The Plug and Play feature detects the connection of the printer hardware and automatically installs the driver software.



If installation was completed successfully, the following message will appear on the lower right of the Windows desktop.



② From the Windows Start menu, select Settings – Printers to display the printer setting dialog box. Confirm that Star TUP500 Present (TUP592) or Star TUP500 (TUP542) appears in the folder. If the appropriate printer appears there, installation was completed successfully.





1.2.3 Installing the Non-USB Printer Driver

To add a printer, proceed as follows.

When using a TCP/IP interface, the port must be configured beforehand. For details, see Section 6.3, "Setting up a TCP/IP Printer Port."

(1) From the Windows Start menu, select **Programs – StarMicronics – TUP500 – Utility**, right-click **Add Printer Wizard (TUP500)**, and then select **Run as administrator**.

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- ② In the User Account Control dialog box, click the Continue or Allow button.
- ③ In the Choose a local or network printer dialog box, click Add a local printer.





④ In the Choose a printer port dialog box, select the port to use, and then click the **Next** button.

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⑤ Select the printer to install, and then click the **Next** button.

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(6) Specify the printer name that will be used after installation in Windows-based programs. Type the printer name if you wish to change it. Additionally, you may set the printer currently being installed as the default printer. Click the Next button to begin the installation.

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⑦ Make the appropriate printer-sharing settings, and then click the **Next** button.

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(a) If installation was completed successfully, the following dialog box will appear. To print a test page, click the **Print a test page** button. Click the **Finish** button to complete the installation.

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Note:When using a serial port, do not print the test page.Confirm the printer and computer printer port settings when printing via a serial port.For details, see Section 5.1, "Notes for Printing via a Serial Interface."



③ From the Windows Start menu, select Settings – Printers to display the printer setting dialog box. Confirm that Star TUP500 Presenter (TUP592) or Star TUP500 (TUP542) appears in the folder. If the appropriate printer appears there, installation was completed successfully.





1.2.4 Installing the USB Vendor Class Driver

To install the USB vendor class driver, proceed as follows.

(1) At the printer, set DIP switch 1-5 to OFF. Then connect the printer to the computer, and turn on the printer's power. The computer's Plug and Play feature detects the connection of the printer hardware and automatically installs the USB vendor class driver software.

Point! For information about the printer's DIP switches, refer to the Product Specifications Manual (issued separately).

(2) From the Start menu, select Settings – Control Panel – Device Manager and confirm that SMJ USB Device (COM*) appears under Ports (COM & LPT). If it does, installation has completed successfully.





1.3 Installing (Windows Vista 64-Bit Edition)

If you are using OPOS on a 64-bit Windows system, you must install the separate OPOS standalone package. To enable installation of the package, open the "Star_TUP500_Software_Ver1_0" folder (created when the "Star_TUP500_Software_Ver1_0.zip" file is unzipped) and unzip the file named "Win2K_XP_Vista\Driver\OPOS_POSPrinter_1.8.8_ Win32_yyyymmdd.zip" (where yyyymmdd gives the most recent date). Note that the installed OPOS driver runs on 32-bit OPOS applications.

Installation depends on the interface and applications you will be using. Proceed to one of the following sections, in accordance with your needs.

- 1.3.1 Installing the USB Printer Class Driver
- **1.3.2 Installing the Non-USB Printer Driver**
- 1.3.3 Installing the USB Vendor Class Driver

1.3.1 Installing the USB Printer Class Driver

To install the USB printer class driver, proceed as follows.

- Connect the printer, and then turn on the printer's power switch. The Plug and Play feature detects the connection of the printer hardware and automatically starts installing the driver software.
- ② In the following dialog box, click Locate and install driver software (recommended).



③ In the User Account Control dialog box, click the Continue or Allow button. Installation begins.

The time required for installation may be longer than usual depending on the environment used.



④ If the following window appears, click Don't search online.



(5) When the following window appears, click I don't have the disc Show me other options.



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⑦ Click Browse. Under the "Star_TUP500_Software_Ver1_0" folder (created when you unzipped "Star_TUP500_ Software_Ver1_0.zip"), select "Win2k_XP_Vista\Driver\PrinterDriver_Vista_XP_2k", and click Next.



(a) Make the appropriate printer-sharing settings, and then click the **Next** button.

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③ If installation was completed successfully, the following dialog box will appear. Click the Close button to complete the installation.



From the Windows Start menu, select Settings – Printers to display the printer setting dialog box. Confirm that Star TUP500 Presenter (TUP592) or Star TUP500 (TUP542) appears in the folder. If the appropriateprinter appears there, installation was completed successfully.

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1.3.2 Installing the Non-USB Printer Driver

To install the non-USB driver, proceed as follows. When using a TCP/P interface, the port must be configured

When using a TCP/IP interface, the port must be configured beforehand. For details, see Section 6.3, "Setting up a TCP/IP Printer Port."

① From the Windows Start menu, select **Settings – Printers**.

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Right-click over a blank area in the Printers folder to open the drop-down menu, and select Run as administrator – Add Printer.



③ Click Add a local printer.

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④ In the Choose a printer port dialog box, select the port to use, and then click the **Next** button.

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⑤ In the Install the printer driver dialog box, click the **Have Disk** button.

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6 At the Install From Disk window, click Browse to open the Locate File window. Under the "Star_TUP500_Software_Ver1_0" folder (created when you unzipped "Star_TUP500_Software_Ver1_0.zip"), open "Win2K_XP_Vista\Driver\PrinterDriver_Vista_XP_2K", select "smjt500.inf", and click Open.

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⑦ Click the **OK** button.



(a) In the Install the printer driver dialog box, select the printer to use, and then click the **Next** button.

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③ Specify the printer name that will be used after installation in Windows-based programs. Type the printer name if you wish to change it. Additionally, you may set the printer currently being installed as the default printer. Click the Next button to begin the installation.

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	Type a printer name Entername	
	This printer will be installed with the Ster TUF500 Presenter (TUF502) driver,	
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In the User Account Control dialog box, click the Continue or Allow button. The printer is installed.

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 If installation was completed successfully, the following dialog box will appear. To print a test page, click the **Print** a test page button. Click the **Finish** button to complete the installation.

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	You've successfully added Star TUP500 Presenter (TUP592)
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- **Note:** When using a serial port, do not print the test page. Confirm the printer and computer printer port settings when printing via a serial port. For details, see Section 5.1, "Notes for Printing via a Serial Interface."
- Prom the Windows Start menu, select Settings Printers to display the printer setting dialog box. Confirm that Star TUP500 Presenter (TUP592) or Star TUP500 (TUP542) appears in the folder. If the appropriate printer appears there, installation was completed successfully.





1.3.3 Installing the USB Vendor Class Driver

To install the USB vendor class driver, proceed as follows.

 At the printer, set DIP switch 1-5 to OFF. Then connect the printer to the computer, and turn on the printer's power. The computer's Plug and Play feature detects the connection of the printer hardware and automatically installs the USB vendor class driver software.

Point! For information about the printer's DIP switches, refer to the Product Specifications Manual (issued separately).

② In the following dialog box, click Locate and install driver software (recommended).



③ In the User Account Control dialog box, click the Continue or Allow button. Installation begins.

The time required for installation may be longer than usual depending on the environment used.

④ If the following window appears, click **Don't search online**.

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Alk	w Windows to search online for driver software for your Unknown Device?
15	Yes always search colline (incommanded)
1	Windows will externationly search for the taxat drivers and applications for your hardware and download them to your computer.
-	Yes, search online this time only
	Windows will search for the latest drivers and applications for this desire and download there to your computer.
4	Eon'r scaeth online
-	Your device may not handben property analypea get the latest software.
No.	a naz Marsar X. anves: daignari



(5) Click Browse my computer for driver software (advanced).



6 Click Browse. Under the "Star_TUP500_Software_Ver1_0" folder (created when you unzipped "Star_TUP500_ Software_Ver1_0.zip"), select "Win2k_XP_Vista\Driver\USB_VendorClassDriver_Vista_XP_2k", and click Next.

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Browse for driver software on your computer	Tanase for False
Search for dilver ophware in this inclusion	Select the follow that contains drivers for your handware.
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The computer installs the driver software.

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Installing driver software.	

⑦ If installation was completed successfully, the following dialog box will appear. Click the Close button to complete the installation.

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The software for this device has been successfully installed	
Windows but this deal installing the driver software for this device	
ShUU55 Device	
	_
	Store-

③ From the Start menu, select Settings – Control Panel – Device Manager and confirm that SMJ USB Device (COM*) appears under Ports (COM & LPT). If it does, installation has completed successfully.





1.4 Uninstalling

1.4.1 Windows 2000/XP

To uninstall the driver, proceed as follows.

Point! If you have been using the USB vendor class driver, please read the "readme_En.txt" file (included in the ZIP file with the drivers) before uninstalling.

- ① Turn off the power switch of the TUP500.
- ② From the Windows Start menu, select Programs StarMicronics TUP500 Uninstall.



③ When the following confirmation dialog box appears, click the Yes button to continue.

Win	rees histally:	-
	Augu accounting our heperiod	

④ The uninstaller launches to remove all of the TUP500 software from your computer.





1.4.2 Windows Vista 32-Bit Edition

To uninstall the driver, proceed as follows.

Point! If you have been using the USB vendor class driver, please read the "readme_En.txt" file (included in the ZIP file with the drivers) before uninstalling.

- ① Turn off the power switch of the TUP500.
- ② From the Windows Start menu, select Programs StarMicronics TUP500, right-click Uninstall, and then select Run as administrator.



③ In the User Account Control dialog box, click the Continue or Allow button.

When the following confirmation dialog box appears, click the Yes button to continue.

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④ If the following window appears, select **Do not close applications**, and click **OK**.

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sclup is concide			
Do not close and call	na 16 Januar	with white	0

(5) If the following window appears, click **OK**.



(6) The uninstaller launches to remove all of the TUP500 software from your computer.

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and the second se	Lotet


1.4.3 Windows Vista 64-Bit Edition

To uninstall the driver, proceed as follows.

Point! If you have been using the USB vendor class driver, please read the "readme_En.txt" file (included in the ZIP file with the drivers) before uninstalling.

- ① Turn off the power switch of the TUP500.
- ② From the Windows Start menu, select Settings Printers to open the printers folder. Right-click the Star TUP500 printer icon, and then select Run as administrator – Delete.

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_		1	Pause Printing	Sharing
		1	Sharing	Use Printer Office
			Use Printer Offine	Dalete
			Bafresh	Properties
			Create Shortout	-
			Delete	
			Rename	
			Properties	1

- ③ In the User Account Control dialog box, click the Continue or Allow button.
- ④ When the following confirmation dialog box appears, click the Yes button to continue.

want to delete the printer senter (TUP592) ?



⑤ Right-click a blank area in the printers folder, and then select Run as administrator – Server Properties.



- (6) In the User Account Control dialog box, click the Continue or Allow button.
- In the Print Server Properties dialog box, click the Drivers tab.
 Select the Star TUP500 printer from Installed printer drivers, and then click the Remove button.

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③ The dialog box to select the deletion method will appear. Select Remove driver and driver package, and then click the OK button.



(9) When the following confirmation dialog box appears, click the **Yes** button to continue.



⁽¹⁾ The following dialog box will appear. Click the **Delete** button to continue.



Note: If the dialog box shown in step (1) does not appear after performing step (1), the driver(s) and driver package(s) were not deleted successfully. Restart the computer, and then perform the uninstalling procedure again from step (5).



(1) If the driver(s) and driver package(s) were deleted, the following dialog box will appear. Click the **OK** button.

Fernine Diter Parrage	
Driver package deleter,	-
Entre: Star TUF 500 Presenter (TUP 522) was nervowed. Rechage an (#500, nr was nervoued.	-
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If the Star TUP500 printer no longer appears in the following Print Server Properties dialog box, the uninstalling procedure was completed successfully. Click the Close button to close the dialog box.

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2. Features

2.1 TUP500 Printer Driver

This driver can be used to set basic printing functions, such as the print mode and paper types, and it can also be used to make graphic logo settings and advanced settings for peripheral units (presenter, snout).

2.2 Star TUP500 Configuration Utility

The Star Configuration Utility provides an easy way to set the printer's memory switches, to register graphic logos, and to make other such hard print settings.

It also offers an easy way to set up an Ethernet interface card.

Also, note that you may choose to install the utility only, without also installing the driver software.

Note: This function is supported by Windows 2000 (SP3 or later)/XP/Vista 32-bit edition.

2.3 **OPOS Driver**

OPOS (Open Point of Service) is an architecture supporting Win32-based POS access. The architecture makes it easy for Windows-based POS systems to access POS peripherals.

The OPOS driver makes it easy for the printer not only to output data to peripherals but also to read the current operating status of peripherals. In addition, the driver enables use of any of the many existing OPOS-compliant applications.

The driver provided here conforms to OPOS Version 1.8.

For more information, refer to the separate OPOS Manual. After installing the OPOS driver, you will find the manual in the following directory:

/Program Files/StarMicronics/OPOS POSPrinter Register/OPOSPrinterADG(US).doc



2.4 JavaPOS Driver

JavaPOS (Java for Retail Point of Sale) is an architecture that supports access to Java-based POS peripherals. It offers the same kind of advantages as OPOS while adding the extra advantage of platform independence. Another advantage is support for inexpensive system configurations, since the minimal requirements for a Java virtual computer environment are quite low.

The driver provided here is fully compliant with Version 1.4 of the JavaPOS standards, as established by the Java for Retail POS standards committee.

To use this driver with JavaPOS applications, it is recommended that you use Java Runtime Environment (JRE) 1.5 or later.

To use the driver on Java Runtime Environment (JRE) 1.4 or earlier, you must specify the following command-line option.

-Dsmj.dllpath=<absolute path to the folder that contains StarIOPort.dll - StarIOJ.dll>

This DLL file is located in the following folder if you did not change the default installation folder.

Program Files\StarMicronics\TUP500\Software\JavaPOS

Command-line option example:

java -Dsmj.dllpath="C:\Program Files\StarMicronics\TUP500\Software\JavaPOS" application.class

2.5 Virtual Port Emulator

By using this software, printers equipped with a USB interface card or Ethernet interface card can be used with applications that support only serial printers.

Note: Some applications do not support this feature. This function is supported by Windows 2000 (SP3 or later)/XP/Vista 32-bit edition.

2.6 Printer-Status Setting Tool

You can use this software to obtain status information about the TUP500 printer.



3. Windows 2000/XP/Vista Printer Driver Settings

The driver supports two print modes: Raster mode and Line mode.

The default mode for this driver is **Raster mode**.

When printing via a USB interface, it is recommended to select **Raster mode**, and when printing via a serial interface, it is recommended to select **Line mode**.

Notable differences between these two modes are as follows.



- Prints graphics at high speed.
- Line
- Suitable for reverse printing.

• Supports device fonts.

• Suitable for printing barcode device fonts.

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

	Raster	Line
Paper Type	Yes	Yes
Detect Black-Mark Position at Power-On	Yes	Yes
Feeding	Yes	No
Page Cut	Yes	Yes
Print Speed	Yes	Yes
Print Density	Yes	Yes
Reverse printing	Yes	No
Document Top/Bottom Logos	No	Yes
Page Top/Bottom Logos	No	Yes
Presenter Mode	Yes	Yes
Snout Function	Yes	Yes
Print Quality	Yes	No
2-Color Printing	Yes	No
Device Font	No	Yes
Control Font	No	Yes
Barcode Font	No	Yes
2-Dimensional Barcodes	No	Yes
Note: Some of the above operations are mutuall Device Settings tab, refer to Section 3.2 and	y exclusive. If a	ark appears in the

Point! 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.



3.1 Printer-Status Setting Tool

This software allows you to set the system so that you can get printer status. To open the setting tool's dialog, proceed as follows.

- ① On Windows 2000 and XP, go to the Start menu and open **Printers and Faxes**. On Windows Vista, go to the Start menu and select **Settings Printers**.
- ② In the folder that opens, right-click the TUP500 printer icon. From the drop-down menu, select Properties (if Windows 2000 or XP) or select Run as administrator Properties (if Vista).
- ③ If you are using Windows Vista, the User Account Control dialog appears. Click Continue.
- ④ At the **Properties** dialog, click the **TUP500 Config** tab, and click **Launch Printer Status Setting Tool**.

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Timeout (5-640):	าสม	đ	[second]

Background Status

Check the Enable box to enable acquisition of status information ("cover open", "offline", etc.). The default is Disable.

Caution: Status acquisition is not available if you are using the USB vendor class driver. If you are using such an environment, the Enable setting has no meaning.

Timeout

The timeout value sets the maximum time that the printer will wait to resume printing after paper runs out or some other problem occurs that interrupts the data flow. If the problem is corrected within the timeout period, the printer will resume printing from where it left off. If using the TUP592 presenter, please set the timeout time so that it is longer than the presenter retraction time. The default timeout is 180 seconds.

Caution: If the problem is not corrected within the timeout period, an error message appears and the remaining print data is deleted.



3.2 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 Windows 2000 and XP, go to the Start menu and open **Printers and Faxes**. On Windows Vista, go to the Start menu and select **Settings Printers**.
- ② In the folder that opens, right-click the TUP500 printer icon. From the drop-down menu, select Properties (if Windows 2000 or XP) or select Run as administrator Properties (if Vista).
- ③ If you are using Windows Vista, the User Account Control dialog appears. Click Continue.
- ④ At the **Properties** dialog, click the **Device Settings** tab.

General	Sharing Ports	Advanced		
Color Managem	ent Device Settings	TUP500 Config		
🌶 Star TUP500	Presenter (TUP592) Device Sett	ings 🛛 🖌		
🗃 🎒 Form To	Tray Assignment			
FRIC	TION: Letter	~		
🚽 🚮 Installabl	le Options			
Print	Mode: <u>Raster</u>			
Pape	r Type: <u>Receipt</u>			
Black	Mark Detect at Power On: <u>Disal</u>	<u>ble</u>		
Top Search: <u>Disable</u>				
Print	Speed: <u>High</u>			
Print	Density: <u>Standard</u>			
Reve	erse Printing: <u>Disable</u>			
Docu	iment Top Logo: <u>No Logo Printed</u>	-		
Page	Top Logo: <u>No Logo Printed</u>			
Page	Bottom Logo: <u>No Logo Printed</u>			
Docu	iment Bottom Logo: <u>No Logo Prin</u>	ited		
Prese	enter Mode: <u>Loop - Hold - Retrac</u>	<u>t</u>		
Prese	enter Retract Time: <u>Do Not Retra</u>	act 🛽		

Point! Available device settings vary according to whether operation is in Raster mode or Line mode. In the following explanations, **Raster** and **Line** appear to the right of the setting name to indicate the mode to which the setting applies.



Thermal Printer TUP500

3.2.1

Setting	Default	Meaning
Raster	0	Sets Raster mode.
Line		Sets Line mode.

Setting the Paper Type

Changes the paper type setting.

Explanation of Device Settings

Setting	Default	Meaning
Receipt	0	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.

Point! If you would like to generate journal-type printing (with no page breaks) when using the TUP542: Set the paper type to "Receipt", and set the paper size to a "receipt" length (for example "72 mm×Receipt") as explained in Section 3.4.1, "Standard Sizes".

Enabling/Disabling Black Mark Detection

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

Setting	Default	Meaning
Disable	0	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.

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

(Raster)





SoftwareManual

• Feeding

Selects whether the printer executes a reverse-feed after cutting the paper.

Setting	Default	Meaning
Disable	0	No reverse-feed after cutting. (Top margin is 11 mm.)
Enable		Executes reverse-feed after cutting. (Top margin is 3 mm.)

Note: This setting is effective only in Raster print mode.

• Page Cut Type (TUP542 only)

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

Setting	Default	Meaning
No Cut	0	Printer does not feed or cut paper.
Full Cut		Printer feeds paper to the cut position, and then cuts it (full cut).

• Document Cut Type (TUP542 only)

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

Setting	Default	Meaning
No Cut	0	Printer does not feed or cut paper.
Full Cut		Printer feeds paper to the cut position, and then cuts it (full cut).

• Cut Type (TUP592 only)

Sets the cut type.

Setting	Default	Meaning
Full Cut All Pages	0	Cuts all pages. (Feeds each page to the cut position, then cuts it.)
Full Cut Last Page		Cuts last page of document when that page reaches the cut position. (Does not cut each page.)



(Raster) Line



(Raster)

Raster



(Raster) Line

(Line)

Print Speed

(Raster) Line

Setting	Default	Meaning
Standard	0	Priority is given to print speed over print quality.
Middle		Sets print quality and print speed to intermediate level.
Low		Provides the highest print quality but lowers print speed.
High		Gives maximum priority to print speed. Speed is limited by paper width and by diameter of paper roll.
Note: 1) 7	Γhe Print Spe s set to 203×	eed setting is ignored (and fixed speed will be used) if print quality 406 dpi, or if printing is in color.
2) A F (Available spe paper type. F (issued separa	ed settings may vary according to paper width, roll diameter, and for more information, refer to the Product Specifications Manual ately).

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

Print Density

Sets the print density.

Setting	Default	Meaning
-3 to -1		Larger value with – (minus) makes print density lighter.
Standard	0	Prints with normal density.
+1 to +3		Larger value with + (plus) makes print density darker.

Note: When setting up color printing, this density setting has no effect on black print density (which is fixed).

Reverse Printing

Set this to **Enable** if you wish to rotate printing 180 degrees.

Setting	Default	Meaning
Disable	0	Prints normally.
Enable		Printing is inverted, top to bottom.

Note: This setting is effective only in Raster print mode.



Raster

(Raster)

Line

Ĺine

Document Top Logo

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. Refer to Section 4.1.2, "NVLogo".

Setting	Default	Meaning
No Logo Printed	0	No logo printed at the document top.
Print Logo 1,, 10		Prints the selected logo at the document top.

Note: This setting is effective only in Line print mode.

Page Top Logo

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. Refer to Section 4.1.2, "NVLogo".

Setting	Default	Meaning
No Logo Printed	0	No logo printed at the page top.
Print Logo 1,, 10		Prints the selected logo at the page top.

Note: This setting is effective only in Line print mode.

Page Bottom Logo

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. Refer to Section 4.1.2, "NVLogo".

Setting	Default	Meaning
No Logo Printed	0	No logo printed at the page bottom.
Print Logo 1,, 10		Prints the selected logo at the page bottom.

Note: This setting is effective only in Line print mode.



Line



Line

Document Bottom Logo

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. Refer to Section 4.1.2, "NVLogo".

Setting	Default	Meaning
No Logo Printed	0	No logo printed at the document bottom.
Print Logo 1,, 10		Prints the selected logo at the document bottom.

Note: This setting is effective only in Line print mode.

Presenter Mode (TUP592 only)



Sets the presenter operation.

Setting	Default	Meaning
Loop-Hold-Retract	0	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 pa- per 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.

Note: 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 (TUP592 only)



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

Setting	Default	Meaning
Do not Retract	0	Holds paper until it is removed.
$1 \sim 125$ 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.

Note: 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. If the timeout time elapses, the printer will display an error message and will delete any remaining data. For details, refer to Section 3.1, "Printer-Status Setting Tool."



• Snout Control (TUP592 only)

(Raster) Line

(Raster)

Raster

Line

Line

Sets the snout LED operation.

Setting	Default	Meaning
Disable	0	Snout not used.
Snout LED GREEN Enable		Green LED blinks during printing.
Snout LED RED En- able		Red LED blinks when error occurs (paper out, etc.).
Snout LED GREEN and RED Enable		Green LED blinks during printing, and red LED blink when error occur. (paper out, etc.)
 [· · · · · · · · · · · · · · · · · · ·

Note: Snout LEDs are optional devices.

Snout LED GREEN Interval (TUP592 only)

Sets the blink interval for the green LED.

Setting	Default	Meaning
Default (100 millisec- onds)	0	Blink every 100 ms.
200 milliseconds		Blink every 200 ms.
500 milliseconds		Blink every 500 ms.
1000 milliseconds		Blink once per second.

Snout LED RED Interval (TUP592 only)

Sets the blink interval for the red LED.

Setting	Default	Meaning
Default (100 millisec- onds)	0	Blink every 100 ms.
200 milliseconds		Blink every 200 ms.
500 milliseconds		Blink every 500 ms.
1000 milliseconds		Blink once per second.



3.3 Setting the Print Quality

Raster

To open the dialog, proceed as follows.

- ① On Windows 2000 and XP, go to the Start menu and open **Printers and Faxes**. On Windows Vista, go to the Start menu and select **Settings Printers**.
- ② Right-click the print driver that you wish to set. In the drop-down menu, click Printing Preferences.
- ③ Click the Layout tab, and then click the Advanced button.

着 Star TUPSCO Presenter (TUPS	92) Plinting Preferences 🛛 🔞 🔯
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	الدينية) الجن المحمد المحمد

④ At the Advanced Options dialog, set Graphic — Print Quality to the desired setting.



The following settings are available.

Setting	Default	Meaning
203×406 dots per inch		Print at 203 dpi (w) × 406 dpi (h).
203×203 dots per inch	0	Print at 203 dpi (w) × 203 dpi (h).

Note: The 203×406-dpi setting is effective only in Raster print mode and only if color printing has been disabled.



Line

Raster

3.4 Setting the Paper Size

The TUP500 drivers let you use both preset standard sizes and custom, user-defined sizes.

3.4.1 Standard Sizes

The paper size can be selected separately for each driver. To proceed, open the driver's Properties window and click the **Device Settings** tab.

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- Prode	second time is	CONT HERE TWO		

The following table shows the predefined paper sizes available for the TUP500 driver.

Setting	Default	Print Width	Length
51mm × 200mm		51mm	200mm
51mm × Receipt		51mm	3,000mm
$68 \text{mm} \times 200 \text{mm}$		68mm	200mm
68mm × Receipt		68mm	3,000mm
72mm × 200mm		72mm	200mm
72mm × Receipt		72mm	3,000mm
80mm × 200mm		80mm	200mm
80mm × Receipt		80mm	3,000mm
A4		210mm	297mm
Letter	0	8.5 inch	11 inch

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

Point! When using the TUP542, you can generate journal-type printing (printing without page breaks) by setting the paper type to Receipt and setting the paper size to a "receipt" length.

Caution: If selecting a receipt size for use with the presenter, be sure to select so that the output length of a single sheet does not exceed 300mm.



3.5 User-Defined Paper Settings



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

- ① On Windows 2000 and XP, go to the Start menu and open **Printers and Faxes**. On Windows Vista, go to the Start menu and select **Settings Printers**.
- ② Right-click over a blank area in the Printers folder to open the drop-down menu. If using Windows 2000 or XP, select Server Properties from the menu. If using Windows Vista, select Run as administrator Server Properties.
- ③ If you are using Windows Vista, the User Account Control dialog appears. Click Continue.
- ④ Click the **Forms** tab.
- (5) Select the **Create a new form** check box.
- ⑥ In the Form name textbox, overwrite the current name with a new name for the custom size you are defining.
- ⑦ In the Form description (measurements) area, select the appropriate Units and type the desired Width and Height settings.

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

(a) Click the Save Form button. Click the OK button to close the dialog box.





Available paper sizes are as follows.

	Wi	dth	Height			
	Minimum	Maximum	Minimum	Maximum		
TUP592	25.4 mm	80.0 mm	75.0 mm	300.3 mm		
TUP542	25.4 mm	80.0 mm	25.4 mm	3276.7 mm		

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



3.6 Setting the Print Color and Paper Type

The TUP500 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 On Windows 2000 and XP, go to the Start menu and open **Printers and Faxes**. On Windows Vista, go to the Start menu and select **Settings Printers**.
- ② In the folder, right-click the **Star TUP500** icon, and select **Printing Preferences** to open the printer's Printing Preferences dialog box.
- ③ Click the **Paper/Quality** tab.

Select the paper type appropriate for the specified print color.

Selecting the paper type and print color:

ray Selaction	Distances and Di
Peper Source	Automatically Select
Macia	normal type paper
	- remailing using
2003	Z calci paga Pich made stability paper
26	BRACK STUDIO
10	

■ 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.





3.7 Device Fonts

Line

The TUP500 printer driver provides device fonts that can be used during operation in Line mode. As these fonts were designed specifically to match the characteristics of the printer, they offer clearer printing than TrueType fonts. Furthermore, device fonts for this driver are compatible with device fonts for the Star POS series printers, TSP600/TSP700/TSP800/TSP1000 series, so the same printing results can be obtained.

Note: Select the proper height when using device fonts.For two-color printing, refer to "3.6 Selecting the Print Color and Paper Type" for setup.

Fonts	Width (pixels)	Height (pixels)	Columns at 72 mm (576 dots)	Meaning
Printer 17cpi	12	24	48	Thermal printer fonts
Printer 8.5cpi	24	24	24	
Printer 17cpi Tall	12	48	48	
Printer 8.5cpi Tall	24	48	24	
Printer 16cpi	13	24	44	
Printer 8cpi	26	24	22	
Printer 16cpi Tall	13	48	44	
Printer 8cpi Tall	26	48	22	
Printer 14cpi	15	24	38	
Printer 7cpi	30	24	19	
Printer 14cpi Tall	15	48	38	
Printer 7cpi Tall	30	48	19	
Printer 17cpi (RED)	12	24	48	
Printer 8.5cpi (RED)	24	24	24	
Printer 17cpi Tall (RED)	12	48	48	
Printer 8.5cpi Tall (RED)	24	48	24	
Printer 16cpi (RED)	13	24	44	
Printer 8cpi (RED)	26	24	22	
Printer 16cpi Tall (RED)	13	48	44	
Printer 8cpi Tall (RED)	26	48	22	
Printer 14cpi (RED)	15	24	38	
Printer 7cpi (RED)	30	24	19	
Printer 14cpi Tall (RED)	15	48	38	
Printer 7cpi Tall (RED)	30	48	19	



Fonts	Width (pixels)	Height (pixels)	Columns at 72 mm (576 dots)	Meaning
Control	12	24	48	Control fonts
ESC_FONT	1	24	576	
ESC_FONT_KANJI	2	24	288	
UPC-E	12	24	48	Barcode fonts
UPC-A	12	24	48	
JAN/EAN-8	12	24	48	
JAN/EAN-13	12	24	48	
CODE39	12	24	48	
ITF	12	24	48	
NW-7(Codaber)	12	24	48	
QR-CNTL	1	24	576	2D code fonts
PDF417	1	24	576	
DATA1	1	24	576	
DATA2	1	24	576	
DATA3	1	24	576	



3.8 Control Fonts

Line

The TUP500 printer driver provides a control font that can be used during operation in Line mode. The control font is used to execute various printer actions, and is not used for printing. Each character is the font is associated with a particular action.

3.8.1 Control Font Characters and Their Operations

The operations that can be executed through the control font are shown below.

Character	Operation
А	Drive cash drawer 1 (50 ms)
В	Drive cash drawer 1 (100 ms)
С	Drive cash drawer 1 (150 ms)
D	Drive cash drawer 1 (200 ms)
Е	Drive cash drawer 1 (250 ms)
d	Drive cash drawer 2 (200 ms)
6	Output LF
7	Output CR
F	Auto-cutter: Full-cut
Р	Auto-cutter: Partial-cut
G	Print NV Bit Image 1 in regular mode
Н	Print NV Bit Image 2 in regular mode
Ι	Print NV Bit Image 3 in regular mode
J	Print NV Bit Image 4 in regular mode
К	Print NV Bit Image 5 in regular mode
Q	Print NV Bit Image 1 in double-width mode
R	Print NV Bit Image 2 in double-width mode
S	Print NV Bit Image 3 in double-width mode
Т	Print NV Bit Image 4 in double-width mode
U	Print NV Bit Image 5 in double-width mode
V	Print NV Bit Image 1 in double-height mode
W	Print NV Bit Image 2 in double-height mode
Х	Print NV Bit Image 3 in double-height mode
Y	Print NV Bit Image 4 in double-height mode
Z	Print NV Bit Image 5 in double-height mode
[Print NV Bit Image 1 in 4x mode
]	Print NV Bit Image 2 in 4x mode
^	Print NV Bit Image 3 in 4x mode
_	Print NV Bit Image 4 in 4x mode



Character	Operation
`	Print NV Bit Image 5 in 4x mode
а	Align left
b	Align center
с	Align right
e	Set new line to 3 mm (1/8 inch)
f	Set new line to 4 mm (1/6 inch)
g	International character select: USA
h	International character select: France
i	International character select: Germany
j	International character select: England
k	International character select: Denmark I
1	International character select: Sweden
m	International character select: Italy
n	International character select: Spain I
0	International character select: Japan
р	International character select: Norway
q	International character select: Denmark II
r	International character select: Spain II
s	International character select: Latin America
t	Print using black/white inversion
u	Cancel black/white inversion
v	Customer display: Start data transfer
W	Customer display: End data transfer
X	Customer display: Display clear

Note: The printer ignores control font characters that it does not support.



3.8.2 Using the Control Font

The following is an example of how to use the control font.

(1) Select the **Control** font from the font list.



Note: When using device fonts with Microsoft Word, refer to "5.2 Notes for Using Microsoft Word".



② Input the character for each operation you wish to execute (refer to Section 3.8.1, "Control Font Characters and Their Operations").



③ Print.

In this example, the printer executes a linefeed and then prints **ABC** at the center of the page.

<Print Sample>

	ABC	



Line

3.9 Barcode Fonts

The TUP500 printer driver's barcode fonts are available for use during operation in Line mode. Select barcode fonts and enter the code to generate and print the barcode. When printing a barcode image is printed, and then notations are printed under the barcode image.

Barcode images do not appear in the window of the application.

3.9.1 Barcode Font List

The table below shows supported types of barcode fonts and available types of characters.

Barcode Type	Character Columns	Available Character Set
UPC-E	12 columns	Value: 0 to 9
UPC-A	12 columns	Value: 0 to 9
JAN/EAN-8	8 columns	Value: 0 to 9
JAN/EAN-13	13 columns	Value: 0 to 9
CODE39	More than 1 column	Value: 0 to 9 Symbol: -, ., <sp>, \$, /, +, % Alphabet: A to Z Start/stop code: * (*1)</sp>
ITF	More than 2 column (even number)	Value: 0 to 9
NW-7 (Codaber)	More than 1 column	Value: 0 to 9 Symbol: -, \$, :, /, ., +, Alphabet: A to D

*1) Start/stop code is automatically entered, so there is no need to specify it when entering the code.





3.9.2 Entering the Barcode Font

Enter barcode fonts in the following format.

Enter "z", which is the final character of the barcode font, at the end of the code.

e.g., For CODE39



For details of each parameter, refer to Barcode Font Parameter List on the next page.



Barcode Font Parameter List

	Operation			Remarks
Character to use barcode font	UPC-E, UPC-A JAN/EAN-8, JAN/EAN-13	CODE39 NW-7 (*1)	ITF (*1)	UPC-E, UPC-A JAN/EAN-8, JAN/EAN-13
а	2 dots	2 dots (6)	2 dots (5)	Minimum module width
b	3 dots	3 dots (9)	4 dots (10)	Minimum module width
с	4 dots	4 dots (12)	6 dots (15)	Minimum module width
d		2 dots (5)	2 dots (4)	Minimum module width
e		3 dots (8)	4 dots (8)	Minimum module width
f		4 dots (10)	6 dots (12)	Minimum module width
g		2 dots (4)	2 dots (6)	Minimum module width
h		3 dots (6)	3 dots (9)	Minimum module width
i		4 dots (8)	4 dots (12)	Minimum module width
0	Barcode height: 32 dots (4 mm)			
р	Barcode height: 64 dots (8 mm)			
q	Barcode height: 96 dots (12 mm)			
r	Barcode height: 128 dots (16 mm)			
S	Barcode height: 160 dots (20 mm)			
t	Barcode height: 192 dots (24 mm)			
u	Barcode height: 224 dots (28 mm)			
V	Barcode height: 255 dots (31.9 mm)			
Z	Ending code of barcode data (1 EH)			

*1) Number in () means number of dots with thick pattern.



3.9.3 Using the Barcode Font

The following is an example of how to set and use barcode fonts.

① Select the device font with the barcode name from the font list. In the following example, select the barcode font of **CODE39**



Microsoft Word".



② Enter codes.

Also, set the font height. (For CODE39, set the font height to "8.5".)



③ Print.

When printing, a barcode is generated and printed out.

<Print Sample>





3.10 Two-dimensional Code Printing Function (two-dimensional code font)



The TUP500 Receipt driver, when operating in Line mode, is capable of printing QR and PDF417 bar codes through use of the appropriate TUP500 device fonts.

To print QR code/PDF417, use a two-dimensional font ("QR_CNTL", "PDF417", "DATA1", "DATA2", "DATA3") and control font ("ESC_FONT", "ESC_FONT_KANJI") together.

Fonts Operation Comments Remarks OR code Outputs each command for printing QR_CNTL Command setting two-dimensional code. **PDF417** Outputs each command for printing **PDF417** Command setting PDF417. Replaces $x20 \sim x7F$ with x00 to DATA1 ¥x5F. Replaces ¥x20 to ¥x7F with ¥x60 to Can output ¥x00 DATA2 ¥xBF. to ¥xFF. Replaces ¥x20 to ¥x5F with ¥xC0 to DATA3 Data setting ¥xFF. Outputs without replacing ¥x20 to Can output ¥x20 ESC FONT ¥x7F. to ¥x7F Outputs Kanji registered to Shift JIS ESC FONT KANJI*1 within the range of ¥x8140 to ¥x9FFC and ¥xE040 to ¥xEAA4.

Each font has the following features.

*1 QR code only (Kanji can't be used with PDF417).



3.10.1 Two-dimensional Code Command Setting Font

QR code setting font (QR_CNTL)

Character to use for the "QR_CNTL" font	Operation	Code output by the driver
0	For parameters to set the command for each QR code	¥x00
1	For parameters to set the command for each QR code	¥x01
2	For parameters to set the command for each QR code	¥x02
3	For parameters to set the command for each QR code	¥x03
4	For parameters to set the command for each QR code	¥x04
5	For parameters to set the command for each QR code	¥x05
6	For parameters to set the command for each QR code	¥x06
7	For parameters to set the command for each QR code	¥x07
8	For parameters to set the command for each QR code	¥x08
9	For parameters to set the command for each QR code	¥x09
М	Model setting of QR code	¥x1b¥x1dyS0
M1	Model setting of QR code: Model 1	¥x1b¥x1dyS0¥x01
M2	Model setting of QR code: Model 2	¥x1b¥x1dyS0¥x02
Е	Correction level setting	¥x1b¥x1dyS1
* El(E0)	Correction level L (Correction rate 7%)	¥x1b¥x1dyS1¥x00
*Em(E1)	Correction level M (Correction rate 15%)	¥x1b¥x1dyS1¥x01
* Eq(E2)	Correction level Q (Correction rate 25%)	¥x1b¥x1dyS1¥x02
* Eh(E3)	Correction level H (Correction rate 30%)	¥x1b¥x1dyS1¥x03
S1 to S8	Module size setting (unit: dot)	¥x1b¥x1dyS2(¥x01 to 08)
A0	QR code data setting (data automatic analysis)	¥x1b¥x1dyD1¥x00
В	QR code data setting (data manual analysis)	¥x1b¥x1dyD2
Р	QR code printing	¥x1b¥x1dyP

The table below shows details for setting the QR_CNTL font.

*) The correction level can be set using the method in ().

PDF417 setting font (PDF417)

Character to use for the "PDF417" font	Operation	Code output by the driver
0	For parameters to set the command for each PDF417	¥x00
1	For parameters to set the command for each PDF417	¥x01
2	For parameters to set the command for each PDF417	¥x02
3	For parameters to set the command for each PDF417	¥x03
4	For parameters to set the command for each PDF417	¥x04
5	For parameters to set the command for each PDF417	¥x05
6	For parameters to set the command for each PDF417	¥x06
7	For parameters to set the command for each PDF417	¥x07
8	For parameters to set the command for each PDF417	¥x08
9	For parameters to set the command for each PDF417	¥x09
S	Setting PDF417 barcode size	¥x1b¥x1dxS0
Е	Setting PDF417 security level (ECC)	¥x1b¥x1dxS1
М	Setting X-direction size of PDF417 module	¥x1b¥x1dxS2
А	Setting aspect ratio of PDF417 module	¥x1b¥x1dxS3
D	Setting PDF417 barcode data	¥x1b¥x1dxD
Р	Prints PDF417 barcode	¥x1b¥x1dxP
Ι	Acquires explanatory information of PDF417 barcode	¥x1b¥x1dxI

The table below shows details for setting the PDF417 font.



3.10.2 Two-dimensional Code Data Setting Font (DATA1, DATA2, DATA3, ESC_FONT)

Data to enter		Data to output				
Character information specified by the		Character code to actually output to the printer by the printer driver				
Character	Character code	ESC FONT	DATA1	DATA2	DATA3	
Blank	¥x20	 ¥x20	¥x00	¥x60	¥xC0	
!	¥x21	¥x21	¥x01	¥x61	¥xC1	
	¥x22	¥x22	¥x02	¥x62	¥xC2	
#	¥x23	¥x23	¥x03	¥x63	¥xC3	
\$	¥x24	¥x24	¥x04	¥x64	¥xC4	
%	¥x25	¥x25	¥x05	¥x65	¥xC5	
&	¥x26	¥x26	¥x06	¥x66	¥xC6	
۷.	¥x27	¥x27	¥x07	¥x67	¥xC7	
(¥x28	¥x28	¥x08	¥x68	¥xC8	
)	¥x29	¥x29	¥x09	¥x69	¥xC9	
*	¥x2A	¥x2A	¥x0A	¥x6A	¥xCA	
+	¥x2B	¥x2B	¥x0B	¥x6B	¥xCB	
,	¥x2C	¥x2C	¥x0C	¥x6C	¥xCC	
-	¥x2D	¥x2D	¥x0D	¥x6D	¥xCD	
	¥x2E	¥x2E	¥x0E	¥x6E	¥xCE	
/	¥x2F	¥x2F	¥x0F	¥x6F	¥xCF	
0	¥x30	¥x30	¥x10	¥x70	¥xD0	
1	¥x31	¥x31	¥x11	¥x71	¥xD1	
2	¥x32	¥x32	¥x12	¥x72	¥xD2	
3	¥x33	¥x33	¥x13	¥x73	¥xD3	
4	¥x34	¥x34	¥x14	¥x74	¥xD4	
5	¥x35	¥x35	¥x15	¥x75	¥xD5	
6	¥x36	¥x36	¥x16	¥x76	¥xD6	
7	¥x37	¥x37	¥x17	¥x77	¥xD7	
8	¥x38	¥x38	¥x18	¥x78	¥xD8	
9	¥x39	¥x39	¥x19	¥x79	¥xD9	
:	¥x3A	¥x3A	¥x1A	¥x7A	¥xDA	
;	¥x3B	¥x3B	¥x1B	¥x7B	¥xDB	
<	¥x3C	¥x3C	¥x1C	¥x7C	¥xDC	
=	¥x3D	¥x3D	¥x1D	¥x7D	¥xDD	
>	¥x3E	¥x3E	¥x1E	¥x7E	¥xDE	
?	¥x3F	¥x3F	¥x1F	¥x7F	¥xDF	
@	¥x40	¥x40	¥x20	¥x80	¥xE0	
А	¥x41	¥x41	¥x21	¥x81	¥xE1	

The table below shows details for setting the DATA1, DATA2, DATA3, and ESC_FONT fonts.
Data to enter Character informati user in applications	on specified by the (Word, VB, etc.)	Data to output Character code	to actually output	to the printer by t	he printer driver
Character	Character code	ESC_FONT	DATA1	DATA2	DATA3
В	¥x42	¥x42	¥x22	¥x82	¥xE2
С	¥x43	¥x43	¥x23	¥x83	¥xE3
D	¥x44	¥x44	¥x24	¥x84	¥xE4
Е	¥x45	¥x45	¥x25	¥x85	¥xE5
F	¥x46	¥x46	¥x26	¥x86	¥xE6
G	¥x47	¥x47	¥x27	¥x87	¥xE7
Н	¥x48	¥x48	¥x28	¥x88	¥xE8
Ι	¥x49	¥x49	¥x29	¥x89	¥xE9
J	¥x4A	¥x4A	¥x2A	¥x8A	¥xEA
K	¥x4B	¥x4B	¥x2B	¥x8B	¥xEB
L	¥x4C	¥x4C	¥x2C	¥x8C	¥xEC
М	¥x4D	¥x4D	¥x2D	¥x8D	¥xED
Ν	¥x4E	¥x4E	¥x2E	¥x8E	¥xEE
0	¥x4F	¥x4F	¥x2F	¥x8F	¥xEF
Р	¥x50	¥x50	¥x30	¥x90	¥xF0
Q	¥x51	¥x51	¥x31	¥x91	¥xF1
R	¥x52	¥x52	¥x32	¥x92	¥xF2
S	¥x53	¥x53	¥x33	¥x93	¥xF3
Т	¥x54	¥x54	¥x34	¥x94	¥xF4
U	¥x55	¥x55	¥x35	¥x95	¥xF5
V	¥x56	¥x56	¥x36	¥x96	¥xF6
W	¥x57	¥x57	¥x37	¥x97	¥xF7
Х	¥x58	¥x58	¥x38	¥x98	¥xF8
Y	¥x59	¥x59	¥x39	¥x99	¥xF9
Ζ	¥x5A	¥x5A	¥x3A	¥x9A	¥xFA
[¥x5B	¥x5B	¥x3B	¥x9B	¥xFB
¥	¥x5C	¥x5C	¥x3C	¥x9C	¥xFC
]	¥x5D	¥x5D	¥x3D	¥x9D	¥xFD
^	¥x5E	¥x5E	¥x3E	¥x9E	¥xFE
_	¥x5F	¥x5F	¥x3F	¥x9F	¥xFF
``	¥x60	¥x60	¥x40	¥xA0	-
a	¥x61	¥x61	¥x41	¥xA1	-
b	¥x62	¥x62	¥x42	¥xA2	-
c	¥x63	¥x63	¥x43	¥xA3	-
d	¥x64	¥x64	¥x44	¥xA4	-
e	¥x65	¥x65	¥x45	¥xA5	-

Data to enter Character information specified by the user in applications (Word, VB, etc.)		Data to output Character code to actually output to the printer by the printer driver				
Character	Character code	ESC_FONT	DATA1	DATA2	DATA3	
f	¥x66	¥x66	¥x46	¥xA6	-	
g	¥x67	¥x67	¥x47	¥xA7	-	
h	¥x68	¥x68	¥x48	¥xA8	-	
i	¥x69	¥x69	¥x49	¥xA9	-	
j	¥x6A	¥x6A	¥x4A	¥xAA	-	
k	¥x6B	¥x6B	¥x4B	¥xAB	-	
1	¥x6C	¥x6C	¥x4C	¥xAC	-	
m	¥x6D	¥x6D	¥x4D	¥xAD	-	
n	¥x6E	¥x6E	¥x4E	¥xAE	-	
0	¥x6F	¥x6F	¥x4F	¥xAF	-	
р	¥x70	¥x70	¥x50	¥xB0	-	
q	¥x71	¥x71	¥x51	¥xB1	-	
r	¥x72	¥x72	¥x52	¥xB2	-	
S	¥x73	¥x73	¥x53	¥xB3	-	
t	¥x74	¥x74	¥x54	¥xB4	-	
u	¥x75	¥x75	¥x55	¥xB5	-	
v	¥x76	¥x76	¥x56	¥xB6	-	
W	¥x77	¥x77	¥x57	¥xB7	-	
Х	¥x78	¥x78	¥x58	¥xB8	-	
у	¥x79	¥x79	¥x59	¥xB9	-	
Z	¥x7A	¥x7A	¥x5A	¥xBA	-	
{	¥x7B	¥x7B	¥x5B	¥xBB	-	
	¥x7C	¥x7C	¥x5C	¥xBC	-	
}	¥x7D	¥x7D	¥x5D	¥xBD	-	
~	¥x7E	¥x7E	¥x5E	¥xBE	-	
	¥x7F	¥x7F	¥x5F	¥xBF	-	



3.10.3 Using the Two-dimensional Code Font

When using the QR code/PDF417 font, data of the two-dimensional code can be specified up to 500 bytes. (500 bytes includes the types of data entered and the separator.)

A sample program for Visual Basic using two-dimensional code font is provided below.

QR code print—Sample 1 (QR code data setting: For data manual analysis setting)

```
Private Sub Command1 Click()
  Printer.Font.Name = "Printer 17cpi Tall"
  Printer.Print "QR Code Test Print for VB 6.0"
  Printer.Font.Name = "Printer 17cpi"
  Printer.Print
  Printer.Print "DATA:"
  Printer.Print "http://www.star-m.jp/"
  Printer.Print
  Printer.Print "QR code:";
  Printer.Font.Name = "QR_CNTL"
                                                      'Sets QR_CNTL font
  Printer.Print "M2";
                                                      ' Sets barcode model
  Printer.Print "Em":
                                                       'Sets correction level (Correction rate 15%)
  Printer.Print "S3"
                                                      'Sets module size (Module size 3 dots)
  Printer.Print "B1";
                                                      'Sets barcode data (Manual analysis) + Number of
                                                      blocks
  Printer.Print "2";
                                                      'Alphanumeric (Data type)
                                                      ' DATA1 = 0x0000 - 0x005F
  Printer.Font.Name = "DATA1"
                                                       Converts 0x35 \rightarrow 0x15, 0x20 \rightarrow 0x0
  Printer.Print Chr(&H35);
                                                       Number of bytes: 21(0x15)+0(0x0)=21 byte
  Printer.Print Chr(&H20);
  Printer.Font.Name = "ESC FONT"
                                                      'ESC FONT = 0x0020 - 0x007F
  Printer.Print "http://www.star-m.jp/";
                                                      'Barcode data (21 byte)
  Printer.Font.Name = "QR CNTL"
                                                      'Sets QR CNTL font
  Printer Print "P"
                                                      ' Prints barcode data
  Printer.EndDoc
End Sub
```

Point!When QR code data is set to data manual analysis, be sure to set the number of blocks
and type of data to enter.For details on setup, refer to the separate "STAR Line Mode Command Specifications".



QR code print—Sample 2 (QR code data setting: For data automatic analysis setting) Private Sub Command2 Click() Printer.Font.Name = "Printer 17cpi Tall" Printer.Print "QR Code Test Print for VB 6.0" Printer.Font.Name = "Printer 17cpi" Printer.Print Printer.Print "DATA:" Printer.Print "http://www.star-m.jp/" Printer.Print Printer.Print "QR code:"; Printer.Font.Name = "QR CNTL" 'Sets QR_CNTL font Printer.Print "M1"; ' Sets barcode model Printer.Print "Eq"; 'Sets correction level (Correction rate 25%) Printer.Print "S7" 'Sets module size (Module size 7 dots) Printer.Print "A0"; 'Sets barcode data (Automatic analysis) Printer.Font.Name = "DATA1" ' DATA1 = 0x0000 - 0x005FConverts $0x35 \rightarrow 0x15$, $0x20 \rightarrow 0x0$ Printer.Print Chr(&H35); Number of bytes: 21(0x15)+0(0x0)=21 byte Printer.Print Chr(&H20); Printer.Font.Name = "ESC FONT" 'ESC FONT = 0x0020 - 0x007F'Barcode data (21 byte) Printer.Print "http://www.star-m.jp/"; Printer.Font.Name = "QR CNTL" ' Sets QR CNTL font Printer.Print "P" ' Prints barcode data Printer.EndDoc End Sub



Private Sub Command3_Click()	
Printer.Font.Name = "Printer 17cpi Tall"	
Printer.Print "QR Code Test Print for VB 6.0"	
Printer.Font.Name = "Printer 17cpi"	
Printer.Print	
Printer.Print "DATA:"	
Printer.Font.Name = "Kanji double-byte 8 cpi"	
Printer.Print "STAR MICRONICS CO., LTD."	
Printer.Print	
Printer.Font.Name = "Printer 17cpi"	
Printer.Print "QR code:";	
Printer.Font.Name = "QR_CNTL"	' Sets QR_CNTL font
Printer.Print "M2";	' Sets barcode model
Printer.Print "El";	'Sets correction level (Correction rate 7%)
Printer.Print "S6"	' Sets module size (Module size 6 dots)
Printer.Print "A0";	' Sets barcode data (Data automatic analysis)
Printer.Font.Name = "DATA1"	DATA1 = 0x0000 - 0x005F
Printer.Print Chr(&H32);	Converts $0x35 \rightarrow 0x15$ $0x20 \rightarrow 0x0$
Printer.Print Chr(&H20);	Number of bytes: $21(0x15)+0(0x0)=21$ byte
	··································
Printer.Font.Name = "ESC_FONT_KANJI"	'ESC_FONT_KANJI = Shift JIS
Printer.Print "STAR MICRONICS CO., LTD.";	'Barcode data (18 byte)
Printer.Font.Name = "QR_CNTL"	' Sets QR_CNTL font
Printer.Print "P"	' Prints barcode data
Printer.EndDoc	
End Sub	

■ QR code print—Sample 3 (QR code data setting: For data automatic analysis setting)



PDF417 print — Sample 1

Private Sub Command4_Click()	
Printer.Font.Name = "Printer 17cpi Tall"	
Printer.Print "PDF417 Test Print for VB 6.0"	
Printer Font Name = "Printer 17cni"	
Printer Print	
Printer Print "DATA:"	
Drinter Drint "1224567800"	
Printer Print	
Plinter.Plint	
Printer.Print PDF417: ;	
Printer.Font.Name = "PDF417"	
Printer Print "\$023".	' Sets barcode size
Printer Print "E3".	' Sets ECC level
Printer Print "M3"	'Sets X-direction size of the module
Printer Print "A3"	'Sets aspect ratio of the module
Printer Print "D".	' Sets barcode data
Time.Time D,	Sets barcode data
Printer.Font.Name = "DATA1"	' DATA1 = $0x0000 - 0x005F$
Printer.Print Chr(&H2A);	' Number of bytes of barcode data
Printer.Print Chr(&H20);	
Printer.Font.Name = "ESC FONT"	'ESC FONT = 0x0020 - 0x007F
Printer.Print "1234567890";	_
Printer Font Name = "PDF 417 "	
Printer Print "P"	' Prints barcode data
Timon int 1	
Printer.EndDoc	
End Sub	



PDF417 print — Sample 2

Private Sub Command5_Click()	
Printer.Font.Name = "Printer 17cpi Tall"	
Printer.Print "PDF417 Test Print for VB 6.0"	
Printer.Font.Name = "Printer 17cpi"	
Printer.Print	
Printer.Print "DATA:"	
Printer.Print "http://star-m.jp/"	
Printer.Print	
Printer.Print "PDF417:";	
Printer.Font.Name = "PDF417"	
Printer.Print "S023";	' Sets barcode size
Printer.Print "E3";	'Sets ECC level
Printer.Print "M3"	'Sets X-direction size of the module
Printer.Print "A3"	'Sets aspect ratio of the module
Printer.Print "D";	' Sets barcode data
Printer.Font.Name = "DATA1"	DATA1 = 0x0000 - 0x005F
Printer.Print Chr(&H31);	' Number of bytes of barcode data
Printer.Print Chr(&H20);	
Printer.Font.Name = "ESC_FONT"	$'ESC_FONT = 0x0020 - 0x007F$
Printer.Print "http://star-m.jp/";	
Printer.Font.Name = "PDF417"	
Printer.Print "P"	' Prints barcode data
Printer.EndDoc	
End Sub	



4. Star Configuration Utility (Windows 2000 SP3 or Later/XP/Vista 32-Bit Edition)

This software is supported by Windows 2000 (SP3 or later)/XP/Vista 32-bit edition. The **Star Configuration Utility** allows you to set a variety of print-related settings.

Open the Star Configuration Utility dialog as follows.

Windows 2000 SP3 or Later/XP

At the Windows Start menu, select **Programs** — **StarMicronics** — **TUP500** — **Utility** — **TUP500 Configuration Utility**, and follow steps ① to ④ below.

- ① From the Windows Start menu, select **Printers and Faxes** to open the folder.
- ② Right-click the Star TUP500 printer icon, and select Properties.
- ③ Click the TUP500 Config tab, and click Launch Configuration Utility.

Cobrill's econemi	Dece Selice	1.100 Cars
: en de sy fi chte leur	et soloisura.Alice t	ener sale
owners ou .		
	the side	in a
nesette (e		
	Loss of root	laTy . w + bi

④ The Star Configuration Utility dialog box appears.

"Chia Centigenet en U.I.I.e		
(10" (10))		ALC: UNK
Printer Softmas Manney SM Softmas SM orga Printer Tours Pformet US Softap	Printer Settings	
Apple vian Sertings SPOS JowsPGS	n e général est a les gantes de la remain	
Common Sala Rongo Lisz	Ang kana sebarahan Ang kana dalam kang tang tang kang kang kang kang Ang kang kang kang kang kang kang kang ka	
	Texan dar Legar nyacimman	
	Chard Cara dance Chardon Cade True (Text Texts To ande Texts Dicides Persing Text Store LTD, Text	
	Remarkan ta El sodarta Ta the patriorite (R. S. Congara, P., Kong	
	1	
sbar*		1m

Point! If you did not install all program capabilities at install-time, the utility window will show only the installed capabilities that are currently available.



Windows Vista 32-Bit Edition

From the Windows Start menu, select **Programs – StarMicronics – TUP500 – Utility**, right-click **TUP500 Configuration Utility**, and then select **Run as administrator**.

				1	Gpen
Acar Acar				<	te natenide
5 1.4.87 vywn					Sens To
To Asset	📕 Accessores 🚽 Indux calify passes	:			Len Le de deux d Falere
B inter .	 Gener Herstein - Herstein China 				Jaure Salle, Reev
Districtions of the second sec	III Statu y IIII Carl Information C IIII Information C	A CROSPORY was heplana	2 Jairete	V 1280 Congator Units	frets
🔯 listlava					
St 115 /010					

In the User Account Control dialog box, click the Continue or Allow button.

Follow steps 1 to 6 below.

- ① From the Windows Start menu, select **Settings Printers** to open the **printers** folder.
- ② Right-click the Star TUP500 printer icon, and then select Run as administrator Properties.





- ③ In the User Account Control dialog box, click the Continue or Allow button.
- ④ Click the TUP500 Config tab, and click Launch Configuration Utility.

General	Shawa	Fots	Atuated
Color Management	Security	Device Setings	TUP500 Config
Dick; en the buttorn to Configuration Utility	wunch the fol	lowing utilities for your p	itte
Pinter Status Settin		Laurich Configuration	n. Likility
	1	ando Brese Status S	etting Tool

(5) The **Star Configuration Utility** dialog box appears.

Carlos Contigentingen United		
Titel) teach		
Printer Settings Bears SR Settings Williago Printer Texis Driverer UF Setup	Printer Settings	
Application Soldings OPDS JavaPDS	The utility analysis you to do the following	
Common Bata Image List	Set prote decise address General Settings Colocce: Settings, Tubeix Settings, For Settings	
	Yes sam same Capo in procements.	
	Oracle Candidana Disanter Cale Test / Head Test / Danate Test / Disanter Test Smart 100 Test	
	Early codgree the Chatter Intellice Field the patient on the LML for a fire warky P address	
star	-	() Dim ()

Point! If you did not install all program capabilities at install-time, the utility window will show only the installed capabilities that are currently available.

Caution: If you are using Windows 32-bit Vista, you must select Run as administrator when opening the configuration utility and when opening the Properties dialog. If you do not run these operations as administrator, any changes that you make may not work as expected.



Menu Bar

(1) File

Rescan Ports for Printer

Rescans the ports.

To rescan, click Yes.

S& Star Configuration Utility	Rescan	Ports for Printer 🛛 📓
File(1) Help(1) Rescan Ports for Printer(5) Solid USB Data Transmission mode(D) Close(3) Concerner or Securp	?	The port data contained in the XML file will be deleted and rescanned. Do you want to continue?

Select USB Data Transmission Mode

You can use this feature to set a smaller transmission size. In some cases, use of USB hubs may cause incorrect printing. If you are having this problem, check the checkbox.

54 Star Configuration Utility	🗚 USB Data Transmission	
File(F) Help(H) Prestan Ports for Printer(S) Solart (ISB Data Transmission mode(D) Close(X) Externmenter Senap	Earcel	

Note: Checking the USB transmission mode checkbox may in some cases cause a drop in the printing speed.

(2) Help

Version

Select Help (H) — Version (V) to display the version of Star Configuration Utility.





4.1 Printer Settings

Use the printer settings to set the memory switches, set up NV logos, carry out printer tests, and configure the Ethernet interface.

Printer Settings

This utility enables you to do the following:

Memory Sw Setting

Set profer device settings. General Settings, Character Settings, Tickets Settings, Port Settin	gs
NV Logo	
You can store Logos in your printers.	
Printer Tests	
Check Conditions. Character Code Test / Head Test / Barcode Test / 2-Color Printin Shout LED Test	ig Tes
Ethernet I/F Setup	
Easily configure the Ethemet interface Find the printer on the LAN, Set a temporary IP address	

If you select any of the items, the top part of the dialog box will display the name of the connected printer, the name of the port it is connected to, the current emulation, and a **Configure Port** button.

Select the model name, port name, and emulation according to the environment used.

Medel Name :	Port :		Emulation :	_	
TUP592 🔽	LPT1	*	Star Line Mode	$\overline{\mathbf{v}}$	Configure Port

Point! Printer settings correspond to usage in Star line mode and ESC/POS mode. Select the emulation, and make settings at the printer side, in accordance with the application you are using. Note also that memory switch settings only support operation in Star Page Mode. If you wish to set up Star Page Mode, please set the emulation to Star Line Mode. To change emulations, use the DIP switches on the printer. For information, refer to the Product Specifications Manual (issued separately).

Note: When using an Ethernet interface, the TCP/IP port will appear in the Port list by clicking the Search LAN for Printers button in Ethernet I/F Setup.



Click the **Configure Port** button to display the configuration dialog box for the selected port. After making the appropriate settings, click the **OK** button.

Model Name : Port : TUP592 V LPT1 V	Emulation : Star Line Mode 🖌 Configure Port
<lpt> <usb> <tcp ip=""></tcp></usb></lpt>	
Condigue Part. Theod Influecondul Tratomission Rety: 15000 Cancel	
<com></com>	
54 ComSetting	
Port Settings	
Color None	
Box Covint Hadeane	
Restore Printer's Defaults	
Tineout (niliseconds)	
Transmission Rety: 15000	
Canoel OK	
Point! In the configuration utility, the Flow Contro Xon/Xoff. If the printer setting is Xon/Xoff, c ration setting to Hardware.	I for the serial interface cannot be set to hange it to DTR and set the port configu-

Note:Match the port configurations to the printer settings.The printer settings can be confirmed using the self-printing.For details, refer to the Product Specifications Manual (issued separately).



4.1.1 Memory SW Settings

In Memory SW Settings, the printer memory switch settings can be loaded and written.

Select the model name, port name, and emulation according to the environment used, and then click the **Load Settings** button to read the printer's current memory switch settings.

Memory SW Settings

			Load Settin
Print Area	72mm (Default) *	~	
Print Mode	Monochrome *	~	Write Settir
Print Speed	Standard (180mm/second) *	~	
Default Print Density	Normal *	~	
Vertical Mount Mode	Disable *	~	
Printing Trigger	Page *	~	
Load Format Number (Page Mode)	Not Specified when Power on *	~	
Reset at Recover from Error	Invalid *	~	
Snout Control	Disable *	~	

 Point1
 Values marked with * are the factory defaults.

 Note:
 1)
 Before clicking the button to load the settings, confirm that the model name, port name, and emulation settings match the printer settings.

 2)
 Memory switch settings cannot be used for port names created with the virtual port emulator.



To change the memory switch settings, select items to change from the drop-down menus, and then click the **Write Set**tings button.

The displayed settings are written to the printer.

Memory SW Settings

Model Name : Port :		Emulation :		
TUP592 🔽 LPT1	*	Star Line Mode	~	Configure Port
General Characters Communication	Paper Feed Sensor			
				Load Settings
Print Area	80mm		~	Julita Sattinga
Print Mode	Monochrome *		*	white Settings
Print Speed	Standard (180mm/second) *	~	
Default Print Density	Normal *		~	3
Vertical Mount Mode	Disable *		*	
Printing Trigger	Page *		~	
Load Format Number (Page Mode)	Not Specified when Powe	r on *	*	1. C
Reset at Recover from Error	Invalid *		*	
Snout Control	Disable *		*	
		(*: Default :	setting)	

Note: Click the **Write Settings** button to make your changes effective. After changing the settings, be sure to click the **Write Settings** button.



4.1.2 NVLogo

NVLogo is a function for registering image data, selected from data pre-registered in the **Image List**, to the printer in order to print them on the top or bottom of the page.

77800	LPT1		*	Star Line Mode 🛛 💌	Configure Port
No No	go List Logo Name	Target	Size		
			Previe	W	
			9		
			1		
he log lease (os in the above "NVLogo List" click the "Print" button below to	are temporarily confirm the log	assigned by I jos stored in I	this utility and NOT retriev the printer.	ed from the printer.
1.58			rinter		

For details about adding image data to the NVLogo list, refer to "4.3.1 Image To set the print data of NV logos, use the printer driver.

For details, refer to the information in "3.2.1 Explanation of Device Settings".

Note:The NVLogo List is a list of the data registered in the computer.To check the images registered in the printer, click the Print button.



① Click the **Add** button.

NVLogo

t to a to	go List		A: 1		
10	Logo Name	Target	Size	23	
		_	FISH	60 4	
			• •		
		_			
		_			

② Select the image that you want to register in the printer, and then click the Use button.

Inage Name	Leget	Simu	Preview
nage1	Receipt	63nn i 21nn	\mathbf{P}
nage3	Slip	67nn x 64nn	
			GEOIN



- ③ The selected graphic data is added to the NVLogo List.
 To register multiple images in the printer, repeat steps ① and ②.
 To delete the selected image from the NVLogo List, click the **Delete** button.
- (4) When you have moved all graphic data to register into the NVLogo List, click the **Write** button. Data shown in the NVLogo List is written to the printer.

0	Logo Name Logo Name Thank?	Target Recent	Size <u>62mm × 21mm</u> Preview
			<u>a</u>
			SILOIP

Clicking the **Print** button will generate a thermal printout of all of the NV logo data written to the printer. This makes it possible for you to check all of the image data currently registered in the printer.

To delete all of the NV logo data in the printer, click the Delete All button.

Point!The memory capacity for NV logos in this printer is 504 KB.After clicking the Write, Print, or Delete All button, the printer will be reset.

Caution: By executing Write, data shown in the "NVLogo List" will be overwritten to the NV logo memory of the printer. All data previously registered will be deleted.



4.1.3 Printer Tests

Printer Tests executes the printing function of the printer and prints several samples. Furthermore, it allows you to confirm that the peripherals work properly.

et Na	LPT1	Emulation : Star Line Node	Conégaie Poit
1	Test Prints		
	Print Single Byte Cl	haracters	Print
	Print Head Test		Print
	Print Barcodes		Print
	2-Color Printing Te	st	Print
-	Snout LED	JAVA	
	Shout Green LED 7	Fest	Text
	Shout Red LED Te	st 🗌	Teat

Note: Printer testing cannot be used with port names created with the virtual port emulator.

Test Prints

Print Single-Byte Characters

When you click **Print**, the printer prints out the single-byte character table.

Print Head Test

When you click **Print**, the printer tests the print head by printing several lines of solid black. If any white vertical lines appear in the black area, please clean the print head. For information about how to clean the head, refer to the Product Specifications Manual (issued separately).

Print Barcodes

When you click **Print**, the printer prints out all supported barcodes.

2-Color Printing Test

Executes 2-color sample printing.

Point!For 2-color printing, confirm that paper for two colors is set.The printer performs monochrome printing if this type of paper is not set.Also, refer to "3.6 Setting the Print Color and Paper Type" for setup.



Snout LEDs

Snout Green LED Test

When you click **Test**, the green snout LED blinks five times. Watch the LED to confirm that it is working properly.

Snout Red LED Test

When you click Test, the red snout LED blinks five times. Watch the LED to confirm that it is working properly.

Note: Snout LEDs are optional devices.



4.1.4 Ethernet I/F Setup

In Ethernet I/F Setup, settings for the Ethernet interface card connected to the printer can be made using the web browser.

In addition, when using a TCP/IP port with the configuration utility, the TCP/IP port will appear in the Port list by first clicking the **Search LAN for Printers** button.

Ethernet I/F Setup	Troubleshooting

IP Address	Set by	MAC Address	LAN Type	Printer Info	
Search L	AN for Printers	>			
		/	-		

Click the **Search LAN for Printers** button to search the printers connected on your LAN. If there is an applicable printer, the following dialog box will appear. Click the **OK** button.



Caution: If you are using Vista in an environment without a DHCP server, the printer search will not find any printers that do not have set IP addresses. If you wish to find a printer that does not yet have a set IP address, set the printer's TCP/ IP settings as explained in Chapter 6, "Guidelines for Usage in an Ethernet Environment."



All connected LAN printers are shown in the Printer List on LAN.

			Contraction Section 11.1.1.1.	THE REPORT OF A DESCRIPTION
ordress 1-s o z	State	HACADICS UP1E2048358	LAN 1750	Printer John
		100.00	-	

Select the printer from the Printer List on LAN and click the **Property** button to display the detailed information of the current Ethernet interface for the selected printer.

% Ethernet Set Up			X
Ethernet I/F Detail In	lonnation	MAC Address	0011-6204-63-98
Durrent Condition		Ethernet NV RON Co	nigunian
IP Addess	192 168 32 55 - Static	IP Address	192.168.32.55
IP Version	IPv4	Subnet Mask.	255.255.255.0
Submet Mask	295.255.295.0	Gaterway Address	0.0.00
Galeway Address	a.b.a.b	DHCP	RABP
Ethernet I/F Version	Information	Rave Multi	Print Confignation (FTP Only)
Name	IFBD-HE05/06	- Printer Device-D	
F/W/Veroion	V1.0.1	MEG	50 M
Boot Version	V1.0.0	0.00	
PLD Version	V1.0.1	MDL	STAR
Discovery Protocol In	formation	CLS	PRINTER
Protocol Name	STR_BEAST		
Protocol Version	RS1.0.1		Dane

If the printers on the LAN cannot be found, click the **Troubleshooting** button to display "Ethernet I/F Setup Trouble-shooting".



The steps to change the printer TCP/IP settings vary according to whether or not the IP address is assigned automatically by a DHCP server.

Use the steps according to the environment that you are using.

When IP Address is Automatically Assigned by DHCP Server

① Select the printer from the Printer List on LAN, and then click the Change TCP/IP Setting button.

Ethernet	I/F	Setup	С
----------	-----	-------	---

Troubleshooting

P Address	Set by	MAC Address	LAN Type	Printer Info	
12.168.32.55	Static	00-11-62-04-83-98	100/10Base-T	MC 2004 D	
Search LAI	N for Printers	Change TCP/I	PSetting	(Propert
			100		
Search LAI	N for Printers	Change TCP/I	PSetting	(F

② The utility detects the Ethernet interface card type and displays the corresponding user name and the default password.

Confirm the settings, and then click the **OK** button.





③ Enter the corresponding user name and the default password displayed in the previous dialog box, and then click the **OK** button.



Point! The password can be changed on the web browser. If the password was changed, enter the new password.

④ The setting dialog box will appear depending on the web browser. The TCP/IP settings can be performed.



When IP Address is Not Assigned by DHCP Server

If there are no set IP addresses, you cannot move on to the Change TCP/IP Setting screen.
 If a printer was selected that does not have a set IP address, a temporary IP address can be set. Enter the IP address, and then click the **Do ARP and PING** button.



IP Address	Set by	MAC Address	LAN Type	Printer Info
0.0.0.0	Didn't obtain	00-11-62-04-6E-36	100/10Base-T	10401001000
Search L4	N for Printers			Proper
Set temporary IP ad	Idress by ARP and F	PING		
MAC Address	00	· 11 · 62 · 04	- 6E - 36	Do ARP and PIN
MAC Address	00	1 · 11 · 62 · 04	· 6E · 36	Do ARP and PIN
MAC Address		1 · 11 · 62 · 04	· 6E · 36	Do ARP and PIN
MAC Address et temporary IP add	ress by ARP and Pl	NG 168 32	· 6E · 36	Do ARP and PIN

② When the temporary IP address is issued, the following dialog box will appear. Then click the **OK** button.





③ The utility detects the Ethernet interface card type and displays the corresponding user name and the default password.

Confirm the settings, and then click the **OK** button.

Etherne	ntrien Up 🔣
•	If Login Debog-box appears, Please login as 'hout' user. Default Plannend of 'hout' user is 'public'.

(4) Enter the corresponding user name and the default password displayed in the previous dialog box, and then click the **OK** button.

Connect to 192,168.3	.197 <table-cell></table-cell>
100	
A 8	
1750-1-205/06	
User name	oot 💦
Password .	
⊡e/	nearper tak beenword
	OK Cancel
1	

Point! The password can be changed on the web browser. If the password was changed, enter the new password.

(5) The setting dialog box will appear depending on the web browser. The TCP/IP settings can be performed.





4.2 Application Settings

This is for setting each application.

Application Settings

This utility enables you to do the following:

OPOS

OpenPOS(OPOS) was created by industry leaders as a device standard for POS hardware. OPOS is a Win32-based architecture for POS device access. The benefits of this standard are realized in the ease of access to hardware in not only outputting data to devices, but also reading back the status of the device. Star's OPOS driver offers full compliance with the OPOS standard version 1.8.

JavaPOS

JavaPOS takes the existing advantages of the OPOS standard and adds to them the ability for applications to be platform independent.

Star's JavaPOS driver offers full compliance with the JavaPOS standard version 1.4. The JavaPOS driver can be used with any existing JavaPOS application and is additionally highly recommended for developers creating new applications where platform independence and/or simple hardware are valued features.

Point! You can set applications for each port and cue.

Note: The virtual port emulator will be available only if you selected custom install, and included the emulator, when installing the driver software. If you select standard installation, the emulator will not be installed.



4.2.1 OPOS

This allows you to check and set devices when the printer is used in an OPOS environment.

OPOS





Adding a Printer Device

Click the Add New button.

POSPrinter		Consul Carlet	Reg califion
Decor.	Houge	P _{1,1}	AND THE A
			TA-HA
			$C(G)_{C} = 0$
			TING IN A

When clicking the **Add New** button, the **Control Object Registration** check box will be selected and the following dialog box will appear. Sets each item properly.

*CAdd OPOS POS	Printer Device 🔯	of kialonos no	SPilmer Device		12
Hisdel Device Name Pot Name Teneouthert	11.8500	Hadi Doko Nara Politika Theodori	TUCESA	- Port Federa Tits Per Second Data Elec Feder José Elec	Nor w
<lp7< td=""><td>Pethelitrage</td><td></td><td>Rectifier age</td><td>DM></td><td>Rovies, Perin's Dollaria</td></lp7<>	Pethelitrage		Rectifier age	DM>	Rovies, Perin's Dollaria

The RecNvBitImage check box is selected by default.

When selected, the logo printing function using OPOS becomes enabled.

Click the **OK** button to add the printer.

Note:	Only one control object can be registered.
	When a Star control object is registered, control objects from other companies become disabled.
	If using this printer under an OPOS environment, please register the Star control object. Correct operation cannot be guaranteed if the printer is used without registration of the control object.



Delete

Deletes the selected printer device.

When the following confirmation dialog box appears, click the Yes button to continue.



Configure

Allows you to change the settings for the selected printer device. The operational flow is the same as when using the **Add New** button.

Check Health

Executes a system check to determine whether the selected device is correctly connected and to confirm that OPOS operation is correct. If the check is successful, the printer prints out sample data.



4.2.2 JavaPOS

This allows you to check and set devices when the printer is used in a JavaPOS environment.

JavaPOS



Click the Load button to load the existing JavaPOS XML file.

JavaPOS XML Registry File	
File Name: New File	
	Cave
11 A. 19 A.	

Note:	To use this driver with JavaPOS applications, it is recommended that you use Java Runtime Environment (JRE) 1.5 or later.
	To use the driver on Java Runtime Environment (JRE) 1.4 or earlier, you must specify the following command-line option.
	-Dsmj.dllpath= <absolute -="" contains="" folder="" path="" starioj.dll="" starioport.dll="" that="" the="" to=""></absolute>
	This DLL file is located in the following folder if you did not change the default installation folder.
	Program Files\StarMicronics\TUP500\Software\JavaPOS
	Command-line option example:
	java -Dsmj.dllpath="C:\Program Files\StarMicronics\TUP500\Software\ JavaPOS" application.class



Adding a Printer

Click the Add New button.

Device	Model	Port	Add New
			Delete
			Configure
			Check Health

The following dialog box will appear. Sets each item properly.

M kad Jawahos P	OSPrinter Device 🛛 🔯	Mikad JavaPosit	POSPrinter Device			ß
Hout	TICKYN 🔛	Hout	1099 M	PL15284		
Device slave	T. FOC 1	Devárá slavov	T.(F007-1	En PC Sacht	3500	
Purika -	1.11	Per kara	101-V:	Destis		×
"we direct	15710	True Jind	197.10	Faix	Nora	*
	Disolad Basel Pinkin	al Basel Printer	Disolation Prints	500 Dix	10	1
	The second se	17 C C C C C C C C C C C C C C C C C C C	Fa-Coust	Ladisen	v.	
	J Variet		"K Var sei		Tectory Panlar's Dalaat	ę.
<lpt></lpt>	> <usb> <tcp ip=""></tcp></usb>		<c0< td=""><td>M></td><td></td><td></td></c0<>	M>		

<LPT> <USB> <TCP/IP>

When the Checked Block Printing check box is selected, you can confirm that data to be printed is correctly sent to the printer.

Click the **OK** button to add the printer.

When you have finished making the settings, click the Save button to save the JavaPOS XML file.

Save



Delete

Deletes the selected printer device.

When the following confirmation dialog box appears, click the Yes button to continue.



Configure

Allows you to change the settings for the selected printer device. The operational flow is the same as when using the **Add New** button.

Check Health

Executes a system check to determine whether the selected device is correctly connected and to confirm that JavaPOS operation is correct. If the check is successful, the printer prints out sample data.



Note: Before running a health check, be sure to click the **Save** button so as to save the JavaPOS XML file.



4.2.3 Virtual Port Emulator

In **Virtual Port Emulator**, printers equipped with a USB interface or Ethernet interface can be configured as virtual serial ports. With this feature, printers equipped with a USB interface or Ethernet interface can be used with applications that support only serial printers.

Virtual Port Emulator

tual For Name - Pinta	14 Porthere	Tiransfrei	AddPot
		1	Dokle Polt
		1	Nully Ful
			Gane Health
ulator Status Internatio	11171	ETHTE	
Cuperi Sicky	Stopped		Steft
Statup options	Muriual 😿	1	\$100
Note: This feature is in	releasented by Windows services		

Note: The virtual port emulator will be available only if you selected custom install, and included the emulator, when installing the driver software. If you select standard installation, the emulator will not be installed.



Adding a Virtual Port

① Click the **Add Port** button to display the following dialog box. Set all of the items, and then click the **OK** button.

🛠 Add Port		
Fill in the following Vidual Port Port Name:		Output port name for PC
- Partie 1/F Part Part Name	TCPVP:192163.32.130	Printer I/F name that is actually used.
Timeout (ms):	15000	

Point!Enter the output port name of the POS application for the virtual port name.In addition, for the Port Name of the Printer I/F Port, select the actual printer interface
name.Selection is limited to USB (printer class) and Ethernet ports.

Selection is mined to OSD (printer class) and Ethernet ports.

- Note: 1) USB interface virtual serial ports cannot be used in "ESC/POS mode". In addition, the USB vendor-class driver is not compatible with virtual serial ports.
 2) If a series the USD Distance of the series of the last the last the series of the s
 - 2) If you are using the USB Printer Class, the selected printer I/F port name must consist of single-byte characters only. Please do not use double-byte characters when creating the printer queue.
- ② Created ports are displayed in the Virtual Ports List.

Virtual Port Emulator

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Startup option	n Marual 😪		mit.



- ③ Click the **Start** button to start the emulator function service.
- ④ Select the timing to start up the emulator function.

When **Automatic** is selected, this function starts at the same time as the system. This is the most common setting. When **Manual** is selected, you must click the **Start** button manually before using the virtual port emulator to start the service each time the system starts.

Emulator Status Informatio	1	
Current Status	Stopped	Start
Startup options	Manual 🗸	Stop
Note: This feature is in (Service Name: F	nplence Manual Port Em anual St. 656),	

Deleting a Virtual Port

- ① Select the port to delete from the Virtual Ports List, and then click the **Delete Port** button.
- ② When the following confirmation dialog box appears, click the Yes button to continue.



Modifying a Virtual Port

- ① Select the port to modify from the Virtual Ports List, and then click the **Modify Port** button.
- ② The same dialog box as when clicking the **Add Port** button will appear; therefore, change the settings using the same procedure as when they were first set.

Check Health

- ① Select the port to check from the Virtual Ports List, and then click the Check Health button.
- ② If the check completes successfully, the printer prints out sample data and the following dialog box appears. Click OK.




4.3 Common Data

You can register graphic data that will be used as NV logos.

Common Data

This utility enables you to do the following:

Image List

Convert pictures to XML format. These pictures can be used for logos, text 011 AS (23 19 processing, etc. 129 SUB TOTAL 157 SuperGaver Total Saying old to Pay charge bun SuperSayor Pon 235 1630 Buy one get one tree 30101102 Promotion Servin man with w the new Star



4.3.1 Image List

The **Image List** allows you to register graphic data, such as logos that will be used repeatedly afterward, in the computer.

A test print will be made when adding graphic data; therefore, select the model name, port name, and emulation according to the environment used.

Image List

Larget	Size
raigot	
	Preview
	-12
	IV A
	Target

JPG, PNG, GIF, and BMP are available as formats of registerable graphic data.

Graphic data registered here is used for NV logos. For details, refer to "4.1.2 NVLogo".



Adding Graphic Data

① Click the **Add** button.

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O Select the graphic data that you want to register, and then click the **Open** button.

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③ The following **Convert Image** dialog box will appear.

The data can be adjusted here.

- Type a name to register in the Name field.
- Adjust the width of the graphic data using the slider.
- Set the appropriate dithering method.
- Adjust the options which are displayed according to the dithering method.
- Select whether the image is to be used for receipt printing or slip printing.

Click the Test Print button to run a test print in order to check the print results of the graphic data being adjusted.

Point!Items in the options are different depending on the dithering selected.Better printing results can be obtained by combining several settings to identify which settings are appropriate.

Note: According to differences between the actual printing properties of the printer and the display capacity of your computer display, the printing result and preview of the registered graphic data may look different in print density and other details. It is recommended that you run a test print job to check the print result.



④ Click the **OK** button to add the graphic data to the **Image List**.

Image List

del Name : Port :		Emulation :
1000 💌 LPT1		Star Line Mode 🔽 Configure Port
nage List Image Name	Target	Size 62mm x 21mm
magel	Receipt	Preview
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		and and a second second
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Add	Delete	Edit

The graphic data is added to the **Image List** and can be used as an **NV logo**. For details on using the data, refer to "4.1.2 NVLogo".



Deleting Graphic Data

To delete graphic data, select the unnecessary data from the **Image List**, and then click the **Delete** button.

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mage List	
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Image2	Preview
Image3	
Image4	
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When the following confirmation dialog box appears, click the Yes button to continue.



Editing Graphic Data

Click the **Edit** button to open the **Convert Image** dialog box. The graphic image data can be adjusted using the same procedure as when it was registered. For details, refer to the "Registration" item.



5. Guidelines for Printing Documents

- There is no need to set paper margins with this driver. Set all margins to 0.
- This driver supports 4 predefined custom paper sizes and also user-defined paper sizes. Feel free to use user-defined sizes as needed.
 - (For details, refer to "3.5 User-Defined Paper Settings".)

5.1 Notes for Printing via a Serial Interface

When using a TUP500 Windows driver to print through a serial interface, it is recommended that you use Line mode. For fastest print speed, use Line mode with device fonts.

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

You can check the printer settings by doing a self-print. For information, refer to the Product Specifications Manual (issued separately).

To configure the printer port, proceed as follows.

- ① On Windows 2000 and XP, go to the Start menu and open **Printers and Faxes**. On Windows Vista, go to the Start menu and select **Settings Printers**.
- ② Right-click the printer queue for the printer drive you want to set. If using Windows 2000 or XP, select **Properties** from the drop-down menu. If using Windows Vista, select **Run as Administrator Properties.**
- ③ If you are using Windows Vista, the User Account Control dialog appears. Click Continue.
- ④ Click the **Ports** tab.

Select the port you will connect to, and then click the **Configure Port** button to display the port properties dialog box. Match the settings to the printer settings.

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Point! If the **Flow Control** for the serial connection is set to **Xon/Xoff**, clear the **Enable bidirectional support** check box.



5.2 Notes for Using Microsoft Word

When you use default document formats of Word97 and later, device fonts will not work properly. To enable correct use of device fonts, perform the following settings.

Windows 2000/XP

① Open Microsoft Word's Tools menu, and select Options.



② Click the **Compatibility** tab, and in the **Options** area select the **Use printer metrics to lay out document** check box. Then click the **OK** button.

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③ Open Word's File menu, and select Save to save the document.



Windows Vista 32-Bit/64-Bit Edition

① Click the Office Button ¹, and then click the **Word Options** button. Select **Advanced**, and click **Layout Options**.

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② Select the Use printer metrics to lay out document check box. Then click the OK button.



③ Open Word's File menu, and select Save to save the document.

Note: When the page settings are changed, the option settings may return to the original settings.

5.3 Restrictions and Precautions

- Please do not use more than one device font on a single line. Mixing device fonts on a single line may result in skewed printing.
- Do not include graphic data (Windows fonts, ruled lines, etc.) on the same line with a device font, as this too may cause skewed print results.
- Remember that the "Control" device font cannot be used for normal character printing. Use fonts other than the "Control" device font to print characters.



6. Guidelines for Usage in an Ethernet Environment

6.1. Manually Setting a Temporary IP Address

You can use the following procedure to set a temporary IP address for a TUP500 printer. Use of a temporary address will allow you to connect to a printer that does not yet have an IP address setting.

① At the Windows Start menu, select **All Programs – Accessories – Command Prompt**. (If using Windows Vista, right-click on **Command Prompt** and select **Run as administrator**.)

<<On Windows Vista>>



② At the command prompt, use the **arp** command to set a temporary IP address and a MAC address.



Use the following commands to set the temporary IP address for the printer.

- 1. **arp -d** printer's_temporary_IP_address
- 2. arp -s printer's temporary IP address printer's MAC address
- 3. **ping** printer's_temporary_IP_address
- 4. **arp -d** printer's_temporary_IP_address

Example: To set a temporary IP address of 192.168.32.55

arp -d 192.168.32.55 arp -s 192.168.32.55 00-11-62-00-03-4D ping 192.168.32.55 arp -d 192.168.32.55

Point! The temporary IP address that you set here will be cleared when the printer's power is switched off. You should therefore immediately proceed to set a regular IP address for the printer.



6.2. Manually Setting an IP Address

You can use the telnet command to connect directly to a TUP500 printer.

If using Windows Vista, begin with the following preliminary steps to ensure that Telnet is enabled.

- (1) From the **Start** menu, open the **Control Panel**.
- ② Select Programs and Features.
- ③ Under Tasks, select Turn Windows features on or off.

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- ④ When the User Account Control dialog appears, click Continue.
- (5) If **Telnet Client** is not yet checked, place a check next to it. Then click **OK**.

🔄 Windows Features	- • •
Turn Windows features on or off	0
To turn a feature on, select its check box. To turn a feature check box. A filled box means that only part of the feature	off, clear its is turned on.
Subsystem for UNIX-based Applications	
Tablet PC Optional Components	
Telnet Client	-
Telnet Server	
TFTP Client	_
ОК	Cancel

If you had to add the check in the previous step (if Telnet Client was not already checked to begin with), you must now restart your computer.



To manually set the IP address, proceed as follows.

① Open a Command Prompt window.

At the Windows Start menu, select **All Programs – Accessories – Command Prompt**. (If using Windows Vista, right-click on **Command Prompt** and select **Run as administrator**.)

<<On Windows Vista>>

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② Use the telnet command to connect to the printer you wish to set.

Administrator: Command Prompt		_	
Microsoft Windows [Version 6.0.6000] Copyright (c) 2006 Microsoft Corporation.	All rights	reserved.	
C:\Windows\system32>telnet 192.168.32.55			

Example:> telnet <u>192.168.32.55</u>

Ţ

IP address of the printer you wish to set.

Point! You cannot connect to a printer that does not have an IP address. If necessary, set a temporary IP address for the printer before using telnet.
For instructions, refer to Section 6.1, "Manually Setting a Temporary IP Address."

③ Log into the printer as "root".

The factory default setting for the password is "public". (If the password has been changed, use the current password.)

🚥 Telnet 192.168.32.55	_ 🗆 🗙
Welcome to IFBD-HE05/06 TELNET Utility. Copyright(C) 2005 Star Micronics co., Ltd.	_
<< Connected Device >> Device Model: TUP592 (STR_T-001) NIC Product : IFBD-HE05/06 MAC Address : 00:11:62:04:83:98	
login: root Password: *****	
I	- -



- ④ The following menu appears.
 - 1) IP Parameters Configuration
 - 2) System Configuration
 - 3) Change Password
 - 96) Display Status
 - 97) Reset Settings to Defaults
 - 98) Save & Restart
 - 99) Quit
 - Enter Selection:

Enter the number corresponding to the action you wish to carry out.

🖦 Telnet 192.168.32.55	_ 🗆 🗙
login: root Password: ****** Hello root	
=== Main Menu === 1) IP Parameters Configuration 2) System Configuration 3) Change Password 96) Display Status 97) Reset Settings to Defaults 98) Save & Restart 99) Quit	
Enter Selection: _	-
•	• //

(5) When you have finished making settings, select 98 (Save and Restart) and then select either 1 (Save & Restart device and Configuration printing) or 2 (Save & Restart Device). This will save the settings and reset the printer.



6.3. Setting up a TCP/IP Printer Port

6.3.1 Adding a TCP/IP Printer Port

- ① On Windows 2000 and XP, go to the Start menu and open **Printers and Faxes**. On Windows Vista, go to the Start menu and select **Settings Printers**.
- ② Right-click over a blank area in the Printers folder to open the drop-down menu. If using Windows 2000 or XP, select Server Properties from the menu. If using Windows Vista, select Run as administrator Server Properties.

<<On Windows Vista>>

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- ③ If you are using Windows Vista, the User Account Control dialog appears. Click Continue.
- ④ Select the **Ports** tab, and click **Add Port**.

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0044	Serial Port		
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(5) For the port type, select Standard TCP/IP Port. Then click New Port.



6 Click Next.



⑦ Next to Printer Name or IP Address, enter the IP address for the TCP/IP port you are creating. Next to Port Name, enter the port name to be created. Then click Next.
The TCP/IP port detection print detection of the port.

The TCP/IP port detection window appears, and Windows detects the port.

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(8) For the device type, select Generic Network Card. Then click Next.





③ The wizard's completion window appears. To complete creation of the port with the displayed characteristics, click Finish.



1 Click Close.

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4-allede port types:	
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(1) If the new TCP/IP port appears correctly in the port list, port creation has completed successfully.

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6.3.2 Changing a TCP/IP Printer Port

- ① On Windows 2000 and XP, go to the Start menu and open **Printers and Faxes**. On Windows Vista, go to the Start menu and select **Settings Printers**.
- ② In the folder that opens, right-click the TUP500 printer icon. From the drop-down menu, select Properties (if Windows 2000 or XP) or select Run as administrator Properties (if Vista).

<<On Windows Vista>>

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- ③ If you are using Windows Vista, the User Account Control dialog appears. Click Continue.
- ④ Select the **Ports** tab.

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■ To change the IP address...

① Select the port whose address you wish to change, and click **Configure Port**.

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② Enter the new IP address, and click OK.

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• To change the port used to print... Select the desired port from the port list, and click Apply.

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To change the port name...

It is not possible to change the name of an existing port. Instead, add a new port under the desired new name, select that port for printing, and then delete the port with the old name.



7. Revision History

Rev. No.	Date of Revision	Changes
Rev. 1.0	Dec . 2008	First edition





ELECTRONIC PRODUCTS DIVISION STAR MICRONICS CO., LTD.

536 Nanatsushinya, Shimizu-ku, Shizuoka, 424-0066 Japan Tel: (int+81)-54-347-0112, Fax: (int+81)-54-347-0709

Please access the following URL *http://www.star-m.jp/eng/dl/dl02.htm* for the latest revision of the manual.

OVERSEAS SUBSIDIARY COMPANIES STAR MICRONICS AMERICA, INC.

1150 King Georges Post Road, Edison, NJ 08837-3729 U.S.A. Tel: (int+1)-732-623-5555, Fax: (int+1)-732-623-5590

STAR MICRONICS EUROPE LTD.

Star House, Peregrine Business Park, Gomm Road, High Wycombe, Bucks, HP13 7DL, U.K. Tel: (int+44)-1494-471111, Fax: (int+44)-1494-473333

STAR MICRONICS ASIA LTD.

Rm. 1901-5, 19/F., Enterprise Square Two, 3 Sheung Yuet Road, Kowloon Bay, Hong Kong Tel: (int+852)-2796-2727, Fax: (int+852)-2799-9344