

TOSHIBA

TOSHIBA Label Printer

BCP Setting Tool B-EX4 series Operation Manual

6th Edition: April 01, 2018

TOSHIBA TEC CORPORATION

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1. Introduction

Thank you for purchasing the "BCP Setting Tool", a setting tool for the label printers of TOSHIBA TEC Corporation (hereinafter referred to as "TOSHIBA TEC").

This document gives you a general description of the "BCP Setting Tool" (hereinafter referred to as "this Product") including the installation procedure and features.

Supported Printers

The Product supports the following printers:

- B-EX4T1-G/T (203dpi/305dpi)
- B-EX4T1-T JP (305dpi)
- B-EX4T2-G/T (203dpi/300dpi)
- B-EX4D2-G/T (203dpi/300dpi)
- B-EX4T2-H (600dpi)
- B-EX4T3-H (600dpi)

2. Start-up

Printer

The printer shall be idle in the online mode which accepts print jobs (hereinafter referred to as "online mode") to communicate with this Product.

The functions of this Product are not executed unless the printer is in the online mode or idle state.

Exceptionally, the file transmissions and reset function are accepted regardless of the printer status. Some functions may not be enabled depending on the printer status. In this case, turn off the printer and back to on.

Changes in the parameter settings take effect upon completion of the setting. Depending on the changed parameters, printer configurations need to be changed accordingly.

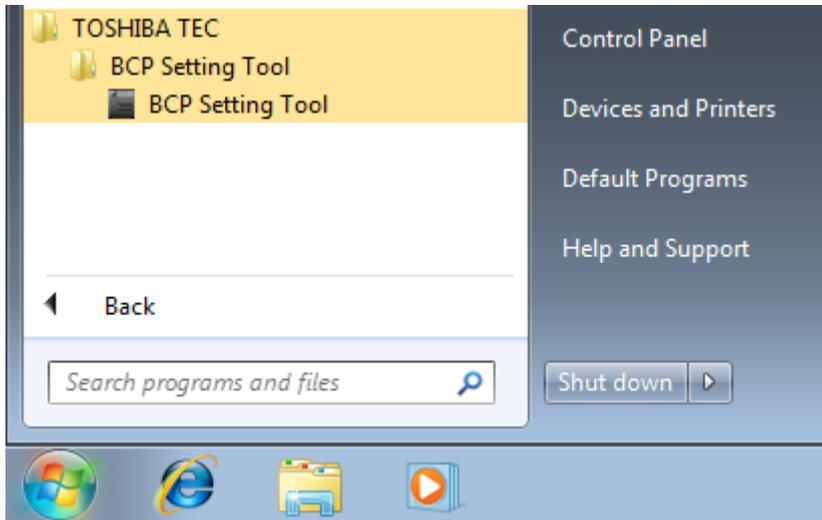
In the case the security settings for the wireless LAN are changed, alternate the security settings for the computer, too.

When an IP address, port number, or host name for LAN is changed, the setting on the printer will be automatically alternated properly.

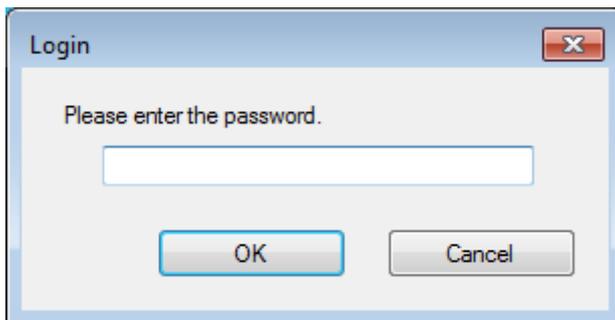
When the command control code is changed, the environment setting will be automatically alternated accordingly.

PC

1. Select [Start] - [All Programs] - [TOSHIBA TEC] - [BCP Setting Tool] - [BCP Setting Tool] and click [BCP Setting Tool].



2. The [Login] screen is displayed when the log-in password has been set.



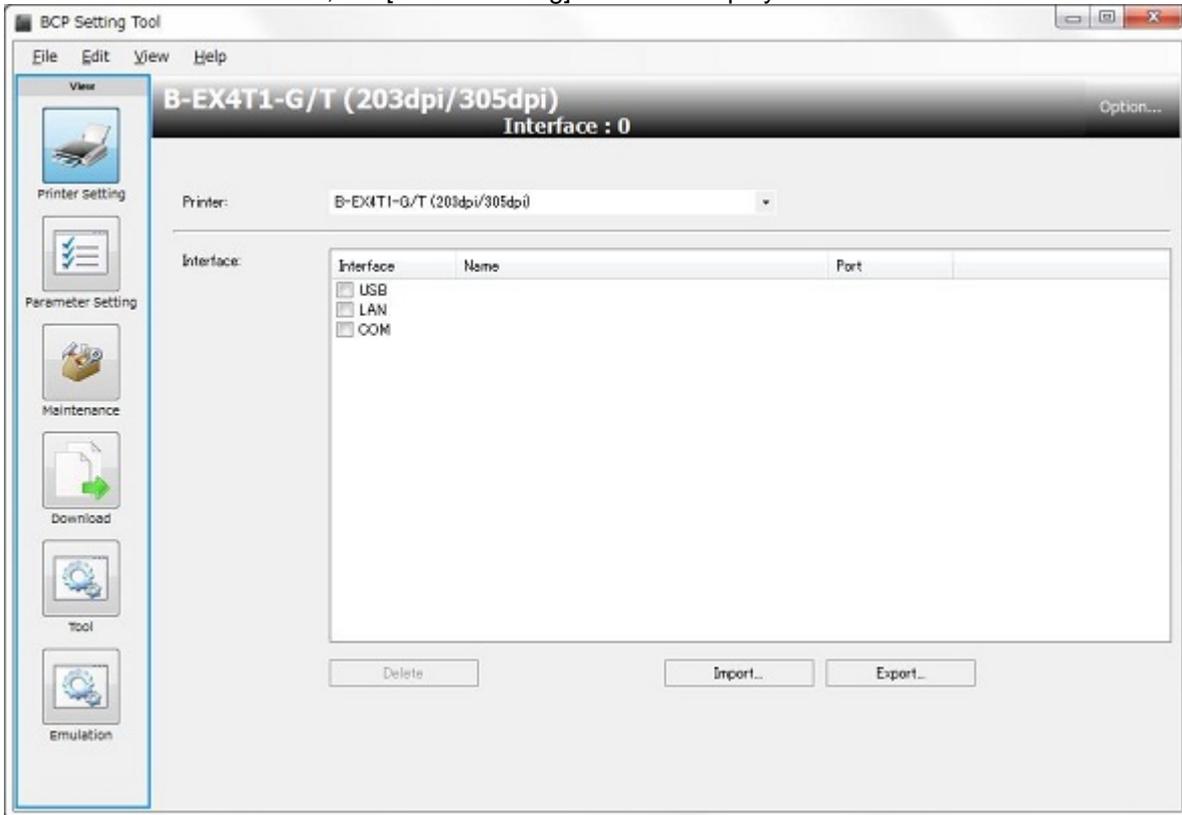
Enter the password, then click [OK].
When [Cancel] is clicked, the [Login] screen is closed.
The entered password is displayed with hidden characters.
When the password matched, this Product starts.
If a wrong password is entered, the error message is displayed.

3. When this Product is started, the [Printer Setting] screen is displayed.
Select the printer model to be connected and the interface used for communication.

3. Preparation

Main Screen

When this Product is started, the [Printer Setting] screen is displayed.



Menu bar

Menus to support each function are provided.

Menu icon

The Menu icons are placed in this area.

When an icon is clicked, the corresponding menu screen appears on the main view area.

The icon being selected is highlighted.

Printer Setting: Enables selecting the printer model to be connected and configuring the interface used.

Parameter Setting: Obtains or changes the parameter settings.

- **General Tab, General (2) Tab:** Settings related to basic printer behaviors and fine adjustment
- **Device Tab:** Settings related to the device including the interface
- **LAN Tab:** Settings related to the network
- **WLAN Tab, WLAN (2) Tab:** Settings related to wireless LAN
- **RFID Tab:** Settings related to RFID encoding

Maintenance: Obtains or initializes the printer maintenance information.

- **Self Diagnosis Tab:** Processing related to self-diagnosis
- **Setting Tab:** Processing related to the memory

Download: Downloads the printer firmware.

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	▪ Firmware Download Tab:	Downloads printer firmware
	▪ BASIC Download Tab:	Downloads the BASIC program
	▪ Emulation Download Tab:	Downloads the Z Mode/D Mode BASIC program
	▪ Create HTML/XML ROM Tab:	Creates HTML/XML ROM file
Tool:	Other functions	
	▪ Tool Tab:	Sends a selected file in a binary format.
	▪ Create External Character Tab:	Creates external character files to be stored in the printer.
	▪ Test Print Tab:	Performs a test print for checking the communication and print quality.
Emulation:	Settings related to Z Mode/D Mode parameters	
	▪ Z Mode System Parameter Setting:	Settings related to Z Mode parameters
	▪ Z Mode Initial values & table Setting Tab:	Settings related to Z Mode default parameter, font mapping table and drive allocation
	▪ D Mode Initial values Setting Tab:	Settings related to D Mode default parameters

Header view

Displays the conditions for communication with the printer.
The settings specified in the [Printer Setting] screen are reflected.

[Options...] button

Displays the [Environment] screen which allows changing the operating conditions for this Product.
This Product needs to be restarted for the changed language take effect.

Main view

Displays the setting screen of the selected menu icon.
The functions of the selected menu are executed on this area.

Menus

File



[Import...]

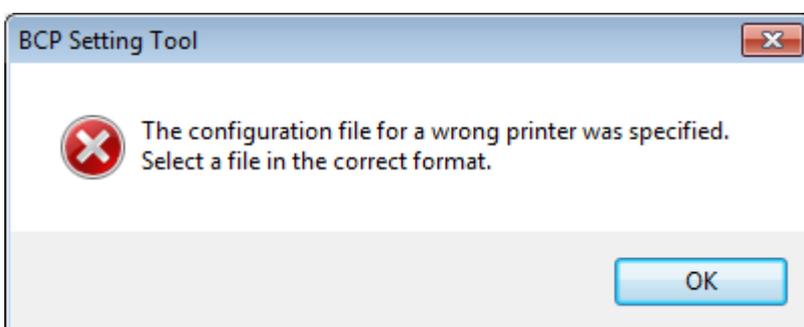
This menu is used to retrieve setup information from a specified file.

This menu is selectable only when the [Parameter Setting] screen is activated.

When this menu is clicked, the [Import] screen is displayed. Specify a setup information file, click [Open], and the file import is started.

When a file other than the setup information file is specified, the error message is displayed

When the setup information file is not for the printer model selected on the [Printer Setting] screen, the following confirmation message appears.



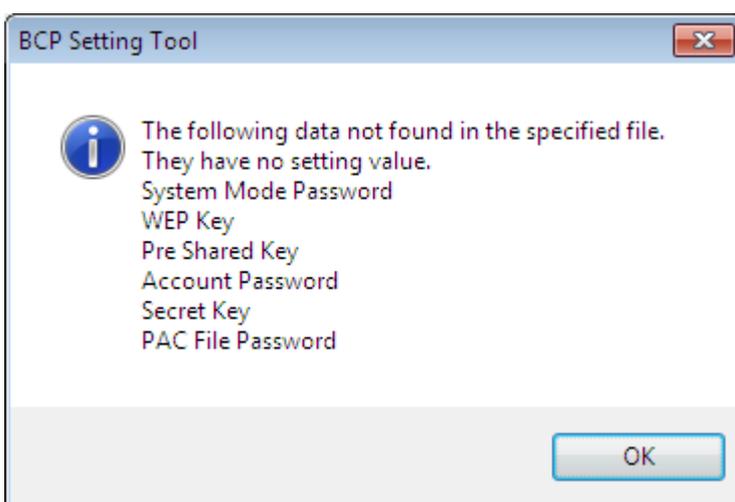
When [Yes] is clicked, the printer model selected on the [Printer Setting] screen is changed and a file import is executed.

When [No] is clicked, the file import is canceled.

The setup screen status at storage can be reproduced.

In addition to parameters, the checkbox settings for groups are reproduced.

When no security information is found in the specified file, the following message is displayed.



When the specified file contains security information, imported security information is displayed with

hidden characters.

[Export...]

This menu is used to store setup information in a specified file.

This menu is selectable only when the [Parameter Setting] screen is activated.

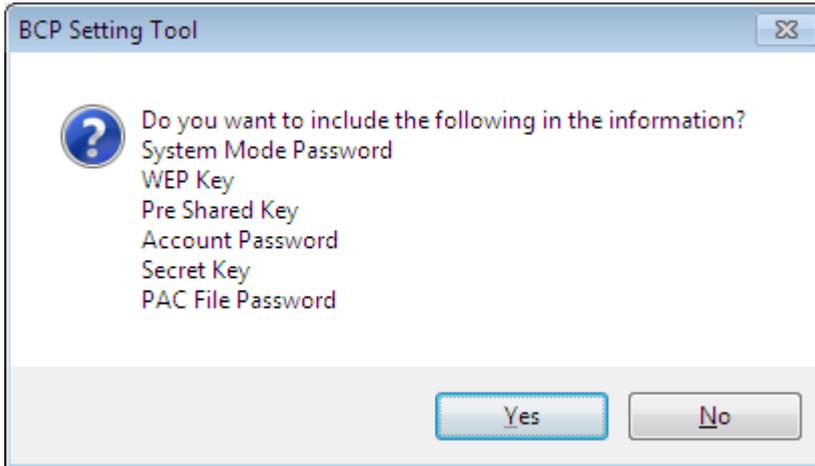
When this menu is clicked, the [Export] screen is displayed. Specify a file where the setup information is saved, click [Save], then the file export is started.

If writing the data into the specified file fails, an error message will be displayed.

It also stores the status of the current setup screen.

In addition to parameters, the checkbox settings for groups are reproduced.

Before storage, the following message is displayed.



When you want to store security information contained in the setup information, click [Yes]. Since security information is important, be careful before storing files.

When you do not want to store security information, click [No].

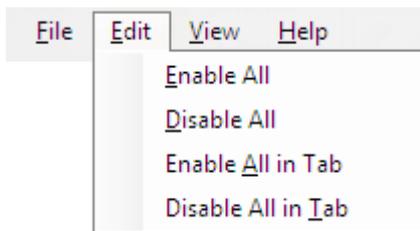
[Exit]

When this menu is clicked, this Product exits without saving the current settings.

However, the settings on the [Printer Setting] screen and [Environment] screen remain effective.

When this Product is started next time, the settings in the all pages except the [Printer Setting] screen and [Environment] screen are initialized.

Edit



[Enable All]

This menu is used to check all checkboxes on all tabs.

This menu is selectable only when the [Parameter Setting] screen is activated.

[Disable All]

This menu is used to uncheck all checkboxes on all tabs.

This menu is selectable only when the [Parameter Setting] screen is activated.

[Enable All in Tab]

This menu is used to check all checkboxes on the tab.

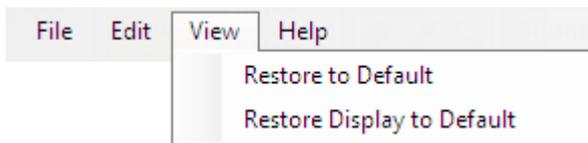
This menu is selectable only when the [Parameter Setting] screen is activated.

[Disable All in Tab]

This menu is used to uncheck all checkboxes on the tab.

This menu is selectable only when the [Parameter Setting] screen is activated.

View



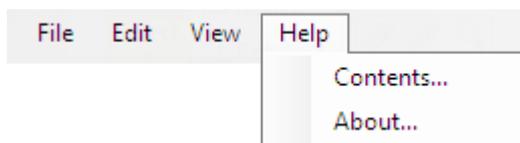
[Restore to Default]

This menu is used to restore the all setting values on the all tab pages to the default.
This menu is selectable only when the [Parameter Setting] screen is activated.

[Restore Display to Default]

This menu is used to restore all setting values on the selected tab page to the default.
While the [Parameter setting] screen is activated, the setting values only on the displayed tab page are restored to the default.

Help



[Contents...]

This menu is used to display the main screen for Help.

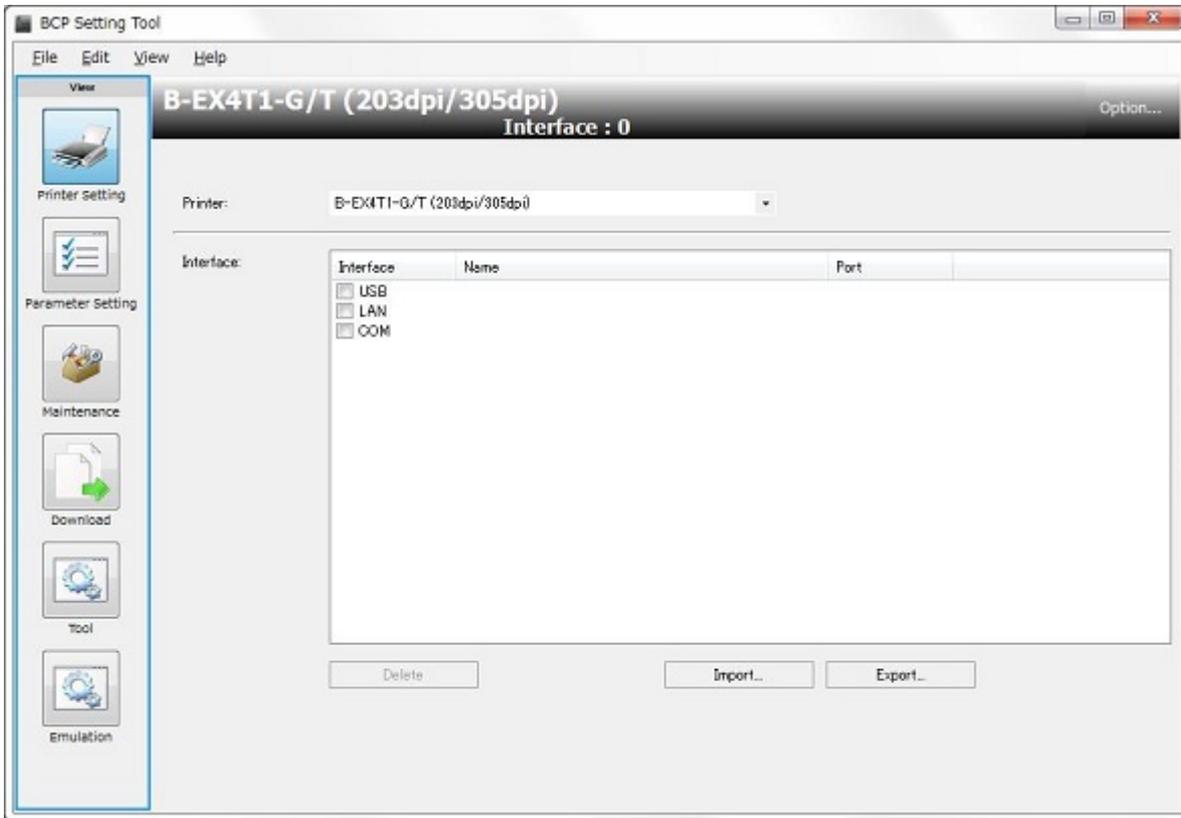
[About...]

This menu is used to display version information.

Printer Setting

The printer setting menu enables selecting a printer model to be connected and configuring the interface used.

When the [Printer Setting] icon on the menu icon area is clicked, the following screen is displayed. The setting is not saved by a member of the Users.



[Printer]

Select a printer model to be connected.

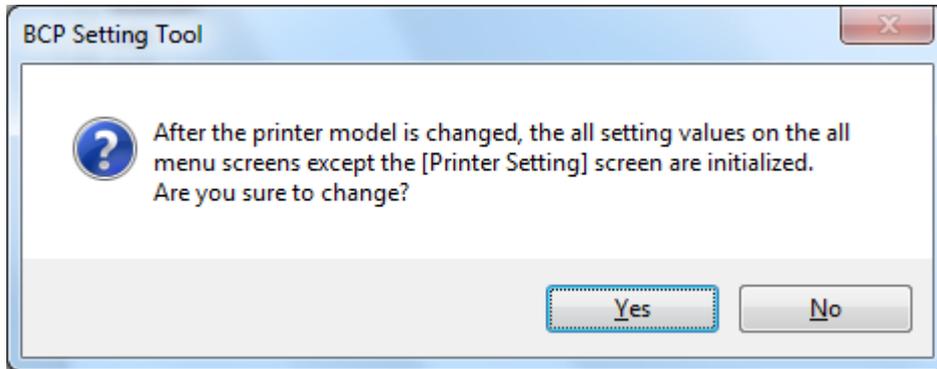
Restart this Product for the changed setting to take effect.

When the specified printer model is different from the actually connected one, this Product does not work properly.

Be sure to select the same printer model with the one to be connected.

When the printer model is changed, all setting values on all menu screens except the [Printer Setting] screen are restored to the initial values.

At this time, the confirmation message is displayed.



When [Yes] is clicked, this Product is restarted after saving the changes.

When [No] is clicked, the screen returns to the [Environment] screen without saving the changes.

[Interface]

Select an interface to be used.

The default is not selected during the installation.

The setting is saved upon changed, and reflected in the header view.

When USB, LAN or COM is selected, the communication parameters are displayed.

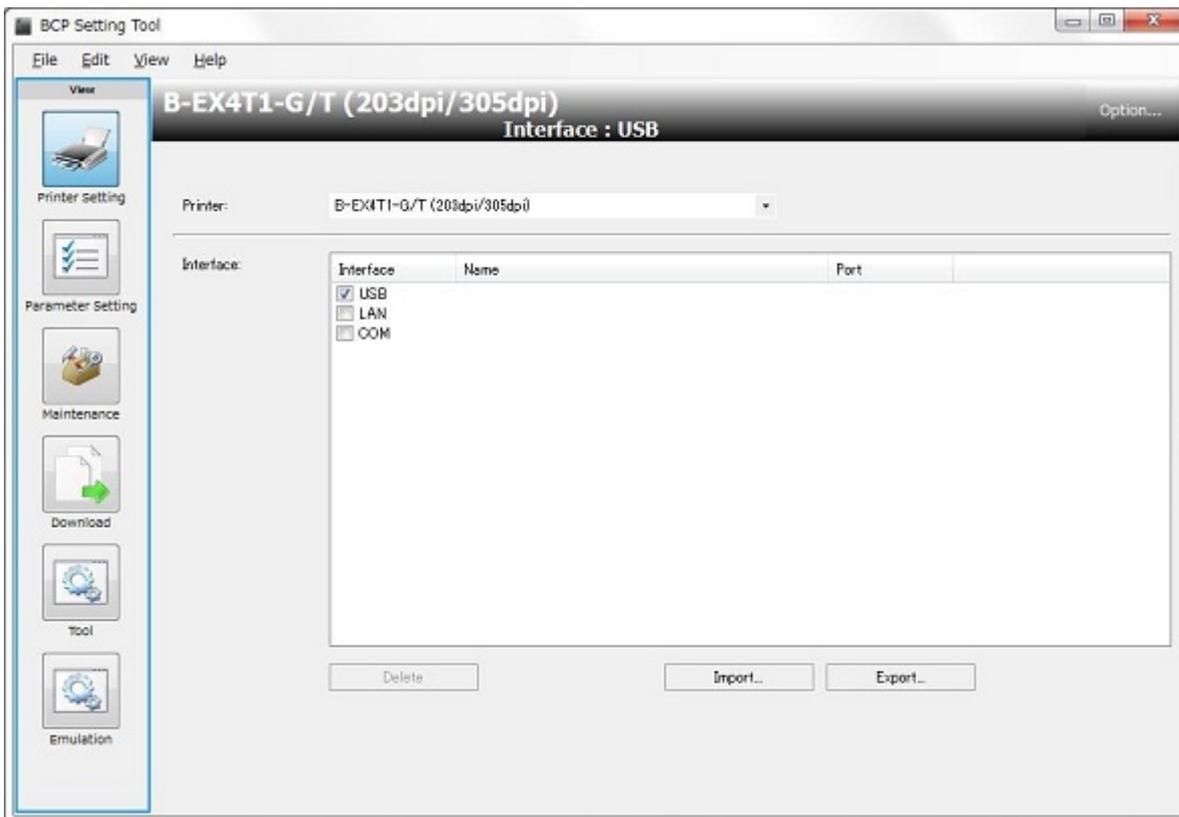
Communication with the printer is performed with the selected interface and communication parameter settings.

Interface enables collective processing for multiple printers connected to the network. Up to 50 printers can be registered.

Options	USB, LAN, COM
---------	---------------

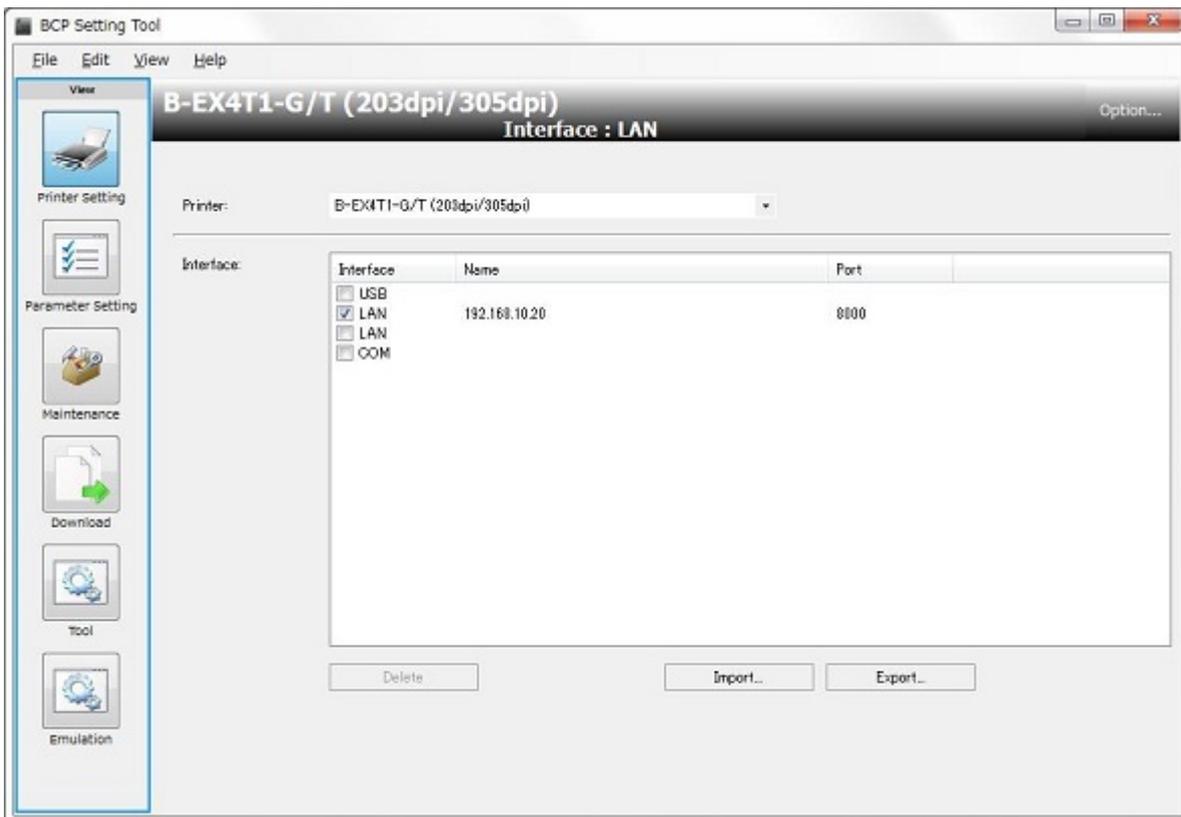
Note: When COM is used, be sure to set the port of the installed driver to the one other than the setting value. If the same interface as the port of the printer driver is set, communication will not be performed appropriately.

USB



On connecting Printer and USB cable, it enables automatically.

LAN



[Name]

Displays the host name or IP address set for the connected printer.

[Port]

Displays the port number set for the connected printer.

When the [LAN] checkbox is selected, the "Add LAN Interface" dialog box is displayed.



After the value is filled in and [OK] is clicked, the dialog box is closed and the setting is reflected in the interface list.

At selecting [Cancel], the process is canceled.

[Host Name]

Enter the host name set for the connected printer.
Up to 255 alphanumeric characters

[IP Address]

Enter the IP address set for the connected printer.
"X.X.X.X" format

[Port Number]

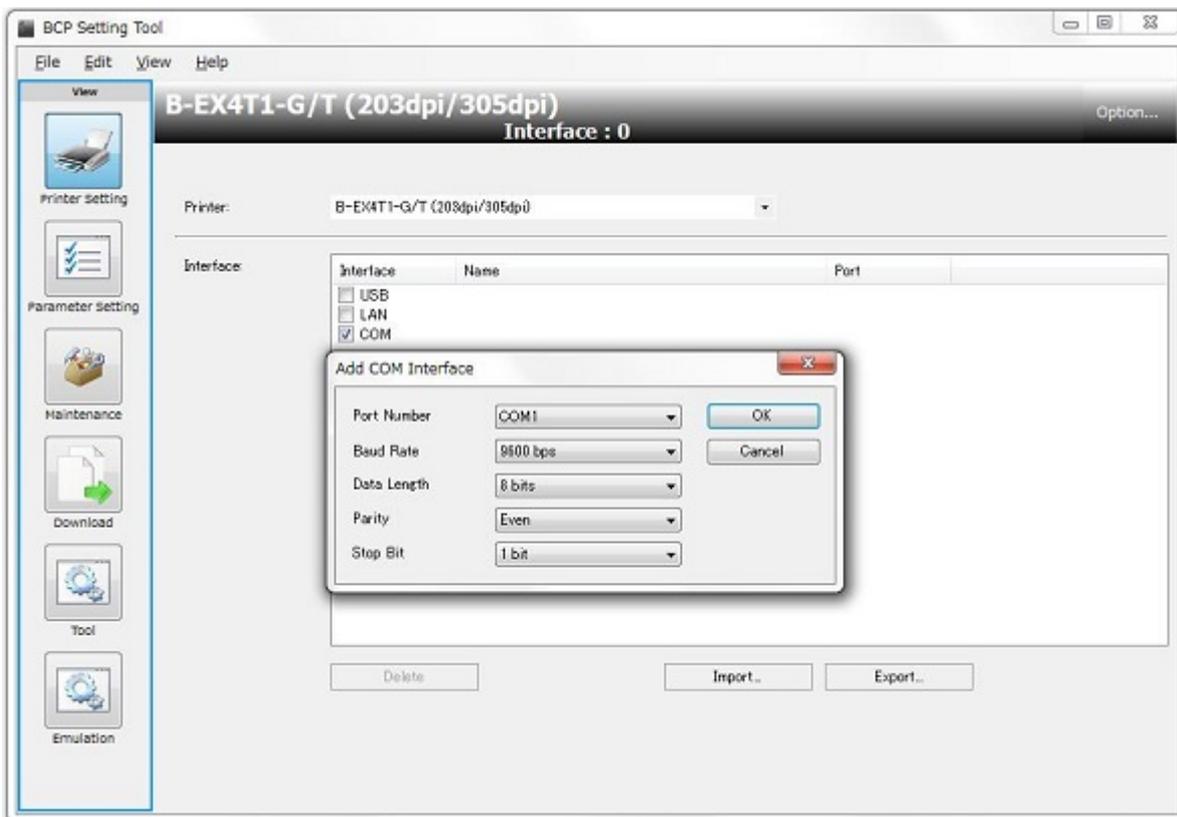
Set the port number set for the connected printer.
The default value differs depending on the models.

Range	0 to 65535
-------	------------

[Notes]

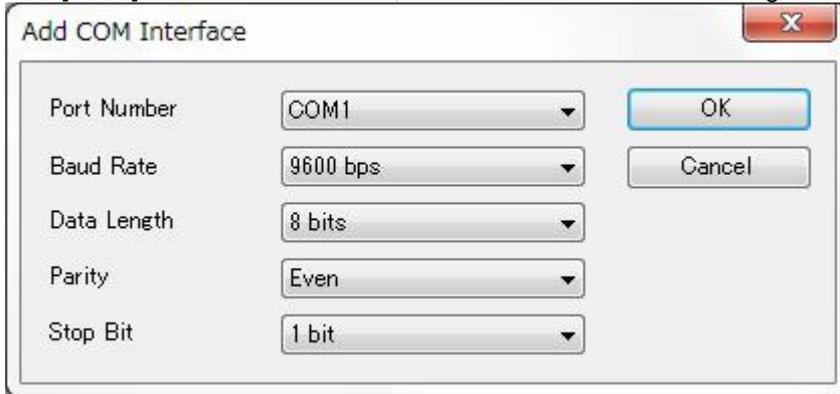
The maximum number of registerable printers in the list is 50.

COM



[Name]
Displays each parameter of the COM ports.

When the [COM] checkbox is selected, the “Add COM Interface” dialog box is displayed.



After the value is filled in and [OK] is clicked, the dialog box is closed and the setting is reflected in the interface list.

At selecting [Cancel], the process is canceled.

[Port Number]

Selects the COM port number used for communication.

Options	COM port on the Operation System
---------	----------------------------------

[Baud Rate]

Selects the baud rate for the RS-232C port set for the connected printer.

Options	2400 bps, 4800bps, 9600 bps, 19200 bps, 38400 bps, 115200 bps
---------	---

[Data Length]

Selects the data length for the RS-232C port set for the connected printer.

Options	7 bits, 8 bits
---------	----------------

[Parity]

Selects the parity for the RS-232C port set for the connected printer.

The setting is saved upon changed, and reflected in the header view.

Options	None, Even, Odd
---------	-----------------

[Stop Bit]

Selects the stop bit for the RS-232C port set for the connected printer.

The setting is saved upon changed, and reflected in the header view.

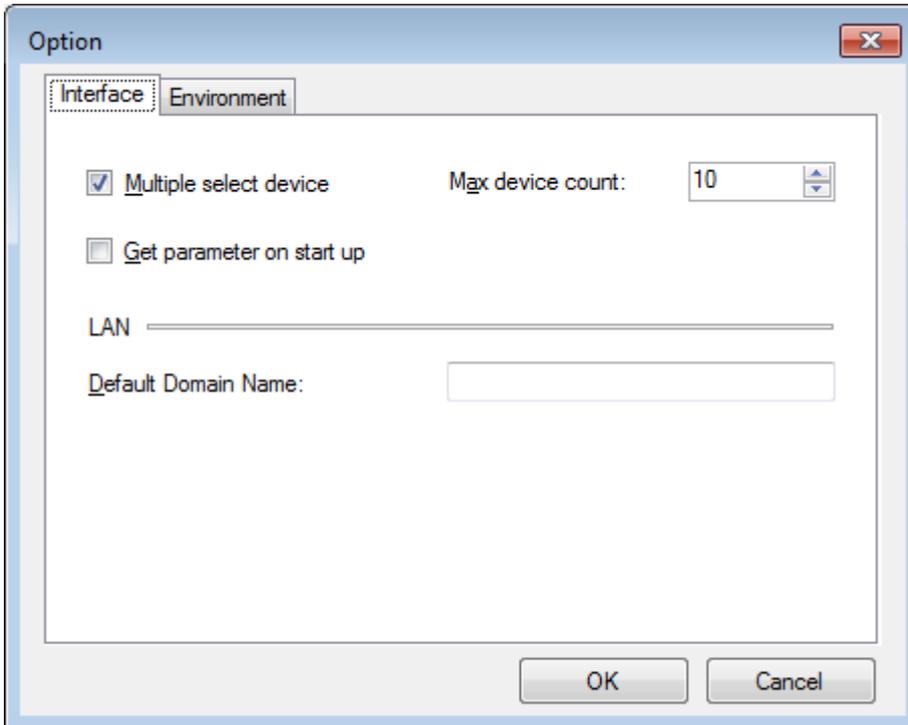
Options	1 bit, 2 bits
---------	---------------

Environment

Set the operating environment for this Product.

When [Options] at the right end on the header view is clicked, the [Environment] screen appears.
The setting is not saved by a member of the Users.

[Interface]



[Multiple select device]

Enabling the check box can use multiple interfaces

[Max device count]

Setting the maximum number of connecting to printers

[Get parameter on start up]

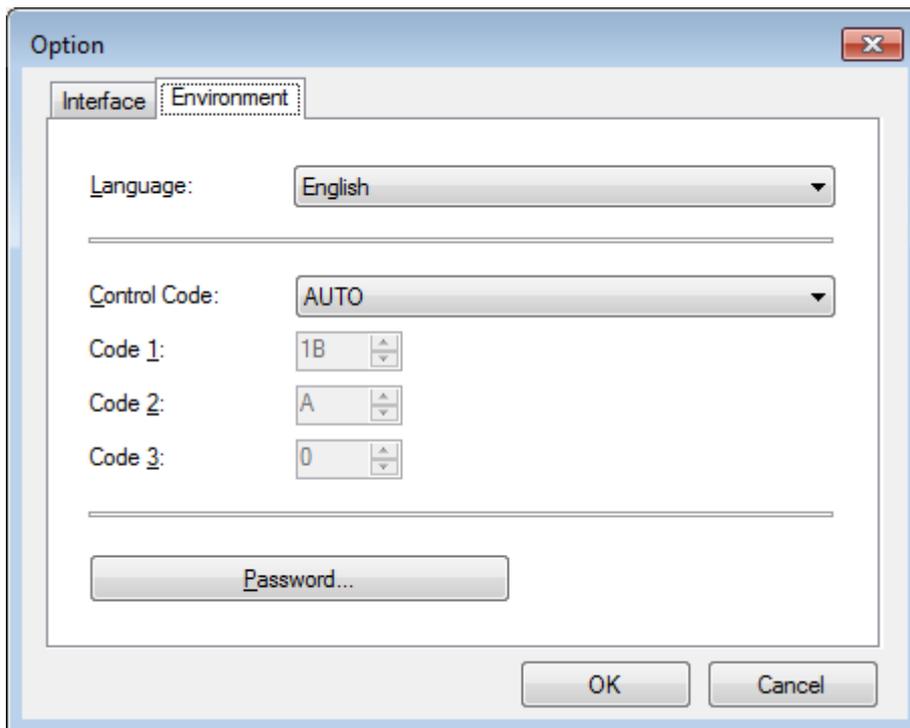
Parameters will be retrieved during application startup time.

Parameters will not be retrieved, if an available USB is not connected.

[Default Domain Name]

Domain name setting for LAN connectable

[Environment]



[Language]

Selects a language used to display this Product.

The language selected during the installation has been set as default.

Restart this Product for the changed language to take effect.

After this Product is restarted, all values on all screens, except the [Printer Setting] and [Environment], are initialized.

Options	Japanese, English
---------	-------------------

[Control Code]

Selects the same control code that is set for the connected printer.

The default value immediately after the installation is "AUTO".

Basically, it is not necessary to change this value as the default for the printer has been selected.

Entering the same value for all of the [Code 1], [Code 2], and [Code 3] results in an error.

If a value improper for the control code is entered, this Product does not work properly.

Options	AUTO, [ESC] [LF] [NUL], { }, Manual
---------	---------------------------------------

[Code 1]

Enter the same value in hex. format that is set for the connected printer.

The default right after the installation is "1B".

[Code 1] is editable only when "Manual" is selected for the [Control Code].

Change the value when the control code is set to "Manual" for the printer.

Range	00 to FF
-------	----------

[Code 2]

Enter the same value in hex. format that is set for the connected printer.

The default right after the installation is "0A".

[Code 2] is editable only when "Manual" is selected for the [Control Code].

Change the value when the control code is set to "Manual" for the printer.

Range	00 to FF
-------	----------

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[Code 3]

Enter the same value in hex. format that is set for the connected printer.

The default right after the installation is "00".

[Code 3] is editable only when "Manual" is selected for the [Control Code].

Change the value when the control code is set to "Manual" for the printer.

Range	00 to FF
-------	----------

[Password...]

Sets a password to log in this Product.

No password is set immediately after the installation.

When you want to protect this Product from unauthorized use, set a password.

When this button is clicked, the [Password Change] screen is displayed.

Once the password is set, the [Login] screen appears at a start-up of this Product and entry of the password is requested.

Up to 16 one-byte alphanumeric characters can be used for the password.

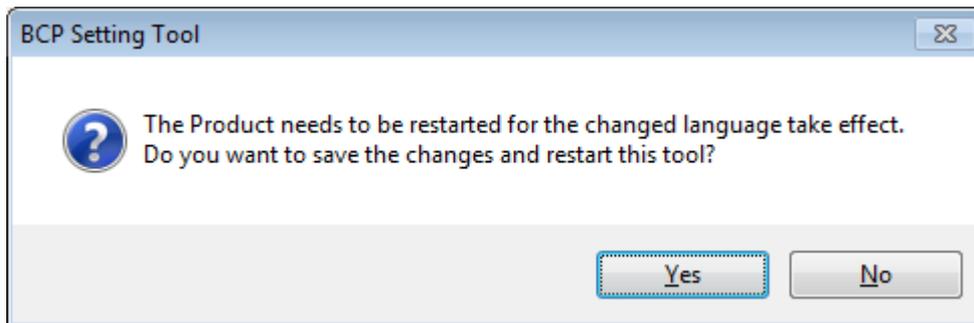
The password is case-sensitive.

The password cannot be set when this Product is started by a user without administrative authority.

[OK]

When this button is clicked, the [Environment] screen is closed saving the changes.

The Restart confirmation message is displayed only when the [Language] is changed.



When [Yes] is clicked, this Product is restarted after saving the changes.

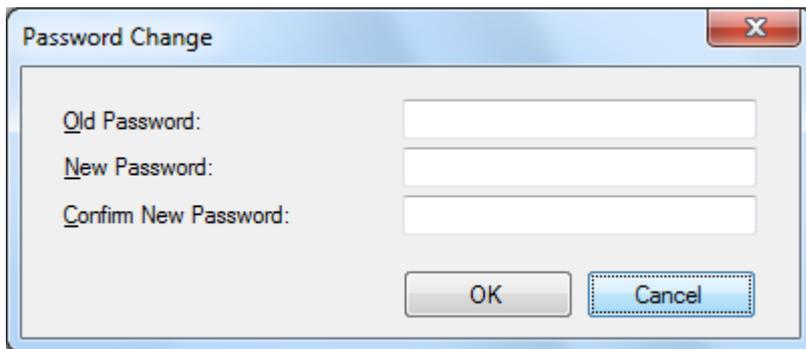
When [No] is clicked, the screen returns to the [Environment] screen without saving the changes.

[Cancel]

When this button is clicked, the [Environment] screen is closed without saving any changes.

However, the password set on the [Password Change] screen remains effective.

Password Change



The image shows a standard Windows-style dialog box titled "Password Change". It features a title bar with a close button (X) in the top right corner. The main area contains three text input fields, each preceded by a label: "Old Password:", "New Password:", and "Confirm New Password:". Below these fields are two buttons: "OK" and "Cancel". The "Cancel" button is highlighted with a blue border.

[Old Password]

When the password has been set, enters the current password.
It is not necessary to enter a password when this is the first time to set the password.
The entered password is displayed with hidden characters.

[New Password]

Enters a new password.
It is not necessary to enter a password when you want to invalidate the current password.
The entered password is displayed with hidden characters.

[Confirm New Password]

Re-enters the new password to confirm it.
It is not necessary to enter a password when you want to invalidate the current password.
The entered password is displayed with hidden characters.

[OK]

When this button is clicked, the [Password Change] screen is closed saving the new password.
Clicking [Cancel] on the [Environment] screen does not affect password saving.
If the incorrect password is entered in [Old Password] or if the password entered in [New Password] and [Confirm New Password] do not match, an error message appears.
Entering the password only in [Old Password] invalidates the password.

[Cancel]

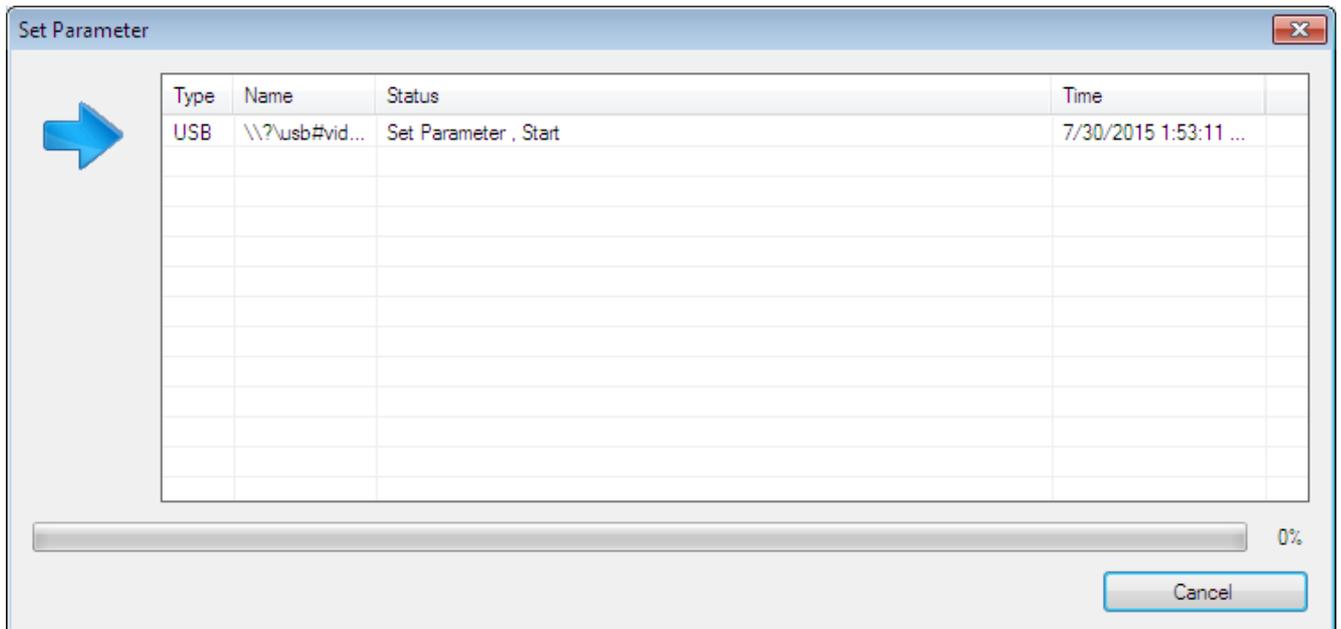
When this button is clicked, the [Password Change] screen is closed without saving any changes.

Processing Screen

When processing involving communication between the printer and this Product is executed, the processing screen is displayed.

The progress bar screen is displayed during the processing, and the completion screen appears when the processing is completed.

Progress Bar Screen



Title

Processing being executed is displayed.

Progress status

The current status is indicated by an icon, text and progress bar, and updated as needed.

While the processing is in progress, the corresponding icon is displayed.

In the case an error occurs, the processing is stopped.

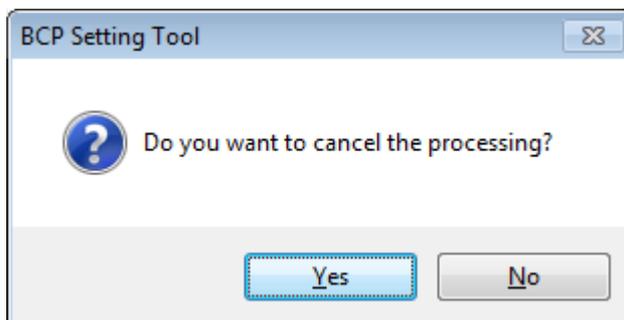
However, processing that has been completed before the occurrence of an error becomes effective.

If the interface has been set, processing is executed to all printers regardless of the status for each printer.

[Cancel...]

The processing is stopped.

When this button is clicked, the following confirmation message is displayed.



When [Yes] is clicked, the processing is canceled. However, the processing that has been completed before the cancellation becomes effective.
When [No] is clicked, the processing is continued.
Even while the confirmation message is displayed, the processing is being executed.

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Progress Status

Textual information about the processing in progress is added to the progress status as needed.

Progress status format:

["Device Name"], "Processing", "Process", "Detailed status" ("Error code")

Processing

Processing in progress is displayed.

Processing	Description
Get Parameter	Obtains the parameter setting values from the connected printer on the [Parameter Setting] screen.
Set Parameter	Downloads the parameter setting values to the connected printer on the [Parameter Setting] screen.
Firmware Download	Downloads the firmware to the connected printer on the [Firmware] tab page in the [Download] screen.
BASIC Download	Downloads the BASIC program to the connected printer on the [BASIC] tab page in the [Download] screen.
Emulation Download	Downloads the Z Mode/D Mode BASIC program to the connected printer on the [Emulation] tab page in the [Download] screen.
Get Printer Info	Obtains the printer information in a file on the [Self Diagnosis] tab page in the [Maintenance] screen.
Save Printer Info	Saves the printer information in a file on the [Self Diagnosis] tab page in the [Maintenance] screen.
Printer Reset	Resets the printer on the [Setting] tab page in the [Maintenance] screen.
Head Check	Performs a print head check on the [Setting] tab page in the [Maintenance] screen.
Data Logging	Takes the log on the [Setting] tab page in the [Maintenance] screen.
Maintenance Counter Clear	Performs a maintenance counter clear on the [Setting] tab page in the [Maintenance] screen.
Parameter Clear	Performs a parameter clear on the [Setting] tab page in the [Maintenance] screen.
Memory Allocate	Performs a memory allocation on the [Setting] tab page in the [Maintenance] screen.
Memory Format	Formats the memory on the [Setting] tab page in the [Maintenance] screen.
Send File	Sends a specified file to the printer on the [Tool] tab page in the [Tool] screen.
Test Print	Performs a test print on the [Test Print] tab page in the [Tool] screen.

Process

Process in progress is displayed.

Process	Description
Start	Processing is started.
Succeed	Processing normally ends.
Fail	Processing abnormally ends.
Cancel	Processing ends due to cancellation.
Preparing for downloading...	Preparing for download.
Updating the printer...	The firmware is being updated on the printer. The parameter setting values are being updated on the printer.
Sending "section name" firmware to the printer...	ROM file is being sent to the printer in the Firmware Download processing.
Memory Allocate	A memory is being allocated in the BASIC Download processing.
Updating the main	The main program is being sent or updated in the BASIC Download

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program...	processing.
Updating the system mode program...	The system mode program is being sent and updated in the BASIC Download processing.
Updating the data file...	The data file is being sent and updated in the BASIC Download processing.

Detailed status

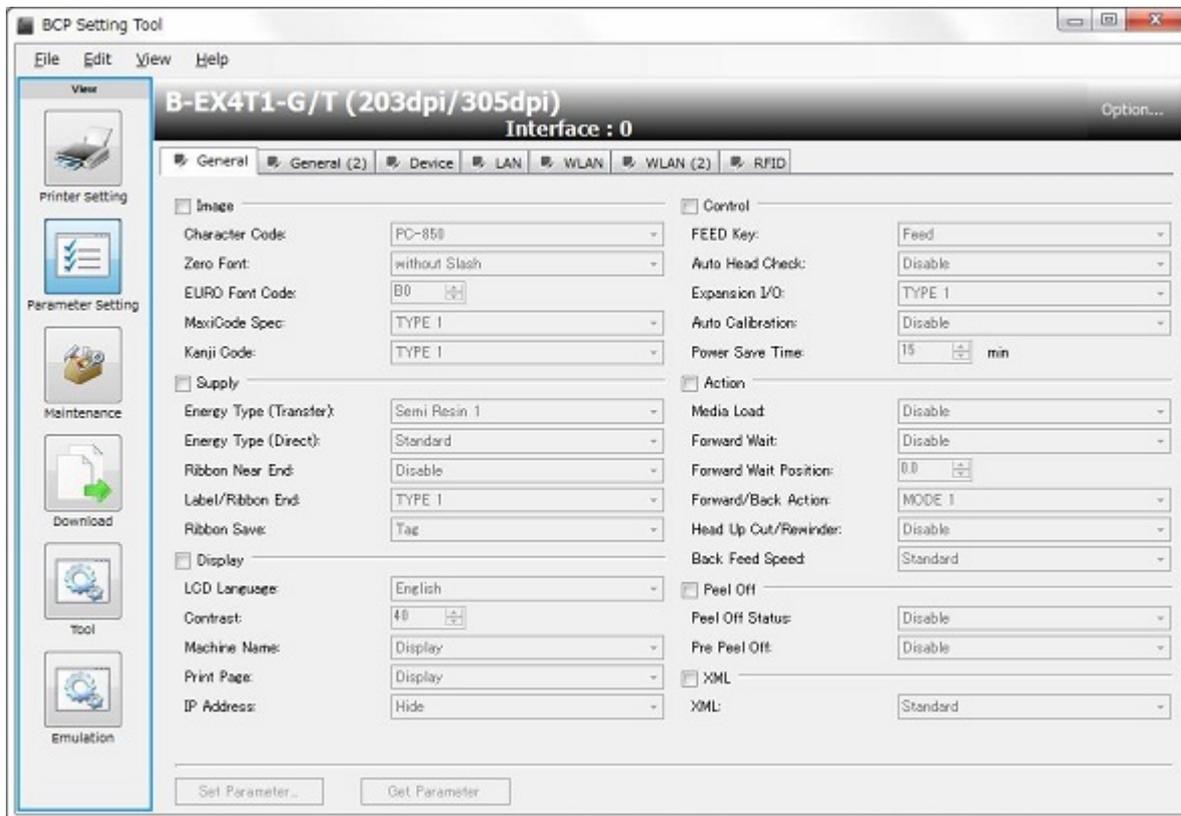
Detailed status at the end of processing is displayed.

Message	Description
No printer connection is detected.	No printer connected via the specified interface was found. Check the communication conditions, then retry the operation. If the same message is displayed again, restart the printer.
Cannot confirm the printer is in online mode.	The processing was not executed as whether or not the printer is in the online mode could not be confirmed. Check the communication conditions, then retry the operation. If the same message is displayed again, restart the printer.
The printer is not in idle state.	The processing could not be executed since the printer has an error. Clear the printer error, then retry the operation.
An error ("status code") occurred on the printer.	An error occurred on the printer while processing is in progress. Clear the printer error, then retry the operation.
The print head has a broken element.	A broken element was detected during the print head check.
No data can be saved in the specified file.	Printer information or print log data obtained from the connected printer could not be written into the specified file. Check if the file is writable.
Obtaining the printer settings failed. ("Tab name"/"Group name")	Obtaining the setup information from the printer failed. "Tab name"/"Group name" indicates the location where the error occurred. Check the communication conditions, then retry the operation. If the same message is displayed again, restart the printer.
Updating the printer settings failed. ("Tab name"/"Group name"/"Control name")	Updating the setup information on the printer failed. "Tab name"/"Group name"/"Control name" indicates the location where the error occurred. Correct the setting value for "control name" if necessary, then retry the operation. If the same message is displayed again, restart the printer. However if the setting function is not embedded Firmware version, "update error" can occur.
Processing error	Firmware downloading failed in upgrading the firmware version. The maintenance counter could not be cleared. The parameter clear failed in initialization. Check the communication conditions, then retry the operation. If the same message is displayed again, restart the printer.
Printer is not ready.	Current execution is not supported in this mode. Set the correct mode by referring to " 3.Start up - Printer ".
Timeout error	A response from the printer resulted in timeout. Check the communication conditions, then retry the operation. If the same message is displayed again, restart the printer.
Communication error	An error occurred with the communication processing via the specified interface. Check the communication conditions, then retry the operation. If the same message is displayed again, restart the printer.

4. Functions

Parameter Setting

The parameter setting menu enables configuring or obtaining the printer parameter settings. When the [Parameter Setting] icon on the menu icon area is clicked, the [Parameter Setting] screen is displayed.



Control

Parameters are classified, grouped and placed depending on their types and purposes to allow for easy check or update of parameter values.

Each control becomes active and editable when the group checkbox is checked.

The parameter setting values are obtained from the printer for all controls.

However, only active controls are reflected in the printer when the printer settings are updated.

Group

Each control is grouped according to the types, such as [Image], [Notice] and [Command].

When the checkbox of a group is checked, the controls in that group become active.

The parameter setting values are obtained from the printer for all controls, regardless of whether the checkbox is checked or not.

However, only active controls are reflected in the printer when the printer settings are updated.

Tab

The [Parameter Setting] screen has [General], [Option] and [Device] tabs.

When any of these tabs is clicked, the selected tab page is displayed to allow setting the related parameters.

The parameter setting values are obtained from the printer at one time for all controls in all tab pages.

However, only active controls are reflected in the printer when the printer settings are updated.

[Set Parameter...]

The parameter setting values displayed on the screen are downloaded to the printer to update the printer settings.

When there is no group to be downloaded, this button is grayed out.

If an improper value is included in the downloaded data, an error message will be displayed.

When the processing starts, the progress status screen is displayed. When the processing is completed, the completion screen is displayed.

This function is executed only when the printer is in the system mode.

After downloading the setting values for all active controls to the printer, obtain the setting values from the printer to check if the update succeeded or not.

[Get Parameter]

Currently set parameter setting values are obtained from the printer and are displayed.

When this button is clicked, the processing starts.

When the processing starts, the progress status screen is displayed. When the processing is completed, the completion screen is displayed.

This function is executed only when the printer is in the system mode.

The obtained values are reflected in each control on the [Parameter Setting] screen.

The currently set values are obtained from the printer for all controls in all tab pages except for a part of the objects (File information of Bonding).

General Tab

[Image] Group

[Character Code]:

Selects a character code table to be applied to the printer font.

Default	PC-850
Options	PC-850, PC-8, PC-852, PC-857, PC-851, PC-855, PC-1250, PC-1251, PC-1252, PC-1253, PC-1254, PC-1257, LATIN9, Arabic, PC-866, UTF-8

[Zero Font]:

Selects whether or not a slash is attached to the printer font character "0".

Note that the no slash is attached for the following fonts, regardless of settings.

<Bitmap fonts> OCR-A, OCR-B, Gothic 725 Black, Kanji, Chinese

<Outline fonts> Price Font 1, Price Font 2, Price Font 3, Dutch 801, Brush 738, Gothic 725, True Type Font

Default	without Slash
Options	without Slash, with Slash

[EURO Font Code]:

Sets printer font characters you want to assign to EURO fonts.

Enter two alphanumeric characters from "0" to "F".

Entries are not case-sensitive.

Two characters indicate one HEX character. (Example: "0" -> "30" or "A" -> "41")

Default	B0
Range	20 to FF

[MaxiCode Spec]:

Selects a type of the barcode font to create a MaxiCode.

Default	TYPE 1
Options	TYPE 1 (Compatible with current version), TYPE 2 (Special specification)

[Kanji Code]:

Selects a type of the Kanji font code.

Default	TYPE 1
Options	TYPE 1 (Windows code), TYPE 2 (Original code)

[Supply] Group

[Energy Type (Transfer)]:

Selects a print head energy control type for thermal transfer printing.

B-EX4T1-G/T (203dpi/305dpi):	
Default	Semi Resin 1
Options	Semi Resin 1, Semi Resin 2, Resin 1, Resin 2, Resin 3, SX Compatible, Reserve 1, Reserve 2, Reserve 3, Reserve 4
B-EX4T1-T JP (305dpi):	
Default	Semi Resin 1
Options	Semi Resin 1, Semi Resin 2, Resin 1, Resin 2, Reserve 1, Reserve 2, Reserve 3, Reserve 4, Reserve 5, Reserve 6,
B-EX4T2-G/T (203dpi/300dpi):	
Default	Wax 1
Options	Wax 1, Wax 2, Semi Resin 1, Semi Resin 2, Resin 1, Wax 3, Semi Resin 3, Resin 2, Multiple Type, Reserve 1
B-EX4D2-G/T (203dpi/300dpi):	
Default	Wax 1
Options	Wax 1, Wax 2, Semi Resin 1, Semi Resin 2, Resin 1, Wax 3, Semi Resin 3, Resin 2, Reserve 1, Reserve 2
B-EX4T2-H (600dpi):	
Default	Resin 1
Options	Resin 1, Resin 2, Resin 3, Reserve 1, Reserve 2, Reserve 3, Reserve 4, Reserve 5, Reserve 6, Reserve 7
B-EX4T3-H (600dpi):	
Default	Resin 1
Options	Resin 1, Resin 2, Resin 3, Resin 4, Resin 5, Reserve 1, Reserve 2, Reserve 3, Reserve 4, Reserve 5

[Energy Type (Direct)]:

Selects a print head energy control type for direct thermal printing.

Default	Standard
Options	Standard, Reserve 1, Reserve 2, Reserve 3, Reserve 4, Reserve 5, Reserve 6, Reserve 7, Reserve 8, Reserve9

[Ribbon Near End]:

Selects the condition for ribbon near end detection.

Default	Disable
Options	Disable, 30 m, 70 m

[Label/Ribbon End]:

Specifies how the printer behaves when a label end or ribbon end is detected.

Default	TYPE 1
Options	TYPE 1 (Immediately stops), TYPE 2 (Stops when the next label is at home position.)

[Ribbon Save]:

Selects whether to enable or disable the ribbon saving function.

B-EX4T1-G/T (203dpi/305dpi):	
Default	JA: Tag Other than JA: Disable
Options	Disable, Tag, Label
B-EX4T1-T JP (305dpi):	
Default	JA: Tag Other than JA: Disable
Options	Disable, Tag, Label, Tag 2, Label 2
Other than B-EX4T1-G/T (203dpi/305dpi) / B-EX4T1-T JP (305dpi):	
Default	Disable
Options	Disable

[Type Of Ribbon]:

Selects the ribbon roll direction.

This parameter is fixed to "Coated Side Out" for the B-EX4T1-G/T (203dpi/305dpi), B-EX4T1-T JP (305dpi) and B-EX4T3-H (600dpi).

Default	Coated Side Out
Options	Other than B-EX4T1-G/T (203dpi/305dpi) / B-EX4T1-T JP (305dpi) / B-EX4T3-H (600dpi): Coated Side Out, Coated Side In

[Display] Group

[LCD Language]:

Selects a language of messages to be displayed on the LCD.

Default	JA: Japanese Other than JA: English
Options	B-EX4T1-T JP (305dpi) / B-EX4T3-H (600dpi): English, German, French, Dutch, Spanish, Japanese, Italian, Portuguese Other than B-EX4T1-T JP (305dpi) / B-EX4T3-H (600dpi): English, German, French, Dutch, Spanish, Japanese, Italian, Portuguese, Simplified Chinese, Korean, Turkey, Polish

[Contrast]:

Sets an even number for the LCD contrast fine adjustment.

When an odd number is set, it will be automatically corrected to an even number.

Default	40
Range	24 to 50

[Machine Name]:

Selects whether or not to display the printer model name on the LCD.

Default	Display
Options	Hide, Display

[Print Page]:

Selects whether or not to display the number of copies on the LCD.

Default	Display
Options	Hide, Display

[IP Address]:

Selects whether or not to display the IP address on the LCD.

Default	Hide
Options	Hide, Display

[Control] Group

[FEED Key]:

Specifies how the printer behaves when the [FEED] key is pressed.

Default	Feed
Options	Feed, Print

[Auto Head Check]:

Selects whether or not a head broken dots check is automatically performed when the power is turned on.

Default	Disable
Options	Disable, Enable

[Expansion I/O]:

Selects the expansion I/O specification.

Default	TYPE 1
Options	TYPE 1 (Standard), TYPE 2 (In-line)

[Auto Calibration]:

Selects whether to enable or disable the auto calibration feature.

Default	Disable
Options	B-EX4T1-G/T (203dpi/305dpi) / B-EX4T1-T JP (305dpi): Disable, Transmissive Sensor, Reflective Sensor, All Sensor, Transmissive Sensor (with Back Feed), Reflective Sensor (with Back Feed), All Sensor (with Back Feed)
	Other than B-EX4T1-G/T (203dpi/305dpi) / B-EX4T1-T JP (305dpi): Disable, Transmissive Sensor, Reflective Sensor, All Sensor

[Power Save Time]:

Sets a period of time from when the printer ceases to be used until it enters the power save mode.
Enter a number.

Default	15 min
Range	1 to 240 min

[Action] Group

[Media Load]:

Selects whether or not to feed media to the home position.

Default	Disable
Options	B-EX4T1-G/T (203dpi/305dpi) / B-EX4T1-T JP (305dpi): Disable, Standard, ECO, ECO (with Back Feed)
	Other than B-EX4T1-G/T (203dpi/305dpi) / B-EX4T1-T JP (305dpi): Disable, Standard, ECO

[Forward Wait]:

Selects whether an automatic forward feed is performed after an issue is enabled or disabled.
If "Enable" is selected, the printer will automatically feed the media forward by 13.7 mm when the printer is idle for one sec. or more after printing.

Default	Disable
Options	Disable, Enable

[Forward Wait Position]:

When the [Forward Wait] is enabled, it is possible to make fine adjustment to the standard feed distance of 13.7 mm, in units of 0.1mm.

Default	0.0 mm
Range	-5.0 to +5.0 mm

[Forward/Back Action]:

Specifies how the printer behaves when the [Forward Wait] is enabled.

Default	MODE 1
Options	B-EX4T1-G/T (203dpi/305dpi) / B-EX4T1-T JP (305dpi): MODE 1 (13.7 mm forward feed), MODE 2 (6 mm back feed & 3 mm forward feed), MODE 3 (31.2 mm forward feed)
	Other than B-EX4T1-G/T (203dpi/305dpi) / B-EX4T1-T JP (305dpi): MODE 1 (13.7 mm forward feed), MODE 2 (6 mm back feed & 3 mm forward feed)

[Head Up Cut/Rewinder]:

Selects whether or not head-up cut is performed in the cut issue mode, or whether or not the rewinder is used.

The head-up function is available only to B-EX4T1-G/T (203dpi/305dpi) and B-EX4T1-T JP (305dpi).

Default	Disable
Options	Disable, Enable

[Back Feed Speed]:

Selects the back feed speed.

Default	Standard
Options	Standard (3 inch/sec), Low (2 inch/sec)

[Peel Off] Group

[Peel Off STATUS]:

Selects whether or not a peel-off waiting status is generated and sent in the strip issue mode.

Default	Disable
Options	Disable, Enable

[Pre Peel Off]:

Selects whether or not a pre-peel feed is performed in the strip issue mode before printing.

Default	Disable
Options	Disable, Enable

[XML] Group

[XML]:

Selects whether or not XML is enabled.

Default	Standard
Options	Disable, Standard, Oracle, SAP, Standard (External memory), Oracle (External memory), SAP (External memory)

General (2) Tab

The screenshot shows the 'General (2)' configuration tab with the following settings:

- Position Adjustment:** Feed: 0.0 mm, Out/Peel Off: 0.0 mm, Back Feed: 0.0 mm, X-coordinate: 0.0 mm.
- Sensor Adjustment:** Reflective Sensor Threshold Select: Command Set, Reflective Sensor Threshold: 1.0 V, Transmissive Sensor Threshold Select: Command Set, Transmissive Sensor Threshold: 1.4 V.
- Tone Adjustment:** Thermal Transfer: 0, Direct Thermal: 0.
- Ribbon Adjustment:** Ribbon Width: TYPE 1, Drive Voltage I(Take-up): 0, Drive Voltage I(Feed): 0, Drive Voltage X(Take-up): 0, Drive Voltage X(Feed): 0.
- Command:** Control Code: AUTO, Code 1: 1B, Code 2: A, Code 3: 0.
- RTC:** Date Time: 2016年 5月26日 14:19:12, Battery Check: Disable, Renewal: Batch.
- BASIC:** Basic Interpreter: Disable, Basic Trace: Disable.
- Product:** Printer Serial No: (empty), SHELL: Disable.
- System Mode Password:** Disable, New Password: 0000, Old Password: 0000.

[Position Adjustment] Group

[Feed]:

Sets a fine adjustment value for the stop position in units of 0.1 mm.

When the value is negative (-), the feed length becomes longer.

The fine adjustment value set by the Position Fine Adjust command [AX] is displayed in the left box.

When the parameter is not retrieved, the value in the left box becomes zero (0).

Default	0.0 mm
Range	-50.0 to +50.0 mm

[Cut/Peel Off]:

Sets a fine adjustment value for a cut (strip) position in units of 0.1 mm.

When the value is negative (-), the feed length to the cut (strip) position becomes longer.

The fine adjustment value set by the Position Fine Adjust command [AX] is displayed in the left box.

When the parameter is not retrieved, the value in the left box becomes zero (0).

Default	0.0 mm
Range	-50.0 to +50.0 mm

[Back Feed]:

Sets a fine adjustment value for the back feed length in units of 0.1 mm.

When the value is negative (-), the back feed length becomes shorter.

The fine adjustment value set by the Position Fine Adjust command [AX] is displayed in the left box.

When the parameter is not retrieved, the value in the left box becomes zero (0).

Default	0.0 mm
Range	-9.9 to +9.9 mm

[X-coordinate]:

Sets a fine adjustment value to offset the print position perpendicular to the paper feed direction in units of 0.1 mm.

When the value is negative (-), the upper right reference coordinate shifts to the left from the zero point.

Default	0.0 mm
Range	-99.5 to +99.5 mm

[Tone Adjustment] Group

[Thermal Transfer]:

Sets a fine adjustment value for print density in the thermal transfer print mode.

The fine adjustment value set by the Print Density Fine Adjust command [AY] is displayed in the left box.

When the parameter is not retrieved, the value in the left box becomes zero (0).

Default	0
Range	-20 to +10

[Direct Thermal]:

Sets a fine adjustment value for print density in the direct thermal print mode.

The fine adjustment value set by the Print Density Fine Adjust command [AY] is displayed in the left box.

When the parameter is not retrieved, the value in the left box becomes zero (0).

Default	0
Range	-20 to +10

[Command] Group

[Control Code]:

Selects a control code used for command analysis.

Default	AUTO
Options	AUTO, [ESC] [LF] [NUL], { }, Manual

[Code 1]:

When "Manual" is selected for the [Control Code], sets a code for the first byte in a HEX format.

Enter two alphanumeric characters from "0" to "F".

Entries are not case-sensitive.

Two characters indicate one HEX character. (Example: "0" -> "30" or "A" -> "41")

Default	1B
Range	20 to FF

[Code 2]:

When "Manual" is selected for the [Control Code], sets a code for the second byte in a HEX format.

Enter two alphanumeric characters from "0" to "F".

Entries are not case-sensitive.

Two characters indicate one HEX character. (Example: "0" -> "30" or "A" -> "41")

Default	0A
Range	20 to FF

[Code 3]:

When "Manual" is selected for the [Control Code], sets a code for the third byte in a HEX format.

Enter two alphanumeric characters from "0" to "F".

Entries are not case-sensitive.

Two characters indicate one HEX character. (Example: "0" -> "30" or "A" -> "41")

Default	00
Range	20 to FF

[BASIC] Group

[Basic Interpreter]:

Selects whether or not the basic interpreter is enabled.

Default	Disable
Options	Disable, Enable

[Basic Trace]:

Selects whether or not the basic trace is enabled.

Default	Disable
Options	Disable, Enable

[Product] Group

[Printer Serial No.]:

The serial number specific to the printer is displayed.

This setting cannot be changed.

[SHELL]:

The status of the SHELL function is displayed.

This setting cannot be changed.

[Sensor] Group

[Reflective Sensor Threshold Select]:

Selects how to set the threshold for the reflective sensor.

Default	Command Set
Options	Other than B-EX4T3-H (600dpi): Manual Set, Command Set
	B-EX4T3-H (600dpi): Command Set, Manual1 Set, Manual2 Set, Manual3 Set, Manual4 Set, Manual5 Set

[Reflective Sensor Threshold]: (Other than B-EX4T3-H (600dpi))

Sets a fine adjustment value for the threshold to the reflective sensor output in units of 0.1 V.

Default	1.0 V
Range	0.1 to 4.0 V

[Reflective Sensor Threshold 1 to 5]: (B-EX4T3-H (600dpi))

Sets a fine adjustment value for the threshold to the reflective sensor output in units of 0.1 V.

Up to 5 threshold fine adjustment values can be registered to Reflective Sensor Threshold 1 to 5 for different media to be used.

Default	1.0 V
Range	0.1 to 4.0 V

[Transmissive Sensor Threshold Select]:

Selects how to set the threshold for the transmissive sensor.

Default	Command Set
Options	Other than B-EX4T3-H (600dpi): Manual Set, Command Set
	B-EX4T3-H (600dpi): Command Set, Manual1 Set, Manual2 Set, Manual3 Set, Manual4 Set, Manual5 Set

[Transmissive Sensor Threshold]: (Other than B-EX4T3-H (600dpi))

Sets a fine adjustment value for the threshold to the transmissive sensor output in units of 0.1 V.

Default	1.4 V
Range	0.1 to 4.0 V

[Transmissive Sensor Threshold 1 to 5]: (B-EX4T3-H (600dpi))

Sets a fine adjustment value for the threshold to the transmissive sensor output in units of 0.1 V.

Up to 5 threshold fine adjustment values can be registered to Transmissive Sensor Threshold 1 to 5 for different media to be used.

Default	1.4 V
Range	0.1 to 4.0 V

[Ribbon Adjustment] Group

[Ribbon Width]: (Other than B-EX4D2-G/T (203dpi/300dpi) / B-EX4T1-T JP (305dpi) / B-EX4T3-H (600dpi))

Selects the width of a ribbon.

Default	TYPE1
Options	TYPE1 (Standard), TYPE2 (Narrow)

[Drive Voltage (Take-up)]: (B-EX4T1-T JP (305dpi) / B-EX4T3-H (600dpi))

Sets fine adjustment of the ribbon take-up motor voltage (torque).

The fine adjustment value set by the Ribbon Motor Drive Voltage Fine Adjust command [RM] is displayed in the left box.

When the parameter is not retrieved, the value in the left box becomes zero (0).

Default	0
Range	-15 to +10

[Drive Voltage 1 (Take-up)]: (Other than B-EX4T1-T JP (305dpi) / B-EX4T3-H (600dpi))

Sets fine adjustment of the ribbon take-up motor voltage (torque).

This setting is used when Ribbon Width is TYPE1.

The fine adjustment value set by the Ribbon Motor Drive Voltage Fine Adjust command [RM] is displayed in the left box.

When the parameter is not retrieved, the value in the left box becomes zero (0).

Default	0
Range	-15 to +10

[Drive Voltage (Feed)]: (B-EX4T1-T JP (305dpi) / B-EX4T3-H (600dpi))

Sets fine adjustment of the ribbon feed motor voltage (torque).

The fine adjustment value set by the Ribbon Motor Drive Voltage Fine Adjust command [RM] is displayed in the left box.

When the parameter is not retrieved, the value in the left box becomes zero (0).

Default	0
Range	-15 to +10

[Drive Voltage 1 (Feed)]: (Other than B-EX4T1-T JP (305dpi) / B-EX4T3-H (600dpi))

Sets fine adjustment of the ribbon feed motor voltage (torque).

This setting is used when Ribbon Width is TYPE1.

The fine adjustment value set by the Ribbon Motor Drive Voltage Fine Adjust command [RM] is displayed in the left box.

When the parameter is not retrieved, the value in the left box becomes zero (0).

Default	0
Range	-15 to +10

[Drive Voltage 2 (Take-up)]: (Other than B-EX4D2-G/T (203dpi/300dpi) / B-EX4T1-T JP (305dpi) / B-EX4T3-H (600dpi))

Sets fine adjustment of the ribbon take-up motor voltage (torque).

This setting is used when Ribbon Width is TYPE2.

The fine adjustment value set by the Ribbon Motor Drive Voltage Fine Adjust command [RM] is displayed in the left box.

When the parameter is not retrieved, the value in the left box becomes zero (0).

Default	0
Range	-15 to +10

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[Drive Voltage 2 (Feed)]: (Other than B-EX4D2-G/T (203dpi/300dpi) / B-EX4T1-T JP (305dpi) / B-EX4T3-H (600dpi))

Sets fine adjustment of the ribbon feed motor voltage (torque).

This setting is used when Ribbon Width is TYPE2.

The fine adjustment value set by the Ribbon Motor Drive Voltage Fine Adjust command [RM] is displayed in the left box.

When the parameter is not retrieved, the value in the left box becomes zero (0).

Default	0
Range	-15 to +10

[RTC] Group

[Date Time]:

The current date and time programmed for the RTC module are displayed.

This setting cannot be changed.

[Battery Check]:

Selects whether to enable or disable the battery check function.

Default	Disable
Options	Disable, Enable

[Renewal]:

Selects the timing when the date and time are updated during printing.

Default	Batch
Options	Batch, Page

[Password] Group

[System Mode Password]:

Selects whether or not the password used for entering the SYSTEM mode is enabled.

To set this field, the old password is required.

When you enter an incorrect old password, you cannot change the password.

[New Password]:

Sets a password to be used for entering the SYSTEM mode.

To set the password, the old password is required.

When you enter an incorrect old password, you cannot change the password.

This field is effective only when the SYSTEM mode password is enabled.

Enter four characters from "0" to "F".

Entries are not case-sensitive.

Since passwords are security information, they are displayed with hidden characters except when they are being entered.

Default	0000
Range	0000 to FFFF

[Old Password]:

Enters the password currently set on the printer.

This password is set to cancel a password for entering the SYSTEM mode.

Enter four characters from "0" to "F".

Entries are not case-sensitive.

Since passwords are security information, they are displayed with hidden characters except when they are being entered.

To enable the new password, enter "0000".

Default	0000
Range	0000 to FFFF

Device Tab

The screenshot shows a configuration window with tabs for General, General (2), Device, LAN, WLAN, WLAN (2), and RFID. The Device tab is active, showing three sections: RS-232C, CENTRO, and USB. Each section has several settings with dropdown menus.

- RS-232C:** Baud Rate (9600 bps), Data Length (8 bits), Parity (Even), Stop Bit (1 bit), Control (XON+READY AUTO).
- CENTRO:** ACK/BUSY (TYPE 1), Input Prime (Enable), Plug & Play (Disable).
- USB:** USB Serial Number (Disable), Auto Status Response (Disable).

[RS-232C] Group

[Baud Rate]:

Sets a communication baud rate for the RS-232C port.

Default	9600 bps
Options	2400 bps, 4800bps, 9600 bps, 19200 bps, 38400 bps, 115200 bps

[Data Length]:

Selects the data length for the RS-232C port.

Default	8 bits
Options	7 bits, 8 bits

[Parity]:

Selects the parity checking to be used by the RS-232C.

Default	JA: Even Other than JA: None
Options	None, Even, Odd

[Stop Bit]:

Selects the stop bit length for the RS-232C port.

Default	1 bit
Options	1 bit, 2 bits

[Control]:

Selects the method of the flow control to be used by the RS-232C port.

Default	XON+READY AUTO
Options	XON+READY AUTO, XON/XOFF AUTO, READY/BUSY RTS, XON+XOFF, READY/BUSY

[Centro.] Group

[ACK/BUSY]:

Selects the Centronics ACK/BUSY signal timing.

Default	TYPE 1
Options	TYPE 1 (BUSY goes LOW at the same time as ACK goes HIGH.), TYPE 2 (BUSY goes LOW at the same time as ACK goes LOW.)

[Input Prime]:

Selects whether or not a reset is performed when the Centronics nInit signal is ON.

Default	Enable
Options	Disable, Enable

[Plug & Play]:

Selects whether or not the plug-and-play function is active on the centronics port.

Plug & Play cannot be disabled for the USB interface.

Default	Disable
Options	Disable, Enable

[USB] Group

[USB Serial Number]:

Selects whether or not USB serial numbers are enabled.

When the numbers are disabled, connection to the USB port is established.

Whenever the USB port is changed, printer driver installation is required.

When the numbers are enabled, connection to the displayed serial number is established.

Printer driver installation is required for each serial number.

Default	Disable
Options	Disable, Enable

A serial number is a number specific to the printer.

This setting cannot be changed.

[Auto Status Response]:

Selects whether to enable or disable the auto status response for the communication via USB.

Default	Disable
Options	Disable, Enable

LAN Tab

The screenshot shows the LAN configuration interface with the following settings:

- TCP/IP:** LAN I/F: Enable (AUTO); IP Address: 192.168.10.20; Subnet Mask: 255.255.255.0; Default Gateway: 0.0.0.0
- Protocol:** LPR: Enable; Socket: Enable; Port Number: 8000; WEB Printer: Disable; SNMP: Enable
- Server:** DHCP: Disable; Input Type: HEX; DHCP Client ID: (empty); WINS: Disable; WINS Server Address: 0.0.0.0
- SNMP Trap:** 10 traps, all set to Disable, with IP addresses 0.0.0.0

[TCP/IP] Group

[LAN I/F]:

Selects whether to enable or disable the communication via wired LAN or wireless LAN.

Default	Enable (AUTO)
Options	Disable, Enable (AUTO), Enable (Wired LAN), Enable (Wireless LAN)

[IP Address]:

Sets an IP address.

Default	192.168.10.20
Range	0.0.0.0 to 255.255.255.255

[Subnet Mask]:

Sets a subnet mask.

Default	255.255.255.0
Range	0.0.0.0 to 255.255.255.255

[Default Gateway]:

Sets an address of the default gateway.

Default	0.0.0.0
Range	0.0.0.0 to 255.255.255.255

[Protocol] Group

[LPR]:

Sets whether to enable or disable the communication via an LRP protocol.

Default	Enable
Options	Disable, Enable

[Socket]:

Sets whether to enable or disable the socket communication.

Default	Enable
Options	Disable, Enable

[Port Number]:

Sets a port number used for the socket communication.

Default	8000
Range	0 to 65535

[WEB Printer]:

Selects whether to enable or disable the Web server function.

Default	Disable
Options	Disable, Enable, Enable (External Memory)

[SNMP]:

Selects whether to enable or disable the SNMP feature.

Default	Enable
Options	Disable, Enable

[SNMP Trap] Group

[1] [2] [3] [4] [5] [6] [7] [8] [9] [10]:

Selects whether to enable or disable the SNMP trap.

Default	Disable
Options	Disable, Error, Job End, Error & Job End

When enabled, set the IP address of the terminals that monitors the SNMP trap.

When this parameter is set to other than "Disable", entry of an IP address becomes enabled.

When "Disable" is selected, the IP address returns to the default.

Default	0.0.0.0
Range	0.0.0.0 to 255.255.255.255

[Server] Group

[DHCP]:

Selects whether to enable or disable DHCP clients.

Default	Disable
Options	Disable, Enable

[DHCP Host Name]:

Sets a host name.

When no name is entered, the printer's MAC address is used.

Use up to 32 alphanumeric characters to enter a name.

[DHCP Client ID]:

Sets a DHCP Client ID.

When "HEX" is selected for [Input Type], set the ID using up to 128 characters ranging from "0" to "F".

Enter two alphanumeric characters from "0" to "F".

Entries are not case-sensitive.

Two characters indicate one HEX character. (Example: "0" -> "30" or "A" -> "41")

Entering an odd number of characters results in an error.

When "ASCII" is selected for [Input Type], set the ID using up to 64 alphanumeric characters.

[Input Type]:

Selects a code used for entering a DHCP client ID.

When the code is changed, the DHCP client ID currently set is cleared.

Default	HEX
Options	HEX, ASCII

[WINS]:

Selects whether to enable or disable the WINS protocol.

When "Enable (STATIC)" is selected, [WINS Server Address] is used.

When "Enable (DHCP)" is selected, [DHCP] is used.

Default	Disable
Options	Disable, Enable (STATIC), Enable (DHCP)

[WINS Server Address]:

Sets the IP address of the WINS server.

Default	0.0.0.0
Range	0.0.0.0 to 255.255.255.255

WLAN Tab

The screenshot shows a configuration window for WLAN with the following sections:

- WLAN Basic:** Communication Standard (802.11b/g)
- WLAN Detail:** ESS ID (TOSHIBATEC), Beacon Transmitting Interval (1000 msec), Roaming Threshold (70), Country Code (empty)
- 802.11b:** Channel (1), Baud Rate (11 Mbps)
- 802.11g:** Channel (1), Baud Rate (54 Mbps)
- Authentication:** (1) Connection Mode (Infrastructure), (2) Encryption (Disable), (3) Network Authentications (Open System), (4) EAP Method (Disable)
- Priority AP:** Property (ANY SSID OFF), MAC Address 1-5 (empty)
- WEP:** Default Key (1), Input Type (HEX), WEP Key #1-4 (Disable)

[WLAN Basic] Group

[Communication Standard]:

Selects the wireless LAN standard.

Default	802.11b/g
Options	802.11b, 802.11g, 802.11b/g

[WLAN Detail] Group

[ESS ID]:

Sets an ESS ID, using up to 32 alphanumeric characters.

Default	TOSHIBATEC
---------	------------

[Beacon Transmitting Interval]:

Selects an interval between transmissions to the beacon.

Default	1000 msec
Range	1 to 65535 msec

[Roaming Threshold]:

Selects a threshold of roaming sensitivity.

Default	70
Range	0 to 99

[Country Code]:

The country code is displayed.
This setting cannot be changed.

[802.11b] Group

[Channel]:

Sets a channel for IEEE 802.11b.

The printer corrects channels that cannot be used due to country code settings.

Default	1
Range	1 to 14

[Baud Rate]:

Selects the maximum transmission rate for IEEE 802.11b.

The transmission rate is adjusted to a value enabling communication by the communicating device.

Default	11 Mbps
Options	11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps

[Priority AP] Group

[Property]:

Selects ANY SSID/priority AP.

Default	11 Mbps
Options	ANY SSID OFF, ANY SSID ON / Priority AP OFF, ANY SSID ON / Priority AP ON / Other AP OFF, ANY SSID ON / Priority AP ON / Other AP ON

[MAC Address 1] [MAC Address 2] [MAC Address 3] [MAC Address 4] [MAC Address 5]:

Set MAC addresses for access points that you want to connect preferentially.

The numbers indicate order of priority.

Connection to the MAC addresses is made in the order of descending priorities.

Use 12 characters from "0" to "F" to enter addresses.

Entries are not case-sensitive.

When no address is entered, you can disable the current settings.

[Authentication] Group

[(1) Connection Mode]:

Selects the connection mode.

Default	Infrastructure
Options	Adhoc, Infrastructure

[(2) Encryption]:

Selects the encryption scheme.

Options are displayed depending on the [(1) Connection Mode] settings.

Default	Disable
Options	Disable, WEP40, WEP104, TKIP, AES

[(3) Network Authentication]:

Selects the network authentication system.

Options are displayed depending on the [(1) Connection Mode] and [(2) Encryption] settings.

Default	Open System
Options	Open System, Shared Key, WPA-EAP, WPA-PSK, WPA2-EAP, WPA2-PSK

[(4) EAP Method]:

Selects the EAP method.

Options are displayed depending on the [(1) Connection Mode], [(2) Encryption] and [(3) Network Authentication] settings.

Default	Disable
Options	Disable, EAP-MD5, EAP-TLS, EAP-TTLS, LEAP, LEAP (NetworkEAP), PEAP, PEAP (w/o Cert.), EAP-FAST

< Authentication System Settings >

(1) Connection Mode	(2) Encryption	(3) Network Authentication	(4) EAP Method			
Adhoc	Disable	Open System	Disable			
	WEP40	Open System	Disable			
	WEP104	Open System	Disable			
Infrastructure	Disable	Open System	Disable			
		Open System	Disable			
	WEP40	Open System	EAP-MD5	Disable		
			EAP-TLS	Disable		
			EAP-TTLS	Disable		
			LEAP	Disable		
			LEAP (NetworkEAP)	Disable		
			PEAP	Disable		
			PEAP (w/o Cert.)	Disable		
			EAP-FAST	Disable		
			Shared Key	Shared Key	Disable	Disable
					EAP-MD5	Disable
			WEP104	Open System	Disable	Disable
	EAP-MD5	Disable				
	EAP-TLS	Disable				
	EAP-TTLS	Disable				
	LEAP	Disable				
	LEAP (NetworkEAP)	Disable				
	PEAP	Disable				
	PEAP (w/o Cert.)	Disable				
	EAP-FAST	Disable				
	Shared Key	Shared Key			Disable	Disable
					EAP-MD5	Disable
	TKIP	WPA-EAP	EAP-TLS	Disable		
			EAP-TTLS	Disable		
			LEAP	Disable		
			LEAP (NetworkEAP)	Disable		
PEAP			Disable			
PEAP (w/o Cert.)			Disable			
EAP-FAST			Disable			
WPA-PSK			WPA-PSK	Disable	Disable	
				WPA2-EAP	Disable	
AES			WPA2-EAP	EAP-TLS	Disable	
	EAP-TTLS	Disable				
	LEAP	Disable				
	LEAP (NetworkEAP)	Disable				
	PEAP	Disable				
	PEAP (w/o Cert.)	Disable				
	EAP-FAST	Disable				
WPA2-PSK	WPA2-PSK	Disable	Disable			

[WEP] Group

[Default Key]:

Sets a WEP key used by default.

Default	1
Range	1 to 4

[Input Type]:

Selects the code for entering a WEP key.

When the code is changed, the WEP key is cleared.

Default	HEX
Options	HEX, ASCII

[WEP Key #1] [WEP Key #2] [WEP Key #3] [WEP Key #4]:

Selects the WEP key used for encrypting the authentication system.

Select the WEP key size and enter the WEP key.

When the WEP key size is changed, the WEP key is cleared.

<40 bits>

When the HEX mode is used for entries, use 10 characters from "0" to "F".

Entries are not case-sensitive.

When the ASCII mode is used for entries, use 5 alphanumeric characters.

<104 bits>

When the HEX mode is used for entries, use 26 characters from "0" to "F".

Entries are not case-sensitive.

When the ASCII mode is used for entries, use 13 alphanumeric characters.

Since WEP keys are security information, they are displayed with hidden characters except when they are being entered.

Default	Disable
Options	Disable, 40 bits (64 bits), 104 bits (128 bits)

WLAN (2) Tab

[WPA-PSK] Group

[Pre Shared Key]:

Sets a key to be used for WPA encryption in network authentication, using 8 to 64 alphanumeric characters.

Since the key is security information, it is displayed with hidden characters except when it is being entered.

Default	00000000
---------	----------

[Account] Group

[User Name]:

Sets a username to authenticate the supplicant.

Use up to 32 alphanumeric characters.

[Password]:

Sets a password to authenticate the supplicant.

Use up to 32 alphanumeric characters.

Since the password is security information, it is displayed with hidden characters except when it is being entered.

[802.1X] Group

[Reauthentication Interval]:

Sets an interval between reauthentications.

Default	2 min
Range	2 to 4320 min

[Supplicant] Group

[Server Certificate]:

Sets an absolute path to the server certificate file to be transmitted.

The  button is used to select the path on the file selection screen.

When no path is entered, data transmission is not performed.

When entering a path to a blank file without data, you can disable the current settings.

Setting a non-existent file results in an error.

[Client Certificate]:

Sets an absolute path to the client certificate file to be transmitted.

The  button is used to select a path on the file selection screen.

When no path is entered, data transmission is not performed.

When entering a path to a blank file without data, you can disable the current settings.

Setting a non-existent file results in an error.

[Key File]:

Sets an absolute path to the key file for client certificate to be transmitted.

The  button is used to select a path on the file selection screen.

When no path is entered, data transmission is not performed.

When entering a path to a blank file without data, you can disable the current settings.

Setting a non-existent file results in an error.

[Secret Key]:

Sets a secret key passphrase, using up to 64 alphanumeric characters.

Since the passphrase is security information, it is displayed with hidden characters except when it is being entered.

[Random Seed]:

Sets an absolute path to a SEED file for creating random values to be transmitted.

The  button is used to select a path on the file selection screen.

When no path is entered, data transmission is not performed.

When entering a path to a blank file without data, you can disable the current settings.

Setting a non-existent file results in an error.

[EAP-FAST] Group

[Provisioning Method]:

Selects a Provisioning method.

Default	Auto Provisioning
Options	Auto Provisioning, Manual Provisioning

[Internal Authentication]:

Selects an internal authentication method.

Default	MSCHAPV2
Options	MSCHAPV2, GTC

[PAC File]:

Selects whether to send or delete the PAC file.

Default	No change
Options	No change, Send the PAC file for Manual Provisioning, Delete the PAC file for Manual Provisioning, Delete the PAC file for Auto Provisioning, Delete the PAC files for Manual Provisioning and Auto Provisioning

[PAC File Path]:

Specifies the PAC file for Manual Provisioning with absolute path.

This is available only when "Send the PAC file for Manual Provisioning" is selected.

The  button is used to select a path on the file selection screen.

If the path is not selected, data transmission will not be performed.

If the specified file is not found, an error results.

[PAC File Password]:

Sets the password for the PAC file used for the Manual Provisioning.

Up to 32 digits of 1-byte alphanumeric characters can be set.

RFID Tab

The screenshot shows the 'RFID' configuration tab with the following settings:

- モジュール (Module):**
 - モジュールタイプ: 無し
 - タグタイプ: NONE
 - 使用国: (empty)
- リトライ (Retry):**
 - 再発行時の位置調整: 0 mm
 - 再発行リトライ枚数: 3 枚
 - 読取りリトライ回数: 5 回
 - 読取りリトライ時間: 4.0 秒
 - 書き込みリトライ回数: 5 回
 - 書き込みリトライ時間: 2.0 秒
- UHF設定 (UHF Settings):**
 - 出力レベル: 18
 - Q値: 0
 - タグ性能判定: 0
 - 書き込み性能しきい値: 0
 - 書き込み性能下限: 0
 - チャンネル: AUTO
 - マルチワード書き込み: 無効
 - 測定モード: 無効
 - 測定AGC値: 0
 - 測定位置: 0.0 mm
 - アンテナ位置: FRONT

[Module] Group

[Module Type]:

Sets the RFID module type installed in the printer.

Default	None
Options	B-EX4T1-G/T (203dpi/305dpi) / B-EX4T1-T JP (305dpi): None, H1 (HF Band), H2 (HF Band), U2/U4 (UHF Band)
	Other than B-EX4T1-G/T (203dpi/305dpi) / B-EX4T1-T JP (305dpi): None, H1 (HF Band), H2 (HF Band), U4 (UHF Band)

[Tag Type]:

Selects the RFID tag type.

The displayed options differ depending on the RFID module type.

Default	NONE
Options	None: NONE, I-Code, Tag-It, C220, IOS15693, C210, C240, C320, EPC C1 Gen2
	H1: NONE, I-Code, Tag-It, C220, IOS15693, C210, C240, C320
	H2: NONE, IOS15693
	U2/U4: NONE, EPC C1 Gen2
	U4: NONE, EPC C1 Gen2

[Country]:

The country where the RFID module can be used is displayed.

This setting cannot be changed.

Displayed country may be incorrect.

This symptom will be corrected by a future firmware upgrading.

[UHF] Group

[Power Level]:

Sets the power output level for the UHF band.

Default	18
Range	0 to 255

[Q Value]:

Sets the sensitivity for detecting RFID tags.

Default	0
Range	0 to 15

[AGC Threshold]:

Sets the threshold value used to determine an RFID tag is defective or not.

Default	0
Range	0 to 15

[Write AGC Threshold]:

Sets the threshold value used to determine whether or not to write data to RFID tags.

Default	0
Range	0 to 15

[Write Retry Min. AGC]:

Sets the lower limit value used to determine whether or not to retry data write.

Default	0
Range	0 to 15

[RF Channel]:

Sets a channel used for data write.

Default	AUTO
Options	AUTO, 2 CH, 3 CH, 4 CH, 5 CH, 6 CH, 7 CH, 8 CH

[Multi-word Write]:

Selects whether to enable or disable the multi-word write function for Gen2-compatible Hibiki tag. When this function is used, the data write efficiency is increased.

Default	Disable
Options	Disable, Enable

[Calibration Mode]:

Selects whether or not an RFID calibration is performed. This parameter is exclusive for the B-EX4T1-G/T (203dpi/305dpi).

Default	Disable
Options	Disable, Enable

[Calibration AGC]:

Sets an AGC value for the optimum RFID tag write/read position. This parameter is exclusive for the B-EX4T1-G/T (203dpi/305dpi).

Default	0
Options	0 to 15

[Calibration Position]:

Sets a distance from the home position to the optimum RFID tag write/read position. This parameter is exclusive for the B-EX4T1-G/T (203dpi/305dpi).

Default	0
Options	-999.9 to 999.9 mm

[Antenna Position]:

Selects the actual RF antenna position.

This setting is required for properly performing an RFID calibration.

This parameter is exclusive for the B-EX4T1-G/T (203dpi/305dpi).

Default	FRONT
Options	FRONT, CENTER, REAR

[Retry] Group

[Retry Position Adjustment]:

Sets the amount the printer feeds the RFID label forward or backward to retry data write.

Default	0 mm
Range	-99 to 99 mm

[Issue Retry Labels]:

Sets the number of RFID labels to be issued for retry.

Default	3 labels
Range	0 to 255 labels

[Read Retry Count]:

Sets the max. number of times reading one RFID tag is retried.

Default	5 times
Range	0 to 255 times

[Read Retry Timeout]:

Sets the timeout value for retry to read one RFID tag.

Default	4.0 sec
Range	0.0 to 9.9 sec

[Write Retry Count]:

Sets the number of times writing data to one RFID tag is retried.

Default	5 times
Range	0 to 255 times

[Write Retry Timeout]:

Sets the timeout value for retry to write data to one RFID tag.

Default	2.0 sec
Range	0.0 to 9.9 sec

[Head Up Action] Group

[Head Up Action]:

Selects whether or not a head up action is performed during a reverse feed of an RFID tag.

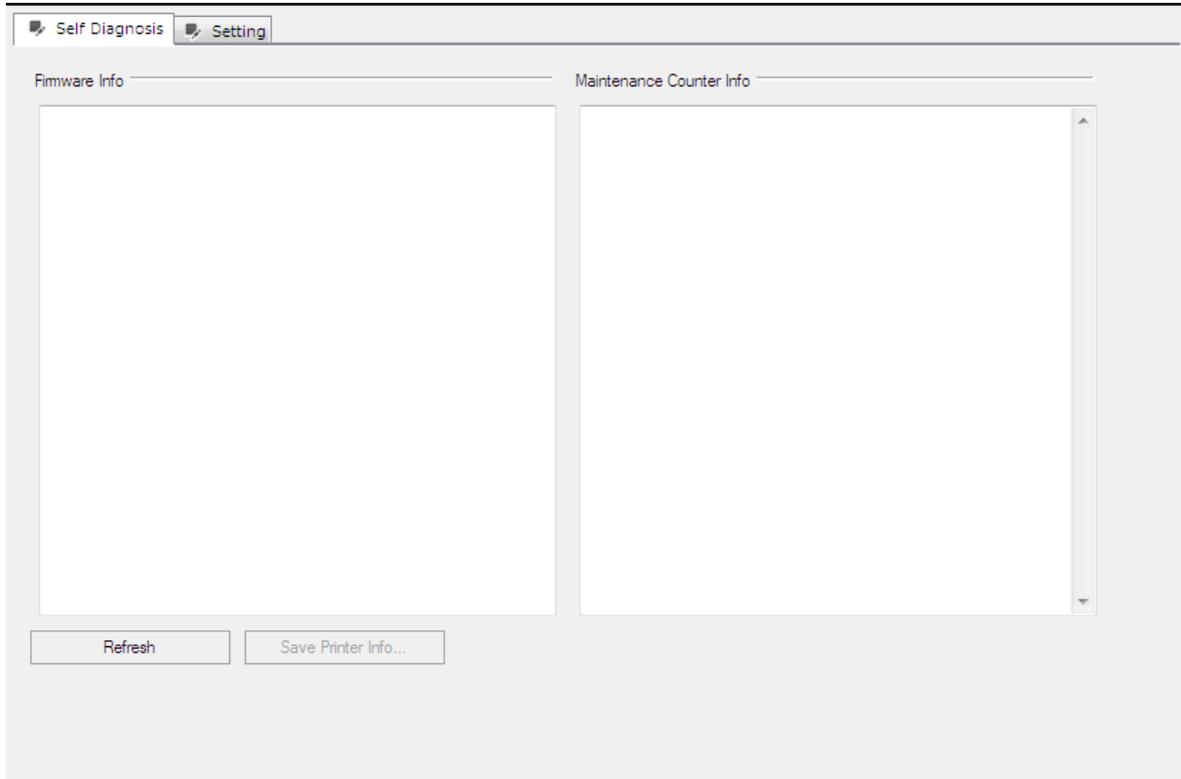
This parameter is exclusive for the B-EX4T1-T JP (305dpi).

Default	MODE 1
Range	MODE 1, MODE 2

Maintenance

The Maintenance menu enables the self-diagnosis and memory management.
When the [Maintenance] icon on the menu icon area is clicked, the [Maintenance] screen is displayed.

Self Diagnosis Tab



[Firmware Info]

Printer firmware information is displayed.
Refreshing the display causes the latest data to be shown.

[Maintenance Counter Info]

The maintenance counter values are displayed.
Refreshing the display or performing a maintenance counter clear causes the latest data to be shown.

[Refresh]

Current printer information is obtained, and the displayed maintenance counter, firmware information and maintenance counter Information are updated.
When this button is clicked, the processing starts.
When the processing starts, the progress status screen is displayed. When the processing is completed, the completion screen is displayed.

[Save Printer Info...]

Retrieved dialog information and contents of the maintenance counter will be saved as one file.
On clicking, it will display the File selection screen. Enter a file name and click this to save the file.
On successful retrieval of information from the printer, the button gets enabled.

Setting Tab

The screenshot shows the 'Setting' tab of the BCP Setting Tool. It is divided into several sections:

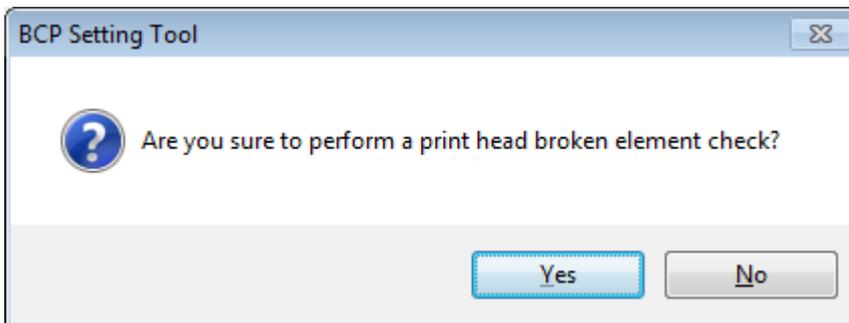
- Memory Allocate:** Includes dropdowns for 'True Type Font Storage Area' (0 KB (0 Block)), 'Bitmap External Character Storage Area' (1792 KB (14 Block)), 'BASIC File Storage Area', and 'PC Save Storage Area'. A checked checkbox 'Retain BASIC Area' is present. An 'Allocate...' button is at the bottom.
- Memory Format:** Includes dropdowns for 'Location' (Onboard Flash Memory) and 'Area' (PC Save & Bitmap External Character). A 'Format...' button is at the bottom.
- Maintenance Counter Clear:** Includes a dropdown for 'All Counter' and a 'Clear...' button.
- Parameter Clear:** Includes a dropdown for 'Destination' (QM) and an 'Initialize...' button.

At the bottom of the window, there are three buttons: 'Head Check...', 'Printer Reset...', and 'Data Logging...'.

[Head Check...]

A print head broken element check is performed.

When this button is clicked, the following confirmation message is displayed.



When [Yes] is clicked, the processing starts.

When [No] is clicked, the processing is canceled.

When the processing starts, the progress status screen is displayed. When the processing is completed, the completion screen is displayed.

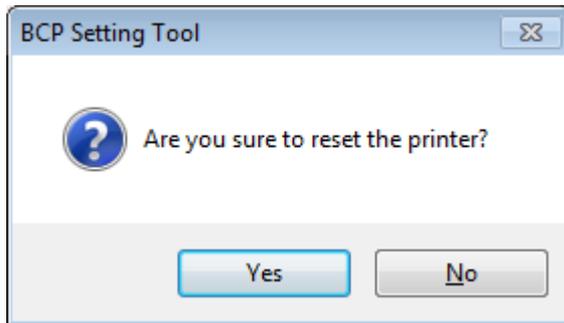
This function is executed only when the printer is in TPCL or TPCL1 mode and idle state.

If a broken element is detected, the printer results in an error after the head check finished. Clicking [Printer Reset] restores the printer to the idle state.

[Printer Reset...]

The printer is reset.

When this button is clicked, the following confirmation message is displayed.



When [Yes] is clicked, the processing starts.

When [No] is clicked, the processing is canceled.

When the processing starts, the progress status screen is displayed. When the processing is completed, the completion screen is displayed.

A reset will be executed regardless of the printer status.

However, the printer reset may not succeed depending on the printer status.

[Data Logging...]

The print log is obtained from the printer, and saved in a file.

When this button is clicked, the file selection screen is displayed. Select a file where the print log is stored, click [Save], then the processing is started.

When the processing starts, the progress status screen is displayed. When the processing is completed, the completion screen is displayed.

The print log is used for examining the commands when an error occurred.

[Maintenance Counter Clear]

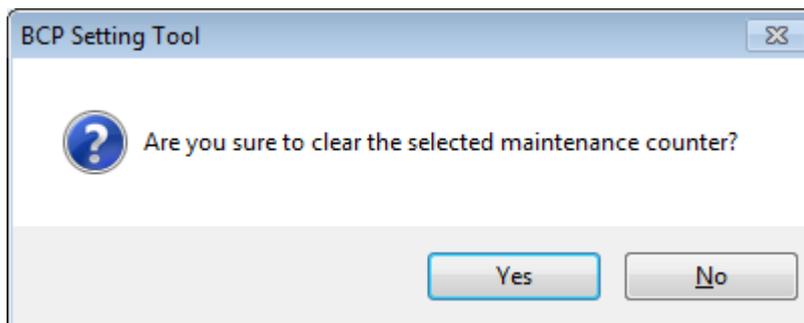
Selects the option to clear maintenance counter.

Default	All Counter
Options	All Counter, Feed Distance (FEED), Print Distance (PRINT), Cut Count (Cut), Others (other than FEED, PRINT, CUT)

[Clear...]

Selected maintenance counter is cleared to zero.

When this button is clicked, the following confirmation message is displayed.



When [Yes] is clicked, the processing starts.

When [No] is clicked, the processing is canceled.

When the processing starts, the progress status screen is displayed. When the processing is completed, the completion screen is displayed.

The maintenance counter data display is updated after the maintenance counter clear is completed.

This function is executed only when the printer is in the online mode and in the idle state.

[Parameter Clear]

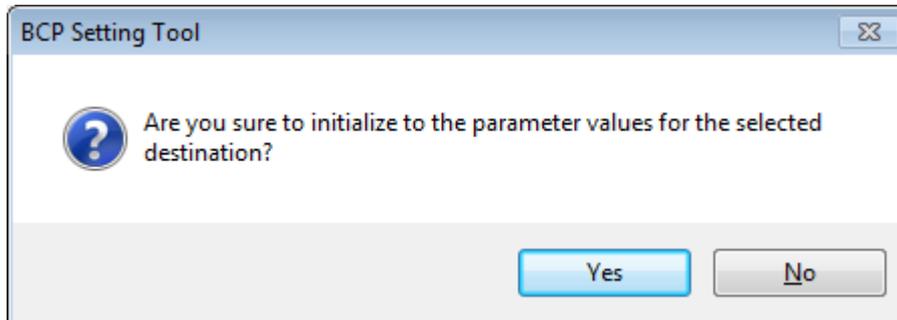
[Destination]

Selects the destination used after the parameter clear is performed.

Default	QM
Options	QM, JA, CN

[Initialize...]

A RAM clear is performed to initialize to the parameter setting values for the selected destination. When this button is clicked, the following confirmation message is displayed.



When [Yes] is clicked, the processing starts.

When [No] is clicked, the processing is canceled.

When the processing starts, the progress status screen is displayed. When the processing is completed, the completion screen is displayed.

The parameter setting data display is updated after the parameter clear is completed.

This function is executed only when the printer is in the online mode and in the idle state.

[Memory Allocate]

The specified size of onboard flash memory is allocated to each storage area.

The sum of the memory size for each storage area shall be equal to the total onboard memory size.

If they do not match, the printer automatically adjusts the size.

Priority of allocation: True Type Font > Bitmap External Character > BASIC File > PC Save

[True Type Font Storage Area]

Sets the area size for storing TrueType fonts.

Default	0 KB
Options	0 to 3072 KB (in units of 128KB)

[Bitmap External Character Storage Area]

Sets the area size for storing bitmap external characters.

Default	1792 KB
Options	0 to 3072 KB (in units of 128 KB)

[Retain BASIC Area]

Selected: The BASIC file storage area size and the data stored in this area will not be changed. (Stored files are not deleted.)

Not selected: The [BASIC file registration area] can be selected and allocated with the selected size.

[BASIC File Storage Area]

Sets the area size for storing the BASIC program.

Default	0 KB
Options	0 to 3072 KB (in units of 128KB)

[PC Save Storage Area]

The storage area size for printer commands is displayed.

After the memory is allocated to the above three, the rest of the memory is automatically allocated to the PC Save storage area.

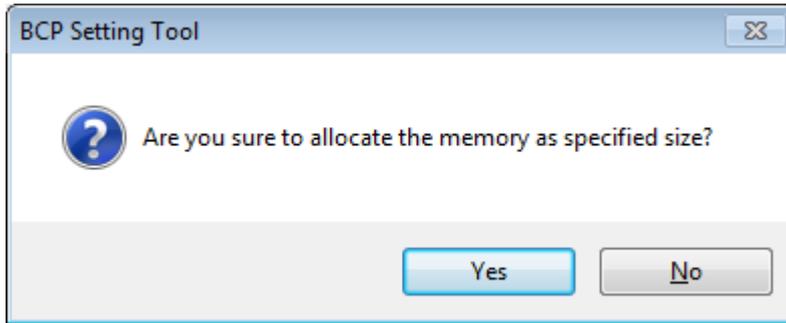
It is required to adjust the storage area size for True type fonts, bitmap external characters and BASIC files so that the PC Save storage area size does not become a negative value.

When [Retain BASIC Area] is selected, no memory size is displayed.

[Allocate...]

The specified size of memory is allocated to each storage area.

When this button is clicked, the following confirmation message is displayed.



When [Yes] is clicked, the processing starts.

When [No] is clicked, the processing is canceled.

When the processing starts, the progress status screen is displayed. When the processing is completed, the completion screen is displayed.

This function is executed only when the printer is in the online mode and in the idle state.

This Product waits for the end of memory allocation after sending a Storage Area Allocate command to the printer.

A memory allocation causes the existing data to be deleted even if the allocated memory size is unchanged.

[Memory Format]

Currently stored data in the specified memory are deleted.

[Location]

Selects the memory to be formatted.

Default	Onboard Flash Memory
Options	Onboard Flash Memory, USB Memory

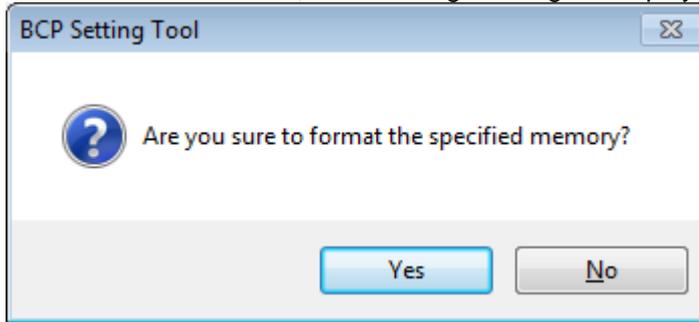
[Area]

Selects the area to be formatted.

Default	PC Save & Bitmap External Character
Options	PC Save & Bitmap External Character, PC Save, Bitmap External Character

[Format...]

The specified range of the specified memory is formatted.
When this button is clicked, the following message is displayed.



When [Yes] is clicked, the processing starts.

When [No] is clicked, the processing is canceled.

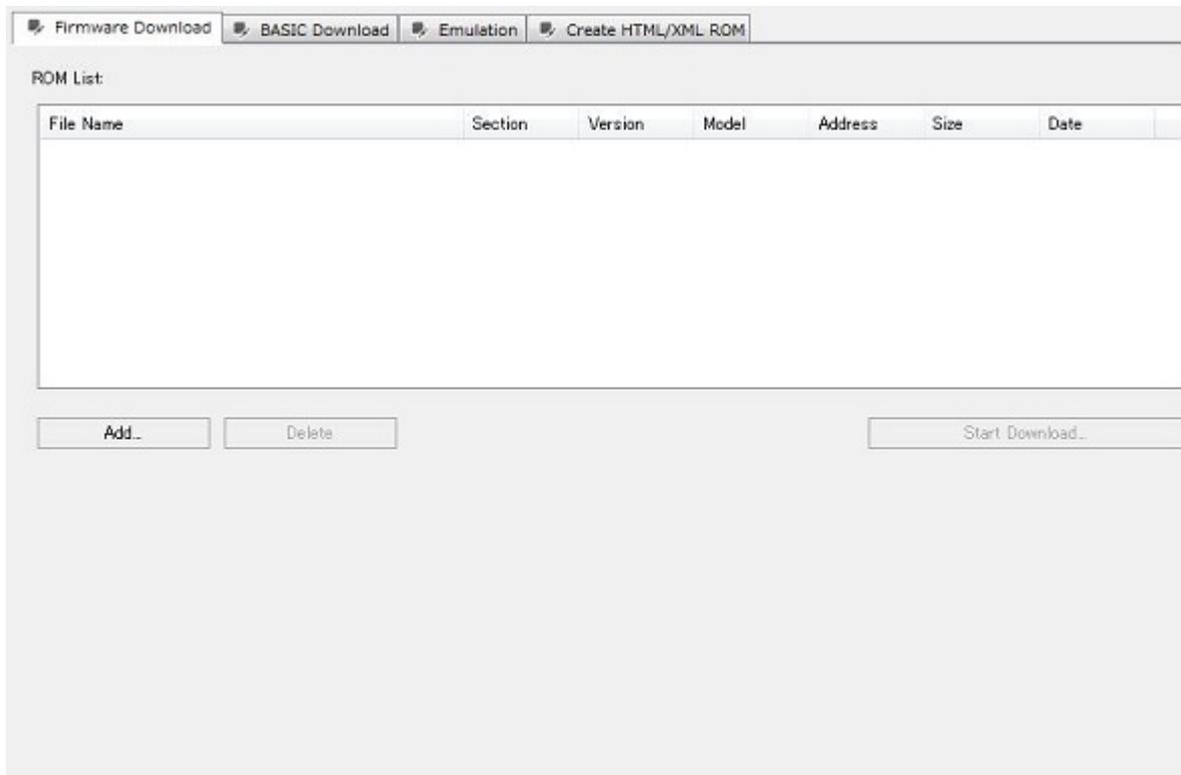
When the processing starts, the progress status screen is displayed. When the processing is completed, the completion screen is displayed.

This function is executed only when the printer is in the TPCL or TPCL1 mode and in the idle state. This Product waits for the end of memory format after sending a Flash Memory Format command to the printer.

Download

The Download menu enables downloading the printer firmware program.
When the [Download] icon on the menu icon area is clicked, the [Download] screen is displayed.

Firmware Download



Be sure to avoid the environment where a power failure may occur in the middle of the downloading.
If a power failure occurs during a firmware updating, the printer may not start up.
Even when the printer can normally start up, download the firmware again.
If cannot, please contact TOSHIBA TEC sales representative.

[ROM List]

ROM files of the firmware to be downloaded to the printer are displayed.

No file has been displayed as default.

ROM files are listed by the program section, rather than in a chronological order. The program sections are sorted in the order of BOOT, MAIN, C/G, XML, HTML, KANJI and CHINESE.

Downloading is performed from the top of the list.

When a ROM file is selected, the firmware information is displayed under the list.

[Add...]

Specified ROM files are added to [ROM List].

When this button is clicked, the file selection screen appears. Choose a ROM file and click [Open].

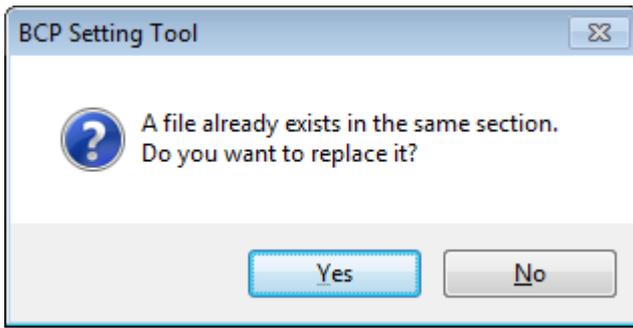
Then this ROM file is added to [ROM List].

If the specified file is not a ROM file, or if the specified ROM file is not for the printer model selected for this Product, an error message will be displayed.

Up to four ROM files can be added.

One file per program section is accepted. In the case the second file is chosen for a program section, the following confirmation message is displayed.

TOSHIBA TEC CORPORATION



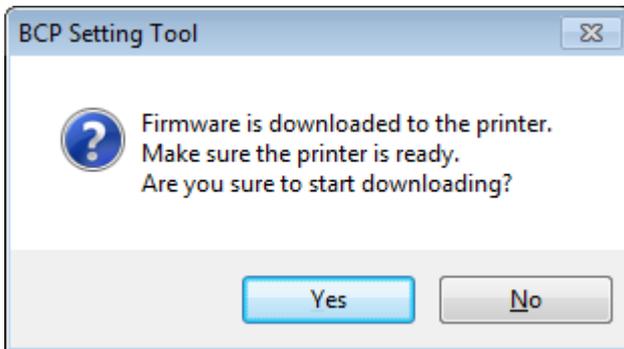
When [Yes] is clicked, the existing file is replaced.
When [No] is clicked, the processing is canceled.

[Delete]

When this button is clicked, selected ROM files in [ROM List] are deleted.
This button becomes active when a ROM file is selected in [ROM List].

[Start Download...]

The ROM files in [ROM List] are downloaded to the printer.
When this button is clicked, the following confirmation message is displayed.



When [Yes] is clicked, the processing starts.
When [No] is clicked, the processing is canceled.

When reading the ROM file or creating download data failed, an error message will be displayed.
When Multi LAN is selected for the interface, the [Printer List] screen is displayed to allow choosing the printers to which the files are downloaded.
When the processing starts, the progress status screen is displayed. When the processing is completed, the completion screen is displayed.
This function is executed only when the printer is in the online mode and in the idle state.
When no file is listed in [ROM List], this button is grayed out.
After the ROM files are sent to the printer, this Product waits for the end of the printer update.
Regarding the Main and Boot programs, whether or not the firmware version has been updated is confirmed at the completion of the download.
When multiple files are downloaded, the processing is repeated one by one.
The printer firmware is replaced with the specified ROM files regardless of the current printer version.

BASIC Download

Firmware Download
BASIC Download
OpenTypeFont
Create HTML/XML ROM

Memory Allocate

Bitmap External Character Storage Area:

Retain BASIC Area

BASIC File Storage Area:

Form Storage Area:

Graphic Storage Area:

PC Save Storage Area:

	Type	Start Block	Use Block	File Name	Add	Clear
▶	Main Program	0			Add	Clear
	System Mode Program	1			Add	Clear
	Data File	2			Add	Clear

Be sure to avoid the environment where a power failure may occur in the middle of the downloading. If a power failure occurs during a downloading, retry the operation.

[Memory Allocate]

Selects whether or not an on-board flash memory is divided and allocated to different types of data. The checkbox has not been checked as default.

When checked, the memory allocation is enabled.

The specified memory size of an on-board flash memory is allocated to each storage area when downloading is executed.

The sum of the memory size for each storage area shall be equal to the total onboard memory size.

If they do not match, the printer automatically adjusts the size.

Priority of allocation: Bitmap External Character > BASIC File > Form > Graphic > PC Save

[True Type Font Storage Area]

Set the area size for storing TrueType fonts.

Default	0 KB
Options	0 to 3072 KB (in units of 128KB)

[Bitmap External Character Storage Area]

Sets the area size for storing bitmap external characters.

Default	1792 KB
Options	0 to 3072 KB (in units of 128KB)

[Retain BASIC Area]

- Selected: The BASIC file storage area size and the data stored in this area will not be changed. (Stored files are not deleted.)
- Not selected: The [BASIC file registration area] can be selected and allocated with the selected size.

[BASIC File Storage Area]

Sets the area size for storing the BASIC program.

Default	512 KB
Options	0 to 3072 KB (in units of 128KB)

[PC Save Storage Area]

The storage area size for printer commands is displayed.

After the memory is allocated to the above three, the rest of the memory is automatically allocated to the PC Save storage area.

It is required to adjust the storage area size for bitmap external characters, BASIC files, Form and Graphic so that the PC Save storage area size does not become a negative value.

When [Retain BASIC Area] is selected, no memory size is displayed.

[BASIC Main Program]

Selects whether or not to download the BASIC main program.

The checkbox has not been checked as default.

When checked, the starting block and the program file can be selected.

The specified file is downloaded to the specified block of the printer memory.

Starting block

Specifies the area where the program is stored.

Set a value so that the area does not overlap the other blocks.

Default	0
Range	0 to 23

Program file

Click [Add] to open the file selection screen. Select a BASIC main program, click [Open], then the full path of the file is displayed.

[BASIC Main Program] does not become effective unless a file is selected.

When reading a file or creating download data failed, the error message is displayed.

[BASIC System Mode Program]

Selects whether or not to download the BASIC system mode program.

The checkbox has not been checked as default.

When checked, the starting block and the program file can be selected.

The specified file is downloaded to the specified block of the printer memory.

Starting block

Specifies the area where the program is stored.

Set a value so that the area does not overlap the other blocks.

Default	1
Range	0 to 23

Program file

Click [Add] to open the file selection screen. Select a BASIC system mode program, click [Open], then the full path of the file is displayed.

[BASIC System Mode Program] does not become effective unless a file is selected.

When reading a file or creating download data failed, the error message is displayed.

[BASIC Data File]

Selects whether or not to download the BASIC data file.

The checkbox has not been checked as default.

When checked, the starting block and data file setting become editable.

The specified file is downloaded to the specified block of the printer memory.

Starting block

Specifies the area where the program is stored.

Set a value so that the area does not overlap the other blocks.

Default	2
Range	0 to 23

Data file

Click [Add] to open the file selection screen. Select a BASIC data file, click [Open], then the full path of the file is displayed.

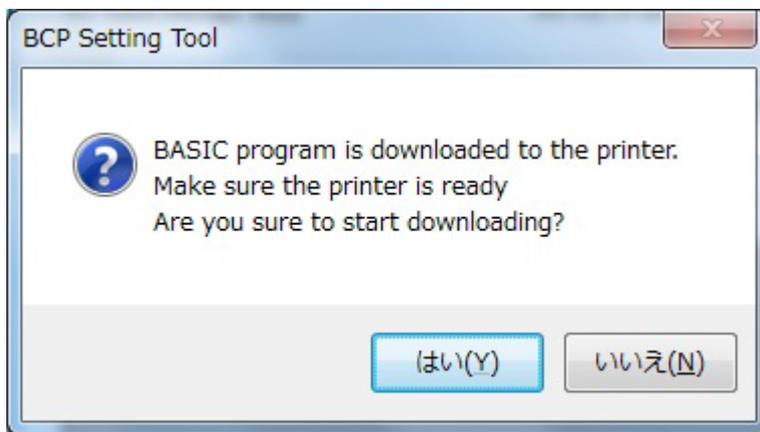
[BASIC Data File] does not become effective unless a file is selected.

When reading a file or creating download data failed, the error message is displayed.

[Start Download...]

Download of the effective programs or update of parameter settings is executed.

When this button is clicked, the following confirmation message is displayed.



When [Yes] is clicked, the processing starts.

When [No] is clicked, the processing is canceled.

When the processing starts, the progress status screen is displayed. When the processing is completed, the completion screen is displayed.

This function is executed only when the printer is in the online mode and in the idle state.

This button is grayed out unless the above settings are properly configured.

After the program or data is sent to the printer, this Product waits for the end of the printer update.

When multiple BASIC files are effective, the processing is executed from the top, one by one.

Download of the program or update of parameter settings are performed regardless of the current printer program.

Emulation

Firmware Download
 BASIC Download
 Emulation
 Create HTML/XML ROM

Memory Allocate

True Type Font Storage Area:

Bitmap External Character Storage Area:

Retain BASIC Area

BASIC File Storage Area:

PC Save Storage Area:

Type	Start Block	Use Block	File Name	Add	Clear
▶ Main Program	0			Add	Clear
System Mode Program	2			Add	Clear
Z Mode System parameter file	3			Add	Clear
Z Mode Initial values & table file	4			Add	Clear
D Mode Initial values file	5			Add	Clear
MODE ON/OFF			NONE		
Send test file				Add	Clear

Start Download...

Be sure to avoid the environment where a power failure may occur in the middle of the downloading.
If a power failure occurs during a downloading, retry the operation.

[Memory Allocate]

Selects whether or not an on-board flash memory is divided and allocated to different types of data.

The checkbox has not been checked as default.

When checked, the memory allocation is enabled.

The specified memory size of an on-board flash memory is allocated to each storage area when downloading is executed.

The sum of the memory size for each storage area shall be equal to the total onboard memory size.

If they do not match, the printer automatically adjusts the size.

Priority of allocation: TrueType Font > Bitmap External Character > BASIC File > PC Save

[True Type Font Storage Area]

Sets the area size for storing TrueType fonts.

Default	0 KB
Options	0 to 3072 KB (in units of 128KB)

[Bitmap External Character Storage Area]

Sets the area size for storing bitmap external characters.

Default	1792 KB
Options	0 to 3072 KB (in units of 128KB)

[Retain BASIC Area]

- Selected: The BASIC file storage area size and the data stored in this area will not be changed. (Stored files are not deleted.)
- Not selected: The [BASIC file registration area] can be selected and allocated with the selected size.

[BASIC File Storage Area]

- Sets the area size for storing the BASIC program.
- Other than B-EX4T2-H (600dpi) : Set 768KB (6 Blocks) or more.
- B-EX4T2-H (600dpi) : Set 512KB (4 Blocks) or more.

Default	Other than B-EX4T2-H (600dpi) : 768KB B-EX4T2-H (600dpi) : 512 KB
Options	0 to 3072 KB (in units of 128KB)

[PC Save Storage Area]

- The storage area size for printer commands is displayed.
- After the memory is allocated to the above three, the rest of the memory is automatically allocated to the PC Save storage area.
- It is required to adjust the storage area size for True type fonts, bitmap external characters and BASIC files so that the PC Save storage area size does not become a negative value.
- When [Retain BASIC Area] is selected, no memory size is displayed.

[BASIC Main Program]

- Selects whether or not to download the BASIC main program.
- The checkbox has not been checked as default.
- When checked, the starting block and the program file can be selected.
- The specified file is downloaded to the specified block of the printer memory.

Starting block

- Specifies the area where the program is stored.
- Set a value so that the area does not overlap the other blocks.

Default	0
Range	0 to 23

Program file

- Click [Add] to open the file selection screen. Select a BASIC main program, click [Open], then the full path of the file is displayed.
- [BASIC Main Program] does not become effective unless a file is selected.
- When reading a file or creating download data failed, the error message is displayed.

[BASIC System Mode Program]

- Selects whether or not to download the BASIC system mode program.
- The checkbox has not been checked as default.
- When checked, the starting block and the program file can be selected.
- The specified file is downloaded to the specified block of the printer memory.

Starting block

- Specifies the area where the program is stored.
- Set a value so that the area does not overlap the other blocks.

Default	Other than B-EX4T2-H (600dpi) : 2 B-EX4T2-H (600dpi) : 1
Range	0 to 23

Program file

Click [Add] to open the file selection screen. Select a BASIC system mode program, click [Open], then the full path of the file is displayed.

The [BASIC System Mode Program] does not become effective unless a file is selected.

When reading a file or creating download data failed, the error message is displayed.

[Z Mode System parameter file]

Select whether or not to download the BASIC data file.

The system parameter file is downloaded to the specified block of the printer memory.

Starting block

Specify the area where the program is stored.

Set a value so that the area does not overlap the other blocks.

Default	Other than B-EX4T2-H (600dpi) : 3 B-EX4T2-H (600dpi) : 2
Range	0 to 23

Data file

Click the Add button to open the file selection screen. Select a BASIC data file, click [Open], then the full path of the file is displayed.

The [System parameter file] does not become effective unless a file is selected.

When reading a file or creating download data failed, the error message is displayed.

[Z Mode Initial values & table file]

Select whether or not to download the BASIC data file.

The Initial values & table file is downloaded to the specified block of the printer memory.

Starting block

Specify the area where the program is stored.

Set a value so that the area does not overlap the other blocks.

Default	Other than B-EX4T2-H (600dpi) : 4 B-EX4T2-H (600dpi) : 3
Range	0 to 23

Data file

Click the Add button to open the file selection screen. Select a BASIC data file, click [Open], then the full path of the file is displayed.

The [Initial values & table file] does not become effective unless a file is selected.

When reading a file or creating download data failed, the error message is displayed.

[D Mode Initial values file]

Select whether or not to download the BASIC data file.

The Initial values & table file is downloaded to the specified block of the printer memory.

Starting block

Specify the area where the program is stored.

Set a value so that the area does not overlap the other blocks.

Default	5
Range	0 to 23

Data file

Click the Add button to open the file selection screen. Select a BASIC data file, click [Open], then the full path of the file is displayed.

The [Initial values file] does not become effective unless a file is selected.

When reading a file or creating download data failed, the error message is displayed.

[MODE ON/OFF]

Select whether or not to sends the emulation mode ON/OFF command.

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[Send test file]

A specified file is sent to the printer in binary format.

Click the Add button to open the file selection screen. Select a data file, click [Open], then the full path of the file is displayed.

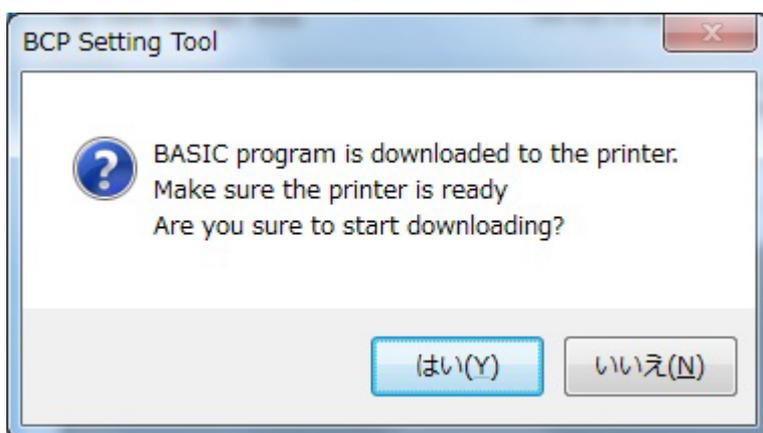
The [Send test file] does not become effective unless a file is selected.

When reading a file or creating download data failed, the error message is displayed.

[Start Download...]

Download of the effective programs or update of parameter settings is executed.

When this button is clicked, the following confirmation message is displayed.



When [Yes] is clicked, the processing starts.

When [No] is clicked, the processing is canceled.

When the processing starts, the progress status screen is displayed. When the processing is completed, the completion screen is displayed.

This function is executed only when the printer is in the online mode and in the idle state.

This button is grayed out unless the above settings are properly configured.

After the program or data are sent to the printer, this Product waits for the end of the printer update.

When multiple BASIC files are effective, the processing is executed from the top, one by one.

Download of the program or update of parameter settings are performed regardless of the current printer program.

Create HTML/XML ROM

[ROM Type]

Selects a ROM file type to be created.

The "Load Address" and "Size" differ depending on the ROM file type.

Default	HTML/XML
Options	HTML/XML

[Source Path]

Specifies the location where the HTML/XML files are stored.

Click the button to display the folder selection screen. Select the folder where HTML/XML files are stored, click [OK]. The full path of the file is displayed.

When "HTML/XML" is set for [ROM Type], the source files in the specified folder are displayed in [Source List].

If there is no file in the specified folder, an error message will appear. A blank file or a file with the name including 24 characters or more is excluded.

[Section]

Specifies the section information for the HTML/XML ROM.

* Do not change the setting from the default one.

[Version]

Specifies the version information for the HTML/XML ROM.

* Up to 5 alphanumeric characters and dot symbols can be used.

[Model]

Specifies the model name for the HTML/XML ROM.

* Do not change the setting from the default one.

[Address]

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Specifies the address information for the HTML/XML ROM.

* Do not change the setting from the default one.

[Size]

Specifies the size for the HTML/XML ROM.

* Do not change the setting from the default one.

[Date]

Specifies the date information for the HTML/XML ROM.

Enter the date in a "DDMMYYYY" format.

DD: Day (00, 01, 02.....29, 30, 31)

MMM: Month (JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC)

YYYY: Year (2016, 2017, 2018....)

[Source List]

When "HTML/XML" is set for [ROM Type], the files in the specific path under the specified folder are shown.

ROM files for XML are created from the displayed files.

\\XML folder:	File for XML
\\GRP_DATA folder:	File for graphics
\\ENG\\HTML folder:	File for English language
\\ENG\\PASS folder:	File for English language
\\JPN\\HTML folder:	File for Japanese language
\\JPN\\PASS folder:	File for Japanese language
\\MAIL folder:	File for emails
\\MAIL\\TEXT folder:	File for emails

The file size and the ratio to the maximum size in percentage are displayed under [Source List].

[ROM List]

The data configuration of the created ROM file is displayed.

When creation of a ROM file is started, the display is cleared and the status of file conversion into a ROM file is shown.

In the case the same file name is assigned to both the files for English and Japanese languages, they are handled as one common file.

[Create]

A ROM file is created from the files in the file list on the specified conditions.

When this button is clicked, the folder selection screen is displayed and the processing starts.

The progress status is indicated with the progress bar and in [ROM List]. Cancellation is not acceptable during the creation of the ROM file.

The result of the conversion is displayed in [ROM List].

This button is grayed out unless the file list and output file are configured.

Download the created ROM files to the printer using [Start Download...] on the [Firmware Download] tab page.

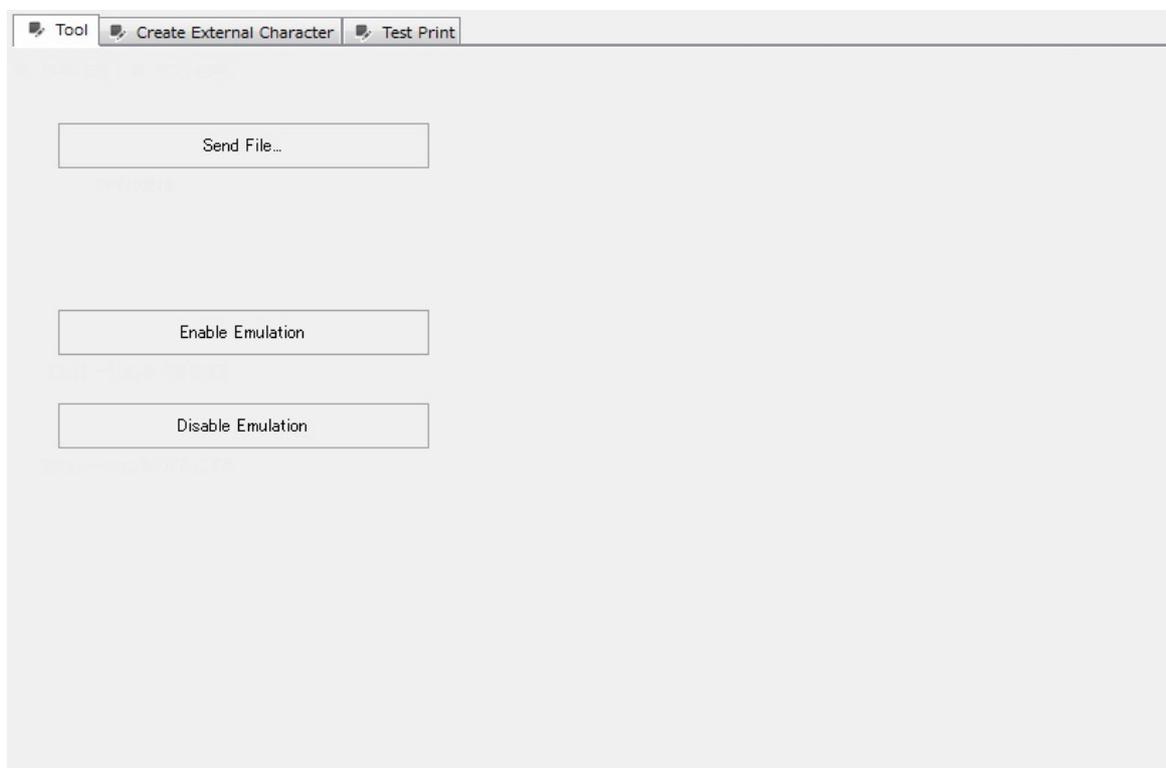
When the number of files exceeds 128 or the total file size in the ROM list exceeds the value shown at "Size", an error message will be displayed.

When reading the file, creating or saving ROM files failed, an error message will also be displayed.

Tool

The functions useful for operating the printer are provided.
When the [Tool] icon on the menu icon area is clicked, the [Tool] screen is displayed.

Tool Tab



[Send File...]

A specified file is sent to the printer in a binary format.

When this button is clicked, the file selection screen is displayed. Select a desired file and click [Open]. Then, the file transmission is started.

When the processing starts, the progress status is displayed. When the file transmission is completed, the completion screen is displayed.

This function is used for sending the files such as external characters and printer commands to the printer.

A file transmission is executed regardless of the printer status.

[Enable Emulation]

Enable the emulation function of the printer.

[Disable Emulation]

Disable the emulation function and return the "Print Command Mode" to TPCL.

Create External Character Tab

[Specification Method]

Selects the specify method the bitmap file path.

"File": When an external character is created from one bitmap file

"Folder": When an external character is created from more than one bitmap file

Default	File
Options	File, Folder

[Location]

Selects the type of a memory where the files are stored.

Default	Onboard Flash Memory
Options	Onboard Flash Memory, USB Memory

[Bitmap Path]

Specifies the location where the bitmap file is stored.

Click the button to show the full path of the specified location.

Only monochrome (black and white) bitmaps are acceptable. One dot of a bitmap is equivalent to one pixel specified in Paint.

When "File" is selected for [Specification Method], specify one bitmap file from the screen.

If the selected file is not a monochrome bitmap, an error message will be displayed.

If the selected file exceeds the acceptable upper limit of the width or height, an error message will be displayed.

When "Folder" is selected for [Specification Method], specify a folder in which more than one bitmap file is stored. The bitmap files in the specified folder are displayed in [Bitmap List] as long as their file names conform to the format described below.

When no monochrome bitmap file with proper name is found in the specified folder, an error message will be displayed.

◆Bitmap file name format

G_ "Type""Code" (_ "Left Offset" _ "Top Offset" _ "Character Spacing").bmp

<Example> When Type = 01, Code = 20: G_0120.bmp or G_0120_0_0_0.bmp

When Type = 51, Code = FFFF: G_51FFFF.bmp or G_51FFF_0_0_0.bmp

◆Restriction on the bitmap file

When [Type] = "41", the size shall be 16 x 16 dots.

When [Type] = "42", the size shall be 24 x 24 dots.

When [Type] = "43", the size shall be 32 x 32 dots.

When [Type] = "44", the size shall be 48 x 48 dots.

When [Type] = other value than above:

Location	Printer	Resolution	Range
Onboard Flash Memory	-	-	720 x 720 dots
USB Memory	B-EX4T1-G/T (203dpi/305dpi)	203 dpi	832 x 5460 dots
	B-EX4T2-G/T (203dpi/300dpi)		
	B-EX4D2-G/T (203dpi/300dpi)		
	B-EX4T1-G/T (203dpi/305dpi)	305 dpi	1248 x 5460 dots
	B-EX4T1-T JP (305dpi)	-	1248 x 5460 dots
	B-EX4T2-G/T (203dpi/300dpi)	300 dpi	1248 x 5460 dots
	B-EX4D2-G/T (203dpi/300dpi)		
B-EX4T2-H (600dpi)	-	1248 x 5460 dots	
B-EX4T3-H (600dpi)			

[Bitmap List]

Bitmap files in the location specified for [Bitmap path] are displayed.

Displayed files are original files used for creating an external character file.

[Size]

The size and image of the selected bitmap file are displayed.

[Type]

Specifies a type number used for storing the file as an external character.

When "Folder" is selected for [Specification Method], this becomes invalid.

Default	01
Range	When [Location] = "Onboard Flash Memory": 01 to 44, 51
	When [Location] = "USB Memory": 01 to 44, 51 to 55

[Code]

Sets the character code in a hex. format for storing the file as an external character.

One hexadecimal code is expressed with two characters. (Example: "0" -> "30", "A" -> "41")

When "Folder" is selected for [Specification Method], this becomes invalid.

Default	20
Range	When [Type] = any of "01" to "40": 20 to FF
	When [Type] = any of "41" to "44": 40 to 7E, 80 to FC
	When [Type] = any of "51" to "55": 020 to FFFF

[Left Offset]

Sets a value for the left offset from the reference coordinate.
 When any of "41" to "44" is set for [Type], this becomes invalid.
 When "Folder" is selected for [Specification Method], this becomes invalid.

Location	Printer	Resolution	Range	Default
Onboard Flash Memory	-	-	0 to 719 dots	0 dot
USB Memory	B-EX4T1-G/T (203dpi/305dpi) B-EX4T2-G/T (203dpi/300dpi) B-EX4D2-G/T (203dpi/300dpi)	203 dpi	0 to 831 dots	
	B-EX4T1-G/T (203dpi/305dpi)	305 dpi	0 to 1247 dots	
	B-EX4T1-T JP (305dpi)	-	0 to 1247 dots	
	B-EX4T2-G/T (203dpi/300dpi) B-EX4D2-G/T (203dpi/300dpi)	300dpi	0 to 1247 dots	
	B-EX4T2-H (600dpi) B-EX4T3-H (600dpi)	-	0 to 2454 dots	

[Top Offset]

Sets a value for the top offset from the reference coordinate.
 When any of "41" to "44" is set for [Type], this becomes invalid.
 When "Folder" is selected for [Specification Method], this becomes invalid.

Default	0 dot
Range	When [Location] = "Onboard Flash Memory": 0 to 719 dots
	When [Location] = "USB Memory": 0 to 5460 dots

[Character Spacing]

Sets a fine adjustment value for the space between characters.
 When any of "41" to "44" is set for [Type], this becomes invalid.
 When "Folder" is selected for [Specification Method], this becomes invalid.

Location	Printer	Resolution	Range	Default
Onboard Flash Memory	-	-	0 to 999 dots	0
USB Memory	B-EX4T1-G/T (203dpi/305dpi) B-EX4T2-G/T (203dpi/300dpi) B-EX4D2-G/T (203dpi/300dpi)	203 dpi	0 to 832 dots	
	B-EX4T1-G/T (203dpi/305dpi)	305 dpi	0 to 1248 dots	
	B-EX4T1-T JP (305dpi)	-	0 to 1248 dots	
	B-EX4T2-G/T (203dpi/300dpi) B-EX4D2-G/T (203dpi/300dpi)	300 dpi	0 to 1248 dots	
	B-EX4T2-H (600dpi) B-EX4T3-H (600dpi)	-	0 to 2455 dots	

[Resolution]

Select the resolution.

Option	B-EX4T1-G/T (203dpi/305dpi)	203 dpi、305 dpi
	B-EX4T2-G/T (203dpi/300dpi) B-EX4D2-G/T (203dpi/300dpi)	203 dpi、300 dpi
	B-EX4T1-T JP (305dpi) B-EX4T2-H (600dpi) B-EX4T3-H (600dpi)	Not displayed

[Confirmation File]

Selects whether or not to generate a print command file for checking the created external characters.
 When the checkbox is checked, a print command will be created in accordance with the settings specified in [Magnification], [Print Method], [Label Length] and [Label Width]. [Print Speed], [Sensor] and [Issue Mode] are fixed to "Auto", "None" and "Batch", respectively.

By sending the created print command to the printer in which the external character file is stored, you can print the external characters for check.
 The file extension is "prn" and the file name is the same as the output file name.
 When "Folder" is selected for [Specification Method], this becomes invalid.

[Magnification]

Selects a magnification of the external character for test print.

Default	1.0 x 1.0
Options	0.5 x 0.5, 1.0 x 1.0, 2.0 x 2.0, 3.0 x 3.0, 1.0 x 2.0, 2.0 x 1.0

[Print Method]

Selects the print method.

Default	Other than B-EX4D2-G/T (203dpi/300dpi): Thermal Transfer
	B-EX4D2-G/T (203dpi/300dpi): Direct Thermal
Options	B-EX4T1-G/T (203dpi/305dpi) / B-EX4T1-T JP (305dpi): Thermal Transfer, Thermal Transfer (Ribbon Saving), Direct Thermal, Direct Thermal (Head Up)
	B-EX4T2-G/T (203dpi/300dpi) / B-EX4T2-H (600dpi): Thermal Transfer, Direct Thermal
	B-EX4T3-H (600dpi): Thermal Transfer
	B-EX4D2-G/T (203dpi/300dpi): Direct Thermal

[Label Length]

Sets the effective print length of media. The label gap is fixed to 2 mm.

Default	74 mm
Range	Other than B-EX4T2-H (600dpi) / B-EX4T3-H (600dpi): 8 to 1498 mm
	B-EX4T2-H (600dpi) / B-EX4T3-H (600dpi): 8 to 498 mm

[Label Width]

Sets the effective print width of media.

Default	54 mm
Range	10 to 54 mm

[Output File]

Specifies the file where an external character is stored.

Click the button to display the file selection screen. Specify a file and click [Save]. Then, the full path is displayed in the file name.

The file extension is "gai".

After the specified file is initialized, an external character is stored in it.

[Create]

A Bitmap External Character Command is created from the bitmap on the specified conditions.

When this button is clicked, the processing starts.

The progress status is indicated with the progress bar. Cancellation is not acceptable during the creation of the command.

This button is grayed out unless data are set for [Bitmap Path] and [Output File].

When "File" is selected for [Specification Method], an external character file is created from the specified bitmap file.

When "Folder" is selected for [Specification Method], an external character file is created from the bitmap file in the Bitmap list.

A Bitmap External Character Command is created with nibble data.

Send the created external character files to the printer using [Send File] on the [Tool] tab page.

When reading, creating or saving the external character files failed, an error message will be displayed.

Test Print Tab

The screenshot shows a software interface for a test print. At the top, there are three tabs: 'Tool', 'Create External Character', and 'Test Print' (which is selected). Below the tabs, the interface is divided into two main sections: 'Print Pattern' and 'Print Condition'.

Print Pattern:

- Print Pattern: Slant Lines (1 dot) (dropdown menu)
- Resolution: 203 dpi (dropdown menu)

Print Condition:

- Issue Count: 1 (spin box)
- Print Speed: Auto (dropdown menu)
- Sensor: None (dropdown menu)
- Issue Mode: Batch (dropdown menu)
- Print Method: Direct Thermal (dropdown menu)
- Label Length: 60 mm (spin box)
- Label Gap: 3 mm (spin box)
- Label Width: 72 mm (spin box)
- Tone Adjustment: 0 (spin box)

At the bottom center of the interface, there is a 'Test Print' button.

[Print Pattern]

Selects a print pattern for the test print.

Default	Other than B-EX4T3-H (600dpi): Slant Lines (1 dot)
	B-EX4T3-H (600dpi): Slant Lines (3 dot)
Options	Other than B-EX4T3-H (600dpi): Slant Lines (1 dot), Slant Lines (3 dots), Characters, Barcodes
	B-EX4T3-H (600dpi): Slant Lines (3 dot), Slant Lines (4 dots), Slant Lines (7 dots), Characters, Barcodes

[Resolution]

Selects a resolution for the test print.

Default	B-EX4T1-G/T (203dpi/305dpi) B-EX4T2-G/T (203dpi/300dpi) B-EX4D2-G/T (203dpi/300dpi)	203 dpi
	B-EX4T1-T JP (305dpi)	305 dpi
	B-EX4T2-H (600dpi) B-EX4T3-H (600dpi)	600 dpi
Options	B-EX4T1-G/T (203dpi/305dpi)	203 dpi, 305 dpi
	B-EX4T2-G/T (203dpi/300dpi) B-EX4D2-G/T (203dpi/300dpi)	203 dpi, 300 dpi
	B-EX4T1-T JP (305dpi)	305 dpi
	B-EX4T2-H (600dpi) B-EX4T3-H (600dpi)	600dpi

[Print Condition]

[Issue Count]

Sets the print count.

Default	1
Range	1 to 9999

[Print Speed]

Selects a print speed.

Printer	Resolution	Options	Default
B-EX4T1-G/T (203dpi/305dpi)	203 dpi	3 inch/sec, 6 inch/sec, 10 inch/sec, 12 inch/sec, 14 inch/sec	6 inch/sec
	305 dpi	3 inch/sec, 5 inch/sec, 8 inch/sec, 10 inch/sec, 12 inch/sec, 14 inch/sec	5 inch/sec
B-EX4T1-T JP (305dpi)	305 dpi	3 inch/sec, 5 inch/sec, 8 inch/sec, 10 inch/sec, 12 inch/sec, 14 inch/sec	5 inch/sec
B-EX4T2-G/T (203dpi/300dpi) B-EX4D2-G/T (203dpi/300dpi)	203 dpi	3 inch/sec, 6 inch/sec, 10 inch/sec, 12 inch/sec	6 inch/sec
	300 dpi	3 inch/sec, 5 inch/sec, 8 inch/sec, 10 inch/sec, 12 inch/sec	5 inch/sec
B-EX4T2-H (600dpi) B-EX4T3-H (600dpi)	600 dpi	2 inch/sec, 3 inch/sec, 4 inch/sec, 5 inch/sec, 6 inch/sec	3 inch/sec

[Sensor]

Selects a sensor to be used.

Default	None
Options	Other than B-EX4T3-H (600dpi): None, Reflective, Transmissive, Transmissive (Preprinted Labels), Reflective (Manual)
	B-EX4T3-H (600dpi): None, Reflective, Transmissive, Transmissive (Preprinted Labels 1), Transmissive (Preprinted Labels 2), Transmissive (Preprinted Labels 3), Transmissive (Preprinted Labels 4), Transmissive (Preprinted Labels 5), Reflective (Manual 1) , Reflective (Manual 2) , Reflective (Manual 3) , Reflective (Manual 4) , Reflective (Manual 5)

[Issue Mode]

Selects an issue mode.

Default	Batch
Options	Batch, Peel-off

[Print Method]

Selects a print method.

Default	Other than B-EX4D2-G/T (203dpi/300dpi): Thermal Transfer
	B-EX4D2-G/T (203dpi/300dpi): Direct Thermal
Options	B-EX4T1-G/T (203dpi/305dpi) / B-EX4T1-T JP (305dpi): Thermal Transfer, Thermal Transfer (Ribbon Saving), Direct Thermal, Direct Thermal (Head Up)
	B-EX4T2-G/T (203dpi/300dpi) / B-EX4T2-H (600dpi): Thermal Transfer, Direct Thermal
	B-EX4T3-H (600dpi): Thermal Transfer
	B-EX4D2-G/T (203dpi/300dpi): Direct Thermal

[Label Length]

Sets the effective print length of media.

Default	74 mm
Range	Other than B-EX4T2-H (600dpi) / B-EX4T3-H (600dpi): 8 to 1498 mm
	B-EX4T2-H (600dpi) / B-EX4T3-H (600dpi): 8 to 498 mm

[Label Gap]

Sets the length of the gap between labels.

Default	2 mm
Range	0 to 20 mm

[Label Width]

Sets the effective print width of media.

Default	104 mm
Range	10 to 104 mm

[Tone Adjustment]

Sets a fine adjustment value for the print tone.

A Print Density Fine Adjust command only for the selected print method is transmitted. The fine adjustment value set in the Print Density Fine Adjust command will be effective until it is changed.

Default	0
Range	-20 to +10

[Test Print]

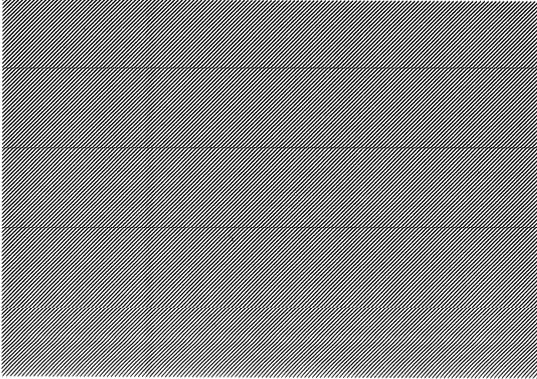
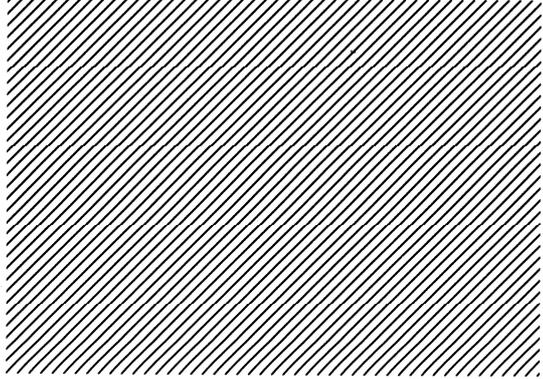
The printer performs a test print on the specified conditions.

When this button is clicked, the processing starts.

When the processing starts, the progress status screen is displayed. When the processing is completed, the completion screen is displayed.

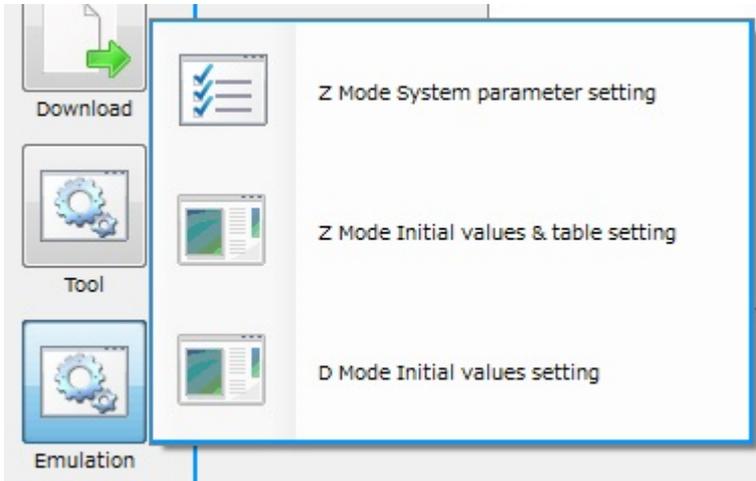
This function is executed only when the printer is in the online mode and in the idle state.

When reading the file or creating an image data failed, an error message will be displayed.

<p>Slant Lines (1 dot)</p> 	<p>Slant Lines (3 dot)</p> 
<p>Characters</p> <p>A/0123ABCDEF GHIJ G/0123ABCDEF GHIJKLMNOP B/0123ABCDEF GHIJ H/0123ABCDEF GHIJ C/0123ABCDEF GHIJ I/0123ABCDEF GHIJ D/0123ABCDEF GHIJ J/0123ABCDEF GHIJ E/0123ABCDEF GHIJ K/0123ABCDEF GHIJ F/0123ABCDEF GHIJ L/0123ABCDEF GHIJ 0123ABCDEF GHIJKL M/0123ABCDEF GHIJ N/0123ABCDEF GHIJ O/0123ABCDEF GHIJ P/0123ABCDEF GHIJ Q/0123ABCDEF GHIJ R/0123ABCDEF GHIJ S/0123ABCDEF GHIJ T/0123ABCDEF GHIJ</p> <p><i>0123456</i> <i>0123456</i> <i>0123456</i> AB <i>ABCDEF</i> <i>ABCDEF</i></p>	<p>Barcodes</p> <p>0: JAN8, EAN8 4: NW7       </p>

Emulation

The Emulation menu enables configuring or obtaining the Z Mode/D Mode parameter settings. When the [Emulation] icon on the menu icon area is clicked, each menu is displayed.



Support printer:

- B-EX4T1-G/T (203dpi/305dpi)
- B-EX4T2-G/T (203dpi/300dpi)
- B-EX4D2-G/T (203dpi/300dpi)
- B-EX4T2-H (600dpi)

Z Mode System Parameter setting

Z Mode Parameter Tab

File name: Reset to default...

Label length: mm

Label width: mm

Ribbon:

Print mode:

Sensor:

Print speed:

Max. label length (for calibration): mm

Calib. after power on:

Calib. after head close:

Dots/mm:

Format convert:

Code setting:

Control prefix(*):

Format prefix(*):

Delimiter char(.):

Graphic position:

Tab -> Space: mm

RFID tag position adj:

RFID offset print: mm

LABEL SHIFT: mm

Effective command:

- Label size(LL)
- Label type(MN)
- Media type(MT)
- Tone Adj(SD)
- Tone Adj(MD)

Sets the Z Mode system parameter. The same settings those for the printer can be set.

[Label length]

Printer	Range	Default
B-EX4T1-G/T (203dpi/305dpi)	10.0 to 1500.0 mm	105.0
B-EX4T2-G/T (203dpi/300dpi)		
B-EX4D2-G/T (203dpi/300dpi)		
B-EX4T2-H (600dpi)	10.0 to 500.0 mm	105.0

[Label width]

Printer	Range	Default
B-EX4T1-G/T (203dpi/305dpi)	10.0 to 104.0 mm	104.0
B-EX4T2-G/T (203dpi/300dpi)		
B-EX4D2-G/T (203dpi/300dpi)		
B-EX4T2-H (600dpi)		

[Ribbon]

Printer	Range	Default
B-EX4T1-G/T (203dpi/305dpi)	WITHOUT RIBBON WITH RIBBON SAVE WITH RIBBON WITHOUT RIBBON H	WITH RIBBON SAVE
B-EX4T2-G/T (203dpi/300dpi) B-EX4D2-G/T (203dpi/300dpi) B-EX4T2-H (600dpi)	WITHOUT RIBBON WITH RIBBON	WITH RIBBON

[Print mode]

Printer	Range	Default
B-EX4T1-G/T (203dpi/305dpi) B-EX4T2-G/T (203dpi/300dpi) B-EX4D2-G/T (203dpi/300dpi) B-EX4T2-H (600dpi)	NO CUT PEEL OFF PEEL OFF A WITH CUT DELAYED CUT RFID	NO CUT

[Sensor]

Printer	Range	Default
B-EX4T1-G/T (203dpi/305dpi) B-EX4T2-G/T (203dpi/300dpi) B-EX4D2-G/T (203dpi/300dpi) B-EX4T2-H (600dpi)	NONE REFLECT TRANS TRANS PREPRINT REFLECT MANUAL T	TRANS

[Print speed]

Printer	Range	Default
B-EX4T1-G/T (203dpi/305dpi)	3 inch/sec (G/T) 5 inch/sec (T) 6 inch/sec (G) 8 inch/sec (T) 10 inch/sec (G/T) 12 inch/sec (G/T) 14 inch/sec (G/T)	3 inch/sec (G/T)
B-EX4T2-G/T (203dpi/300dpi) B-EX4D2-G/T (203dpi/300dpi)	3 inch/sec (G/T) 5 inch/sec (T) 6 inch/sec (G) 8 inch/sec (T) 10 inch/sec (G/T) 12 inch/sec (G/T)	3 inch/sec (G/T)
B-EX4T2-H (600dpi)	2 inch/sec 3 inch/sec 4 inch/sec 5 inch/sec 6 inch/sec	2 inch/sec

[Max. label length (for calibration)]

Printer	Range	Default
B-EX4T1-G/T (203dpi/305dpi) B-EX4T2-G/T (203dpi/300dpi) B-EX4D2-G/T (203dpi/300dpi)	10.0 to 1500.0 mm	500.0
B-EX4T2-H (600dpi)	5.0 to 500.0mm	500.0

[Calib. after power on]

Printer	Range	Default
B-EX4T1-G/T (203dpi/305dpi)	CALIBRATE	CALIBRATE
B-EX4T2-G/T (203dpi/300dpi)	SHORT CALIBRATE	
B-EX4D2-G/T (203dpi/300dpi)	SET LENGTH	
B-EX4T2-H (600dpi)	NONE FEED	

[Calib. after head close]

Printer	Range	Default
B-EX4T1-G/T (203dpi/305dpi)	CALIBRATE	CALIBRATE
B-EX4T2-G/T (203dpi/300dpi)	SHORT CALIBRATE	
B-EX4D2-G/T (203dpi/300dpi)	SET LENGTH	
B-EX4T2-H (600dpi)	NONE FEED	

[Dots/mm]

Printer	Range	Default
B-EX4T1-G/T (203dpi/305dpi)	12 or 8 dot/mm	12 or 8 dot/mm
B-EX4T2-G/T (203dpi/300dpi)	6 or 4 dot/mm	
B-EX4D2-G/T (203dpi/300dpi)		
B-EX4T2-H (600dpi)	24 dot/mm 12 dot/mm	24 dot/mm

[Format convert]

Printer	Range	Default
B-EX4T1-G/T (203dpi/305dpi)	NONE	NONE
B-EX4T2-G/T (203dpi/300dpi)	150 -> 300	
B-EX4D2-G/T (203dpi/300dpi)	150 -> 600	
B-EX4T2-H (600dpi)	200 -> 600 300 -> 600	

[Graphic position]

Printer	Range	Default
B-EX4T1-G/T (203dpi/305dpi)	SPEED-ORIENTED PRECISE POSITION	SPEED-ORIENTED
B-EX4T2-G/T (203dpi/300dpi)		
B-EX4D2-G/T (203dpi/300dpi)		
B-EX4T2-H (600dpi)		

[Tab -> Space]

Printer	Range	Default
B-EX4T1-G/T (203dpi/305dpi)	0 to 99	4
B-EX4T2-G/T (203dpi/300dpi)		
B-EX4D2-G/T (203dpi/300dpi)		
B-EX4T2-H (600dpi)		

[RFID tag position adj]

Printer	Range	Default
B-EX4T1-G/T (203dpi/305dpi)	-999.9 to +999.9 mm	0.0
B-EX4T2-G/T (203dpi/300dpi)		
B-EX4D2-G/T (203dpi/300dpi)		
B-EX4T2-H (600dpi)		

[RFID offset print]

Printer	Range	Default
B-EX4T1-G/T(203dpi/305dpi) B-EX4T2-G/T (203dpi/300dpi) B-EX4D2-G/T (203dpi/300dpi) B-EX4T2-H (600dpi)	NONE WITHOUT BACKFEED WITH BACKFEED	NONE

[LABEL SHIFT]

Printer	Range	Default
B-EX4T1-G/T(203dpi/305dpi) B-EX4T2-G/T (203dpi/300dpi) B-EX4D2-G/T (203dpi/300dpi) B-EX4T2-H (600dpi)	-999.9 to +999.9 mm	0.0

----- Code setting -----

1. Control prefix(~)
Range: 00 to FF (hexadecimal)
2. Format prefix(~)
Range: 00 to FF (hexadecimal)
3. Delimiter char(~)
Range: 00 to FF (hexadecimal)

----- Effective command -----

Sets which setting, the command parameter or system mode parameter (set by means of this tool and a printer), is effective by means of the selection of the check box.

Selected: The command parameter is valid. (The system mode parameter is invalid.)
Not selected: The system mode parameter is valid. (The command parameter is invalid)

1. Label size(LL)
2. Label type(MN)
3. Media type(MN)
4. Tone Adj(SD)
5. Tone Adj(MD)

<Button>

[Load]

Reads the settings from a specified file.

[Save]

Saves the settings in a specified file.

[Download]

Downloads the settings to the printer.

[Get printer param.]

Retrieves the settings from the printer.

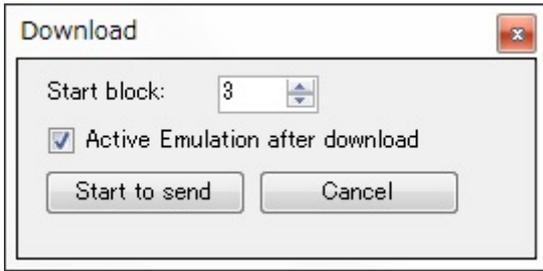
Note: If no Initial Values & Table files have been sent to the printer before, no data cannot be obtained from the printer.

[Reset to default]

Restores all settings to the default.

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□ Download menu



[Start block]

Sets the parameter saving area.

Default	Other than B-EX4T2-H (600dpi) : 3 B-EX4T2-H (600dpi) : 2
Range	0 to 23

[Active Emulation after download]

When it is selected, Emulation starts after downloading.

[Start to send]

Starts the parameter download.

[Cancel]

Cancels the process.

Z Mode Initial values & table setting

The Z Mode default value, font mapping table and drive allocation can be set.

Z Mode InitValue Tab

Sets the default value if the command or parameter is omitted in Z Mode and the movement in a converter.

<Setting item>

[BarCode(BY)] group

[Default height]

Default	10
Range	1 to 999

[Module size]

Default	2
Range	1 to 10

[Narrow to wide bar ratio]

Default	3.0
Range	2.0 to 3.0

[Field(FP)] group

[Text rotation]

Default	Normal(Left to right)
Option	Normal(Left to right), Vertical, Reverse(Right to left)

[Inter-character space]

Default	0
Range	0 to 999

[Serialization(S)] group

[INC/DEC]

Default	1
Range	-9999999999 to 9999999999

[Zero suppress]

Default	Checked(zero suppress)
Option	Checked(zero suppress), Not check(Not zero suppress)

[Unit(MU)] group

[Unit]

Default	dot
Option	Dot, inch, mm

[Field Block(FB)] group

[Field width]

Default	dot
Range	0 to paper width (Do not fill in the value which exceeds the paper width.)

[Number of Lines]

Default	1
Range	0 to 999

[Space dot between lines]

Default	0
Range	-999 to 999

[Alignment]

Default	Align left
Option	Align left, center, right, justify

[X position correction]

Default	0
Range	0 to 999

[Graphic(GB,GC,GD)] group

[Line weight]

Default	1
Range	0 to 999

[Darkness(SD,MD)] group

[Tone fine adj. value]

Default	0
Range	-30 to 30

[Code Page(CI)] group

[Character set]

Default	0
Range	0 to 30

[Label(LH,LS,PM,PO,PF,LT)] group

[X position of label home position]

Default	0
Range	0 to 9999

[Y position of label home position]

Default	0
Range	0 to 9999

[Label rotation / Mirror print]

Default	Bottom first
Option	Bottom first, Top first, Bottom first mirror print, Top first mirror print

[Y position offset]

Default	0
Range	This setting cannot be changed.

[Feed amount fine adj]

Default	0
Range	-120 to 120

[Print(PQ)] group

[Print count]

Default	1
Range	1 to 9999

[Cut interval]

Default	0
Range	0 to 999

[PC Save Area Allocate] group

Specifies the memory size (number of blocks) for storing the format data used in Z Mode. The PC save area of the TPCL is used. In Z Mode, the PC save area is divided into two. One is used for format data and the other is used for the graphic data.

Specify the number of blocks used for storing the commands. The remaining blocks are used as the graphic data area.

[Format data area]

Other than 0: Sets the number of blocks to allocate for format. (Remain area is for graphic.)

0: Sets to share the PC save area with the format data and the graphic data half and half.

Default	1
Range	0 to 99

[GETCMDZB] group

[Get data form]

Default	Receive buffer
Option	Receive buffer, BASIC application

Receive buffer: Standard option for Z Mode. (Basically, do not change the setting.)
The converter firmware analyzes the data in the receive buffer and converts into a command.

BASIC Application: If data cannot be converted into a command in Z Mode, a BASIC application is used to modify a received command so that the converter firmware can convert it into a command.

Note: When this option is selected, a BASIC application needs to be changed.

<Button>

[Load]

Reads the settings from a specified file. (Settings of all pages will be read.)

[Save]

Saves the settings in a specified file. (Settings of all pages will be saved.)

[Download]

Downloads the settings to the printer. (Settings of all pages will be downloaded.)

[Get printer param.]

Retrieves the settings from the printer. (Settings of all pages will be retrieved.)

Note: If no Initial Values & Table files have been sent to the printer before, no data cannot be obtained from the printer.

[Reset to default]

Restores the all settings to the default.

Z Mode FontTable Tab

File name: Reset to default...

Z Font Co..	Z Font Name	Z Font Kind	Min.Width	Min.Height	TPCL Font Type	TPCL Font Code	BMP Width
0	Z:0.FNT	Scalable	0	0	TrueType Font	Z0	0
1	Z:1.FNT	Bitmap Monospace	5	9	Bitmap Font	ZA	5
2	Z:2.FNT	Bitmap Monospace	5	9	Bitmap Font	ZA	5
3	Z:3.FNT	Bitmap Monospace	5	9	Bitmap Font	ZA	5
4	Z:4.FNT	Bitmap Monospace	5	9	Bitmap Font	ZA	5
5	Z:5.FNT	Bitmap Monospace	5	9	Bitmap Font	ZA	5
6	Z:6.FNT	Bitmap Monospace	5	9	Bitmap Font	ZA	5
7	Z:7.FNT	Bitmap Monospace	5	9	Bitmap Font	ZA	5
8	Z:8.FNT	Bitmap Monospace	5	9	Bitmap Font	ZA	5
9	Z:9.FNT	Bitmap Monospace	5	9	Bitmap Font	ZA	5

Z font
 Code: Font name: Font kind: Minimum width: Minimum height:

TPCL font
 Type: Code: Inter-character space: Store in:
 Width correction factor: Cap height correction factor: Descender correction factor:

<Button>

[Add]

Adds a new line to the font conversion table.

When a font code (a character from 0 to 9 and A to Z) assigned to an added font is not determined (in the case CW command is used), add a new line and enter an appropriate value for the added font.

[Change]

Changes an existing setting.

Select the line to be change and then click [Change].

[Delete]

Deletes a line added by [Add].

* Only the lines added can be deleted.

Select the line to be deleted and then click [Delete].

[OK]

Updates the display to reflect the changes made with [Add] or [Change] in the table.

[Cancel]

Cancels the changes made with [Add] or [Change].

[Load]

Reads the settings from a specified file. (Settings of all pages will be read.)

[Save]

Saves the settings in a specified file. (Settings of all pages will be saved.)

[Download]

Downloads the settings to the printer. (Settings of all pages will be downloaded.)

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[Get printer param.]

Retrieves the settings from the printer. (Settings of all pages will be retrieved.)

Note: If no Initial Values & Table files have been sent to the printer before, no data cannot be obtained from the printer.

[Reset to default]

Restores all settings to the default.

Z font

Item	Description
Z Font Code	Font code for Zebra font (0 to 9, A to Z) is displayed.
Z Font Name	Specifies a file name of the Zebra font. Note: Storage location of the file must be specified, like "Z:A.FNT". Z:ROM,R:RAM,B:FLASH CARD,E:COMPACT FLASH,A:ON BOARD FLASH
Z Font Kind	Selects a Zebra font type from the following three: S: Scalable (0 font) M: Bitmap Monospace (A to H font) P: Bitmap Proportional (P to V) Note: Set a proper value according to the ZPL II Specification.
Minimum width	Sets the minimum width of the selected font in units of dots. Note 1: Set a proper value according to the ZPL II Specification. Note 2: Be sure to set "0" for the scalable font.
Minimum height	Set the minimum height of the selected font in units of dots. Note 1: Set a proper value according to the ZPL II Specification. Note 2: Be sure to set "0" for the scalable font.

TPCL font

Item	Description
Font type	Selects a TEC font type from the following 4 types: B: Bitmap O: Outline G: Writable character T: TrueType
Font Code	Specifies a TEC font which the Zebra font is converted into. Note: Set a proper value according to the External Equipment Interface Specification (TPCL command manual).
BMP Width correction factor	Sets the minimum width of the selected TEC bitmap and writable character in units of dots. Basically, the width of the original sized font (no magnification) should be specified. Note: Be sure to set "0" for the outline/TTF.
BMP Cap height correction factor	Sets the minimum cap height of the selected TEC bitmap and writable character in units of dots. (*1) Basically, the cap height of the original sized font (no magnification) should be specified. Note: Be sure to set "0" for the outline/TTF.
BMP Descender correction factor	Sets the minimum descender size of the selected TEC bitmap and writable character in units of dots. (*2) Basically, the descender size of the original sized font (no magnification) should be specified. Note: Be sure to set "0" for the outline/TTF.
Outline Cap height correction factor	Sets the ratio of the cap height to the height of the selected TEC outline and TrueType font in units of percentage. (1 = 0.1%) Note 1: The sum of this value and that of the descender correction factor below must be 1000. Note 2: Be sure to set "0" for the bitmap/writable character.
Outline Descender correction factor	Sets the ratio of the descender size to the height of the selected TEC outline and TrueType font in units of percentage. (1 = 0.1%) Note 1: The sum of this value and that of the cap height correction factor above must be 1000. Note 2: Be sure to set "0" for the bitmap/writable character.
Outline Width correction factor	Sets the width correction factor for the selected TEC outline and TrueType font in units of percentage. (1 = 1%, Range: 50 to 300, 100% = No correction) Note: Be sure to set "0" for the bitmap/writable character.
Outline height correction factor	Sets the height correction factor for the selected TEC outline and TrueType font in units of percentage. (1 = 1%, Range: 50 to 300, 100% = No correction) Note: Be sure to set "0" for the bitmap/writable character.
BMP Inter-character space	Sets the inter-character space correction factor for the selected TEC bitmap and writable characters in units of dots. (0 dot = No correction) Note: Be sure to set "0" for the outline/TTF.
Outline inter-character	Sets the ratio of the inter-character space correction factor to the character width of the selected TEC outline and TrueType font in units of percentage. (1

Item	Description
space	= 0.1%, 0% = No correction) Note: Be sure to set "0" for the bitmap/writable character
Drive (Store in)	Specifies the storage location of the selected TEC font. Note: Set a proper value according to the External Equipment Interface Specification (TPCL command manual).

Note 1: "Cap height" is the height of characters above the baseline

Note 2: "Descender" is the height of characters below the base line.

Z Mode DriveMapping Tab

Sets how to assign the printer driver specified in the command to the one in TPCL.

<Setting items>

[TPCL drive]

Sets the TPCL drive corresponding to the ZPL drive.

<Button>

[Load]

Reads the settings from a specified file. (Settings of all pages will be read.)

[Save]

Saves the settings in a specified file. (Settings of all pages will be saved.)

[Download]

Downloads the settings to the printer. (Settings of all pages will be downloaded.)

[Get printer param.]

Retrieves the settings from the printer. (Settings of all pages will be retrieved.)

Note: If no Initial Values & Table files have been sent to the printer before, no data cannot be obtained from the printer.

[Reset to default]

Restores all settings to the default.

Z Mode ResponseCommand Tab

The screenshot shows a software interface with a tabbed menu at the top. The active tab is 'Z Mode ResponseCommand'. Below the tabs, there is a 'File name:' label followed by a text input field and a 'Reset to default...' button. Below this, there are 15 rows, each with a label and a text input field. The labels are: HI Command, HM Command, HS-1 Command, HS-2 Command, HS-3 Command, HQMA Command, HQMI Command, HQOD Command, HQPH Command, HQES Command, HQHA Command, HQJT Command, HQPP Command, HQSN Command, and HQUI Command. At the bottom of the interface, there are four buttons: 'Load...', 'Save...', 'Downlod...', and 'Get printer param.'.

Sets the response data to the ZPL command.

<Setting items>

[HI command]

Sets the response data to the HI command.

[HM command]

Sets the response data to the HM command.

[HS-1 command]

Sets the response data to the HS-1 command.

[HS-2 command]

Sets the response data to the HS-2 command.

[HS-3 command]

Sets the response data to the HS-3 command.

[HQMA command]

Sets the response data to the HQMA command.

[HQMI command]

Sets the response data to the HQMI command.

[HQOD command]

Sets the response data to the HQOD command.

[HQPH command]

Sets the response data to the HQPH command.

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[HQES command]
Sets the response data to the HQES command.

[HQHA command]
[Sets the response data to the HQHA command.

[HQJT command]
Sets the response data to the HQJT command.

[HQPP command]
Sets the response data to the HQPP command.

[HQSN command]
Sets the response data to the HQSN command.

[HQUI command]
Sets the response data to the HQUI command.

ZPL Command	Character string	Data length	Response data
HI	Printer model name - print head resolution (dpi)	Variable length Omissible	(e.g.) "B-SX4-200dpi" Max. 63 bytes
		1	Comma
	Version information	Variable length Omissible	(e.g.) "C5.4" Max. 63 bytes
		1	Comma
	Dots/mm	Variable length Omissible	8 12 Only numeric values are effective.
		1	Comma
	Memory	Variable length Omissible	"512KB" "1024KB" "2048KB" "4096KB" "8192KB"
		1	Comma
	Option information	Variable length Omissible	"CUTTER DETECTED": When the cutter module is installed. Max. 63 bytes
HM	Total RAM size	Variable length Omissible	(e.g.) "8192" Only numeric values are effective.
		1	Comma
	Max. RAM size	Variable length Omissible	(e.g.) "8192" Only numeric values are effective.
		1	Comma

ZPL Command	Character string	Data length	Response data
	Currently available RAM size	Variable length Omissible	(e.g.) Available RAM size Only numeric values are effective.
HS String 1	Communication Setting	3 Omissible	For details, refer to ZPLI II Manual. Enter bit data in the Decimal ASCII format. (e.g.) 7 th bit is ON. Hex.: 0x80 -> Decimal: 128 Data to be sent: "128" Only numeric values are effective.
		1	Comma
	Paper out flag	1 Omissible	0 1: No paper Only numeric values are effective.
		1	Comma
	Pause flag	1 Omissible	0 1: In a pause state Only numeric values are effective.
		1	Comma
	Label length	Variable length Omissible	Label length Only numeric values are effective..
		1	Comma
	Number of formats in receive buffer	Variable length Omissible	0 to 999 XA to XZ: Number of the formats Only numeric values are effective.
		1	Comma
	Buffer full flag	1 Omissible	0 1: Buffer full Only numeric values are effective.
		1	Comma
	Communications diagnostic mode flag	1 Omissible	0 1: In dump mode Only numeric values are effective.
		1	Comma
	Partial format flag	1 Omissible	0 1: Command is being analyzed. Only numeric values are effective.
		1	Comma
	Unused	3 Omissible	000 Only numeric values are effective.
	1	Comma	
Corrupt RAM flag	1 Omissible	0 1 Only numeric values are effective.	
	1	Comma	

ZPL Command	Character string	Data length	Response data
	Temperature range	1 Omissible	0 1: Abnormal (Low temperature) Only numeric values are effective.
		1	Comma
	Temperature range	1 Omissible	0 1: Abnormal (High temperature) Only numeric values are effective.
		1	Comma
HS String 2	Function settings	3 Omissible	For details, refer to ZPLI II Manual. Enter bit data in the Decimal ASCII format. (e.g.) 7 th bit is ON. Hex.: 0x80 -> Decimal: 128 Data to be sent: "128" Only numeric values are effective.
		1	Comma
	Unused	1 Omissible	0 Only numeric values are effective.
		1	Comma
	Head up flag	1 Omissible	0: Print head is closed. 1: Print head is opened. Only numeric values are effective.
		1	Comma
	Ribbon out flag	1 Omissible	0 1: No ribbon Only numeric values are effective.
		1	Comma
	Thermal transfer mode flag	1 Omissible	0 1: Thermal transfer Only numeric values are effective.
		1	Comma
	Print mode	1 Omissible	0: Rewind 1: Peel-off 2: Tear-off 3: Cutter 4: Applicator 5: Delayed cut 6: Reserved ** 7: Reserved ** Only numeric values are effective..
		1	Comma
	Print width mode	1 Omissible	6 Only numeric values are effective.
		1	Comma
	Label waiting flag	1 Omissible	0 1: Waiting for the printed label removed. Only numeric values are effective.
		1	Comma

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ZPL Command	Character string	Data length	Response data
	Labels remaining in batch	Variable length Omissible	The number of labels unprinted Only numeric values are effective.
		1	Comma
	Format while printing flag	1 Omissible	1 Only numeric values are effective.
		1	Comma
	Number of graphic images stored in memory	Variable length Omissible	The number of stored graphics Only numeric values are effective.
HS String 3	Password	4 Omissible	(e.g.) "1234" Fixed to 4 bytes
		1	Comma
	Static RAM	1 Omissible	0: Static RAM not installed 1: Static RAM installed Only numeric values are effective.
HQMA	Head replacement interval	Variable length Omissible	50 Only numeric values are effective.
		1	Comma
	Head replacement frequency	Variable length Omissible	0 Only numeric values are effective.
		1	Comma
	Head cleaning interval	Variable length Omissible	0 Only numeric values are effective.
	Head cleaning frequency	Variable length Omissible	0 Only numeric values are effective.
		1	Comma
	Print replacement alert	Variable length Omissible	"NO" Max. 63 bytes
		1	Comma
	Print cleaning alert	Variable length Omissible	"NO" Max. 63 bytes
	Units	Variable length Omissible	"I" Max. 63 bytes

ZPL Command	Character string	Data length	Response data
HQMI	Clean message	Variable length Omissible	"PLEASE CLEAN PRINT HEAD" Max. 63 bytes
		1	Comma
	Replace message	Variable length Omissible	"PLEASE REPLACE PRINT HEAD" Max. 63 bytes
HQOD	Total nonresettable	Variable length Omissible	Printing distance Only numeric values are effective.
		1	Comma
	User resettable CNTR1	Variable length Omissible	Printing distance Only numeric values are effective.
		1	Comma
HQPH	User resettable CNTR2	Variable length Omissible	Printing distance Only numeric values are effective.
	Last cleaned	Variable length Omissible	Printing distance Only numeric values are effective.
		1	Comma
HQES	Distance 1	Variable length Omissible	Printing distance Only numeric values are effective.
	Errors	Character string 19 bytes	Error information (e.g.) 1 00000000 0000000B Less than 19 bytes: A leading space is filled. 19 bytes or more: The 20th and later bytes are omitted.
		1	Comma
	Warnings	Character string 19 bytes	Warning information (e.g.) 1 00000000 00000001 Less than 19 bytes: A leading space is filled. 19 bytes or more: The 20th and later bytes are omitted.
HQHA	MAC address	Character string 17 bytes	MAC address (e.g.) 12:34:56:78:90:AB Less than 17 bytes: A leading space is filled. 17 bytes or more: The 18th and later bytes are omitted.
HQJT	Print head test result	Character string 18 bytes	Print head test result (e.g.) 1,M,0250,1200,0032 * A comma is also handled as the string information since only one parameter exists. Less than 18 bytes: A leading space is filled.

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ZPL Command	Character string	Data length	Response data
			18 bytes or more: The 19th and later bytes are omitted.
HQPP	MFG	Character string Max. 30 bytes	Manufacturer 30 bytes or more: The 31st and later bytes are omitted.
		1	Comma
	CMD	Character string Max. 30 bytes	Command 30 bytes or more: The 31st and later bytes are omitted.
		1	Comma
	MDL	Character string Max. 30 bytes	Model name 30 bytes or more: The 31st and later bytes are omitted.
HQSN	Serial number	Character string Max. 35 bytes	Printer serial number 35 bytes or more: The 36th and later bytes are omitted.
HQUI	PID	Character string 4 bytes	PID of USB Less than 4 bytes: A leading space is filled. 4 bytes or more: The 5th and later bytes are omitted.
		1	Comma
	Release version	Character string 5 bytes	Release version Less than 5 bytes: A leading space is filled. 5 bytes or more: The 6th and later bytes are omitted.

<Button>

[Load]

Reads the settings from a specified file. (Settings of all pages will be read.)

[Save]

Saves the settings in a specified file. (Settings of all pages will be saved.)

[Download]

Downloads the settings to the printer. (Settings of all pages will be downloaded.)

[Get printer param.]

Retrieves the settings from the printer. (Settings of all pages will be retrieved.)

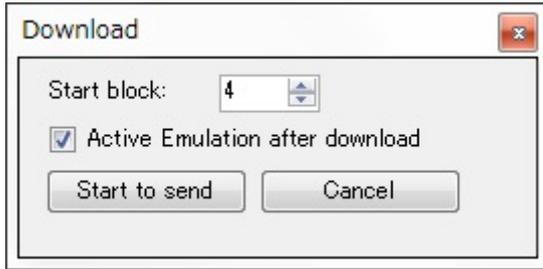
Note: If no Initial Values & Table files have been sent to the printer before, no data cannot be obtained from the printer.

[Reset to default]

Restores all settings to the default.

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□ Download menu



[Start block]

Sets the parameter saving area.

Default	Other than B-EX4T2-H (600dpi) : 4 B-EX4T2-H (600dpi) : 3
Range	0 to 23

[Active Emulation after download]

When it is selected, Emulation starts after downloading.

[Start to send]

Starts the parameter download.

[Cancel]

Cancels the process.

D Mode Initial values setting

The D Mode default value can be set.

D Mode InitValue Tab

Sets the default value if the command or parameter is omitted in D Mode and the movement in a converter.

<Setting item>

[Backup (Reverse) Speed]

Default	3.0 ips
Option	2.0 ips, 3.0 ips

[British Pound]

Default	Disable
Option	Disable, Enable

[Comm Heat Commands]

Default	Enable
Option	Disable, Enable

[Comm Speed Commands]

Default	Enable
Option	Disable, Enable

[Comm TOF Commands]

Default	Enable
Option	Disable, Enable

[Continuous Label Length]

Default	7.00
Range	0.4 to 59.05

[Control Codes]

Default	Standard
Option	Standard, Alternate, Alternate-2

[Disable Symbol Set Selection]

Default	Disable
Option	Disable, Enable

[Feed Speed]

Default	5.0 ips
Option	3.0 ips, 5.0 ips, 6.0 ips, 8.0 ips, 10.0 ips

[Feedback Mode]

デフォルト値	Disable
Option	Disable, Enable

[Format Attributes]

Default	XOR
Option	XOR, Transparent

[Heat]

デフォルト値	10
Range	0 to 30

[Label Rotation]

Default	None
Option	Rotate 180, None

[Label Width]

Default	4.09
Range	0.75 to 4.09

[Maximum Length Ignore]

Default	Normal processing
Option	Normal processing, Ignore

[Maximum Length]

Default	8.00
Option	0.40 to 59.05

[Media Type]

Default	Other than B-EX4D2-G/T (203dpi/300dpi): Thermal Transfer B-EX4D2-G/T (203dpi/300dpi): Direct
Option	Other than B-EX4D2-G/T (203dpi/300dpi): Direct, Thermal Transfer B-EX4D2-G/T (203dpi/300dpi): Direct

[Peel Mode]

Default	Disable
Option	Disable, Enable

[Present Distance]

Default	0.00
Range	0.00 to 4.00

[Print Speed]

Default	5.0 ips
Option	3.0 ips, 5.0 ips, 6.0 ips, 8.0 ips, 10.0 ips

[Ribbon Saver Enable]

Default	Auto
Range	Auto, Disable

[Row Offset]

Default	0.00
Range	0.00 to 1.96

[SOP Emulation]

Default	Disable
Range	Allegro, Prodigy Plus, Prodigy, Disable

[Sensor Type]

Default	Gap (edge)
Option	Gap (edge), Continuous, Reflective

[Single Byte Symbol Set]

Default	PM
Range	This setting cannot be changed.

[Software Switch]

Default	Processed
Option	Processed, Ignore

[Unit of Measure]

Default	Imperial
Option	Metric, Imperial

<Button>

[Load]

Reads the settings from a specified file. (Settings of all pages will be read.)

[Save]

Saves the settings in a specified file. (Settings of all pages will be saved.)

[Download]

Downloads the settings to the printer. (Settings of all pages will be downloaded.)

[Get printer param.]

Retrieves the settings from the printer. (Settings of all pages will be retrieved.)

Note: If no Initial Values files have been sent to the printer before, no data cannot be obtained from the printer.

[Reset to default]

Restores the all settings to the default.

D Mode ResponseCommand Tab

D Mode InitValue
D Mode ResponseCommand

File name:

Interpreter busy (imaging):

Paper out or fault:

Ribbon out or fault:

Printing batch:

Busy printing:

Printer paused:

Label presented:

(Internal)Rewinder out or fault:

Cutter Fault:

Paper Out:

Reset to default...

Ribbon Saver Fault:

Print Head Up:

Top of Form Fault:

Ribbon Low:

Ready (no data or signal):

Waiting for Signal:

Waiting for Data:

Com1 has data not parsed:

Load...
Save...
Download...
Get printer param.

Sets the response data to the D Mode command.

<Setting items>

[Interpreter busy (imaging)]

Default	None
Option	None, Yes, No

[Paper out or fault]

Default	None
Option	None, Yes, No

[Ribbon out or fault]

Default	None
Option	None, Yes, No

[Printing batch]

Default	None
Option	None, Yes, No

[Busy printing]

Default	None
Option	None, Yes, No

[Printer paused]

Default	None
Option	None, Yes, No

[Label presented]

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Default	None
Option	None, Yes, No

[(Internal) Rewinder out or fault]

Default	None
Option	None, Yes, No

[Cutter Fault]

Default	None
Option	None, Yes, No

[Paper Out]

Default	None
Option	None, Yes, No

[Ribbon Saver Fault]

Default	None
Option	None, Yes, No

[Print Head Up]

Default	None
Option	None, Yes, No

[Top of Form Fault]

Default	None
Option	None, Yes, No

[Ribbon Low]

Default	None
Option	None, Yes, No

[Ready (no data or signal)]

Default	None
Option	None, Yes, No

[Waiting for Signal]

Default	None
Option	None, Yes, No

[Waiting for Data]

Default	None
Option	None, Yes, No

[Com1 has data not parsed]

Default	None
Option	None, Yes, No

<Button>

[Load]

Reads the settings from a specified file. (Settings of all pages will be read.)

[Save]

Saves the settings in a specified file. (Settings of all pages will be saved.)

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[Download]

Downloads the settings to the printer. (Settings of all pages will be downloaded.)

[Get printer param.]

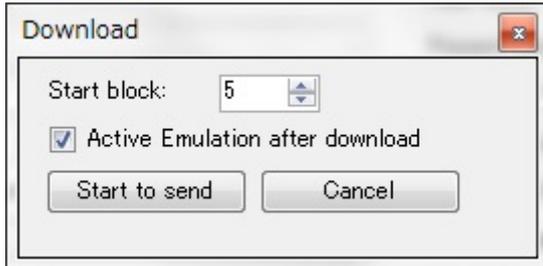
Retrieves the settings from the printer. (Settings of all pages will be retrieved.)

Note: If no Initial Values files have been sent to the printer before, no data cannot be obtained from the printer.

[Reset to default]

Restores all settings to the default.

□ Download menu



[Start block]

Sets the parameter saving area.

Default	5
Range	0 to 23

[Active Emulation after download]

When it is selected, Emulation starts after downloading.

[Start to send]

Starts the parameter download.

[Cancel]

Cancels the process.

5. Appendix

Error Message List

Message	Explanation
Login Dialog	
The password is not correct. Enter a correct password. The password is case-sensitive.	The entered password is incorrect.
Password Change Dialog	
The old password is not correct. Enter a correct password. The password is case-sensitive.	The entered password and the currently effective password do not match.
The new password and the confirmation password do not match. Enter a correct password. The password is case-sensitive.	The new password and the password entered for confirmation do not match.
Parameter Setting Screen	
The configuration file for a wrong printer was specified. Select a file in the correct format.	The specified file cannot be read. The format of specified file is different from that of the printer configuration file.
Saving data in the specified file failed. Check if the file is writable.	Data cannot be written into the specified file.
Wrong values were entered. Tab Group Parameter Tab Group Parameter	The entered values were wrong.
Firmware Download Tab	
The specified file is not a ROM file for the printer. Select the file in the proper format.	The specified file cannot be read. The format of the specified file is different from that of the ROM file for the printer.
The specified file is the ROM file for the printer model different from the specified one on the Printer Setting screen. Select the proper ROM file.	The specified ROM file is not for the printer model specified on the Printer Setting screen.
Tool Tab	
Reading the specified file failed. Check if the file is readable.	The specified file cannot be read.
Create External Character Tab	
No registrable monochrome bitmap file is found in the specified folder. Choose the folder containing a proper file.	No effective monochrome bitmap file is found in the specified folder. ▪ File name ▪ Bitmap format ▪ Bitmap size

Selected file is not a monochrome bitmap file. Select a file in the correct format.	The specified file is not a monochrome bitmap file.
The specified file exceeds the maximum width or height of the external character. Specify the file with the proper size.	The width or height of the bitmap exceeds the maximum number of dots as an external character.
Creating an external character file failed. Check if the bitmap file in the bitmap list is readable.	Bitmap file in the bitmap list cannot be read. Creating an External Character command failed.
Saving data in the specified file failed. Check if the file is writable.	Data cannot be written into the specified file.
Test Print Tab	
Generation of print data failed. Restart the Product, and retry the operation. If printing cannot be performed, re-install the Product.	The file where the image to be printed is stored cannot be read. Generating a print command failed.
Completion Screen	
Saving data in the specified file failed. Check if the file is writable.	Data cannot be written into the specified file.



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