TOSHIBA

TOSHIBA Bar Code Printer

Printer Driver

Operating Manual

15th Edition: M

May 31, 2016

TOSHIBA TEC CORPORATION

Table of Contents

INTRO	DDUCTION	1
1. GE	NERAL DESCRIPTION	2
1.1 1.2 1.3 1.4 1.5 1.6 1. 1.7	Features Applicable printers Notation Screens Used in This Document Trademark and Copyright Operational Conditions 6.1 Operation System 6.2 Hardware	2 2 4 4 6 6 6
Pre 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8	paratory Procedure Common to All Models Preparation for Installation Installation under Windows 2000/XP/Server2003 Installation under Windows Vista/Server2008/7/Server2008R2/8 Installation under Windows 2000 (USB with Plug & Play Enabled) Installation under Windows XP/Server2003 (USB with Plug & Play enabled) Installation under Windows Vista/Server 2008/7/Server2008R2/8 (USB with Plug & Play Enabled) Installation under Windows Vista/Server 2008/7/Server2008R2/8 (USB with Plug & Play Enabled) Installation under Windows Vista/Server 2008/7/Server2008R2/8 (USB with Plug & Play Enabled) Installation under Windows XP/Server2003 (Parallel interface with Plug & Play Enabled)	17 19 26 35 38 40 41
2.9	Installation under Windows Vista/Server2008/7/Server2008R2/8 (Parallel Interface with Plug & Play	
	bled) Uninstalling the Printer Driver	
	.10.1 To delete the printer drivers except for V6.5 Build75 and V6.5 Build77	
2.	.10.2 To delete the V6.5 Build75 or V6.5 Build77	50
3. F	unctions	51
3	Page Setup Tab .1.1 Registering a new stock or editing the existing stock .1.2 Preset .1.3 Advanced Options	58 61 62
3.2	Graphics Tab	
3.3 3.4	Stock Tab Options Tab	
3	.4.1 Multiple Part Print Area Settings (B-EV4-G only)	70
	.4.2 Ribbon Adjustments	
3.5 3	Fonts Tab .5.1 Bar Code Font	
3.6	Tools Tab	
3.7	Designation of Printer Font	89
4. Sys	stem Configuration	93
4.1	System Configuration Example	94
5. Ad	dition/Deletion of Standard TCP/IP Port	96
5.1	Addition	97
5.2	Deletion	
6. Ap	pendix	. 101
6.1	How to Enable Bi-directional Communication Support	. 101
6.2	Parameter Setting on the Printer	. 102
6.3	How to Connect the Printer to LAN	. 103

Copyright © 2016 by TOSHIBA TEC CORPORATION All Rights Reserved 570 Ohito,Izunokuni-shi,Shizuoka-ken,JAPAN

Introduction

Thank you for purchasing the TOSHIBA bar code printer.

This document gives you a general description of the installation, operation, and functions of the TPCL*-enabled printer driver (BDRV-WBX8-Z31 Version 7.4.1 M-3).

The latest printer driver can be downloaded from TOSHIBA TEC bar code system website at the following URL:

http://www.toshibatec.com/download_overseas/printer/printer_driver/

* TPCL: Abbreviation of TEC Printer Control Language

1. General Description

1.1 Features

This product is a printer driver designed for TOSHIBA bar code printer and used under Windows 2000, Windows XP, Windows Server 2003, Windows Vista, Windows Server 2008, Windows 7, Windows Server 2008 R2, Windows 8, Windows 8.1, Windows Server 2012, Windows Server 2012 R2 or Windows 10.

Note: Windows 2000 is not supported though installation of this product is possible.

- Enables easy printing from Windows applications.
- Enables a use of the bar code printer just like an office-use laser or ink jet printer, even if you do not know bar code printer specific commands.
- Enables easy setup of the label size, sensors, cut operation, and other functions unique to the bar code printer.
- The host PC is connectable to the printer with RS-232C, Parallel, USB, LAN or Bluetooth.
- **Note**: Usable interface type varies depending on the printer models. For details, please refer to the Owner's Manual of the printer. Bluetooth and IrDA are not supported.
- The bar code printer's built-in fonts can be used as well as Windows TrueType fonts.
- Bar codes and 2D codes can be printed only by registering a desired code as a font in the printer driver.

B-452-R B-452-TS-R **B-SX5T** B-SX5T-TS12-QQ/QQ-US/QP. (305 dpi) B-SX5T-TS22-QQ/QQ-US/QP/QM-R B-852-R B-852-TS22-QQ/QP-R B-SX5T-C B-SX5-TS12-CN, N (305 dpi) B-SX5T-TS22-CN/CN-R **B-EP2DL-G** B-EP2DL-GH20/GH30/GH40-QM-R B-SX6T-TS12-QM-R B-SX6T (305 dpi) **B-EP4DL-G** B-EP4DL-GH20/GH30/GH40-QM-R B-SX8T-TS12-QM-R B-SX8T (305 dpi) B-EV4 B-EV4D-G, B-EV4T-G B-EX4T1-GS12-QM/CN-R B-EX4T1 (203 dpi) (203 dpi) B-EV4 B-EV4D-T, B-EV4T-T B-EX4T1 B-EX4T1-TS12-QM/CN-R (300 dpi) (305 dpi) B-SA4T B-SA4TM-GS12-QM-R. B-EX4T2 B-EX4T2-GS12-QM/CN-R (203 dpi) B-SA4TP-GS12-QM-R (203 dpi) B-EX4D2-GS12-QQ/QM-R **B-SA4T-CN** B-SA4TM-GS12-CN-R. B-EX4T2 B-EX4T2-TS12-QM/CN-R B-SA4TP-GS12-CN-R (203 dpi) (300 dpi) B-SA4T B-SA4TM-TS12-QM-R, B-EX4T2 B-EX4T2-HS12-QM/CN-R (300 dpi) B-SA4TP-TS12-QM-R (600 dpi) **B-SA4T-CN** B-SA4TM-TS12-CN, B-462-R B-462-TS22-CN-R (300 dpi) B-SA4TP-TS12-CN B-SV4 B-SV4D-QM/QM-R/CGE/CGE-R/CN/ B-FV4 B-FV4T-GS12/GS14/GS16-QM-R, QQ-US (203 dpi) B-FV4T-GS14/GS16-CN-R, B-SV4T-QM-R B-FV4D-GS12/GS14/GS16-QM-R, B-FV4D-GS14/GS16-CN-R. B-FV4D-GH14-QM-R, B-FV4D-GL14-QM-R B-SX4T B-SX4T-GS10-QQ/QQ-US/QP, B-FV4 B-FV4T-TS12/TS14/TS16-QM-R, B-SX4T-GS20-QQ/QQ-US/QP/QM-R (203 dpi) (300 dpi) B-FV4T-TS14/TS16-CN-R, B-FV4D-TS12/TS14/TS16-QM-R, B-FV4D-TS14/TS16-CN-R **B-SX4T-CN** B-SX4T-GS10-CN. B-FP3D B-FP3D-GH30-QM-R B-SX4T-GS20-CN/CN-R (203 dpi) (203 dpi) B-FP3D-GH40-QM-R B-FP3D-GS30-QM-R B-FP3D-GS40-QM-R

1.2 Applicable printers

B-EX6T1	B-EX6T1-GS12-QM/CN-R	B-EX6T3	B-EX6T3-GS12-QM/CN-R
	B-EX6T1-TS12-QM/CN-R		B-EX6T3-TS12-QM/CN-R

1.3 Notation

- Names of menus, screens, icons, buttons, tabs, and items are enclosed in square brackets ([]). For example: Click the [OK] button.
- Wordings shown on the computer monitor and the LCD message display of your printer are enclosed in double quotation marks (" ").
 For example: "ON LINE".
- Titles of the chapters and sections to be referred to are expressed in bold and Italic. For example: Please refer to **Section 1.1 Features.**

1.4 Screens Used in This Document

Screens shown in this document are examples used for explaining operations. Unless otherwise specified, an operation system used in this document is Windows XP. Please note that the screens shown may differ depending on your usage environment and conditions.

1.5 Trademark and Copyright

Microsoft and Windows are trademarks of Microsoft Corporation in the United States and other countries. Other company and product names may be registered trademarks or trademarks of others. Each company's registered trademarks and trademarks are not marked with TM or ®. This document uses the following abbreviations.

- Microsoft® Windows® 2000 Professional operating system and Microsoft® Windows® 2000 Server operating system: Windows 2000
- Microsoft® Windows® XP Home Edition operating system and Microsoft® Windows® XP Professional operating system: Windows XP
- Microsoft® Windows® Server 2003, Standard Edition operating system, Microsoft® Windows® Server 2003, Enterprise Edition operating system, Windows® Server 2003, Datacenter Edition operating system, Windows® Server 2003, Web Edition operating system, Microsoft® Windows® Server 2003 R2, Standard Edition operating system, Microsoft® Windows® Server 2003 R2, Enterprise Edition operating system, Microsoft® Windows® Server 2003 R2, Datacenter Edition operating system, and Microsoft® Windows® Server 2003 R2, Web Edition operating system: Windows Server 2003
- Microsoft® Windows® Vista Ultimate operating system and Microsoft® Windows® Vista Enterprise
 operating system and Microsoft® Windows® Vista Business operating system and Microsoft® Windows®
 Vista Home Premium operating system and Microsoft® Windows® Vista Home Basic operating system:
 Windows Vista
- Microsoft® Windows® Server 2008, Standard Edition operating system, Microsoft® Windows® Server 2008, Enterprise Edition operating system, Microsoft® Windows® Server 2008, Datacenter Edition operating system and Microsoft® Windows® Web Server 2008 Edition operating system: Windows Server 2008
- Microsoft® Windows® 7 Ultimate operating system and Microsoft® Windows® 7 Enterprise operating system and Microsoft® Windows® 7 Professional operating system and Microsoft® Windows® 7 Home Premium operating system: Windows 7
- Microsoft® Windows® Server 2008 R2, Standard Edition operating system, Microsoft® Windows® Server 2008 R2, Enterprise Edition operating system, Microsoft® Windows® Server 2008 R2, Datacenter Edition operating system and Microsoft® Windows® Web Server 2008 R2 Edition operating system: Windows Server 2008 R2
- Microsoft® Windows® 8 Enterprise operating system and Microsoft® Windows® 8 Professional operating system and Microsoft® Windows® 8 operating system and Microsoft® Windows® 8.1 Enterprise operating system and Microsoft® Windows® 8.1 Professional operating system and Microsoft® Windows® 8.1 operating system: Windows 8
- Microsoft® Windows® Server 2012, Standard Edition operating system, Microsoft® Windows® Server 2012, Enterprise Edition operating system, Microsoft® Windows® Server 2012, Datacenter Edition operating system and Microsoft® Windows® Web Server 2012 Edition operating system: Windows Server 2012
- Microsoft® Windows® Server 2012 R2, Standard Edition operating system, Microsoft® Windows®

Server 2012 R2, Enterprise Edition operating system, Microsoft® Windows® Server 2012 R2, Datacenter Edition operating system and Microsoft® Windows® Web Server 2012 R2 Edition operating system: Windows Server 2012 R2

• Microsoft® Windows® 10 Enterprise operating system and Microsoft® Windows® 10 Professional operating system and Microsoft® Windows® 10 operating system: Windows 10

1.6 Operational Conditions

This product can be used under the following system requirements.

1.6.1 Operation System

Windows 2000, Windows XP, Windows Server 2003, Windows Vista, Windows Server 2008, Windows 7 (32 bit/64 bit), Windows Server 2008 R2, Windows 8 (32 bit/64 bit), Windows Server 2012, Windows Server 2012 R2 or Windows 10 (32 bit/64 bit).

- Notes: 1. 64-bit operating systems except Windows 7, Windows Server 2008 R2, Windows 8, Windows Server 2012, Windows Server 2012 R2 and Windows 10 are not applicable.
 - 2. Windows 2000 is not supported though installation of this product is possible.

1.6.2 Hardware

A DOS/V (IBM AT compatible) machine running the above Windows operation system must be used along with the following mandatory or recommended requirements.

	Requirement	Recommendation		
CPU	Intel® Pentium® II 400MHz or greater	Intel® Pentium® III 1GHz or greater		
Memory	64MB or more	256MB or more		
HDD	10MB or more free size			

1.7 Cautions for Installation (IMPORTANT)

Please be sure to read the following cautions before using this product.

• When you are going to install an upgraded version of the TEC printer driver, you must first uninstall the older version in advance. For how to uninstall the printer driver, refer to Section 2.10 Uninstalling the Printer Driver.

Failure to do so may cause unstable printing operations due to the influences of the files and registry related to the old version remaining in the system. Follow the procedure in **Section 2.10 Uninstalling** *the Printer Driver*, and the files and registry related to the printer driver will be deleted from the system.

- Note: This printer driver uses common program for the all applicable printer models.
 - Even if the printer model is different, TPCL printer driver of different version cannot be used on the same PC.
 - When installing TPCL printer driver for a new model on the PC in which the TPCL printer driver of different version for another printer model has been already installed, the existing printer driver needs to be deleted.

• Be sure to set the [Printer Status Monitoring] as shown in the table below. The status monitor has been disabled as default. Wrong setting disables proper printing.

■ Configuration for the Status Monitor

When the [Printer Status Monitoring] is set to other than "Disabled", it is possible to monitor the printer status from the host computer. When this feature is not supported or is unnecessary, choose the "Disabled" for the [Printer Status Monitoring]. Doing so reduces the load on the printer driver and increases the print efficiency.

					0	: Any setting	X: Disabled
	Interface						
	RS-232C ^{*1} (Serial interface cable)	Conformi	Printer cable) ^{*2} ng to IEEE1284 ble/ECP mode)	USB	LAN/\ 10BASE-T/1		Bluetooth
Conditions Printer model	_	Other than the right column	CENTRO.MODE=ECP PLUG&PLAY=ON	Ver1.1 /2.0	Standard TCP/IP Port(RAW)	Other Port	
B-SX6T (305 dpi) B-SX8T (305 dpi)	0	х	Not supported	0	0	х	х
B-EX4T1 (203 dpi) B-EX4T1 (305 dpi)	0	х	Not supported	0	0	х	х
B-EX4T2 (203 dpi) B-EX4T2 (300 dpi) B-EX4T2 (600 dpi) B-EX4D2 (203 dpi)	0	Х	Not supported	0	0	x	х
B-EX6T1 (203 dpi) B-EX6T1 (305 dpi)	0	х	Not supported	0	0	х	х
B-EX6T3 (203 dpi) B-EX6T3 (305 dpi)	0	х	Not supported	0	0	х	х
B-EV4 (203 dpi)	х	х	Not supported	х	х	х	х
B-EV4 (300 dpi)	х	х	Not supported	х	х	х	х
B-FV4 (203 dpi)	Х	Х	Not supported	х	Х	х	х
B-FV4 (300 dpi)	Х	Х	Not supported	х	х	х	Х
B-EP2DL-G	0	Not supported	Not supported	0	0	Х	0
B-EP4DL-G	Not supported	Not supported	Not supported	0	0	Х	0
B-452-R	0	Х	Not supported	0	0	Х	Х
B-462-R	0	Х	Not supported	0	0	Х	Х
B-852-R	0	Х	Not supported	0	0	Х	Х
B-SA4T (203 dpi), B-SA4T-CN (203 dpi), B-SA4T (300 dpi), B-SA4T-CN (300 dpi)	0	х	Not supported	0	0	x	х
B-SX4T (203 dpi), B-SX4T-CN (203 dpi) B-SX5T (305 dpi), B-SX5T-CN (305 dpi)	0	Х	0	0	0	х	х
B-SV4	0	х	Not supported	0	Not supported	Not supported	х
B-FP3D (203 dpi)	Х	Х	х	0	O	X	0

Notes:

1. When RS-232C (Serial interface) is used for connection, it will take time until printing starts. It is recommended to use other interfaces as far as possible.

- Whenever the "CENTRO. MODE" is set to "ECP" in the printer system mode, be sure to set the "PLUG & PLAY" to ON. And, whenever the "CENTRO. MODE" is set to "SPP", be sure to set the "PLUG & PLAY" to OFF. (The "CENTRO. MODE" and "PLUG & PLAY" have been set to "SPP" and "OFF" as the factory default settings, respectively. To enable the bi-directional communication, be sure to set the "CENTRO. MODE" to "ECP" and "PLUG & PLAY" to "ON". For details of the printer parameter setting, refer to Section 6.2 Parameter Setting on the Printer.
- If printing is performed with the status monitor enabled though this feature is not available or not necessary, delete the print job and disable the [Printer Status Monitoring].
- If you start the status monitor by mistake, close the status monitor and disable the [Printer Status Monitoring].
- When the status monitor is used to monitor the printer statuses, do not install more than one printer driver specifying the same output port in one host PC. When more than one printer driver is installed in a PC, disable the [Printer Status Monitoring]. Also, when multiple computers connect to the same printer, specify that printer as the shared printer or disable the [Printer Status Monitoring.
- When Kanji characters are used as bar code font data, click the [Tool] tab – [Configure] button – [Printer Options], and select the "ESC/LF/NUL" for the "Control Codes" of the "Command Protocol".
 - Bar code font types that accept Kanji data: PDF417, MicroPDF417, Data Matrix, Maxicode, QR code
 - The default setting of the "Control Codes" is "Standard". Be sure to change this setting when you print Kanji characters as bar code data, otherwise an error results.

Printer Options
Printer Options
Automatic Status <u>R</u> esponse
Include Job Information
Check Command Sequence
Command Protocol
Control Codes: ESC / LF / NUL V
Start of Command: <esc> 27</esc>
End of Command: <lf> 🗸 10</lf>
End of Line: <nul> 🕑 0</nul>
Add CR/LF at end of line
OK Cancel Help

The default setting of the function character is a caret "^" (5EH). When using bar code fonts like QR code and if you want to specify a function character as bar code data, you need to specify two function characters consecutively.

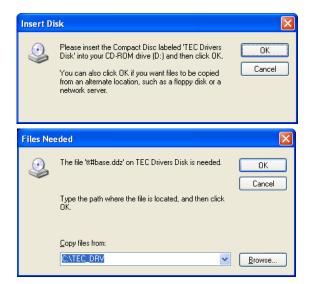
For example, when a caret "^" is used as the function character, enter "^ " as bar code data.

💩 TEC B-SA4T (300 dpi) Printing Preferences 🛛 🛛 🛛 🔀					
Page Setup Gra	phics Stock Options About				
C Stock	·	Π			
Name: USER (4.09 in x 2.92 in)					
	Ne <u>w</u> <u>E</u> dit <u>D</u> elete				
Preview	Orientation Effects				
	Portrait Mirror Image				
ALE	O Landscape 📃 Nega <u>t</u> ive				
	O Portrait 180°				
•	C Landscape 180*				
Preset					
N <u>a</u> me: <de< td=""><td>efault Settings> 🛛 🖌 Manage</td><td></td></de<>	efault Settings> 🛛 🖌 Manage				
	Advanced Options	D			
© 1999-2014 TOSHIBA TEC CORPORATION. All Rights Reserved.					
	© 1997-2014 Seagull Scientific, Inc., Authors of the BarTender® label software.				
	OK Cancel Apply Help				

Click the [Page Setup] tab, [Advanced Options] button, and specify the Function Character. This is used when binary data is specified as bar code data.

Advanced Options
Printing Position User Commands Driver Options User Commands Start of Job Start of Label End of Label End of Job
Eunction Character: Insert Insert Insert Insert Insert OK Cancel Apply Help

 When installing the printer driver via USB with "Plug & Play" enabled, the messages like "Insert Disk" and "Files Needed" dialog boxes may be displayed. In this case, click the [OK] button in the "Insert Disk" dialog box, and specify the folder (C:\TEC_DRV) for the "Files Needed" dialog box.



- When using this product for the B-EP2DL-G or B-EP4DL-G, set the printer mode to "TPCL-LE", "TPCL-LE1", "TPCL", or "TPCL1" by using the Printer Setting Tool or the keys on the printer. For the key operations, refer to the B-EP Series Key Operation Specification.
- When a device font is used, the actual print result looks different from the print preview. Print the label format, and check and adjust the label format.
- RFID fonts are not supported.
- The stock sizes, A4, A5, and A6, shown in this product do not define the paper size in DEVMODE (DMPAPER_A4, DMPAPER_A5, and DMPAPER_A6). They are the stock IDs unique to this product. The following table shows the stock IDs for the standard stock types registered to the printer driver. When a new stock type is additionally registered, an ID will be assigned in the order of registration, starting from 257. The stock ID can be changed on the Edit Stock screen. Use these IDs when specifying or checking a stock size of dmPaperSize.

Stock name Stock ID		ID
Slock hame	Current	Old
USER	256	256
2x4	32000	257
4x4	32001	258
4x6	32002	259
200x85	32004	260
A4	32005	261
A5	32006	262
A6	32007	263
JAMA L	32010	267
JAMA M	32011	268
JAMA S	32012	269
Form-F	32009	270
Form-A	32008	271
185x85	32003	272
6x4	32013	
2x2	32014	

ATTENTION:

The IDs for the standard stock types have been totally changed from Version 7.2 M-2, which causes mismatching in the IDs between the older printer driver and the new printer driver. Therefore, when printing is performed from the application which manages the stock types for Excel, Access, etc. by their IDs assigned by the older printer driver version, a wrong stock may be selected.

In this case, change the stock IDs back to the former ones using the following procedure.

- (1) For the user-added stocks, import the settings of the previous printer driver to the new printer driver. (User-added stocks are imported with their original IDs.)
- (2) For the standard stock types, the stock IDs registered to the new printer driver are unchangeable. So, select the standard stock type, click on the [New], and save it as a new stock assigning the former ID listed the table on the left.

The stock list is sorted by ascending order of stock name (Symbol, number, alphabet, Kana, and Kanji), regardless of the stock ID.

Page Setup	Graphics Stock Options About
Stock-	
<u>N</u> ame:	USER (4.09 in x 2.92 in)
	USER (4.09 in x 2.92 in)
	2 x 4 (2.00 in x 4.00 in)
	4 x 4 (4.00 in x 4.00 in)
- Preview-	4 x 6 (4.00 in x 6.00 in)
	Form-A (4.09 in x 8.39 in)
	Form-F (4.09 in x 6.89 in)

- In the case an export file of the previous version is imported, the preset paper settings may be reset. After importing the preset settings, check the settings.
- When Access2007 is used, some paper names may not be correctly shown. To set the paper names, click the [Page Setup] and open the "Edit Stock" dialog.
- When the LPT or COM port configuration is changed under Windows Vista/Server2008, conduct it with administrative privilege.
- When the port configuration is changed under Windows Vista/Server2008, the dialog box on the right may be displayed. In this case, change the port configuration with administrative privilege.

Configu	re Port
	An error occurred during port configuration. This operation is not supported.
	ОК

 Bitmap fonts cannot be used for Access. When using Access, remove the check from the "List Bitmap Font" checkbox in the "Font Settings" dialog.

Font Settings	? 🛛
Resident Fonts Utility Fonts Encoding	
CScalable Font Settings	
✓ List Scalable Fonts	
List Condensed and Expanded Widths	
List Specified Scale <u>Factors</u>	
Pe <u>r</u> centages:	
Bitmap Font Settings	
List <u>B</u> itmap Fonts	
Simulate Scalable Fonts	
List <u>M</u> agnifications	
List Condensed and Expanded Widths	
Compatibility Settings	
List Multiple Character Set Fonts Separately	
OK Cancel Apply	Help
OK Cancel <u>Apply</u>	Пер

- Do not install other Seagull Scientific printer drivers in the PC where this product has been installed. If you installed any by mistake, uninstall the all printer drivers by the DriverWizard, then reinstall this product only.
- When printing is performed from an application created by Active Reports, open the Properties, click the [Advanced] tab, and remove the check from the "Enable advanced printing features" checkbox.

Hold mismatched documents
✓ Print spooled documents first
<u>Keep printed documents</u>
Enable advanced printing features
Printing Defaults Print Processor Separator Page
OK Cancel Apply Help

When data with a large number of digits is encoded into a bar code (or 2D code), and if that bar code cannot be printed within a page width, such data will be invalid.

When you use data with a large number of digits, click the [Fonts] tab, select the bar code font, click the [Font] button and the [Edit], then, check the "Join Multiple Lines" checkbox. When this checkbox is checked, every data specifying the same font will be incorporated into one bar code. If you want to print more than one bar code of the same font with this feature enabled, register required number of bar code fonts.

Example: When you want to print three Code128 symbols in a page with the "Join Multiple Lines" enabled, register three Code128 bar code fonts and specify one to one: Barfont Code128-1

Barfont Code128-2 Barfont Code128-3

Bar Code Fon	i		X
Font			
Font <u>N</u> ame:	BarFont Code128	Normal 💌	
Encoding:	Western (ANSI 1252)	Multiple Lines	
Bar Code Optic	ons		
Symbology:	Code 128		~
X Dimension:	16.7 mils	<u>Orientation</u> :	0° 🔽
<u>H</u> uman Readab	ble: Below Bars	Ratio;	Auto 🔽
Symbology Spe			
Check Digi			
	uto 🗸		
	ОК	Cancel	Help

If data including a space at the beginning or at the end is printed in bar code font, such space is deleted from the data. Multiple data with the same Y-coordinate and same bar code font specified are all connected. To avoid this, click the [Fonts] tab and [Tools] button, select the "Font Settings", click the [Utility Fonts] tab, then remove the check from the "Combine Adjacent Bar Code & RFID Fields" checkbox.

Font Settings	?×
Resident Fonts Utility Fonts Encoding	
Utility Font Settings	
✓ List <u>U</u> tility Fonts	
List Bar Code and RFID Fonts	
✓ List Printer Command Font	
List Driver Command Font	
 Compatability Settings 	
Combine Adjacent Bar Code & RFID Fields	
OK Cancel Apply I	Help

 In the case more than one print job is continuously printed, these jobs may not be printed in the order displayed in the print queue. To avoid this, check the checkbox of "Print spooled documents first."

Hold mismatched documents	
Print spooled documents first	
Keep printed documents	
Enable advanced printing features	
Printing Defaults Print Processor Separator	Page
OK Cancel Apply	Help

When the OS is Windows Vista/7/8/10, changing the printer name with "Enable bi-directional support" unchecked may cause the setup information to be non-editable. In this case, check the "Enable bidirectional support" checkbox and click the [OK] button. Then, open the same screen again and remove the check from the "Enable bidirectional support" checkbox.

It is possible to save the setup information by temporarily enabling the bi-directional support after changing the printer name.

 In the case of Bluetooth communication, click the [Tools] tab and [Setting] button, select the "Printer Option" ,then check the "Bluetooth Connection" checkbox.
 Also check the "Enable bidirectional support" checkbox in the [Port] tab.

Add Port	Delete Port	Configure Port
nable bidirectional s	upport	
Enable printer pooling		

Printer Communicati		
<u>D</u> elay Close:	1000	ms
	0	K Cancel Help

How to open the Properties with the administrative privilege

To change some of the settings under Windows Vista/Server2008, the administrative privilege is necessary. Right-click the printer icon, select the "Run as administrator", and click the "Properties".

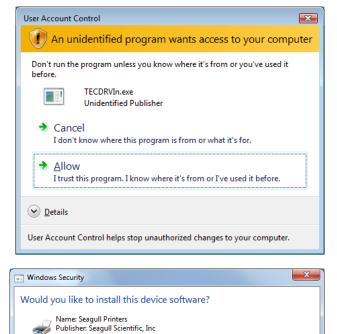
T	Open	
۲	Run as administrator	Open
	Printing Preferences	Pause Printing
	Pause Printing	Sharing
	Sharing	Use Printer Offlin
	Use Printer Offline	Delete
	Refresh	Properties
	Create Shortcut	
	Delete	

Note: The "User account control" dialog box may be displayed. In that case, click the [Allow].

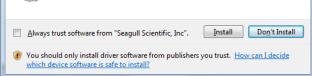
How to set up Windows Vista/Server2008/7/Server2008R2/8/Server2012/Server2012R2/10 again

If you uninstall the printer driver, set up the Windows again. This should be also conducted when the installation does not succeed.

- 1. Select the "Start", "All programs", "TOSHIBA TEC", "TPCL Printer Driver", and "TECDRVIN".
 - Note: Log on as the user with administrative privilege. The "User account control" dialog may be displayed. In that case, click the [Allow].



2. When the screen on the right appears, click the [Install] button.



■ If plug-and-play installation fails under Windows Vista/Server2008/7/Server2008R2/8/ Server2012/Server2012R2/10

If an undefined device is created after a plug-and-play installation, follow the procedure below.

- 1. Select the "Start", "All programs", "TOSHIBA TEC", "TPCL Printer Driver", and "PnP recovery".
 - Note: Log on as the user with administrative privilege. The "User account control" dialog may be displayed. In that case, click the [Allow].

User Account Control	X					
I program needs your permission to continue						
If you started this program, continue.						
Seagull Driver Wizard Seagull Scientific, Inc						
D etails	<u>Continue</u> Cancel					
User Account Control helps stop unaut	horized changes to your computer.					

2. When the screen on the right appears, click the [Install] button.

Windows Security
Would you like to install this device software? Name: Seagull Printers Publisher: Seagull Scientific, Inc
Always trust software from "Seagull Scientific, Inc".
You should only install driver software from publishers you trust. How can I decide which device software is safe to install?

2. Installation Procedure

The installation procedure of this printer driver differs depending on the printer models and the connection methods. Follow the procedure for the appropriate condition to install the printer driver.

If the older version of this printer driver has been already installed, be sure to uninstall it first, restart the printer, and install the latest printer driver. *Section 2.10 Uninstalling the Printer Driver*.

Preparatory Procedure Common to All Models

Before installing the printer driver, refer to Section 2.1 Preparation for Installation and follow the instructions.

Printer driver installation method

				Connectable	X: Not co	nnectable	
	Connection method						
Printer model	P	lug and Play	Plug a	nd Play is used.			
	RS232C	LAN	Parallel	Bluetooth	USB	Parallel	
B-SX8T (305 dpi)	0	0	0	Х	0	0	
B-SX6T (305 dpi)	0	0	0	Х	0	0	
B-SV4	0	0	0	Х	0	Х	
B-EV4 (203 dpi), B-EV4 (300 dpi)	0	0	0	Х	0	Х	
B-EP2DL-G	0	0	Х	0	0	Х	
B-EP4DL-G	0	0	Х	0	0	Х	
B-452-R	0	0	0	Х	0	0	
B-462-R	0	0	0	Х	0	0	
B-852-R	0	0	0	Х	0	0	
B-SA4T (203 dpi),	0	0	0	Х	0	0	
B-SA4T-CN (203 dpi),							
B-SA4T (300 dpi),							
B-SA4T-CN (300 dpi)							
B-SX4T (203 dpi),	0	0	0	Х	0	0	
B-SX4T-CN (203 dpi)							
B-SX5T (305 dpi),	0	0	0	Х	0	0	
B-SX5T-CN (305 dpi)							
B-EX4T1 (203 dpi),	0	0	0	Х	0	0	
B-EX4T1 (305 dpi)							
B-EX4T2 (203 dpi),	0	0	0	Х	0	0	
B-EX4T2 (300 dpi),							
B-EX4T2 (600 dpi),							
B-EX4D2 (203 dpi),							
B-EX6T1 (203 dpi)	0	0	0	Х	0	0	
B-EX6T1 (305 dpi)							
B-EX6T3 (203 dpi)	0	0	0	Х	0	0	
B-EX6T3 (305 dpi)							
B-FV4 (203 dpi),	0	0	0	Х	0	Х	
B-FV4 (300 dpi)							
B-FP3D (203 dpi)	Х	0	Х	0	0	Х	

Note: The above table does not show the all interface types that each printer supports.

Check that your actual connection method is O (connectable), refer to the *Installation method by operating* systems on the following page, and follow the appropriate installation procedure.

Installation method by operating systems

Plug RS-232C Section 2.2 2000/XP/Se	LAN Install		Bluetooth	Plug and Pla USB Section 2.4 Install under Windows 2000 (USB interface with plug and play enabled)	y is used. Parallel (*1) Section 2.7 Install under Windows 2000 (Parallel interface with plug and play
Section 2.2	Install	under Wi		Section 2.4 Install under Windows 2000 (USB interface	Section 2.7 Install under Windows 2000 (Parallel
			ndows	Windows 2000 (USB interface	Windows 2000 (Parallel
				inth plug and plug chabled)	enabled)
				Section 2.5 Install under Windows XP/Server2003 (USB interface with plug and play enabled.)	Section 2.8 Install under Windows XP/Server2003 (Parallel interface with plug and play enabled)
Vista/Serve Server2008	r2008/ R2/8/S	7/ erver	ndows	Section 2.6 Install under Windows Vista/Server2008/7/ Server2008R2/8/Server2012/Se	Section 2.9 Install under Windows Vista/Server2008/7 / Server2008R2/8/Server2012
2012/30170	20120	2/ 10		enabled)	/Server2008R2/0/Server2012 /Server2012R2/10 (Parallel interface with plug and play enabled)
v S	/ista/Serve Server2008	/ista/Server2008/ Server2008R2/8/S	Section 2.3 Install under Wi Vista/Server2008/7/ Server2008R2/8/Server 012/Server2012R2/ 10	Server2008R2/8/Server	interface with plug and play enabled.) Section 2.3 Install under Windows Vista/Server2008/7/ Server2008R2/8/Server 012/Server2012R2/10 Server20 Server2

*1: If you choose the parallel interface with plug and play enabled, you need to change some parameter settings on the printer. The "plug and play" feature has been disabled as default for the parallel interface connection. See the following.

In the case installing a shared printer, follow the procedure described in "*To print on the shared printer*" in **Section 2.2 Installation under Windows 2000/XP/Server2003** and **Section 2.3 Installation under Windows Vista/Server2008/7/Server2008R2/8/Server2012/Server2012R2/10**. When you want to use Plug and Play, follow the above procedure.

• Printer parameter settings when installing the printer driver via parallel interface with plug and play enabled:

B-SX4 Series and B-SX5 Series

Start the printer in the system mode, enter the <2>PARAMETER SET menu, and set the following parameters as below:

When you use the bi-directional communication, set the CENTRO. MODE to ECP and PLUG & PLAY to ON, respectively. The parameter setting procedure is provided in *Section 6.2 Parameter Setting on the Printer*.

B-SA4 Series, B-852-R, B-452-R, B-SX6T-R, B-SX8T-R, B-EX4 Series and B-462-R

Start the printer in the system mode, enter <2>PARAMETER SET menu, and set the following parameter:

PLUG & PLAY: ON (Default: OFF)..... Enables an installation of the printer driver with plug and play

Since the printer status monitor cannot be used, disable the "Bi-directional support" in the Properties of the printer driver.

2.1 Preparation for Installation

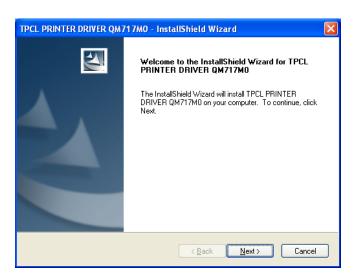
1. Access Toshiba TEC web site at the following address and download the printer driver install file "TPCL-drv_7.4.1_M-3_E.exe" to the local disc.

http://www.toshibatec-ris.com/download_overseas/printer/printer_driver/

Note: If you do not agree with the Software License Agreement, you cannot download the file.

 Double-click the downloaded "TPCL-drv_7.4.1_M-3_E.exe", and the "TPCL PRINTER DRIVER – Installshield Wizard" is displayed. Click the [Next] button. Note: Log on as the user with administrative privilege. When the User Account Control screen is displayed under Windows Vista/Server2008/7/Server2008R2/8/Server201 2/Server2012R2/10, click on the "Allow".

User Account Control	3			
In unidentified program wants access to your computer	r			
Don't run the program unless you know where it's from or you've used it before.				
TPCL-drv_7.1.7_M-0_E.exe Unidentified Publisher				
Cancel I don't know where this program is from or what it's for.				
Allow I trust this program. I know where it's from or I've used it before.				
User Account Control helps stop unauthorized changes to your computer.				



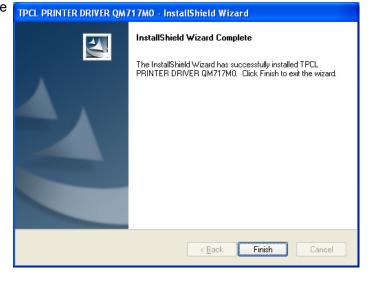
3. The "Software License Agreement" is displayed. Select "I accept the terms of the license agreement" and click the [Next] button. Note: If you do not agree with the Software License Agreement, you cannot download the file.

TPCL PRINTER DRIVER QM717M0 - InstallShield Wizard	×
License Agreement Please read the following license agreement carefully.	
 You may use this Software on a single TOSHIBA TEC bar-code printer acquainted from affiliated company, dealer or distributor of TOSHIBA TEC. You shall not grant a sub-license, distribute, transfer, lend or otherwise dispose of this Software, in whole or in part, for the use of any third party other than you except as otherwise expressly provided herein. You shall not modify, reverse engineering, reverse compile or reverse disassemble this Software, in whole or in part, except as otherwise expressly provided herein. You shall not copy or make a duplicate (or backup copy) of this Software, in whole or in part, except as otherwise expressly provided herein. 	
I accept the terms of the license agreement I do not accept the terms of the license agreement IstallShield	

4. When you click the [Install] button, the printer driver install file is created in "C:\TEC_DRV".
 Note: The folder name cannot be changed from "C:\TEC_DRV".

TPCL PRINTER DRIVER QM717M0 - InstallShield Wizard
Ready to Install the Program The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< <u>B</u> ack Install Cancel

5. When the installation is completed, click the [Finish] button.



Note: In the case of Windows Vista/Server2008/7/ Server2008R2/8/Server2012/Server2012R2/10, the screen on the right will appear. Click the [Install] button.

Windows Security	×
Would you like to install this device software? Name: Seagull Printers Publisher: Seagull Scientific, Inc	
Always trust software from "Seagull Scientific, Inc".	Install Don't Install
You should only install driver software from publishers yo which device software is safe to install?	ou trust. <u>How can I decide</u>

- 18 -

2.2 Installation under Windows 2000/XP/Server2003

Note: Proper operation is not guaranteed on the PC running Windows 2000.

1. Turn on the PC.

Note: Log on as the user with administrative privilege.

2. Select the "Start", "Printer and FAX" to show the printer folder.

Supplement: In the case of Windows 2000, select "Start", "Setting", and "Printer". If the "Printer and FAX" folder is not found, click the "Control Panel" and select the "Printer and FAX". In the case of the category view, click the "Printer and Other Hardware" and select the "Printer and FAX".

- ${\it 3.}$ Select the "Add printer" from the File menu. The "Add Printer Wizard" is displayed.
- **4.** Click the [Next] button in the "Add Printer Wizard".

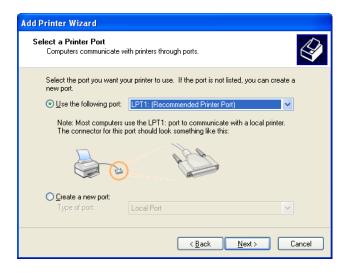


- 5. Select the "Local printer attached to this computer" and click the [Next] button.
 - **Note**: Do not check the "Automatically detect and install my Plug and Play printer" checkbox.

Even in the case of specifying the network printer or a printer connected to other PC, be sure to choose the local printer in this step. This setting is changed after the installation is completed. (*To print on the shared printer.*)

Add Printer Wizard
Local or Network Printer The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use:
Local printer attached to this computer
Automatically detect and install my Plug and Play printer
A network printer, or a printer attached to another computer
To set up a network printer that is not attached to a print server, use the "Local printer" option.
< <u>₿</u> ack <u>N</u> ext> Cancel

6. Specify a printer port and click the [Next] button.



7. When the "Install Printer Software" screen appears, click the [Have Disk] button.

The manufacturer and model	determine which printer software to use.
	nd model of your printer. If your printer came with an installation our printer is not listed, consult your printer documentation for 2.
Manufacturer Alps Alps Apple Apple APS-PS	Printers Printers AGFA-AccuSet v52.3 AGFA-AccuSet SF v52.3 AGFA-AccuSet 800SF v52.3 AGFA-AccuSet 800SF v52.3
💱 This driver is digitally signed.	Windows Update Have Disk

8. Specify the printer driver install folder (C:/TEC_DRV) created in Section 2.1 Preparation for Installation, and click the [Open] button. Select the "TEC.inf" and click the [OK] button.

Locate File			? 🛛
Look jn: 🗀	TEC_DRV	💌 🕝 🤌	📂 🛄 -
📑 TEC.inf			
File <u>n</u> ame:	TEC.inf	~	<u>O</u> pen
Files of <u>t</u> ype:	Setup Information (*.inf)	~	Cancel
Files of type.	setup information (.inf)	× .	Cancer .

 $9. \,$ The list of the installable printer is displayed.

Install Printer Software The manufacturer and model determine which printer software to use.					
	your printer. If your printer came with an installation not listed, consult your printer documentation for				
Printers					
TEC B-SA4T (300 dpi)					
TEC DISAME CN (202 dei)					
TEC B-SA4T-CN (203 dpi) TEC B-SA4T-CN (300 dpi)					
TEC B-SA4T-CN (203 dpi) TEC B-SA4T-CN (300 dpi) TEC B-SV4					

Driver name	Model	Driver name	Model	Driver name	Model
TEC B-852-R	B-852-TS22-QQ-R B-852-TS22-QP-R	TEC B-SA4G (203 dpi)	B-SA4TM-GS12-QM-R B-SA4TP-GS12-QM-R	TEC B-SA4T (300 dpi)	B-SA4TM-TS12-QM-R B-SA4TP-TS12-QM-R
TEC B-SA4T-CN (203 dpi)	B-SA4TP-GS12-CN-R	TEC B-SA4T-CN (300 dpi)	B-SA4TM-TS12-CN B-SA4TP-TS12-CN	TEC B-SV4	B-SV4D-GS10-QM B-SV4D-GC10-QM B-SV4D-GS10-QM-R B-SV4D-GC10-QM-R B-SV4D-GS10-CN B-SV4D-GH10-QQ-US B-SV4T-GS10-QM-R
TEC B-SX4T (203 dpi)	B-SX4T-GS10-QQ B-SX4T-GS10-QQ-US B-SX4T-GS10-QP B-SX4T-GS20-QQ B-SX4T-GS20-QQ-US B-SX4T-GS20-QP B-SX4T-GS20-QM-R	TEC B-SX4T-CN (203 dpi)	B-SX4T-GS10-CN B-SX4T-GS20-CN B-SX4T-GS20-CN-R	TEC B-SX5T (305 dpi)	B-SX5T-TS12-QQ B-SX5T-TS12-QQ-US B-SX5T-TS12-QP B-SX5T-TS22-QQ B-SX5T-TS22-QQ-US B-SX5T-TS22-QP B-SX5T-TS22-QM-R
TEC B-SX5T-CN (305 dpi)	B-SX5T-TS12-CN B-SX5T-TS22-CN B-SX5T-TS22-CN-R	TEC B-SX6T (305 dpi)	B-SX6T-TS12-QM-R	TEC B-SX8T (305 dpi)	B-SX8T-TS12-QM-R
TEC B-452-R	B-452-TS22-QQ/QP-R B-452-TS22-CN	TEC B-EP2DL-G	B-EP2DL-GH20-QM-R B-EP2DL-GH30-QM-R B-EP2DL-GH40-QM-R	TEC B-EP4DL-G	B-EP4DL-GH20-QM-R B-EP4DL-GH30-QM-R B-EP4DL-GH40-QM-R
TEC B-EV4 (203 dpi)	B-EV4D-GS14-QM-R B-EV4T-GS14-QM-R	TEC B-EV4 (305 dpi)	B-EV4D-TS14-QM-R B-EV4T-TS14-QM-R	TOSHIBA B-EX4T1 (203 dpi)	B-EX4T1-GS12-QM-R B-EX4T1-GS12-CN-R
TOSHIBA B-EX4T1 (305 dpi)	B-EX4T1-TS12-QM-R B-EX4T1-TS12-CN-R	TOSHIBA B-EX4T2 (203 dpi)	B-EX4T2-GS12-QM-R B-EX4T2-GS12-CN-R B-EX4D2-GS12-QQ-R B-EX4D2-GS12-QM-R	TOSHIBA B-EX4T2 (300 dpi)	B-EX4T2-TS12-QM-R B-EX4T2-TS12-CN-R
TOSHIBA B-EX4T2 (600 dpi)	B-EX4T2-HS12-QM-R B-EX4T2-HS12-CN-R	TEC B-462-R	B-462-TS22-CN-R	TOSHIBA B-FP3D (203 dpi)	B-FP3D-GH30-QM-R B-FP3D-GH40-QM-R B-FP3D-GS30-QM-R B-FP3D-GS40-QM-R
TOSHIBA B-FV4 (203 dpi)	B-FV4T-GS12-QM-R B-FV4T-GS14-QM-R B-FV4T-GS16-QM-R B-FV4T-GS16-CN-R B-FV4D-GS16-CN-R B-FV4D-GS12-QM-R B-FV4D-GS16-QM-R B-FV4D-GS16-CN-R B-FV4D-GS16-CN-R B-FV4D-GS16-CN-R B-FV4D-GH14-QM-R B-FV4D-GL14-QM-R	TOSHIBA B-FV4 (300 dpi)	B-FV4T-TS12-QM-R B-FV4T-TS14-QM-R B-FV4T-TS16-QM-R B-FV4T-TS16-CN-R B-FV4T-TS16-CN-R B-FV4D-TS12-QM-R B-FV4D-TS14-QM-R B-FV4D-TS16-QM-R B-FV4D-TS16-CN-R B-FV4D-TS16-CN-R	TOSHIBA B-EX6T1 (203 dpi)	B-EX6T1-GS12-QM-R B-EX6T1-GS12-CN-R
TOSHIBA B-EX6T1 (305 dpi)	B-EX6T1-TS12-QM-R B-EX6T1-TS12-CN-R	TOSHIBA B-EX6T3 (203 dpi)	B-EX6T3-GS12-QM-R B-EX6T3-GS12-CN-R	TOSHIBA B-EX6T3 (305 dpi)	B-EX6T3-TS12-QM-R B-EX6T3-TS12-CN-R

- $10. \,\,$ Select the model to be installed, and click the [Next] button.
- 11. Select the "Replace existing driver", and click the [Next] button.

Supplement: This step will be omitted when the printer driver is installed for the first time.

Add Printer Wizard
Use Existing Driver A driver is already installed for this printer. You can use or replace the existing driver.
TEC B-SA4T (300 dpi)
Do you want to keep the existing driver or use the new one?
<u>K</u> eep existing driver (recommended) <u>Replace existing driver</u>
< <u>Back</u> <u>Next></u> Cancel

12. Select whether or not to use the printer as a default printer, then click the [Next] button.

Add Printer Wizard	
Name Your Printer You must assign a name to this printer.	
Type a name for this printer. Because some programs do no name combinations of more than 31 characters, it is best to possible.	
Printer name:	
TEC B-SA4T (300 dpi)	
Do you want to use this printer as the default printer?	Next > Cancel

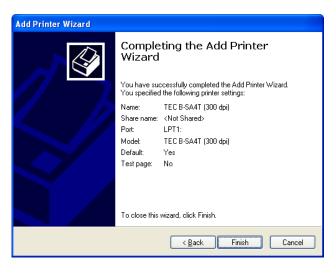
13. Select whether or not to share the printer with other users on the network, then click the [Next] button.

Add Printer Wizard
Printer Sharing You can share this printer with other network users.
If you want to share this printer, you must provide a share name. You can use the suggested name or type a new one. The share name will be visible to other network users.
Do not share this printer
O <u>S</u> hare name:
< <u>B</u> ack <u>N</u> ext > Cancel

14. Select whether or not to perform a print test, then click the [Next] button.

Add Printer Wizard	
Print Test Page To confirm that the printer is installed properly, you can print a test page.	Þ
Do you want to print a test page?	
<u>○Y</u> es	
⊙ Nd	
< <u>B</u> ack <u>N</u> ext > Cancel	

15. When the "Completing the Add Printer Wizard" is displayed, click the [Finish] button.



- 16. When the screen on the right appears, click the [Continue Anyway] button.
 - Note: "Digital Signature Not Found" message may be displayed. In that case, click the [Yes] button.



- 17. Installation of the printer driver starts.
- 18. When the installation is completed, a new printer icon will be added to the "Printer" folder.

■ To print on the shared printer

- 1. Conduct above-mentioned steps 1 through 18.
- $2. \ \mbox{Log}$ on as the user which is allowed to access the PC with which the printer is shared.
 - Note: This work requires the administrative privilege. For the user with no administrative privilege, grant it temporarily.
- ${\it 3.}\,$ Right-click the newly added icon, and select the "Properties" to open the "Properties" screen.

📽 TEC B-SA4T (300 dpi) Properties 🛛 🔹 💽							
General	Sharing	Ports	Advanced	Security	Fonts	Tools	About
S	TEC	B-SA4T	(300 dpi)				
Location	n:						
Commer	nt:						
M <u>o</u> del:	TEC	3-SA4T	(300 dpi)				
Featur	es						
Color:	No		Pap	er availabl	e:		
Doubl	e-sided: N	0					<u>^</u>
Staple	:: No						
Speed	± Unknov	'n					
Maximum resolution: 300 dpi							
Printing Preferences Print <u>I</u> est Page							
OK Cancel Apply Help							

4. Click the [Port] tab, then click the [Add Port] button.

👹 TEC B-SA4T (300 dpi) Properties 🛛 🔹 💽
General Sharing Ports Advanced Security Fonts Tools About
TEC B-SA4T (300 dpi)
Print to the following port(s). Documents will print to the first free checked port.
Port Description Printer 🔥
LPT1: Printer Port TEC B-SA4T (300 dpi)
LPT2: Printer Port
LPT3: Printer Port
COM1: Serial Port
COM2: Serial Port
COM3: Serial Port
COM4: Serial Port
Add Port Delete Port Configure Port
Enable bidirectional support
Enable printer pooling
OK Cancel Apply Help

5. Select the "Local Port", and click the [New Port] button.

Printer Ports	? 🛛
<u>A</u> vailable port types:	
Local Port	
Standard TCP/IP Port	
New Port Type	New <u>P</u> ort Cancel

Port Name	? 🛛
<u>E</u> nter a port name:	OK
*****\TECB-SA4	Cancel

- 7. When the port setting is completed, click the [OK] button to close the "Properties" screen.
 - Note: After installing this printer driver, be sure to disable the Bi-directional support. For details, refer to Section 6.1 How to Enable Bi-directional Communication Support.

Since the setup information is stored in each PC that shares the printer, please configure the printer driver settings after the completion of the port setting.

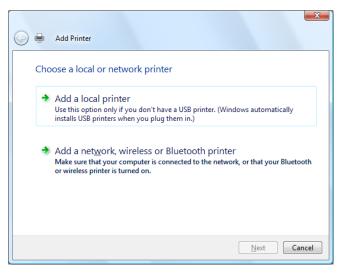
2.3 Installation under Windows Vista/Server2008/7/Server2008R2/8/Server2012/Server2012R2/1 0

Note: If the installation did not succeed, follow the procedure described in *How to set up Windows Vista/Server2008/7/Server2008R2/8/Server2012/Server2012R2/10 again.*

l. Turn on the PC.

Note: Log on as the user with administrative privilege.

- Select "Start", "Control Panel", "Hardware and Sound", and "Printer" to open the printer folder.
 Supplement: Entering "Printer" in the Search box of the Start menu causes the "Printer" to be shown in the Program.
- 3. Click the "Install a Printer" to start adding a printer.
- 4. Select the "Add a local printer".



5. Select a printer port, and click the [Next] button.

🖶 Add Printer		
Choose a printer po	rt	
A printer port is a type of cor printer.	nnection that allows your compute	er to exchange information with a
Use an existing port:	LPT1: (Printer Port)	
Oreate a new port:		
Type of port:	Local Port	
		Next Cance

6. When the screen on the right appears, select "TEC" from the Manufacturer list.

instan the printer	r driver	
		model of your printer. If your printer came with an installation
disk, click Hav compatible prin		printer is not listed, consult your printer documentation for
Manufacturer	*	Printers
Apollo		Apollo P-1200
Brother		Apollo P2100/P2300U
		Apollo P2200
Canon		
Canon Citizen	-	
	-	Windows Update Have Disk

 $7. \ \ \,$ The list of the installable printer models are displayed.

Install the pr	inter driver		
Choos	e your printer from th	he list. Click Windows Update to see more models.	
To ins	all the driver from an	n installation CD, click Have Disk.	
	1050	1	20
Manufacturer	*	Printers	
Sharp		TEC B-SA4T (300 dpi)	_
Sony		TEC B-SA4T-CN (203 dpi)	
TOSHIBA		TEC B-SA4T-CN (300 dpi)	
TOSHIBA TEC		TEC B-SV4	
v	•		
	has an Authenticode	(tm) signature. Windows Update H	ave Disk

Driver name	Model	Driver name	Model	Driver name	Model
TEC B-852-R	B-852-TS22-QQ-R B-852-TS22-QP-R	TEC B-SA4T (203 dpi)	B-SA4TM-GS12-QM-R B-SA4TP-GS12-QM-R	TEC B-SA4T (300 dpi)	B-SA4TM-TS12-QM-R B-SA4TP-TS12-QM-R
TEC B-SA4T-CN (203 dpi)	B-SA4TP-GS12-CN-R	TEC B-SA4T-CN (300 dpi)	B-SA4TM-TS12-CN B-SA4TP-TS12-CN	TEC B-SV4	B-SV4D-GS10-QM B-SV4D-GC10-QM B-SV4D-GS10-QM-R B-SV4D-GC10-QM-R B-SV4D-GS10-CN B-SV4D-GH10-QQ-US B-SV4T-GS10-QM-R
TEC B-SX4T (203 dpi)	B-SX4T-GS10-QQ B-SX4T-GS10-QQ-US B-SX4T-GS10-QP B-SX4T-GS20-QQ B-SX4T-GS20-QQ-US B-SX4T-GS20-QP B-SX4T-GS20-QM-R	TEC B-SX4T-CN (203 dpi)	B-SX4T-GS10-CN B-SX4T-GS20-CN B-SX4T-GS20-CN-R	TEC B-SX5T (305 dpi)	B-SX5T-TS12-QQ B-SX5T-TS12-QQ-US B-SX5T-TS12-QP B-SX5T-TS22-QQ B-SX5T-TS22-QQ-US B-SX5T-TS22-QP B-SX5T-TS22-QM-R
TEC B-SX5T-CN (305 dpi)	B-SX5T-TS12-CN B-SX5T-TS22-CN B-SX5T-TS22-CN-R	TEC B-SX6T (305 dpi)	B-SX6T-TS12-QM-R	TEC B-SX8T (305 dpi)	B-SX8T-TS12-QM-R
TEC B-452-R	B-452-TS22-QQ/QP-R B-452-TS22-CN	B-EP2DL-G	B-EP2DL-GH20-QM-R B-EP2DL-GH30-QM-R B-EP2DL-GH40-QM-R	TEC B-EP4DL-G	B-EP4DL-GH20-QM-R B-EP4DL-GH30-QM-R B-EP4DL-GH40-QM-R
TEC B-EV4 (203 dpi)	B-EV4D-GS14-QM-R B-EV4T-GS14-QM-R	TEC B-EV4 (300 dpi)	B-EV4D-TS14-QM-R B-EV4T-TS14-QM-R	TOSHIBA B-EX4T1 (203 dpi)	B-EX4T1-GS12-QM-R B-EX4T1-GS12-CN-R
TOSHIBA B-EX4T1 (305 dpi)		TOSHIBA B-EX4T2 (203 dpi)	B-EX4T2-GS12-QM-R B-EX4T2-GS12-CN-R B-EX4D2-GS12-QQ-R B-EX4D2-GS12-QM-R	TOSHIBA B-EX4T2 (300 dpi)	B-EX4T2-TS12-QM-R B-EX4T2-TS12-CN-R

Driver name	Model	Driver name	Model	Driver name	Model
TOSHIBA	B-EX4T2-HS12-QM-R	TEC B-462-R	B-462-TS22-CN-R	TOSHIBA	B-FP3D-GH30-QM-R
B-EX4T2 (600 dpi)	B-EX4T2-HS12-CN-R			B-FP3D (203 dpi)	B-FP3D-GH40-QM-R
				api)	B-FP3D-GS30-QM-R
					B-FP3D-GS40-QM-R
TOSHIBA	B-FV4T-GS12-QM-R	TOSHIBA	B-FV4T-TS12-QM-R	TOSHIBA	B-EX6T1-GS12-QM-R
B-FV4 (203	B-FV4T-GS14-QM-R	B-FV4 (300	B-FV4T-TS14-QM-R	B-EX6T1 (203	B-EX6T1-GS12-CN-R
dpi)	B-FV4T-GS16-QM-R	dpi)	B-FV4T-TS16-QM-R	dpi)	
	B-FV4T-GS14-CN-R		B-FV4T-TS14-CN-R		
	B-FV4T-GS16-CN-R		B-FV4T-TS16-CN-R		
	B-FV4D-GS12-QM-R		B-FV4D-TS12-QM-R		
	B-FV4D-GS14-QM-R		B-FV4D-TS14-QM-R		
	B-FV4D-GS16-QM-R		B-FV4D-TS16-QM-R		
	B-FV4D-GS14-CN-R		B-FV4D-TS14-CN-R		
	B-FV4D-GS16-CN-R		B-FV4D-TS16-CN-R		
	B-FV4D-GH14-QM-R				
	B-FV4D-GL14-QM-R				
TOSHIBA	B-EX6T1-TS12-QM-R	TOSHIBA	B-EX6T3-GS12-QM-R	TOSHIBA	B-EX6T3-TS12-QM-R
B-EX6T1	B-EX6T1-TS12-CN-R	B-EX6T3	B-EX6T3-GS12-CN-R	B-EX6T3 (305	B-EX6T3-TS12-CN-R
(305 dpi)		(203 dpi)		dpi)	

Γ

- 8. Select a model to be installed, then click the [Next] button.
- 9. Select the "Replace the current driver", and click the [Next] button.

Supplement: This step will be omitted when the printer driver is installed for the first time.

10.	Select whether or not to use the printer as a
	default printer, then click the [Next] button.

C the Add Printer	
Which version of the driver do you want to use?	
Windows detected that a driver is already installed for this printer.	
 Use the driver that is currently installed (recommended) Replace the current driver 	
	Next Cancel
	X
G 🖶 Add Printer	
Compared Add Printer	
Type a printer name Printer name: TEC B-SA4T (300 dpi)	
Type a printer name	
Type a printer name Printer name: TEC 8-SA4T (300 dpi) Set as the gefault printer	
Type a printer name Printer name: TEC 8-SA4T (300 dpi) Set as the gefault printer	
Type a printer name Printer name: TEC B-SA4T (300 dpi) Set as the gefault printer	

- X |

11. Installation starts.

12. When the installation is completed, the "Add Printer" screen is displayed. At this time, a new printer icon is added to the "Printer" folder. Click the [Finish] button. If you want to perform a print test, click the [Print a test page] button.

You've succ	essfully adde	ed TEC B-SA4	T (300 dpi)		
To check if you test page. Print a tes		ng properly, or to	see troubleshooti	ng information for th	e printer, print i

■ To print on the shared printer (1)

- l. Conduct above-mentioned steps 1 through 12.
- - Note: This work requires the administrative privilege. For the user with no administrative privilege, grant it temporarily.
- $\mathcal{3}$. Right-click the newly added icon, and select the "Properties" to open the "Properties" screen.

TEC B-SA4	T (300 dpi) Pr	operties				— ×
Fo	nts		Tools		Abou	t
General	Sharing	Ports	Advanced	Colo	r Management	Security
	TEC B-S	A4T (300	dpi)			
Location:						
Comment:						
M <u>o</u> del: Features	TEC B-SA	4T (300)				
Color: N	0		Paper	availab	le:	
Double-	sided: No					*
Staple: N						
	Inknown					
Maximu	m resolution:	300 dpi				*
			Pr <u>e</u> ferences		Print <u>T</u> est F	age
		ОК	Cance		Apply	Help

- 4. Click the "Ports" tab, and remove the check from the "Enable bi-directional support" checkbox. Click the [Add Port] button.
 - Note: After installing this printer driver, be sure to disable the bi-directional support. For details, refer to Section 6.1 How to Enable Bi-directional Communication Support.

👼 TEC B-SA4T ((300 dpi) Properties			×	
Fonts		Tools	Abou	t	
General S	haring Ports	Advanced	Color Management	Security	
	TEC B-SA4T (300 dpi)				
Print to the for checked port	ollowing port(s). Do	cuments will pr	int to the first free		
Port	Description	Printer		<u> </u>	
LPT1:	Printer Port	TEC B-	SA4T (300 dpi)		
LPT2:	Printer Port				
LPT3:	Printer Port			E	
COM1:	Serial Port				
COM2:	Serial Port				
COM3:	Serial Port				
FILE:	Print to File			-	
Add P	or <u>t</u>	<u>D</u> elete Port	<u>C</u> onfigure F	Port	
Enable bid	irectional support	1			
Enable pri	nter pooling				
	ОК	Cancel	Apply	Help	

5. Select the "Local Port", and click the [New Port] button.

Printer Ports	×
<u>Available port types:</u>	
Local Port Standard TCP/IP Port	
New Port Type	New Port Cancel

Port Name	X
Enter a port name:	ОК
*****\TECB-SA4	Cancel

- 7. When the port setting is completed, click the [OK] button to close the "Properties" screen.
 - Note: After installing this printer driver, be sure to disable the Bi-directional support. For details, refer to Section 6.1 How to Enable Bi-directional Communication Support.

Since the setup information is stored in each PC that shares the printer, please configure the printer driver settings after the completion of the port setting.

■ To print on the shared printer (2)

Note: If the printer driver of different version has been already installed, first uninstall it, then install this printer driver. The version of the printer drivers in the server PC and client PC must be the same.

Read before installation

The printer driver installed in the server PC must support Windows Vista / Server 2008 / 7 / Server 2008R2 / 8 / Server 2012 / Server 2012R2 / 10.

For the client PC, the printer driver needs to be installed in or uninstalled from each user account.

Configure the network settings for the Server PC's shared printer driver, as shown in the screen on the right.

Driver Options
Administration Network Settings Regional Options Printer Specifications
Network Features
<u>B</u> idirectional Communication
Configuration Sharing
Status: Not Available Network Setup
Printing Preferences Share settings between all users Share settings between all documents Security Users allowed to modify settings:
Network users allowed to modify settings:
OK Cancel Apply Help

l. Turn on the PC.

Note: Log on as the user with administrative privilege.

- 2. Follow the procedure described in **Section 2.1 Preparation for Installation**.
- β . Log on as the user which is allowed to access the PC with which the printer is shared.
- 4. Select the "Start", "Control Panel", "Hardware and Sound", and "Printer" to open the printer folder.
 Supplement: Entering "Printer" in the Search box of the Start menu causes the "Printer" to be shown in the Program.
- $5.\,$ Click the "Install a Printer" to start adding a printer.

6. Select the "Add a network, wireless or Bluetooth printer".

6	Add Printer
Cho	pose a local or network printer
•	Add a local printer Use this option only if you don't have a USB printer. (Windows automatically installs USB printers when you plug them in.)
•	Add a network, wireless or Bluetooth printer Make sure that your computer is connected to the network, or that your Bluetooth or wireless printer is turned on.
	Next Cancel

7. Click the "The printer that I want isn't listed".

🚱 🖶 Add Printer	x
Searching for available printers	
Stop	
✤ The printer that I want isn't listed	
Next Ca	ncel

 $8. \label{eq:select} Click the "Select a shared printer by name", enter the network path of the shared printer (e.g. \\\^*****\TECB-SA4), then click the [OK] button.$

(Add Printer	×
F	Find a printer by name or TCP/IP address	
	Select a shared printer by name	
	*****\TECB-SA4	Browse
	Example: \\computername\printername or http://computername/printers/printername/.printer	
	Add a printer using a TCP/IP address or hostname	
		Next Cancel

9. Installation starts.

Windows Printer Installation	x
Connecting to TECB-SA4 on *****	
	Cancel

Supplement: If the dialog box on the right appears after the installation, click the [Disable] button.

ECB-SA	4 on ***** Error
	The printer driver cannot connect to the network print server.
	You may either try again to connect, or disable network features. If you disable network features, you can turn them on again later in the Network Settings dialog.
	Without connectivity, features like bidirectional communication and configuration sharing will not be available. Press the help button for more information and possible solutions.
	Retry Disable Help

10. Select whether or not to use the printer as a default printer, then click the [Next] button.

🕞 🖶 Add Printer	
Type a printer name	
Printer name: TECB-SA4 on *****	
This printer has been installed with the TEC B-SA4T driver.	
	Next Cancel

11. When the installation is completed, the screen on the right will appear. At this time, a new printer icon is added to the "Printer" folder. Click the [Finish] button.

If you want to perform a print test, click the [Print a test page] button.

Note: Since the setup information is stored in each PC that shares the printer, please configure the printer driver settings after the completion of the port setting.

Add Printer	
've successfully added TECB-SA4 on *****	
4 on ***** Error	
The printer driver cannot connect to the network print server. You may either try again to connect, or disable network features. If you disable network features, you can turn them on again later in the Network Settings dialog. Without connectivity, features like bidirectional communication and configuration sharing will not be available. Press the help button for more information and possible solutions. Retry Disable Help	
	I've successfully added TECB-SA4 on ***** A on ***** Error The printer driver cannot connect to the network print server. You may either try again to connect, or disable network features. If you disable network features, you can turn them on again later in the Network Settings dialog. Without connectivity, features like bidirectional communication and configuration sharing will not be available. Press the help button for more information and possible solutions.

2.4 Installation under Windows 2000 (USB with Plug & Play Enabled)

Note: Proper operation is not guaranteed on the PC running Windows 2000.

I. Turn on the PC.

Note: Log on as the user with administrative privilege.

- 2. Turn on the printer and connect it to the PC with a USB cable.
- ${\it 3.}~$ "USB DEVICE" is detected and "USB Print support" is automatically installed.
- **4.** After a while, the "Found New Hardware Wizard" is displayed. Click the [Next] button.



5. Select the "Search for a suitable driver for my device (recommended)", and click the [Next] button.



6. Check the "Specify a location" checkbox, then click the [Next] button.

Found New Hardware Wizard
Locate Driver Files Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
Optional search locations:
Floppy disk drives
□ □ </td
< Back Next > Cancel

7. Click the [Browse] button. Specify the folder (C:\TEC_DRV) created in *Section 2.1*, and click the [Next] button.

Found New	w Hardware Wizard	×
	Insert the manufacturer's installation disk into the drive selected, and then click OK.	OK Cancel
	Copy manufacturer's files from:	Browse

The wizard has finished searching for driver files for your hardware device.

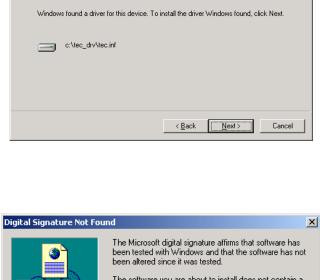
The wizard found a driver for the following device:

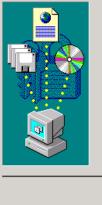
 ${\it 8.}$ Make sure the driver of this device has been detected, then click the [Next] button.

Device driver name

B-SA4G, B-SA4G-CN, B-SA4T, B-SA4T-CN, B-SX4, B-SX4-CN, B-SX5, B-SX5-CN, B-SX6T-R, B-SX8T-R, B-852-R, B-452-R, B-462-R, B-EX4T1-G, B-EX4T1-T, B-EX4T2-G, B-EX4T2-T, B-EX4T2-H, B-EP2DL-G, B-EP4DL-G, B-EV4-G, B-EV4-T, B-SV4, B-FV4-G, B-FV4-T, B-FP3D, B-EX6T1-G, B-EX6T1-T, B-EX6T3-G, B-EX6T3-T

9. When the screen on the right is displayed, click the [Yes] button.





und New Hardware Wizard

Driver Files Search Results

Unknown

Z

The software you are about to install does not contain a

Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows.

Printers

If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.

Do you want to continue the installation?

<u>Y</u>es More Info <u>N</u>o

10. When the "Completing the Found New Hardware Wizard" is displayed, click the [Finish] button.



 $11.\,$ When the installation is completed, a new printer icon is added to the Printer folder.

2.5 Installation under Windows XP/Server2003 (USB with Plug & Play enabled)

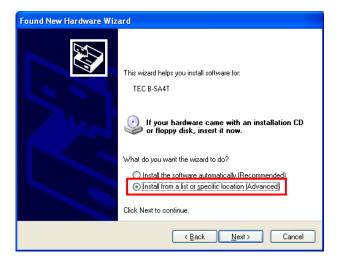
l. Turn on the PC.

Note: Log on as the user with administrative privilege.

- $2.\,$ Turn on the printer, and connect it to the PC with a USB cable.
- ${\it 3.}\,$ "USB DEVICE" is detected, and the "USB Print Support" is automatically installed.
- 4. After a while, new devices are detected.

New device names B-SA4G, B-SA4G-CN, B-SA4T, B-SA4T-CN, B-SX4, B-SX4-CN, B-SX5, B-SX5-CN, B-SX6T-R, B-SX8T-R, B-852-R, B-452-R, B-462-R, B-EX4T1-G, B-EX4T1-T, B-EX4T2-G, B-EX4T2-T, B-EX4T2-H, B-EP2DL-G, B-EP4DL-G, B-EV4-G, B-EV4-T, B-SV4, B-FV4-G, B-FV4-T,B-FP3D, B-EX6T1-G, B-EX6T1-T, B-EX6T3-G, B-EX6T3-T

5. When the "Found New Hardware Wizard" is displayed, select "Install from a list or specific location [Advanced]" and click the [Next] button.



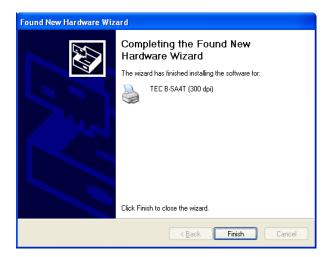
6. Select the "Search for the best driver in these locations", check the "Include this location in the search" checkbox, and click the [Browse] button. Specify the folder (C:\TEC_DRV) created in **Section 2.1**, and click the [Next] button.

Found New Hardware Wizard
Please choose your search and installation options.
⊙ Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM)
✓ Include this location in the search:
C:\TEC_DRV Browse
O Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< <u>B</u> ack Next > Cancel

7. When the screen on the right appears, click the [Continue Anyway] button.



 $8. \$ When the "Completing the Found New Hardware Wizard" is displayed, click the [Finish] button.



 $9. \,$ When the installation is completed, a new printer icon is added to the Printer folder.

2.6 Installation under Windows Vista/Server 2008 / 7 / Server2008R2 / 8 / Server2012 / Server2012R2 / 10 (USB with Plug & Play Enabled)

- Note: If an undefined device is created after installation of the printer driver, follow the procedure described in the section *If plug-and-play installation fails under Windows Vista / Server2008 / 7 / Server2008R2 / 8 / Server2012 / Server2012R2 / 10.*
- l. Turn on the PC.

Note: Log on as the user with administrative privilege.

- 2. Turn on the printer and connect it to the PC with a USB cable.
- ${\it 3.}$ Installation of the device driver software is automatically started.
- 4. After a while, the printer driver installation is completed.
- 5. When the installation is completed, a new printer icon is added to the Printer folder.

2.7 Installation under Windows 2000 (Parallel interface with Plug & Play Enabled)

Note: Proper operation is not guaranteed on the PC running Windows 2000.

- I. Connect the printer to the PC with a parallel interface cable.
- 2. Turn on the printer.
- ${\it 3.}$ Set the printer parameters in the system mode.

B-SX4 Series and B-SX5 Series

CENTRO. MODE \rightarrow ECP

PLUG & PLAY \rightarrow ON

B-SA4 Series, B-852-R, B-452-R, B-SX6T (305 dpi), B-SX8T (305 dpi), B-EX4 Series, B-EX6 Series and B-462-R

 $\mathsf{PLUG} \And \mathsf{PLAY} \to \mathsf{ON}$

Note: For the parameter setting procedure, refer to Section 6.2 Parameter Setting on the Printer.

4. Turn on the PC.

Note: Log on as the user with administrative privilege.

5. After the system started, new hardware is detected. When the "Welcome to the Found New Hardware Wizard" is displayed, click the [Next] button.



6. Select "Search for a suitable driver for my device (recommended)", then click the [Next] button.

Found New Hardware Wizard
Install Hardware Device Drivers A device driver is a software program that enables a hardware device to work with an operating system.
This wizard will complete the installation for this device: Unknown A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next. What do you want the wizard to do? © Search for a suitable driver for my device (recommended) © Display a list of the known drivers for this device so that I can choose a specific driver
< <u>B</u> ack <u>N</u> ext > Cancel

7. Check the "Specify a location" check box, and click the [Next] button.



8. Click the [Browse] button, specify the folder (C\TEC_DRV) created in *Section 2.1 Preparation for Installation*, and click the [Next] button.



9. Make sure the applicable drivers are detected, then click the [Next] button.

Device driver name

B-SA4G, B-SA4G-CN, B-SA4T, B-SA4T-CN, B-SX4, B-SX4-CN, B-SX5, B-SX5-CN, B-SX6T-R, B-SX8T-R, B-852-R, B-452-R, B-462-R, B-EX4T1-G, B-EX4T1-T, B-EX4T2-G, B-EX4T2-T, B-EX4T2-H, B-FV4-G, B-FV4-T, B-EX6T1-G, B-EX6T1-T, B-EX6T3-G, B-EX6T3-T



10. When the screen on the right is displayed, click the [Yes] button.



11. When the "Completing the Found New Hardware Wizard" is displayed, click the [Finish] button.

Found New Hardware Wizard		
	Completing the Found New Hardware Wizard TEC B-SA4T Windows has finished installing the software for this device. To close this wizard, click Finish.	
	< Back Finish Cancel	

 $12. \$ When the installation is completed, a new printer icon is added to the Printer folder.

2.8 Installation under Windows XP/Server2003 (Parallel interface with Plug & Play Enabled)

- I. Connect the printer to the PC with a parallel interface cable.
- 2. Turn on the printer.
- ${\it 3.}$ Set the printer parameters in the system mode.

B-SX4 Series and B-SX5 Series

CENTRO. MODE \rightarrow ECP

PLUG & PLAY \rightarrow ON

B-SA4 Series, B-852-R, B-452-R, B-SX6T (305 dpi), B-SX8T (305 dpi), B-EX4 Series, B-EX6 Series and B-462-R

 $\mathsf{PLUG} \And \mathsf{PLAY} \to \mathsf{ON}$

Note: For the parameter setting procedure, refer to Section 6.2 Parameter Setting on the Printer.

4. Turn on the PC

Note: Log on as the user with administrative privilege.

5. After the system is started, new hardware is detected. When the "Found New Hardware Wizard" is displayed, select the "Install from a list or specific location (Advanced)", then click the [Next] button.

Found New Hardware Wizard		
	This wizard helps you install software for: TEC B-SA4T If your hardware came with an installation CD or floppy disk, insert it now.	
	What do you want the wizard to do?	
	 Install the software automatically [Recommended] Install from a list or specific location (Advanced] 	
	Click Next to continue.	
	< <u>B</u> ack <u>N</u> ext > Cancel	

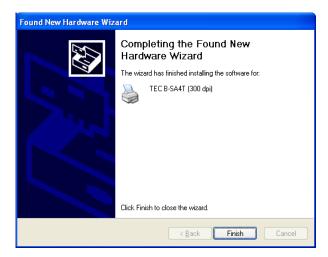
6. Select the "Search for the best driver in these locations", check the "Include this location in the search" checkbox, then click the [Browse] button. Specify the folder (C:\TEC_DRV) created in **Section 2.1**, and click the [Next] button.

Found New Hardware Wizard
Please choose your search and installation options.
 Search for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Include this location in the search: C:\TEC_DRV Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< <u>B</u> ack <u>N</u> ext > Cancel

7. When the screen on the right appears, click the [Continue Anyway] button.



8. When the "Completing the Found New Hardware Wizard" is displayed, click the [Finish] button.



 $9. \$ When the installation is completed, a new printer icon is added to the Printer folder.

2.9 Installation under Windows Vista / Server2008 / 7 / Server2008R2 / 8 / Server2012 / Server2012R2 / 10 (Parallel Interface with Plug & Play Enabled)

Note: If an undefined device is created after installation of the printer driver, follow the procedure described in the section *If plug-and-play installation fails under Windows Vista/Server2008/7/Server2008R2/8/Server2012/Server2012R2/10.*

- I. Connect the printer to the PC with a parallel interface cable.
- 2. Turn on the printer.
- ${\it 3.}$ Set the printer parameters in the system mode.

B-SX4 Series and B-SX5 Series

CENTRO. MODE \rightarrow ECP

 $\mathsf{PLUG} \And \mathsf{PLAY} \to \mathsf{ON}$

B-SA4 Series, B-852-R, B-452-R, B-SX6T (305 dpi), B-SX8T (305 dpi), B-EX4 Series, B-EX6 Series and B-462-R

$\mathsf{PLUG} \And \mathsf{PLAY} \to \mathsf{ON}$

Note: For the parameter setting procedure, refer to Section 6.2 Parameter Setting on the Printer.

4. Turn on the PC.

Note: Log on as the user with administrative privilege.

- 5. After the system is started, the installation of the device driver software is automatically started.
- 6. After a while, the installation of the printer driver is completed.
- 7. When the installation is completed, a new printer icon is added to the Printer folder.

2.10 Uninstalling the Printer Driver

2.10.1 To delete the printer drivers except for V6.5 Build75 and V6.5 Build77

In the following cases, be sure to uninstall the printer driver using the procedure below.

- When the same version is installed again.
- When an older version has been already installed.
- When the installation is canceled on the way or when the [No] is selected at a confirmation of the digital signature.
- When the printer driver cannot be installed for some reason.

Notes: 1. When installing the printer driver with Plug & Play enabled, turn OFF the printer first.

2 When the printer driver is deleted, the information of the registered stocks and bar codes are also deleted. This information can be saved in a file beforehand by using the export function, and restored by using the import function after re-installation of the printer driver.

• In the case of deleting the printer drivers except for V7.4 M-1

Before deleting the printer driver except for V7.4.1 M-3, follow the procedure described in **Section 2.1 Preparation for Installation**. Doing this causes the previously installed printer driver to be updated and creates the shortcut of the Driver Wizard in the TPCL Printer Driver of TOSHIBA TEC folder.

However, it is not possible to update the printer driver which is older than V6.9.3 M-0. For such versions, first delete "C:\TEC_DRV" folder, then conduct the Preparation for Installation. When the preparation is completed, the shortcut of the "Driver Wizard" is created in the TPCL Printer Driver folder.

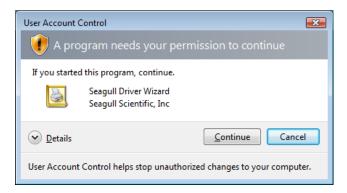
• In the case of deleting the printer driver of "To print on the shared printer (2)"

Before deleting the printer driver, delete the printer icon that was created when the shared printer was installed.

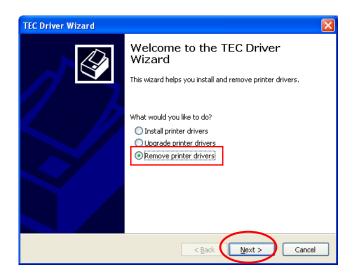
• Uninstalling the printer driver

- Select the "Start", "All programs", "TOSHIBA TEC", "TPCL Printer Driver", and "Driver Wizard".
 - Note: Log on as the user with administrative privilege. Exit the all Windows applications before performing the above operation. Confirm that there is no print job in the spooler, then close the spooler and the printer folder.

In the case of Windows Vista/Server 2008 / 7 / Server2008R2 / 8 / Server2012 / Server2012R2 / 10, the User Account Control screen may appear. In that case, click the [Allow].



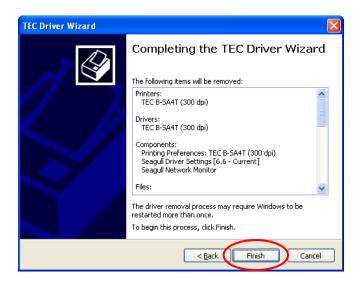
2. Select the "Remove printer drivers", and click the [Next] button.



 $\boldsymbol{\mathcal{3}}.$ Select the "Automatically remove all TEC Printer Drivers", and click the [Next] button.

TEC Driver Wizard	
Select Removal Method You have a choice of driver removal methods.	Ŷ
What would you like to do?	
	< Back

4. Click the [Finish] button to start to delete the printer drivers.



5. When the "Restart System" screen is displayed, click the [Restart] button.



- **6.** When the printer driver is deleted successfully, the screen on the right is displayed.
 - **Note**: If the deletion of the printer driver failed, retry from Steps 1 to 5 until the deletion succeeds.



Note: When you deleted the printer driver from Windows

Vista/Server2008/7/Server2008R2/8/Server2012/Server2012R2/10 and reinstall the printer driver again, follow the procedure described in *How to Setup Windows Vista / Server2008/7 / Server2008R2 / 8 / Server2012 / Server2012R2 / 10 again.*

In the case a network printer has been installed in multiple user accounts under Windows Vista / server 2008 / 7 / Server2008R2 / 8 / Server2012 / Server2012R2 / 10, it is not possible to delete the printer driver. First, delete the printer icon from each user account, then delete the printer driver.

Deleting the setup information configured during the preparation

 I_{ullet} Select the "Start", "Control Panel", and "Add/Remove Programs".

Note: Log on as the user with administrative privilege.

- 2. Select the "TPCL Printer Driver Vx.x (version)" or "TEC Printer Driver Install file" from the list, then click the [Delete] button.
- ${\it 3.}$ When the confirmation message is displayed, click the [Yes] button.
- 4. When the "Uninstall completed" screen appears, click the [Finish] button.

2.10.2 To delete the V6.5 Build75 or V6.5 Build77

- 1. Select the "Start", "Control Panel", and "Add/Remove Programs". Note: Log on as the user with administrative privilege.
- 2. Select the "TEC **** printer" from the "Edit/Remove Programs", and click the [Add and delete]. (**** indicates a printer model name. For example, B-452-R, B-462-R, etc.)
- ${\it 3.}$ Confirm that the selected file in the "File Delete confirmation" window is correct, then click the [Yes] button.
- 4. When "Uninstall completed" is displayed, click the [OK] button.

NOTE: If you deleted the printer icon without performing Steps 1 to 4 above, delete the setup information through the "Add/Remove Programs" after re-installing the printer driver.

5. When the deletion is completed, reboot the PC.

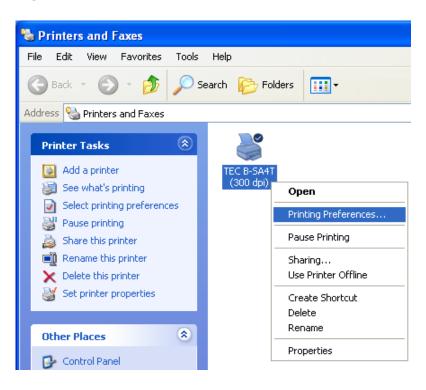
3. Functions

You can set various functions of this printer driver in the "Properties" and "Printing Preferences".

■ Property setting menus in the "Printing Preferences"

Right-click the printer icon, and select the "Printing Preferences". The following tabs are provided.

- 3.1 Page setup
- 3.2 Graphics
- 3.3 Stock
- 3.4 Options



	Function	Description	Support
Page Setup tab	Stock	Allows configuring the size of the label stock and registering it with a name in advance.	0
	Orientation	Allows specifying the orientation of an image.	0
	Effects	<mirror image=""> When enabled, the print will be a mirror image.</mirror>	0
		<negative> When enabled, the print will be white on black. When disabled, the print will be black on white.</negative>	
	Preset	Allows saving the settings of this printer driver such as fine adjustment values. When a preset setting file is selected, the current settings will be replaced by the settings of that preset file.	0
	Advanced Options		
	Printing position tab	<position adjustment=""> Allows specifying the offset in horizontal and vertical directions.</position>	Х
		<default orientation=""> Allows selecting the default print orientation between 0° (bottom first) and 180° (top first).</default>	Х
	User Commands tab	 <user commands=""></user> Allows setting the printer command to be sent at the start and the end of the job or at the start and the end of the label in the print job. 	0
		<function character=""> Allows inserting binary data in bar code font.</function>	0

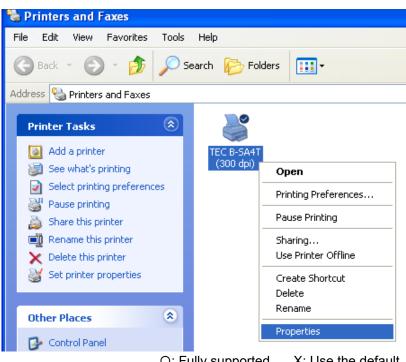
	Function	Description	Support
	Driver Options tab	<device line="" substitution=""> When enabled, the driver will try to use the printer's Line Commands to draw lines. When disabled, lines are drawn by using the Graphic Command.</device>	0
		 <default copies=""></default> Allows setting the number of copies to be printed as default. If the number of copies is not changed in the application, this value will be effective. 	0
		<disable copies="" limit=""> When enabled, a value exceeding "9999" can be set for the "Default Copies".</disable>	Х
		<pre><disable paper="" size="" user-defined=""> When this checkbox is checked, the user-defined paper size "USER" cannot be used.</disable></pre>	Х
		<disable page="" sharing="" size=""></disable>	Х
Graphics tab	Resolution	Shows the printer's available resolution.	0
·	Dithering	Allows creating the illusion of different shades of gray by varying the pattern of dots.	0
		<color adjustment=""> Allows the flip horizontal, flip vertical, rotation, color balance adjustment, etc.</color>	0
		<dithering setup=""> Allows detailed setting for the selected dithering method.</dithering>	0
	Color	<color control=""> Allows setting the color processing.</color>	0
Stock	Media settings	<print method=""> Allows selecting whether the ribbon is used (thermal transfer) or not (Direct thermal).</print>	0
		<sensor> Allows selecting a sensor type used to detect a print start position.</sensor>	0
		<label gap=""> Allows setting the length of the gap between labels.</label>	0
	Issue Settings	<issue mode=""> Allows selecting whether the labels are issued in the strip mode.</issue>	0
		<post-print> Allows selecting whether the labels are issued in the cut mode. Note that the Pause is not supported.</post-print>	0
		<occurrence> Allows selecting the cutter operation and specifying how often labels should be cut.</occurrence>	0
		<interval> Specifies the number of labels to be printed before a cut operation. The cutter will cut labels after the specified number of labels is printed.</interval>	0
		<print speed=""> Allows setting the print speed.</print>	0
	Fine Adjustment	<feed></feed>	0
		Specifies the length of label that will feed after printing.	0
		<backfeed> Specifies the length of label stock that is retracted before printing. This entry window is only available in cut or strip mode.</backfeed>	0
		<cut strip=""> For the cut issue, specifies the length of label to feed before cutting the label. For the strip issue, specifies the length of label to feed before peeling the label.</cut>	0

Function		Description	
		<print shrinkage=""> Used to compensate for label print shrinkage or expansion.</print>	0
Options tab	Graphic Options	<transfer mode=""> Allows selecting the method used to download graphics to the printer.</transfer>	0
	Print Density Adjustment	<direct thermal=""> Allows adjusting the print density for the direct thermal mode.</direct>	0
		<thermal transfer=""> Allows adjusting the print density for the thermal transfer mode.</thermal>	0
		<optimization> Allows selecting the printer's optimization level from Quality, Balanced (middle), and Speed. This feature is provided only for the B-EP series.</optimization>	0
	Feed Adjustment	<feed adjustment=""> Specifies the length of label to feed after printing (feed). Before a next printing is started, the label is fed in the reverse direction to the print start position.</feed>	0
	Supply Options	Allows setting the printing energy for each of the direct thermal and thermal transfer.	0
	Multiple Part Print Area	Allows specifying the duplicate printing area and the print density for that area. (B-419 and B-EV4 only)	0
	Ribbon Adjustments	Used to set the conditions related to the ribbon.	0
About tab	License	Shows the license information.	0
	Version	Shows the driver version, settings, and PC information. The shown information can be stored in a file.	0

■ Property setting menus in the "Properties"

Right-click the printer icon, and select the "Properties".

- 3.5 Font
- 3.6 Tools
- 3.7 Printer font



		O: Fully supported. X: Use	the default.
	Function	Description	Support
Font tab	[Font] button	Allows adding, modifying and deleting the currently defined bar code fonts. RFID fonts are not supported.	0
	[View] button	Allows limiting the view of bar code fonts to only those of specified type.	0
	[Tool] button		
	Font settings [Resident Fonts]	<list fonts="" scalable=""> When selected, the scalable fonts are usable.</list>	0
		<list and="" condensed="" expanded="" widths=""> When selected, the fonts of which character width is condensed or expanded are usable.</list>	0
		 <list factors="" scale="" specified=""></list> When selected, the fonts of which character width is scalable at any scale ratio are usable. 	Х
		<percentages> Allows specifying the scale ratio.</percentages>	Х
		<list bitmap="" fonts=""> When selected, the bitmap fonts are usable.</list>	0
		<simulate fonts="" scalable=""> When selected, the bitmap fonts of same size with the outline fonts are specified.</simulate>	Х
		 <list magnifications=""></list> When selected, the magnified fonts are usable. 	0
		<list and="" condensed="" expanded="" widths=""> When selected, the fonts of which character width is condensed or expanded are usable.</list>	0
		 <list character="" fonts="" multiple="" separately="" set=""></list> When selected, print fonts are printed with different code page. 	Х
	[Utility Fonts]	<list fonts="" utility=""> When selected, the utility fonts are usable.</list>	0
		<list and="" bar="" code="" fonts="" rfid=""> When selected, bar code fonts and RFID fonts are</list>	0

usable. At present, RFID fonts are not supported.

	Function	Description	Suppor
		<list command="" font="" printer=""></list>	0
		When selected, specified data are sent to the	
		printer as they are.	
		<list command="" driver="" font=""></list>	Х
		When selected, the font which converts the data in	
		the specified format into a command is usable.	
		<combine &="" adjacent="" bar="" code="" fields="" rfid=""></combine>	0
		When selected, the characters are combined if the	
		same bar code font is specified for them.	
	[Encoding]	Allows specifying the method of encoding the data	Х
		into bar codes.	
	Bitmap Font Settings	Refer to the Driver Option of the [Tool] tab.	
Fool tab	[Print]	Allows performing print tests.	0
	[Action]	<form feed=""></form>	0
		The printer feeds one label.	
		<cut></cut>	0
		The printer cuts the label immediately.	Ũ
		<pre><read information="" printer=""></read></pre>	Х
		Shows the printer version and option information	~
		obtained from the printer.	
		<pre></pre> <pre><</pre>	Х
			^
		Allows managing the files of label formats,	
		graphics, and fonts stored in the printer.	0
		<reset printer=""></reset>	0
		Resets the printer.	
		<test head="" print=""></test>	0
		Allows execution of the printer's broken element	
		test.	
		<send command="" printer=""></send>	0
		Sends the generated printer commands to the	
		printer. When the bi-directional communication is	
		enabled, the printer status is obtained and shown	
		after sending the commands.	
		<send file="" printer="" to=""></send>	0
		Sends the command file to the printer.	
	[Configure]		
	Printer Options	<automatic response="" status=""></automatic>	0
	r linter Options	When selected, the printer status is automatically	0
		sent at the end of a job or the occurrence of an	
		error.	
		<include information="" job=""></include>	0
			0
		When selected, the job information obtained from	
		the printer via SNMP is included in the print job.	~
		<check command="" sequence=""></check>	0
		When selected, a command, which checks	
		whether any command is missing from a command	
		string the printer received, is attached.	
		<command protocol=""/>	0
		Specifies the command control code.	
		<bluetooth connection=""></bluetooth>	0
		<dlay close=""></dlay>	0
		<auto feed="" setting=""></auto>	0
		Allows selecting whether to enable or disable the	
		auto feed feature.	
		<configure memory=""></configure>	0
		comga o monory.	<u> </u>
		Allocates the built-in or expanded memory of the	
		Allocates the built-in or expanded memory of the	
		Allocates the built-in or expanded memory of the printer. <format memory=""></format>	0

	Function	Description	Support
		<ribbon setting=""></ribbon>	0
		Allows setting the fine adjustment for the ribbon	
		motor voltages.	
	[Driver Options]		
	Administration	<import and="" export=""></import>	0
		Allows importing previously saved printer driver	
		settings and exporting the settings of this printer	
	Notwork acttings	driver.	V
	Network settings	<network setting=""> When the shared printer is installed as a network</network>	Х
		printer, the setting or status information can be	
		shared between the server and the client.	
	Regional Options	<pre></pre>	
	regional options	Allows selection of the desired language to be	0
		used in the printer driver property screens.	<u> </u>
		<units></units>	0
		Allows the selection of the desired units of	
		measurement.	
		<windows setting=""></windows>	0
		Displays the "Regional and Language Options" of	
		Windows.	
	Printer Specifications	<unprintable width=""></unprintable>	Х
		Specifies the unprintable area.	
		<model specifications=""></model>	Х
		Specifies the resolution, stock size, etc. for the	
		printer model to be used.	
	[Logging Options]	<logging></logging>	0
		Allows logging printed pages and jobs debugging	
		purposes.	0
		<printer code="" recording=""> Allows recording the command data of the print</printer>	0
		jobs to files.	
	[Status Monitoring]	<pre></pre>	0
		Allows selecting the printer status monitoring	<u> </u>
		method.	
		<status display="" option=""></status>	0
		Allows setting the properties of the status monitor.	
		<job verification=""></job>	Х
		Allows selecting the timing of status monitoring.	
		<communication></communication>	Х
		Allows setting the timeout and polling interval.	
About tab	License	Shows the license information.	0
	Version	Shows the driver version, settings, and PC	0
		information.	
		The shown information can be stored in a file.	

Reference: A part of the above settings can be changed in the print dialog box of the application, but such changes may only temporary take effect.

3.1 Page Setup Tab

Clicking on the Page Setup tab allows you to specify the default media size, orientation, and other properties of the media.

💩 TEC B-SA4T (300 dpi) Printing Preferences 🛛 🛛 🛛 🔀		
Page Setup Gra	phics Stock Options About	
Stock		
<u>N</u> ame: USE	R (4.09 in x 2.92 in) ✓	
	Ne <u>w E</u> dit <u>D</u> elete	
Preview	Orientation	
	Portrait Mirror Image Landscape Negative	
ALE	Portrait 180*	
	◯ Land <u>s</u> cape 180*	
Preset		
N <u>a</u> me: <de< td=""><td>fault Settings> <u>M</u>anage</td></de<>	fault Settings> <u>M</u> anage	
Ad <u>v</u> anced Options		
© 1999-2014 TOSHIBA TEC CORPORATION. All Rights Reserved.		
© 1997-2014 Seagull Scientific, Inc., Authors of the BarTender® label software.		
OK Cancel Apply Help		

Note: When printing on the shared printer, specify the orientation and media size on the client PC from which a print job is sent. Even if the media size and the orientation are registered to the shared printer, it is not possible to share such information with the client PC.

Stock

Name

Allows specifying a previously loaded stock by name to use, modify, or delete.

• New, Edit, Delete

Allows adding a new label stock specification to the list, editing or deleting a label stock already on the list. *Section 3.1.1 Registering a new stock or editing the existing stock.* The number of registerable stocks is unlimited.

Orientation

By clicking on the "Portrait", "Landscape", "Portrait rotated 180°", or "Landscape rotated 180°" radio button, the print orientation can be changed. The preview page to the left of the orientation buttons will change to reflect the selected orientation.

Depending on the printer models, the orientation of the "Portrait" may differ.

Effects

Mirror Image

When this checkbox is checked, the print will be a mirror image.



Negative

When this checkbox is checked, the print will be white on black.



Depending on the printer models, the selectable options differ.

Preset

Allows saving the settings of this printer driver so that they may be imported into a different or freshly installed printer driver.

Section 3.1.2 Preset

3.1.1 Registering a new stock or editing the existing stock

By clicking either the [New] button or the [Edit] button, the following screen will appear.

To register a new stock, click the [New] button and enter the stock name and the size.

To edit the label stock already on the list, click the [Edit] button. The changes will be applied to the other printer drivers' stock information.

Edit Stock	×
Stock <u>Name:</u> <u>New Stock</u> Type: Die-Cut Labels	Preview
Label Size Width: 4.09 in Height 2.92 in	
Exposed Liner Widths Left: 0.05 in Bight: 0.05 in	
Automatic Preset Selection	
	OK Cancel Help

Stock

Name

Displays the stock name. When a new stock is registered, any stock name can be set. (2-byte characters are acceptable.)

• Type

Select the paper type.

In case of using Standard label, set Die-cut label or Continuous (Fixed Length)as paper type.

In case of using Continuous paper media, set Die-cut label or Continuous (Fixed Length) or Continuous (Variable Length) as paper type.

The paper feed length will vary based on the printable data length .



Displays the advanced stock properties.

Advanced Stock Properties
Stock
ID: 257
OK Cancel Help

• ID

Displays the ID for the stock being edited. (257 to 32767)

Change the stock ID if mismatching in the stock IDs between the older printer driver and the new one causes an error. For example, when printing is performed from the application which manages stock types for Excel, Access, etc. by their stock IDs assigned by the older printer driver, a wrong stock may be selected even though the correct one has been registered.

Label Size

• Width, Height

Specifies the height and width of a label stock size.

Exposed liner width

• Left, Right

Specifies the distance between the edges of the paper backing and the edges of the label. (Set the same value for the left and right.)

Note: For the B-SP2D, B-419, and B-431 models, set the both exposed liner widths to 0 mm. Instead, set the label width to the 'effective print width + left and right exposed liner widths'. Adjust the print position on the label format with the application.

Automatic Preset Selection

Selecting stock loads settings from preset

Specifies whether to designate preset print settings for the selected stock.

However, this feature is unavailable and invisible unless a preset setting file has been registered. When invisible, the printer behaves in the same way when this feature is unselected.

When this checkbox is unchecked, printing is performed according to the current settings, regardless of the stock type.

When checked, printing is performed based on the preset settings designated for each stock type.

<Procedure>

- (1) Set the print settings, such as sensor fine adjustment and print density adjustment, for the selected stock, and save them as a preset setting file. (@ 3.1.2 Preset.)
- (2) Check the "Selecting stock loads settings from preset" checkbox, and select the created preset file from the list.
- (3) When a stock for which a preset has been designated is used, the print settings saved in such preset file are called and reflected in printing.
- **Note**: When this feature is used under the condition more than one stock type is used in turns, designate a preset for each stock type to be used one by one.

Presets need to be created for each printer driver. Since the stock types are shared among different printer drivers, care must be taken not to designate different presets for the same stock type registered to each printer driver.

Be sure to create a preset and stock type in pairs for each printer driver.

In the case of the standard stock types, the preset settings are not succeeded with the import/export functions. Therefore, it is necessary to register the preset settings again after exporting.

3.1.2 Preset

By clicking the [Manage] button in the Page Setup page, the following screen display will appear to allow you to manage the printer settings with a name.

Presets	
Presets allow you to save your prin quickly switch between different c	nt settings with a name so that you can onfigurations.
Preset List	Preset Information
<current settings=""></current>	Name: <default settings=""></default>
<default settings=""></default>	Description:
	This preset contains this driver's 🧟 original default settings.
Preset Management	Delete
ОК	Cancel Help

Preset Management

• New

After configuring the necessary print settings for a selected stock, click the [New] button, name these print settings to manage them as a preset, and enter a description of these settings in the "Description" box. Click the [OK] button to save.

Settings saved:

[Page Setup] tab:	Label size Orientation Effects
	Advanced setting
[Graphics] tab	Dithering
[Stock] tab	Print method
	Issue mode
	Print speed
	Fine adjustment
[Option] tab	Graphic options
	Print density adjustment
	Feed adjustment
	Multiple Part Print Area Settings Ribbon Adjustments

Delete

Clicking the [Delete] button enables deletion of a selected preset name. When the [OK] button is clicked, the changes are saved.

Update

To reflect the changes in the settings of the existing preset, select the preset name and click the [Update] button. When the [OK] button is clicked, the changes are saved.

3.1.3 Advanced Options

Clicking the [Advanced Options] button allows control of the printer options for which the printer driver does not provide explicit control.

Printing Position

Position Adjustment tab

Horizontal Offset

Enables adjustment of the print position in the horizontal direction. Since this feature is not supported, do not change the default setting.

• Vertical offset

Enables adjustment of the print position in the vertical direction. Since this feature is not supported, do not change the default setting.

Orientation Adjustment

• Default Orientation

Enables specifying the default orientation.

0°: Bottom first

180°: Top first

Since this feature is not supported, do not change the default setting.

User Commands tab

You can program printer command strings which are to be sent to the printer at "Start of Job", "Start of Label", "End of Label" or "End of Job" to make up for the functions that cannot be covered by this printer driver.

Supplement: For details of the commands, please refer to the External Equipment Interface Specification.

Advanced Options 🛛 ? 🔀		
Printing Position User Commands Driver Options		
User Commands Start of Job Start of Label End of Label End of Job		
Eunction Character:		
The function character is used to insert control characters in both user commands and bar code fonts.		
OK Cancel Apply Help		

Advanced Options	?×
Printing Position User Commands Driver Options Position Adjustment Horizontal Offset: 0.00 in Vertical Offset: 0.00 in Orientation Adjustment Default Orientation: 0°	
OK Cancel Apply H	lelp

• Function Character

When a bar code font is used for printing, use of the function character enables encoding binary data. The default setting is a caret [^] (5EH).

The following explanation is based on an assumption that the caret [^] (5EH) is used.

Entry in hex. format
^#nn
<example> To specify binary data of 00 to 06:</example>
^00^01^02^03^04^05^06

Entry with abbreviation

^<ccc>

<Example> To specify binary data of 00 to 06:

^<NUL>^<SOH>^<STX>^<ETX>^<EOT>^<ENQ>^<ACK>

Entry of the function character

When using the function character as bar code data, send the function character twice.

^v

Binary data	
<nul> 00</nul>	<dle> 10</dle>
<soh> 01</soh>	<dc1> 11</dc1>
<stx> 02</stx>	<dc2> 12</dc2>
<etx> 03</etx>	<dc3> 13</dc3>
<eot> 04</eot>	<dc4> 14</dc4>
<enq> 05</enq>	<nak> 15</nak>
<ack> 06</ack>	<syn> 16</syn>
<bel> 07</bel>	<etb> 17</etb>
<bs> 08</bs>	<can> 18</can>
<ht> 09</ht>	 19
<lf> 0A</lf>	_{1A}
<vt> 0B</vt>	<esc> 1B</esc>
<ff> 0C</ff>	<fs> 1C</fs>
<cr> 0D</cr>	<gs> 1D</gs>
<so> 0E</so>	<rs> 1E</rs>
<si> 0F</si>	<us> 1F</us>
	 7F

Driver Option tab

Device Line Substitution

• Enable Substitution

This option allows selecting whether or not to substitute a line drawn in a print image with a Line Command.

When this checkbox is not checked, the line is processed as a Graphic Command.

When checked, the line is drawn using the printer's line drawing function, which may result in higher throughput.

• Minimum Length

The minimum length of a line that is to be recognized as a Line Command. The line shorter than this value is processed as a Graphic Command.

Advanced Options
Printing Position User Commands Driver Options
C Device Line Substitution
Enable Substitution
Minimum Length: 0.25 in
Software Compatibility These settings only need to be adjusted in rare circumstances with certain applications. Do not change the defaults unless instructed by a support technician. Default Copies: 1 Disable Copies Limit Disable User-Defined Paper Size
OK Cancel Apply Help

Note: Some applications do not always print correctly with this feature enabled. In such case, remove the check from the check box.

Software Compatibility

• Default Copies

The number of labels to be printed as default. Unless this number is changed with the application, this value will be effective.

• Disable Copies Limit:

When this checkbox is checked, a value greater than 9999 can be set for the Default Copies. Since this feature is not supported, do not change the default setting.

• Disable User-Defined Paper Size:

This feature disables the user-defined paper size "USER". When this checkbox is checked, "USER" cannot be used. Since this feature is not supported, do not change the default setting.

3.2 Graphics Tab

Clicking the Graphics tab enables adjustment of dithering or color tone.

🍓 TEC B-SA4T (30	00 dpi) Printi	ng Preferences	? 🗙
Page Setup Graphi	cs Stock Opt	tions About	
<u>R</u> esolution:	300 dpi x 300 d	pi	~
Dithering			
		◯ <u>N</u> one	
		<u>Algebraic</u>	
		Error Diffusion	
		○ De <u>v</u> ice Dithering	
Color Adju	istment	Dithering Setup	
Color			\equiv
<u>C</u> olor Control:	Monochrome		~
Color <u>M</u> atching:			~
Color Regi	stration	Color <u>S</u> etup	
10	Can	cel Apply	Help

Resolution

Enables selecting the print head resolution. Only the resolutions supported by the printer model can be specified.

Dithering

Enables creating the illusion of different shades of gray by varying the pattern of dots. The more dither patterns that a device or program supports, the more shades of gray it can represent.

- None
- Halftone
- Ordered
- Algebraic
- Error Diffusion

When the [Dithering Setup] button is clicked, you can select an algorithm from multiple options. The algorithm differs according to the dithering patterns.

Color Control

Enables selecting whether to print monochrome or color.

3.3 Stock Tab

Clicking the Stock tab allows setting various print conditions specific to the printer, such as the media settings, issue settings, and fine adjustments.

🍓 TEC B-SA4T (3	00 dpi)Printing Preferences 🛛 🕐 🗙				
Page Setup Graph	ics Stock Options About				
Media Settings Print Method:					
	Thermal Transfer				
	08 in				
Issue Settings					
Issue <u>M</u> ode:	Batch Mode (with Back Feed)				
Post-Print Action:	None				
Occurrence:	×				
Interval:					
Print <u>S</u> peed:	6.00 in/sec 💌				
	ed: 0.00 in C <u>u</u> t/Strip: 0.00 in ckfeed: 0.00 in Print Shrin <u>k</u> age: 0				
0	K Cancel Apply Help				

Media Settings

• Print Method

Enables selecting the print method.

- Direct thermal
- Direct thermal (Head up)
- Thermal transfer
- Thermal transfer (Ribbon save)

The "Thermal transfer (Ribbon save)" is available only to the printer supporting the ribbon saving function.

The "Direct thermal (Head up)" is available only to the RFID-enable printer. The print head is lifted to avoid RFID tag embedded area to protect the RFID tag. If you select the "Direct thermal (Head up)" for non RFID-enable printer, an error occurs on the printer.

Sensor

Enables selecting a sensor type.

- None
- Reflective
- Transmissive
- Transmissive (Manual Threshold)
- Reflective (Manual Threshold)
- Transmissive (Clothing Tags)
- Lower Reflective (Black mark on the reverse side)
- Lower Reflective (Manual Threshold)
- Upper Reflective (Black mark on the print side)
- Lower Reflective (Punch hole)

Select the "Transmissive (Preprinted Labels)" or "Reflective (Manual Threshold)" when the threshold has been set through the key operation in the printer system mode.

The "Transmissive (Clothing Tags)" is available only to the B-431.

The "Lower Reflective (Black mark on the reverse side)", "Lower Reflective (Manual Threshold)", "Upper Reflective (Black mark on the print side)", and "Lower Reflective (Punch hole)" are selectable for the B-852 or B-852R.

• Label Gap

Enables setting the inter-label gap size. In the case of tag paper, enter the non-printable area size.

■ Issue Settings

• Issue Mode

- Batch Mode (with Back Feed)
- Strip Mode (with Back feed)
- Strip Mode (when using the applicator)
- Partial Cut (without Back Feed)
- Batch Mode
- Cut Mode

When the cutter unit is installed on the printer to perform the cut issue, select the "Batch Mode (with Back Feed) or the "Cut Mode".

When the strip module is installed on the printer to perform the strip issue, select the "Strip Mode (with Back Feed)" or the "Strip Mode (when using the applicator)".

When the "Partial Cut (without Back Feed)" is selected, this option will be always specified.

Post-Print Action

Enables selecting whether the cut operation is performed or not.

- None
- Cut
- Partial Cut
- Linerless Cut
- Cut and Pause
- Pause (This is not supported.)

When the "Partial Cut" is selected, the "Partial Cut (without Back Feed)" will be always set for the Issue Mode.

When the "Linerless Cut" is selected, the "Batch Mode (with Back Feed)" will be always set for the Issue Mode.

The "Cut and Pause" and "Pause" are not supported at present.

Occurrence

Enables specifying how often labels should be cut. If the "Strip Mode (with Back Feed)" is selected for the Issue Mode, this feature is disabled.

- After every page ------Cuts labels after each label is finished printing.
- After specified interval ------Cuts labels after the number of labels specified in the Interval setting.
- After specified interval (Per Page)-----Cuts labels after the number of labels specified in the interval setting and at the end of the identical copy.
- After identical copies ------Cuts after the identical copy is finished printing.
- After job -----Cuts labels only after the entire print job is finished printing.

Example: 4 pages are issued by 5 copies each

	Cut Interval	▲: Cut operation
Every page		1 • 1 • 1 • 1 • 1 • 2 • 2 • 2 • 2 • 2 •
Specified interval	3	1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 4 4 4 4 4 4
Specified interval (Per page)	3	1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3 4 4 4 4 4
Identical copies		1 1 1 1 1 4 2 2 2 2 2 4 3 3 3 3 3 4 4 4 4 4
After job		1 1 1 1 2 2 2 2 2 3 3 3 3 4 4 4 4 🔺
Specified interval (depending on the printers)	3	1 1 1 ▲ 1 1 ▲ 2 2 2 ▲ 2 2 ▲ 3 3 3 ▲ 3 3 ▲ 4 4 ▲ 4 4 ▲

Interval

Enables specifying the cut interval.

• Print Speed

Enables specifying the print speed. Selectable speed differs according to the printer models.

■ Fine Adjustment

• Set

When the "Set" checkbox is checked, you can set fine adjustment values. When not checked, the adjustments are grayed out and the printer operates according to its current settings.

Adjustable settings differ depending on the printer models.

- Feed
- Backfeed
- Cut/Strip
- Print Shrinkage

• Feed

Specifies the length of label stock that will feed after printing.

Backfeed

Specifies the length of label stock that is retracted before printing.

• Cut/Strip

In the case of the cut issue, this specifies the length of label to feed before cutting the label. In the case of the strip issue, the length of label to feed before peeling the label is specified.

Print Shrinkage

Used to compensate for label print shrinkage or expansion.

3.4 Options Tab

Models other than B-EP2DL-G, B-EP4DL-G and B-FP3D

💩 TOSHIBA B-EX4T1 (305 dpi) Printing Preferences **?** X Page Setup Graphics Stock Options About Graphic Options Transfer Mode: **TOPIX** Compression Print Density Adjustment Set [Direct Thermal: Thermal Transfer: Feed Adjustment Set [0.39 in Eeed Adjustment: Supply Options Energy Type: Use Current Printer Setting Y Threshold Type: Ribbon Adjustments.. ПK Cancel Help

B-EP2DL-G, B-EP4DL-G and B-FP3D

TEC B-EP2DL-G Pri	nting Preferences	?
Page Setup Graphics	Stock Options About	
Graphic Options		
Transfer <u>M</u> ode:	TOPIX Compression	*
Print Density Adjustmen	t	
Set Set		
Direct Thermal:	0	
Head Output Division:		~
ОК	Cancel <u>A</u> pply	Help

Graphic Options

• Transfer Mode

Allows selecting the method used to download graphics to the printer. Basically, select the "TOPIX compression" mode.

The "TOPIX compression (XOR)" method improves the throughput by processing only a different part from the previous page. Choose this option when you print a fixed format partly including variable data. However, the throughput may not improve depending on the image to be printed.

Print Density Adjustment

When the "Set" checkbox is checked, you can set the print density (print head voltage) for each of the Direct thermal and Thermal transfer.

When not checked, the printer operates according to its current setting.

For the B-EP2DL-G, B-EP4DL-G and B-FP3D, the "Head Output Division" feature is provided, which enables properly changing the print quality and print speed depending on the selected print head control. When the Set" checkbox is not checked, the printer operates according to its current setting.

Feed Adjustment

When the "Set" checkbox is checked, you can set the length of the label the printer automatically feeds after printing. Before printing the next label, the printer will automatically feed the label in the reverse direction to the print start position.

When not checked, the printer operates according to its current setting.

This feature is not available to the B-EP2DL-G, B-EP4DL-G. and B-FP3D

Supply Options

Allows setting the printing energy for each of the "Direct thermal" and "Thermal transfer". When "Use Current Print Setting" is selected, the printer operates according to the currently selected setting. Selection of "Direct thermal" or "Thermal transfer" depends on which is selected for the "Print Method" on the Stock page.

Ribbon Adjustments

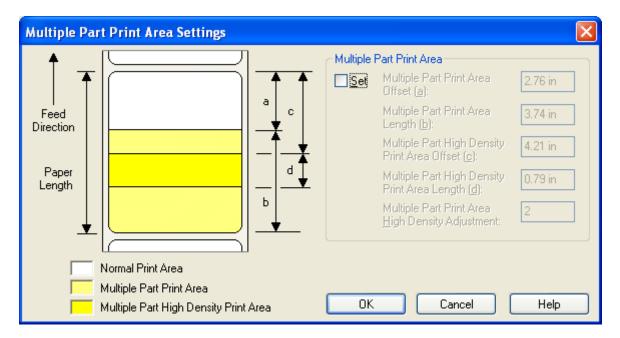
When the thermal transfer method is selected, setting the conditions related to the ribbon is allowed. (* 3.4.2 Ribbon Adjustments.)

■ Multiple Part Print Area Settings

Enables setting the duplicate print area on double-layer thermal paper. This feature is available only to the B-419 and B-EV4 (203 dpi). For the B-EV4 (203 dpi), "Variable Speed A" or "Variable Speed B" specified for the "Print Speed" on the Stock page is reflected in the printer behavior.

3.4.1 Multiple Part Print Area Settings (B-EV4 (203 dpi) only)

Clicking the "Multiple Part Print Area Settings" button on the Options page enables setting the duplicate print area properties for the double-layer thermal paper.



Multiple Part Print Area

When the "Set" checkbox is checked, you can specify the details of the "Multiple Part Print Area". The "Multiple Part Print Area" is the area where the printer prints both sheets of the double-layered thermal paper at the same time by applying the higher print energy.

When not checked, the printer operates according to its current settings.

Multiple Part Print Area

Enables setting the "Multiple Part Print Area Offset (a)" (X-coordinate of the multiple part print area start position) and "Multiple Part Print Area Length (b)". The print on the specified area will become darker than the normal print areas.

- Multiple Part Print Area Offset: 0.0mm to 390.0 mm
- Multiple Part Print Area Length: 0.0mm to 390.0 mm

Multiple Part High Density Print Area

Enables setting the "Multiple Part High Density Print Area Offset (c)" (X-coordinate of the multiple part high density print area start position) and "Multiple Part High Density Print Area Length (d)".

This area is to be printed with much higher print energy than the multiple part print area to enable clearly printing small or fine characters and bar codes on the second sheet. The extra energy level can be specified by entering a value in the "Multiple Part Area High Density Adjustment" box. (If the "Multiple Part Area High Density Adjustment" box. (If the "Multiple Part Area High Density Adjustment" is set to "0", which means no difference, and both areas are printed with the same print density.)

- Multiple Part High density Print Area Offset: 0.0mm to 390.0mm
- Multiple Part High density Print Area Length: 0.0mm to 390.0mm

• Multiple Part Print Area High Density Adjustment

Enables specifying how much extra energy is applied for the "Multi Part Print High Density Area" than the "Multiple Part Print Area".

• Multiple Part Print Area High Density Adjustment: 0 to 10

Supplement:

- 1. Duplicate printing is available only to double-layer thermal paper. Triple- or more layer paper is not accepted.
- 2. If the print on the second sheet is too light, specifying this print area as a Multiple Part High Density Print Area. Doing this improves the print result.
- 3. It is possible to specify a Multiple Part Print Area and a Multiple Part High Density Print Area independently.
- 4. It is not necessary to specify both the Multiple Part Print Area and the Multiple Part High Density Print Area.
- 5. The Multiple Part High Density Print Area is not necessarily within a Multiple Part Print Area.
- 6. The Print Density Adjustment value, set in the Options page, is reflected in the Multiple Part Print Area a Multiple Part High Density Print Area.

Print density of normal print area =

- Print density for the Multiple Part High Density Print Area =

: Print density adjustment value

: Standard print density for the Multiple Part Print Area

: Fine adjustment value for the Multiple Part High Density Print Area

3.4.2 Ribbon Adjustments

Clicking on the [Ribbon Adjustments] button on the Options page enables ribbon settings.

Ribbon A	djustments 🛛 🔀
Ribbon Ty	уре
S <u>e</u> t	
Type:	
⊂Ribbon M	otor Voltage Adjustment
Set	Rewind Motor: 0
	Back Tension Motor:
	OK Cancel Help

Ribbon Type

When the "Set" checkbox is checked, configurations related to the ribbon is allowed. When unchecked, the printer operates according to the currently selected settings.

This menu is provided only to the models for which a ribbon type is selectable.

• Type

Enables selecting a ribbon type used on the printer. Selectable ribbon types are different depending on the printer model.

Ribbon Motor Voltage Adjustment

When the "Set" checkbox is checked, the ribbon motor voltage can be adjusted for preventing ribbon wrinkles. When unchecked, the printer operates according to the currently selected settings.

• Rewind Motor

The rewind motor which drives the ribbon take-up core takes up the used ribbon. When the value is reduced, the rewind motor torque turns down, causing a decease in the ribbon tension. The setting value range varies depending on the printer model.

Back Tension Motor

The back tension motor which drives the ribbon feed core pulls the ribbon backward to maintain the ribbon tension.

When the value is reduced, the back tension motor torque turns down, causing a decrease in the ribbon tension. The setting value range varies depending on the printer model.

3.5 Fonts Tab

Clicking the Fonts tab of the Properties screen enables adding, deleting, modifying, importing, exporting, and viewing currently defined bar code fonts. These fonts will be listed in many Windows applications that normally do not support printing bar codes. Although they will not appear as bar codes on the screen, they will print as bar codes. An unlimited number of bar fonts can be created, each of which may have different bar code parameters.

Notes:

- Bar code fonts need to be registered to each printer driver. In the case you print on a shared printer, register bar code fonts to both the client PC and the printer server PC. It is not possible to share the bar code fonts between the client PC and the printer server PC. The Import and Export features are useful to easily register the bar code font list to other printer drivers. Refer to *Driver*
- Options.
 2. To use Kanji as bar code font, click the [Tools] tab, [Configure] button, select "Printer Options", and set the "ESC/LF/NUL" for the Control Codes.

👹 TEC B-SA4T (300 dpi) Properties 🛛 🔹 💽				
General Sharing Ports Advanced Security Fonts Tools About				
Eont View Tools T				
Name	Туре	Information		
BarFont Code128 BarFont PDF417 BarFont UPC-A Legacy Outline Font 2 Legacy Outline Font 3	Bar Code Bar Code Optional Optional	Code 128 PDF417 UPC-A Legacy outline font 2 Legacy outline font 3		
Font Properties				
Total Fonts: 5				
ОК	Cancel	Apply Help		

Font

Enables adding, deleting, and editing the bar code fonts.

Font 🛒		

Download Font	
New Optional Font New User-Defined Optional F New Font Substitution	ont
New Bar Code Font New RFID Font	
Edit	
Delete	Del

New Bar Code Font

Enables adding a new bar code font to the list. There is no limit for the number of bar code fonts to be registered.

The Refer to Section 3.5.1 Bar Code Font.

• Edit

Enables modifying the currently selected bar code font.

Select a bar code font and open the "Bar Code Font" screen by clicking the [Font] button and the "Edit" or right-clicking the font and selecting the "Edit".

Delete

Enables deleting the currently selected bar code font.

Select a bar code font, then click the [Font] button and the "Delete" or right-click the font and select the "Delete".

View

Enables filtering the bar code font types to display. "Resident Fonts" and "Bar code fonts" are available.

Resident Fonts Downloaded Fonts Optional Fonts Font Substitutions Bar Code Fonts	Supplement:	The bar code font list on the [Fonts] page only shows the font types usable by the applicable printer driver. Bar code fonts registered to other printer driver installed in the same PC are not displayed.
✓ RFID Fonts		

Tools

Enables setting the resident fonts and the printer driver options.

ools 👻
Verify Downloaded Fonts. Resend Downloaded Font
Installed Features
Font Settings
Driver Options

Resident Fonts tab

Scalable Font Settings

List Scalable Fonts: When this checkbox is checked, the scalable fonts (outline fonts) can be used on the application. When not checked, the scalable fonts cannot be used.

List Condensed and Expanded Widths: When this checkbox is checked, scalable fonts (outline fonts) with the width condensed or expanded can be used.

List Specified Scale Factors: When this checkbox is checked, the scalable fonts (outline fonts) with the width reduced or enlarged at an optional scale factor can be used. Since this feature is not supported, do not change the default setting.

Font Settings	? 🗙
Resident Fonts Utility Fonts Encoding	
Scalable Font Settings List Scalable Fonts List Condensed and Expanded Widths List Specified Scale Factors Percentages:	
Bitmap Font Settings List Bitmap Fonts Simulate Scalable Fonts List Magnifications List Condensed and Expanded Widths	
Compatibility Settings	
OK Cancel Apply H	elp

Percentages: Checking the "List Specified Scale Factors" checkbox enables specifying a scale factor. Since this feature is not supported, do not change the default setting.

Bitmap Font Settings

List Bitmap Fonts: When this checkbox is checked, the bitmap fonts can be used on the application. When not checked, the bitmap fonts cannot be used.

Simulate Scalable Fonts: When this checkbox is checked, the size of bitmap fonts can be specified to the same size of outline fonts. Since this feature is not supported, do not change the default setting.

List Magnifications: When this checkbox is checked, magnified bitmap fonts can be used.

List Condensed and Expanded Widths: When this checkbox is checked, bitmap fonts with the width condensed or expanded can be used.

Compatibility Settings

List Multiple Character Set Fonts Separately: When this checkbox is checked, printer font data can be printed with another code page.

• Utility Fonts tab

Supplement: Utility font do not correspond to actual text fonts on the printer, but are used to control advanced printer features, such as bar codes, RFID, and sending direct commands to the printer.

• Utility Font Settings

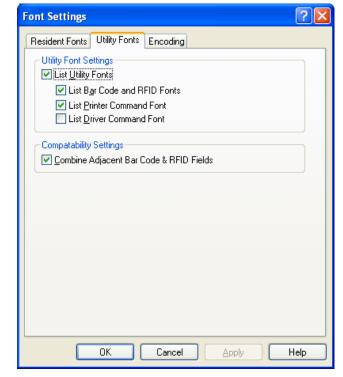
List Utility Fonts: When this checkbox is checked, the utility fonts can be used on the application.

When not checked, the utility fonts cannot be used.

List Bar Code and RFID Fonts: When this checkbox is checked, bar code fonts and RFID fonts can be used. However, the RFID fonts is not supported.

List Printer Command Font: When this checkbox is checked, specified data can be sent to the printer as it is.

List Driver Command Font: When this checkbox is checked, the font used to generate commands from data in the specified format can be used. Since this feature is not supported, do not change the default setting.



Compatibility Settings

Combine Adjacent Bar Code & RFID Fields: When this checkbox is checked, it is possible to prevent one bar code font from being separated into two or more bar codes when using a specific application such as MS Word and PowerPoint.

If data beginning or ending with a space is printed in a bar code font, such a space is deleted from the data. Also, when the same bar code font and the same Y position are specified for different data, they are all connected.

This feature is enabled as default. When unnecessary, you may disable it.

Encoding tab

• Text Encodings

Enables setting the code page for the data to be printed in the resident fonts. Wrong code page setting causes the printer not to print properly. Since this feature is not supported, do not change the default setting.

In the case the code page of B-850, B-852, or Arabic is selected for the printer, the data is printed as it looks with the printer font. But unsupported characters are not processed as the printer font. For the code page other than B-850, B-852 and Arabic, some characters may not be printed as they look or processed as the printer font.

Only the characters in the code page provided in the External Equipment Interface Specification of each printer model are usable.

Font Settings 🛛 🖓 🗙				
Resident Fonts Utility Fonts Encoding				
Text Encodings				
Code Page Description				
850 Western (DEM) 936 Simplified Chinese (ANSI, GB2312) 932 Japanese (ANSI, ShiftJIS)				
The order encodings are listed is the order of preference for fonts that				
support multiple encodings, and may be rearraged using drag and drop. The default settings should work for most applications.				
Encoding Selection Method				
Automatically select best encoding for each text field				
O Always use first supported encoding				
Reset To Defaults				

3.5.1 Bar Code Font

When you click the [Font] button in the [Fonts] page and select the "New Bar Code Font", the following screen appears to enable addition of a new bar code font.

Also, you can modify the registered bar code font properties. First select the bar code font to edit, then click the [Font] button in the [Fonts] page and select the "Edit" or right-click the bar code font and select the "Edit" to open the Bar Code Font screen.

Bar Code Font					×
	w Bar Code Font stern (ANSI 1252)	~	<u>W</u> idth:	Normal Multiple Lines	~
-Bar Code Options - Symbology:	Code 39 - Full ASCII				~
X Dimension:	16.7 mils	<u> </u>	rientation:	0°	~
<u>H</u> uman Readable:	Below Bars	► B	atio:	Auto	~
Symbology Specific	Options				
	ОК		Cancel	He	lp

Font

• Font Name

Enables entering a bar code font name using alphanumeric characters, Kanji, or Kana.

• Encoding

Enables specifying the code page for encoding characters. In the case 2-byte characters like Kanji are used, specify "Japanese".

• Join Multiple Lines

When this checkbox is checked, multiple-line data specifying the same bar code font is combined into a single bar code. This allows paragraph text to be encoded into one bar code. When this setting is not enabled, each row of text will generate a separate bar code.

Supplement: The all texts specifying the same bar code font in a page are combined and printed as one bar code.

• Width

Enables specifying the width of the text data, to be encoded into a bar code, on the application screen.

Supplement: This feature is useful when the text data does not fit in a page. Depending on the applications, however, this feature may not work. In that case, or when encoding a large number of texts in a single bar code, enable the "Join Multiple Lines."

Bar Code Options

Symbology

Enables selecting a type of the bar code or two dimensional code from the following.

- Code 39 Full ASCII
- Code 39 Regular
- Code 93
- Code 128
- Codabar (NW-7)
- Data Matrix
- EAN/JAN-8
- EAN/JAN-13
- GS-1 Composite
- GS-1 DataBar (RSS)
- nterleaved 2-of-5(ITF)
- Japanese 4-State Customer Code
- KIX 4-State Customer Code
- MaxiCode
- MicroPDF417
- Micro QR Code
- MSI Plessey
- PDF417
- QR Code
- Royal Mail 4-State Customer Code
- UPC-A
- UPC-E
- US POSTNET (Zip, Zip+4, & DPBC)
- USPS Intelligent Mail (4State-Customer-Code)

X Dimension

Enables specifying the width of a narrow bar or a cell. (It differs depending on the printer models or selected bar code symbologies.)

Supplement: The height of a bar code is adjustable by specifying the font size on the application.

Human Readable

Enables specifying the visibility of the human readable characters displayed with the bar codes on the labels. (Depending on the bar code symbologies, this feature may not be available.)

- None
- Below Bars

Orientation

Enables specifying the orientation of the bar code on the label.

- 0°
- 90°
- 180°
- 270°

```
    Ratio
```

Enables specifying the wide-to-narrow element ratio of the bar code. (Depending on the bar code symbologies, this feature may not be available.)

Auto

• 2.0 to 3.0

Symbology Specific Options

Enables setting options specific to the selected bar code symbology.

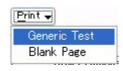
3.6 Tools Tab

Clicking the Tools tab enables testing the printer operations or setting variable options.

👹 TEC B-SA4T (300 dpi) Properties	? 🗙
General Sharing Ports Advanced Security Fonts	Tools About
Printer Print Action Configure	
Driver	ptions
<u>Status Monitoring Manage (</u>	Cache
OK Cancel Apply	Help

Printer

♦ Print



Generic test

Prints an image "TEST" on a label on the print conditions (Media size, position adjustment, sensor type, etc.) specified in the Stock page. This should help verify that the computer being used is communicating with the printer.

Blank page

Prints a blank label on the specified conditions (Media size, position adjustment, sensor type, etc.)

Action

Available features differ depending on the printer models.

 Form Feed

 Cut

 Read Printer Information...

 Manage XML Data Print Files...

 Reset Printer

 Test Print Head...

 Send Printer Command...

 Send File To Printer...

• Form Feed

Feeds a label on the specified conditions Media size, position adjustment, sensor type, etc.)

• Cut

Cuts the label immediately.

Read Printer Information

Displays the version and option information obtained from the printer. The information to be obtained differs depending on the printer models and interfaces. This feature is not supported.

Manage XML Data Print Files

Enables managing the format, graphic, and font files related to the XML data in the printer. This feature is not supported

Reset Printer

Enables resetting the printer. This is available only when the RS-232C interface is used.

• Test Print Head

Allows execution of the printer's broken pins test. The test will detect if thermal elements in the print head are open. A failed test would suggest a need to replace the print head to ensure perfect print quality. Clicking this menu will bring up the display window on the right.

Print Head Check 🛛 🔀			
Print Head C <u>H</u> ead:	heck Black		
Specify Range 0.00 in 4.09 in			
Click 'OK' to check the print head for broken dots. After about 10 seconds, check the printer's LCD display. If an error is displayed, the print head may require repair or replacement.			

• Send Printer Command

Allows sending the programmed printer commands to the printer. Clicking the [Query] button enables displaying the printer status returned in response to the printer command. The Query feature is available only when the bi-directional communication is enabled and the query commands are sent to the printer. For details of the printer commands, refer to the *External Equipment Interface Specification* of each printer model.

Send Printer Command	
Printer Command {WB}	Send
Query Response	
••0030000230102401024	Display As: • Iext (ANSI) • Text (LITF-8) • Binary Save to File Clear Response
	<u>Close</u> Help

• Send File To Printer

Allows sending a command file directly to the printer.

Configure



• Printer Options

Automatic Status Response: When this checkbox is checked, the printer will automatically send the status to the host at the end of print or occurrence of an error.

Note: This feature is enabled as default though the printer driver does not use its status. When this is not necessary, remove the check.

ł	Printer Options							
	Printer Options Automatic Status Response Include Job Information							
	Check Comman							
	Command Protocol Control Codes:	Standard	~					
	<u>Start of Command:</u>	{	123					
	End of Command:	🖌	124					
	End of <u>L</u> ine:	}	125					
	▲dd CR/LF at ei	nd of line						
		ОК		Cancel	Help			

Include Job Information: When this checkbox is checked, the job information obtained from the printer through the SNMP feature is added to those to be printed. This information is displayed on the Network Tool.

Note: This feature is disabled as default. If you do not need the job information on the SNMP, do not change the default setting.

Check Command Sequence: When this checkbox is checked, a command, which checks whether any necessary command is missing from a command string the printer received, is attached. This function is available only to the B-EV4-T and B-EV4-G.

Command Protocol

Control Codes: Enables setting the control code for the printer commands. It must be the same as the control code specified on the printer.

Note: By default, the "Standard" is specified. When Kanji code is specified for the printer font, PEF417, MicroPDF417, Data Matrix, Maxicode, or QR code, set the "Control Codes" to "ESC/LF/NUL". Failure to do so causes an error.

Bluetooth Connection

In the case of Bluetooth connection using the virtual COM port, enable the checkbox.

• Delay Close

Sets the wait time before link disconnected from the data submitted..

Printer Options					
Printer Options Image: Automatic Status Response Image:					
Command Protocol					
Control Codes: Standard					
Start of Command: { v 123					
End of Command: 124					
End of Line: } - 125					
✓ Add CR/LF at end of line					
Printer Communication					
Bluetooth Connection					
Delay Close: 1000 ms					
OK Cancel Help					

Configure Memory

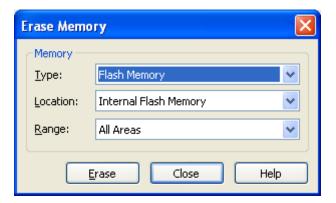
If the allocated memory sizes are differ When the "Configure Memory" is clicked, the screen on the right is displayed to enable partitioning the internal memory or the expansion memory into areas of the specified size. When the [OK] button is clicked, the changed memory allocation will be set to the printer.

If the specified memory size is different from those of the printer, the printer automatically re-allocates in order of priority.

Memory Configuration 🛛 🛛 🗙					
Installed Memory Internal Memory:	3072 K			~	
Expanded Memory;	Not Insta	alled		*	
Memory Allocation					
Location:	Internal	Flash I	Memory	*	
Total <u>A</u> vailable:	3072				
Bitmap <u>F</u> onts:	1024	*			
<u>T</u> rueType Fonts:	1024	*			
Formats (TPCL):	1024	*			
BASIC Storage:	0	*			
Formats (Label Mode);	0	A V			
Graphics	0	A V			
	ОК		Cancel		Help

• Erase Memory

When the "Erase Memory" is clicked, the screen on the right is displayed to enable formatting the specified flash memory. When the [OK] button is clicked, the memory format is executed.



Ribbon Settings

When the "Ribbon Settings" is clicked, the screen on the right appears to enable fine adjustment of the ribbon motor voltages. Adjusting the ribbon motor voltage is effective to improve ribbon slack or wrinkles.

Before changing the default settings, refer to the manual of each printer model. When the [OK] button is clicked, the changes are sent to the printer.

Ribbon Settings						
<u>R</u> ibbon:	Black	~				
Ribbon Ty	/pe					
<u>T</u> ype:	Normal	×				
<u>W</u> idth:		×				
⊂Ribbon M	otor Voltage Adjustment —					
Set	Rewind Motor:	0				
	Back Tension Motor:	0				
ОК	Cancel	Help				

Driver

Driver Options

Administration tab

Enables saving the settings of this printer driver in a file or importing the settings into a different or freshly installed printer driver. It also allows importing previously saved settings to replace the current settings of this printer driver.

Import: Allows reading the checked items from the "Driver Setting File (*.sds)" to replace the current settings. The files of the older versions having a file extension of "sfm", "sbf", "spr", or "sdm" can be also used, however, a part of the items cannot be replaced.

Export: Allows saving the checked items in a "Driver Setting File (*.sds).

Driver Options
Administration Network Settings Printer Specifications Driver Settings Presets Printer Properties Printer Properties Printing Preferences Stock Sizes Import Export Reset to Defaults
OK Cancel Apply Help

Reset to Defaults: Allows restoring the checked items to the factory default.

- Bar Code and RFID Fonts Registered bar code fonts
- □ Network Settings ······· Setup information of the [Network Settings]
- □ Presets ······ Registered preset lists

- □ Stock Sizes ······ Registered stock settings

Network Settings tab

When the shared printer is installed as a network printer, its setup information or statuses can be shared between the server and the client.

This feature is not supported. To set the printer as a network printer, refer to To print on the shared printer and follow the procedure.

Note: Disable the "Bidirectional support" on the client PC.

Driver Options	? 🔀				
Administration Network Settings Regional Op	otions Printer Specifications				
Network Features					
Configuration Sharing					
Status: Available	Network <u>S</u> etup				
Network users allowed to modify settings:					
OK Cancel Apply Help					

Regional Options tab

Allows changing the language and units of measurement to agree with the region in which these printers are being used.

Language Selection: Allows selecting the desired language to be used.

Language

- · Use Windows Setting • Enalish
 - Italian
 - Spanish
 - French
- Portuguese (Brazil) Japanese
- Chinese (Simplified)
 Chinese (Traditional)
- Czech

Dutch

German

- Danish
- Polish Finnish
 - · Portuguese (Portugal)

Norwegian

- Greek Hungarian
- Korean Turkish
- Russian
- Swedish
- Thai

Administration Network Settings Regional Options Printer Specifications Language Selection Language: Use Windows Setting v Changes to the language will not take effect until the driver property sheet is closed and opened again. Measurement System Use Windows Setting Units: ¥ Driver settings will be displayed in the default units of measurement specified here. If you specify different units when entering a measurement into the driver, the entered value will be automatically converted to the default units. Windows Settings..

Cancel

Apply

ΟK

?

Help

Driver Options

Measurement System: Allows selecting the desired unit of measure.

<u>Units</u>

- Use Windows Setting
- Inches
- Millimeters
- Centimeters

Windows Settings: Displays the "Regional and Language Options" of Windows.

• Printer Specifications tab

Unprintable Width: Allows making minor adjustments in the horizontal positioning of the printed image on the label. Since this feature is not supported, do not change the default setting.

Model Specifications: Allows setting the specification of the printer, such as the resolution and media size. Since this feature is not supported, do not change the default settings. If they are changed, printing cannot be performed properly.

Driver Options 🔹 💽 🔀								
ſ	Administration	Network	Settings	Reg	jional Options	Printe	r Specifications	1
	Unprintable Width This setting controls the distance from the edge of the label stock to the edge of the print head. Because the default setting is the value specified by the printer manufacturer, do not change it unless you know exactly what you are doing.							
	Unprintable	<u>W</u> idth:			<u>R</u> ese	et to De	efault	
	Model Spec	ifications Manufact		ults				
	⊠ Resolution	n:	300		Y Resolution:		300	
	<u>P</u> rintable Wi		4.09 in		<u>T</u> racking:		Center 👻	
	- Media Size I Minimum Wi		0.39 in		Minimum Len	gth:	0.12 in	
	Maximum W	/idth:	4.65 in		Maximum Ler	ngth:	39.25 in	
OK Cancel Apply Help						5		

Logging Options

Supports logging print jobs and recording printer code to files for debugging purposes. This feature is available only when the "Bi-directional support" is enabled.

Logging tab

Enables recording printed pages and job history to a file or as event logs. Only the Legacy Log, created by clicking the [Tools] button and "Add Legacy Log", is supported.

Tools	-		
Add	Legacy	Log	

Logging Options	? 🗙
Logging Printer Code Recording	
Logging Log V Tools V	
Log Name Log Type Format	
OK Cancel Apply H	lelp

• Printer Code Recording tab

Allows recording of all of the commands sent to the printer to a file. When the "Record Printer Code" checkbox is checked, the printer codes are recorded to the specified directory. Unlike using the "Print to File" option in most applications, "Printer Code Recording" allows printing to the printer and to a file simultaneously.

To reduce the load of the hard disk, the created files need to be deleted periodically.

Logging Options	? 🔀				
Logging Printer Code Recording					
Printer Code Recording					
Directory: C:\Log Files\TEC B-SA4T	Bro <u>w</u> se				
	Vjew File				
	Send to Printer				
	D <u>e</u> lete File				
	Delete <u>A</u> ll Files				
OK Cancel	Apply Help				

Status Monitoring

• Status tab

Enables monitoring the printer status.

Applicable printer models:

B-SX4T (203 dpi), B-SX4T-CN (203 dpi), B-SX5T (305 dpi), B-SX5T-CN (305 dpi), B-SV4, B-SA4T (203 dpi), B-SA4T-CN (203 dpi), B-SA4T (300 dpi), B-SA4T-CN (300 dpi), B-SA4T-CN (300 dpi), B-SX6T (305 dpi), B-EX4T2 (305 dpi), B-EX4T1 (203 dpi), B-EX4T1 (305 dpi), B-EX4T2 (203 dpi), B-EX4T2 (300 dpi), B-EX4T2 (600 dpi), B-EX4D2 (203 dpi), B-FV4 (203 dpi), B-FV4 (300 dpi), B-FV4 (300 dpi), B-FP3D (203 dpi), B-EX6T1 (203 dpi), B-EX6T1 (305 dpi), B-EX6T3 (203 dpi) and B-EX6T3 (305 dpi).

Requirements to use the status monitor:

- The printer and the PC are connected with a serial interface cable.
- The printer and the PC are connected with a parallel interface cable and the "CENTRO. MODE" and "PLUG & PLAY" are set to "ECP" and "ON", respectively. (B-SX4T/SX5T only)
- The printer and the PC are connected with a USB cable.
- The printer and the PC are connected with a LAN cable.

	Status Monitoring 🛛 ? 🔀
	Status Job Verification Communication
	Printer Status Monitoring
	O Disabled
	⊙ <u>On demand</u>
	Status Display Options
3	Show <u>a</u> dvanced status in Comments field
	Show icon in taskbar notification area
	Automatically show Status Window when errors occur
	Status Window Preferences
	OK Cancel Apply Help

TEC B-SA4T (300 dpi) Status

USB001

Ready

TEC B-SA4T (300 dpi)

Printer:

Status:

Port:

×

Printer Status Monitoring: Enables selecting how to start the status monitor.

- Disabled: Printer status is not monitored.
- During print jobs only: Printer status is monitored while a print job exists in the print queue.
- On demand: Printer status is monitored only while printing.
- Continuous: Printer status is always monitored.

Status Display Options:

Show advanced status in Comments field: When checked, a printer status is displayed on the Comment column of the "Printer & FAX" window. Since this feature is not supported, do not change the default settings.

Show icon in taskbar notification area: When checked, the status monitor icon is displayed on the task bar and the printer statuses are periodically monitored.

Show Status Window: When checked, the status monitor's status window is displayed. Remove the check or click the [X] button to close the window.

- Printer: Name of the printer monitored.
- Port: Output port monitored. The printer uses this port for printing.
- Status: Printer status This is equivalent to the message displayed on the printer LCD. This windows only shows the printer statuses, not detailed information like the number of unprinted labels.

Ready	Paused	Printing
Ready, Ribbon Low	Paused, Ribbon Low	Printing, Ribbon Low
Ready, Paper near end	Pause, Paper near end	Printing, Paper near end
Command Error	Offline	Out of Paper
Out of Ribbon	Head Open	Paper Jam
Cutter Error	Ribbon Error	Sensor Error
Door Open	RFID Write Error	RFIE Error
Label Present	I/O Error	Motor Temperature High
Head Temperature High	Ambient Temperature Error	Output Full
Battery Temperature High	Low Battery	Charge Error
Bluetooth Setting Error	Battery Warning	Head Temperature Warning

Motor Temperature Warning	Memory Write Error	Memory Error
Memory Card Error	Busy	RFID Setting Error

[How to recover from an error]

When an error like "NO PAPER" occurred on the printer, clear the cause of the error, and press the [RESTART] key on the printer.

For details, please refer to the Owner's Manual of each printer.

Automatically show Status Windows when errors occur: When checked, the printer status is periodically monitored and if an error occurred during printing, the status window is displayed.

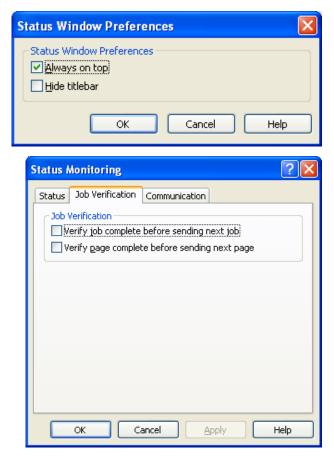
Status Window Preferences:

Always on top: When checked, the status window is always displayed on the top of all other windows.

Hide titlebar: When checked, the titlebar of the status window is hidden.

Job Verification tab

Enables setting the print job monitoring method. When either checkbox is checked, printing is performed while verifying a completion of printing. Since this feature is not supported, do not change the default settings.



Communication tab

Enables setting the timeout and polling interval for the status monitoring are set. Do not change the default settings.

Notes:

- Be sure to disable the status monitor when uninstalling the printer driver or changing the output port.
- When the printer is used as a shared printer, the status monitor window is not displayed on the client PC.
- While the status monitor is displayed, the ON LINE LED blinks periodically. This is not a failure.
- <u>DO NOT enable the status monitor for the printers other than</u> B-SX4T (203 dpi), B-SX4T-CN (203 dpi), B-SX5T (305 dpi), B-SX5T-CN (305 dpi), B-SV4, B-SA4T (203 dpi), B-SA4T-CN (203 dpi), B-SA4T (300 dpi), B-SA4T-CN (300 dpi), B-852-R, B-452-R, B-462-R, B-EP2DL-G, B-EP4DL-G, B-SX6T (305 dpi), B-SX8T (305 dpi), B-EX4T1 (203 dpi), B-EX4T1 (305 dpi), B-EX4T2 (203 dpi), B-EX4T2 (300 dpi), B-EX4T2 (600

Status Monitoring		? 🛛
Status Job Verification	Communication	·
Timeouts Send timeout:	30000	ms
Response timeout:	30000	ms
Polling Interval		
During jobs:	1000	ms
When <u>i</u> dle:	5000	ms
ок с	ancel	Apply Help

dpi), B-EX4D2 (203 dpi), B-FV4 (203 dpi), B-FV4 (300 dpi), B-FP3D (203 dpi), B-EX6T1 (203 dpi), B-EX6T1 (305 dpi), B-EX6T3 (203 dpi) and B-EX6T3 (305 dpi).

- It takes time to detect an OFFLINE status. (30 sec. at least)
- If the "Show icon in taskbar notification area" and "Show Status Window" checkboxes are checked, the status monitor may not work properly when the PC is started. If the "OFFLINE" is displayed at the start of the PC, remove the checks from these options.

3.7 Designation of Printer Font

It is possible to use the printer's resident fonts and bar code symbologies within any Windows application by selecting the printer fonts like "TEC Kanji" for the data to be converted.

Eile Edit View Insert Format Tools <u>D</u>ata 🗋 🚰 🔒 🔒 🖪 💁 🖏 💞 📖 👗 🖻 🖺 TEC Helvetica ▼ 10 ▼ B I U = Ξ E TEC Dutch 801 (Cond.) ■ TEC Dutch 801 (Exp.) TEC Gothic 725 E TEC Gothic 725 (Cond.) E TEC Gothic 725 (Exp.) TEC Helvetica In TEC Helvetica (Cond.) E TEC Helvetica (Exp.) **B** TEC Letter Gothic **B** TEC Letter Gothic **B** TEC Letter Gothic 🛎 TEC OCR-A 13

1	2	Eile	<u>E</u> dit	⊻iew	Insert	F <u>o</u> rmat	<u>T</u> ools	<u>D</u> ata
=		2) 🔒 I	a 🗳	ABC 🛱	K Y	Þ 🛍
1	TEC	-BarF	ont Co	de39	10 🗸	B 2	<u>u</u>	≣≣
	₿	TEC	C Pric	e For	nt 2			^
	₿	TE	C Pric	e For	nt 3			
	₿	ΤE	СTi	mes F	Roman			
-	₿	ΤE	СTi	mes F	Roman	(Cone	£.)	
\vdash	₿	ΤE	C Ti	mes F	loman	(Exp.)	
F	₿	ΤE	C-B	arF	ont	Code	9128	
	≞	TE	C-E	arF	ont	Code	e39	
	₽	ΤE	C-B	arF	ont	Data	a Ma	
	₽	ΤE	C-B	arF	ont	EAN1	L3	
\vdash	≞	ΤE	C-E	arF	ont	PDF4	117	
H	₽	ΤE	C-B	arF	ont	QR (Code	
	₿	ΤE	C-E	arF	ont	UPC-	-A	~
	13							

Example of selecting a font on the application

Character font

Bar code font

Supplement:

- The name of the printer fonts (bar code or 2D code fonts) for the Toshiba TEC bar code printers starts with "TEC", like "TEC Kanji". Although the "TEC ***" fonts do not appear as bar codes on the screen, they will be converted by the driver into the desired bar codes.
- It is possible to expect an increase of the printing throughput if the printer font is used.
- Printer fonts (including bar code fonts) shown on the application screen look different from the actually printed ones in on appearance and size.
- To use the TEC Kanji Outline fonts on the B-372, B-472, and B-872, separately sold fonts are required.

■ Example of bar code font programming (Visual Basic 5.0/6.0)

In the case the registered bar code font name is "BarFont Code 39":

Private Sub Command1_Click() Printer.FontName = "TEC-BarFont Code39" Printer.FontSize = 36 Printer.FontBold = False Printer.FontItalic = False Printer.CurrentX = 1000 Printer.CurrentY = 1000 Printer.Print "1234567" Printer.EndDoc End Sub

Note: The Visual Studio.NET (VB/C#) or later does not support the above processing.

Restrictions of Bar Code Fonts

- Depending on the applications, bar code fonts may not be listed in the font types. Make sure that the application used supports the printer fonts.
- Bar code fonts do not appear as bar codes on the document of the application. Instead, characters or symbols are displayed.
- If a bar code rotation is specified, the actual print position differs from the position specified by the application. Print the data and adjust the position of the printed image.
- The height of bar code is specified by the character size point. The character size points are converted into millimeters on the basis of the following table, or there may be a case that the bar code font is converted into other character font and no bar code is printed.

Point	Bar height (mm)	Point	Bar height (mm)
8	2.8	36	12.7
9	3.2	48	16.9
10	3.5	60	21.2
11	3.9	72	25.4
12	4.2	108	38.1
14	4.9	144	50.8
18	6.4	180	63.5
24	8.5	216	76.2
30	10.6		

• In the case Kanji code is included in data, select the Tool tab, the [Configure] button, "Printer options", and set the "Control Codes" to "ESC/LF/NUL".

Printer Options 🛛 🔀					
Printer Options Automatic Status Response Include Job Information					
-Command Protocol					
<u>C</u> ontrol Codes:	ESC / LF / NUL 🗸				
Start of Command:	<eso> 😺 27</eso>				
End of Command:	<lf> 💉 10</lf>				
End of <u>Li</u> ne:	<nul> 🗸 🛛</nul>				
Add CR/LF at end of line					
	OK Cancel Help)			

• When a control code or special code is used with the bar code font specified, refer to the following table and

enter the corresponding data. In the case a caret "^" is used, enter "^" because the caret "^" is the default function character. If the function character is changed from "^" to the other in the [User Commands] of the [Advanced Options], replace the "^" with the specified character.

Control code	Input data	Control code	Input data	Control code	Input data
>@ (00H)	N/A	>P (10H)	^ <dle></dle>	>0	>
>A (01H)	^ <soh></soh>	>Q (11H)	^ <dc1></dc1>	>1	^
>B (02H)	^ <stx></stx>	>R (12H)	^ <dc2></dc2>	>2	^3
>C (03H)	^ <etx></etx>	>S (13H)	^ <dc3></dc3>	>3	^2
>D (04H)	^ <eot></eot>	>T (14H)	^ <dc4></dc4>	>4	^s or ^S
>E (05H)	^ <enq></enq>	>U (15H)	^ <nak></nak>	>5	^c or ^C
>F (06H)	^ <ack></ack>	>V (16H)	^ <syn></syn>	>6	^b or ^B
>G (07H)	^ <bel></bel>	>W (17H)	^ <etb></etb>	>7	^a or ^A
>H (08H)	^ <bs></bs>	>X (18H)	^ <can></can>	>8	^1
>I (09H)	^ <ht></ht>	>Y (19H)	^ 		
>J (0AH)	^ <lf></lf>	>Z (1AH)	^		
>K (0BH)	^ <vt></vt>	>[(1BH)	^ <esc></esc>		
>L (0CH)	^ <ff></ff>	>¥ (1CH)	^ <fs></fs>		
>M (0DH)	^ <cr></cr>	>] (1DH)	^ <gs></gs>		
>N (0EH)	^ <so></so>	>^ (1EH)	^ <rs></rs>		
>O (0FH)	^ <s ></s >	>_(1FH)	^ <us></us>		

305d	lpi	3000	lpi
Specified size	Print size	Specified size	Print size
1.0 to 2.0	1.9	1.0 to 2.5	1.9
2.5 to 3.0	2.8	3.0 to 3.0	2.9
3.5 to 5.0	3.8	3.5 to 5.0	3.8
5.5 to 7.0	5.6	5.5 to 7.0	5.8
7.5 to 9.0	7.5	7.5 to 9.0	7.7
9.5 to 10.0	9.4	9.5 to 10.5	9.6
10.5 to 14.0	11.3	11.0 to 14.5	11.5
14.5 to 16.0	15.1	15.0 to 16.5	15.4
16.5 to 18.0	16.9	17.0 to 18.5	17.3
18.5 to 21.5	18.8	19.0 to 22.0	19.2
22.0 to 27.0	22.6	22.5 to 27.5	23.0
27.5 to 32.5	28.2	28.0 to 33.0	28.8
33.0 to 50.0	33.9	33.5 to 50.0	34.6

■ Correspondence table of the specified size of TEC Kanji and actually printed size

203	dpi	600)dpi
Specified size	becified size Print size		Print size
1.0 to 3.5	2.8	1.0 to 1.0	1.0
4.0 to 5.0	4.3	1.5 to 1.5	1.4
5.5 to 7.5	5.7	2.0 to 2.5	1.9
8.0 to 10.0	8.5	3.0 to 3.5	2.9
10.5 to 13.5	11.3	4.0 to 4.5	3.8
14.0 to 15.5	14.2	5.0 to 5.0	4.8
16.0 to 21.0	17.0	5.5 to 7.0	5.8
21.5 to 27.0	22.7	7.5 to 8.0	7.7
27.5 to 32.5	28.4	8.5 to 9.0	8.6
33.0 to 57.5	34.0	11.5 to 13.5	11.5
		14.0 to 16.5	14.4
		17.0 to 25.0	17.3

- 92 -

4. System Configuration

Computer	IBM PC-AT compatible
Windows NT	Microsoft Windows 2000/XP/Server 2003/Vista/Server 2008/7/Server 2008 R2 / 8 / Server2012 / Server2012R2 / 10
Windows 9X	Microsoft Windows 98/Me
Printer	TOSHIBA TEC Bar Code Printer
Centronics	Centronics interface cable
Printer	Connection method to Ethernet
server	B-SV4: Optional LAN adapter
	B-SX: Optional PCMCIA board and LAN card
	<u>B-SX</u> : Optional LAN board
	B-SA4/B-852-R/B-452-R/B-EP2/B-EP4/B-EV4/B-SX6T/8T/B-EX4T1/T2/B-462-R/B-FP/B-EX6T1/
	<u>B-EX6T3</u> :
	The LAN interface is provided as standard.

The system requirements for this printer driver are as follows:

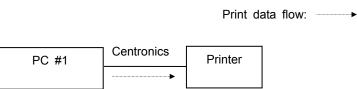
Notes:

- 1. When the printer server is used, set the port by following the guideline of the printer server device.
- 2. When the Toshiba TEC optional LAN board or a set of the optional PCMCIA board and a LAN card is used to connect the printer to the LAN, refer to **Section 6.3 How to Connect the Printer to LAN**.
- 3. When the printer is used as the network printer, refer to *To print on the shared printer* described in the installation procedure by OS.

4.1 System Configuration Example

Example 1 In the case a Windows PC is directly connected to the printer.

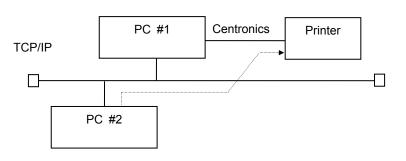
Install the printer driver (for Windows 9X or Windows NT) in the PC #1. Specify the LPT1 (local port) for the output port.



■ Example 2 In the case the printer is directly connected to the Windows PC #1 and printing is initiated from another Windows PC #2 via TCP/IP

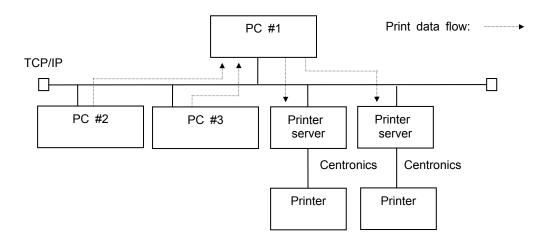
- 1. Install the printer driver (for Windows 9X or Windows NT) in the PC #1. Specify the LPT1 (local port) for the output port.
- 2. Right-click the printer icon, open the Properties, and specify the printer connected to the PC #1 as a shared printer.
- 3. Install the printer driver (for Windows 9X or Windows NT) in the PC #2.
- 4. Specify the network path of the printer connected to the PC # 1 and install it as a network printer.

Print data flow:



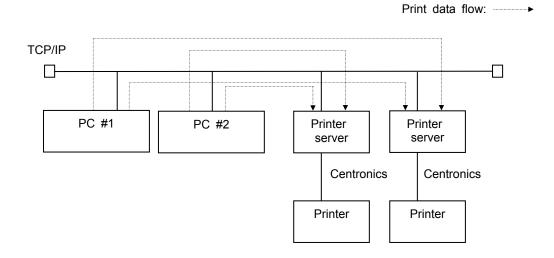
Example 3 In the case print jobs are sent from Windows PC #2 (Windows 9x) and Windows PC #3 (Windows NT) to the Windows PC #1 (Windows NT) via TCP/IP, and these print jobs are sent from the PC #1 to multiple printers

- 1. Install the printer drivers (for Windows NT) in the PC #1 for the number of printers connected.
- 2. Right-click the printer icon on the PC#1, open the Properties and add the LPR port specifying the printer server address.
- 3. In the Properties screen, specify the printer on the network as the shared printers.
- 4. Install the printer driver (for Windows 9X) in the PC #2.
- 5. Specify the network path of the printer connected to the PC # 1 and install it as a network printer.
- 6. Install the printer driver (for Windows NT) in the PC #3.
- 7. Specify the network path of the printer connected to the PC #1 and install it as a network printer.



■ Example 4 In the case print jobs are sent from Windows PC #1 (Windows 9x) and Windows PC #2 (Windows NT) to the multiple printers via TCP/IP

- 1. Install the printer drivers (for Windows 9X) in the PC #1 for the number of printers connected.
- 2. Add the LPR port specifying the printer server address. (Use other software like the printer server specific setting utility to add the LPR port.)
- 3. Specify the LPR Port added in Step 2 above as the print port of the PC #1.
- 4. Install the printer drivers (for Windows NT) in the PC #2 for the number of printers connected.
- 5. Right-click the printer icon on the PC #2, open the Properties, and add the LPR port specifying the printer server address.
- 6. Specify the LPR Port added in Step 5 above as the print port of the PC #2.



5. Addition/Deletion of Standard TCP/IP Port

When connecting the printer via LAN interface, configure the following settings on the printer using the printer system mode menu <7>IP ADDRESS.

- PRINTER IP ADDRESS
- GATEWAY IP ADDRESS
- SUBNET MASK
- SOCKET PORT

The above PRINTER IP ADDRESS and SOCKET PORT are used as the "Printer Name or IP address" and "Port No.", respectively when adding a port.

Note: When the "Bi-directional support" is used, do not specify the same output port for the multiple printer drivers on a computer. When you want to specify the same output port for the multiple printer drivers, disable the [Printer Status Monitoring].

Also, when multiple computers connect to the same printer, specify that printer as the shared printer or disable the [Printer Status Monitoring].

5.1 Addition

1. Right-click the printer icon, and click the "Properties" to open the printer properties screen.



2. Select the [Ports] tab and click the [Add Port] button.

ど TEC B-SA4T (3	300 dpi) Properti	ies			?×
General Sharing	Ports	Advanced	Security	Fonts	Tools	About
TEC B-	SA4T (30	0 dpi)				
Print to the following checked port.	ng port(s).	Documents	will print to) the first f	ree	
Port De	scription		Printer			~
LPT1: Prin	iter Port		TEC B-SA4	IT (300 dp	nij	
	iter Port iter Port					
COM2: Ser						
COM3: Ser						
COM4: Ser	ial Port					~
Add Port Delete Port Configure Port						
Enable bidirectional support Enable printer pooling						
	Joonny					
	DK	Cance		Apply		Help

 ${\it 3.}$ Select the "Standard TCP/IP Port" from the "Available port types" list, then click the [New Port] button.

Printer Ports	? 🛛
<u>Available port types:</u>	
Standard TCP/IP Port	
New Port Type	New Port Cancel

4. After the "Add Standard TCP/IP Printer Port Wizard" is started, click the [Next] button.

Add Standard TCP/IP Prin	Add Standard TCP/IP Printer Port Wizard				
	Welcome to the Add Standard TCP/IP Printer Port Wizard				
	You use this wizard to add a port for a network printer.				
	Before continuing be sure that: 1. The device is turned on. 2. The network is connected and configured.				
	To continue, click Next.				
	< Back Next > Cancel				

- 5. Type in the "Printer Name or IP Address" and click the [Next] button.
 - **Note:** The Port Name is automatically set when the "Printer Name or IP Address" is entered.

dd Standard TCP/IP Printer Port Wizard			
Add Port For which device do you want to add a port?			
Enter the Printer Name or IP address, and a port name for the desired device.			
Printer Name or IP Address:	XXX. XXX. XXX. XXX		
Port Name:	XXX.XXX.XXX.XXX		
	< <u>B</u> ack <u>N</u> ext >	Cancel	

6. Select the "Device Type" to the "Custom", then click the [Settings] button.

Add Standard TCP/IP Printer Port Wizard
Additional Port Information Required The device could not be identified.
The device is not found on the network. Be sure that: The device is turned on. The network is connected. The device is properly configured. The address on the previous page is correct. If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below. Device Type Standard Generic Network Card Standard Generic Network Card Stings
< <u>B</u> ack <u>N</u> ext > Cancel

7. When you choose the "Raw" for the Protocol, enter the printer SOCKET PORT as the "Port Number" and click the [OK] button. The default port number is "8000". Do not check the "SNMP Status Enabled" checkbox.

When you choose the "LRP" for the Protocol, enter any queue name (e.g. "Ipr") and click the [OK] button. Do not check the "LPR Byte Counting Enabled" and "SNMP Status Enabled" checkboxes.

Note: When the status monitor feature is used with the bi-directional support, select the "Raw".

Configure Standard TCP/	IP Port Monitor 🛛 🖓 🔀
Port Settings	
Port Name:	XXX. XXX. XXX. XXX
Printer Name or IP <u>A</u> ddress:	XXX.XXX.XXX.XXX
Protocol <u>R</u> aw	OL₽R
Raw Settings Port <u>N</u> umber: 8	3000
LPR Settings	
LPR Byte Counting Ena	abled
SNMP Status Enabled	
Community Name:	ublic
SNMP <u>D</u> evice Index: 1	
	OK Cancel

 $8.\,$ Click the [Next] button, and [Finish] button.

Add Standard TCP/IP Printer Port Wizard			
	Completing the Add Standard TCP/IP Printer Port Wizard You have selected a port with the following characteristics.		
	SNMP: Protocol: Device: Port Name: Adapter Type:	No RAW, Port 8000 xxxx.xxx.xxx xxxx.xxx.xxx	
	To complete this wizard, click Finish.		
		< <u>B</u> ack Finish Cancel	

9. When the "Add Standard TCP/IP Printer Port Wizard" is finished, a new port is added.

5.2 Deletion

1. Right-click the printer icon, and click the "Properties" to open the printer properties screen.



2. Select the [Ports] tab and click the [Delete Port] button.

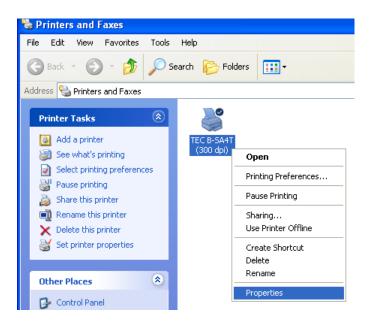
👹 TEC B-SA4T (300 dpi) Properties 🛛 🔹 💽				
General Sharing Ports Advanced Security Fonts Tools About				
TEC B-SA4T (300 dpi)				
Print to the following port(s). Documents will print to the first free checked port.				
Port Description Printer 🔥				
🗹 LPT1: Printer Port TEC B-SA4T (300 dpi)				
LPT2: Printer Port				
LPT3: Printer Port				
COM1: Serial Port				
COM2: Serial Port				
COM3: Serial Port				
🗖 COM4: Serial Port 💽				
Add Port Delete Port Configure Port				
Enable bidirectional support				
Enable printer pooling				
OK Cancel Apply Help				

 $\boldsymbol{\beta}.$ When the deletion of the port is completed, it is deleted from the print port.

6. Appendix

6.1 How to Enable Bi-directional Communication Support

I. Right-click the printer icon and open the Properties.



- 2. Click the [Port] tab.
- ${\it 3.}$ To enable the bi-directional support, check the "Enable bi-directional support" checkbox.

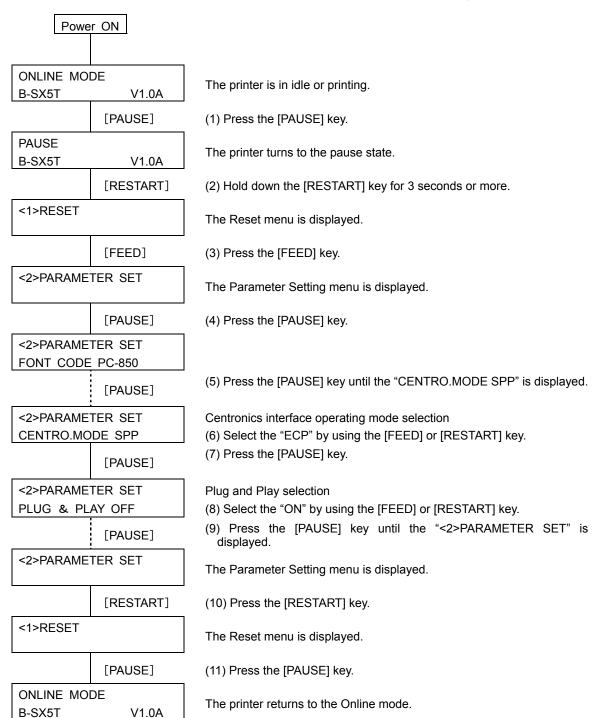
To disable the bi-directional support, remove the check from the "Enable bi-directional support" checkbox.

💐 TEC B-SA4T (300 dpi) Properties 🛛 🔹 💽 🔀				
General Sharing Ports Advanced Security Fonts Tools About				
TEC B-SA4T (300 dpi)				
Print to the following port(s). Documents will print to the first free checked port.				
Port Description Printer				
LPT1: Printer Port TEC B-SA4T (300 dpi) LPT2: Printer Port LPT3: Printer Port COM1: Serial Port COM2: Serial Port COM3: Serial Port COM4: Serial Port Add Port Delete Port				
Enable bidirectional support L Enable printer pooling				
OK Cancel Apply Help				

6.2 Parameter Setting on the Printer

For how to set the parameters, please refer to the Owner's Manual supplied with the connected TOSHIBA bar code printer.

Note: The following example is the parameter setting procedure for the B-SX5T. The "CENTRO. MODE" is set to "ECP" and "PLUG & PLAY" is set to "ON", respectively.



6.3 How to Connect the Printer to LAN

Right-click the printer icon, open the Properties, add a printer port, and specify it as an output port.

The output port to be used differs depending on the printer models and communication methods (unidirectional/bi-directional).

Printer Port Types

	LAN interface	Printer model	Method	Printer board Standard TCP/IP Port	
Op	Optional LAN board				
	B-SV704-LAN-QQ/ QP-R	B-SV4D (Except GS12) B-SV4T	Unidirectional	Raw or LPR protocol	
	B-9700-PCM-QM-R	B-SX4T (203 dpi) B-SX5T (305 dpi)	Unidirectional	Raw or LPR protocol	
	B-9700-LAN-QM-R		Bi-directional	Raw protocol	
Sta	andard feature				
	B-EV4 (203 dpi) B-EV4 (300 dpi)			LPR protocol	
	B-SA4T (203 dpi) / B-SA4T-CN (203 dpi) B-SA4T (300 dpi) / B-SA4T-CN (300 dpi) B-852-R		Unidirectional	Raw or LPR protocol	
B-002-K B-452-R B-462-R B-EP2DL-G B-EP4DL-G B-SV4D-GS12-QM-R B-SX6T (305 dpi) B-SX8T (305 dpi) B-EX4T1 (203 dpi) B-EX4T2 (203 dpi) B-EX4T2 (305 dpi) B-EX4T2 (600 dpi) B-EX4T2 (600 dpi) B-EX4D2 (203 dpi) B-EX6T1 (203 dpi) B-EX6T3 (203 dpi) B-EX6T3 (305 dpi) B-FV4 (203 dpi) B-FV4 (300 dpi) B-FP3D (203 dpi)		Bi-directional	Raw protocol		

Note: In the case of the unidirectional communication, be sure to disable the [Printer Status Monitoring].

TOSHIBA TEC CORPORATION