

TOSHIBA

TOSHIBA Label Printer

BCP Setting Tool B-EP series Operation Manual

2nd 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-EP2DL-G (203dpi)
- B-EP4DL-G/T (203dpi/300dpi)

2. Start-up

Printer

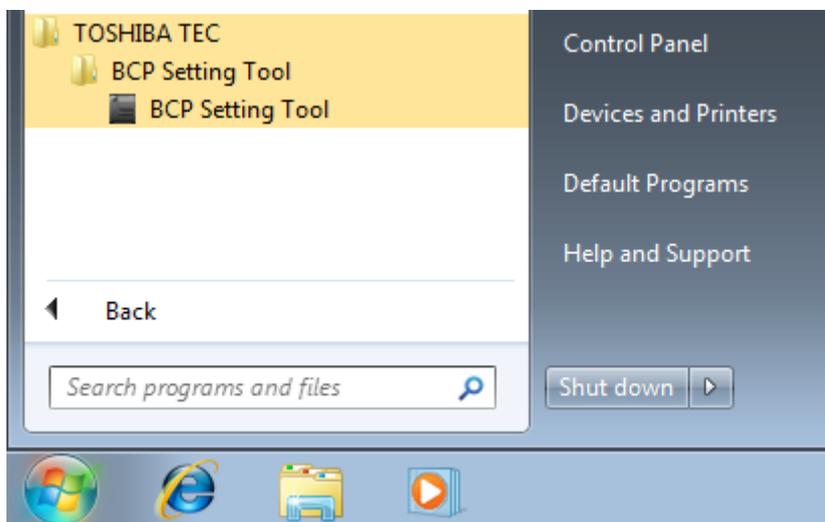
Please start the printer in following modes for using each function.

Feature	Printer Mode
Parameter Setting	SYSTEM MODE FOR SERVICE PERSONS AND SYSTEM ADMINISTRATORS
Firmware Download	DOWNLOAD MODE
Displaying the maintenance information	SYSTEM MODE FOR SERVICE PERSONS AND SYSTEM ADMINISTRATORS
Obtaining the log	SYSTEM MODE FOR SERVICE PERSONS AND SYSTEM ADMINISTRATORS
Maintenance counter clear	SYSTEM MODE FOR SERVICE PERSONS AND SYSTEM ADMINISTRATORS
Parameter clear	SYSTEM MODE FOR SERVICE PERSONS AND SYSTEM ADMINISTRATORS
Print head check	TPCL, TPCL1 MODE
Reset	Reset is possible in all the modes.
Setup of the data Storage area	LABEL, RECEIPT, RECEIPT1, TPCL, and TPCL1 MODE
File transmission	File transmission is possible in all the modes.
Print Test	TPCL, TPCL1 MODE

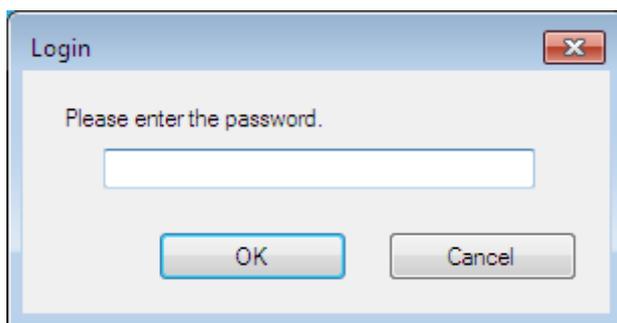
*Additional modes supported from V1.2 are LABEL, RECEIPT and RECEIPT1.

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.



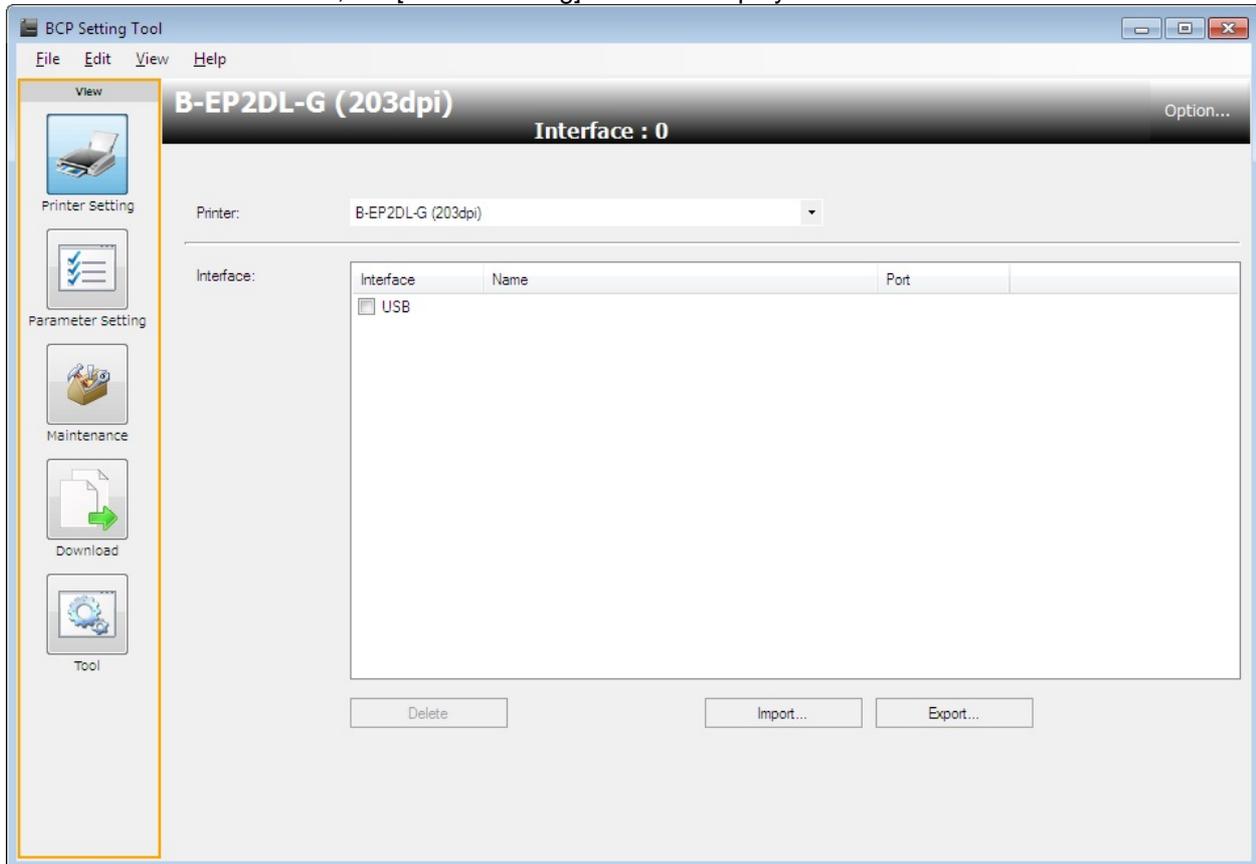
Enter the password, then click [OK].
When [Cancel] is clicked, the [Login] screen is closed.
The entered password is displayed with hidden characters.
When the password matched, the Product starts.
If a wrong password is entered, the error message is displayed.

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



Menu bar

Menus to support each function are provided.

Menu icon

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

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.	
	▪ Firmware Download Tab:	Downloads printer firmware
	▪ BASIC Download Tab:	Downloads the BASIC program
	▪ Create HTML/XML ROM Tab:	Creates HTML/XML ROM file
Tool:	Other functions	
	▪ Tool Tab:	Sends a selected file in 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.

Header view

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

[Options...] button

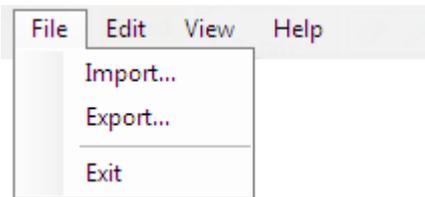
Displays the [Environment] screen which allows changing the operating conditions for the Product.
The Product needs to be restarted for the changed language take effect.

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...]

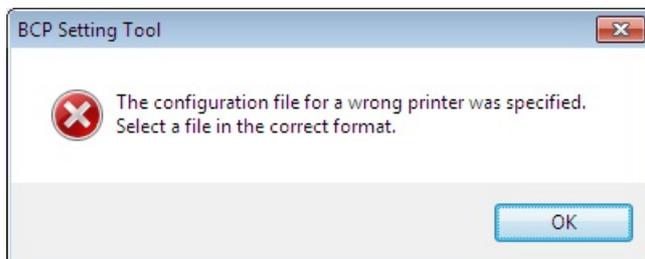
This menu is used to retrieve setup information from a specified file.

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.



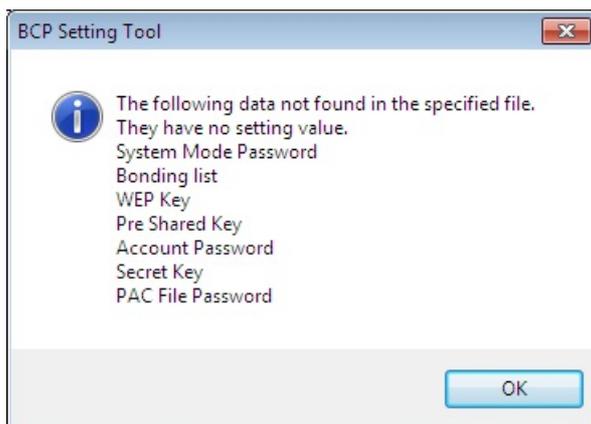
When [Yes] is clicked, the printer model selected on the [Printer Setting] screen is changed and a file import is executed.

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.

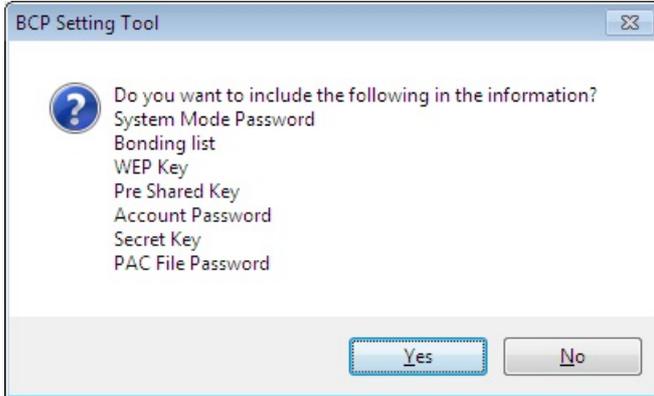
This menu is selectable only when the [Parameter Setting] screen is activated.

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.

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].

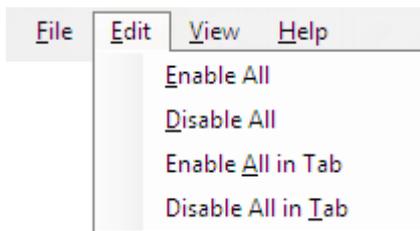
[Exit]

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

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

When the 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.

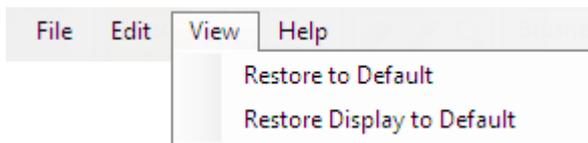
This menu is selectable only when the [Parameter Setting] screen is activated.

[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



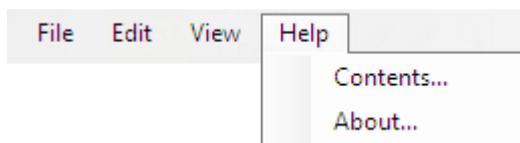
[Restore to Default]

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.

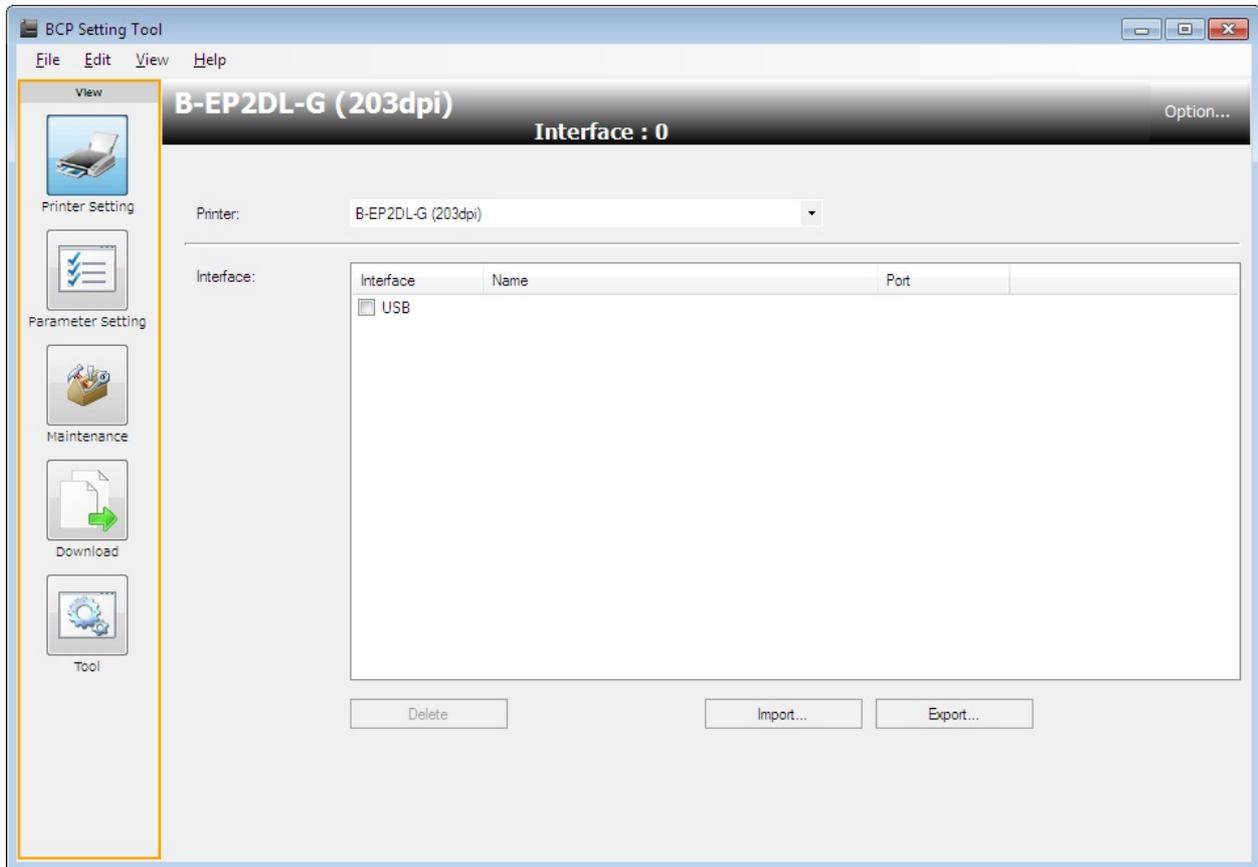
[About...]

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, and the following screen is displayed. The setting is not saved by a member of the Users.



[Printer]

Select a printer model to be connected.

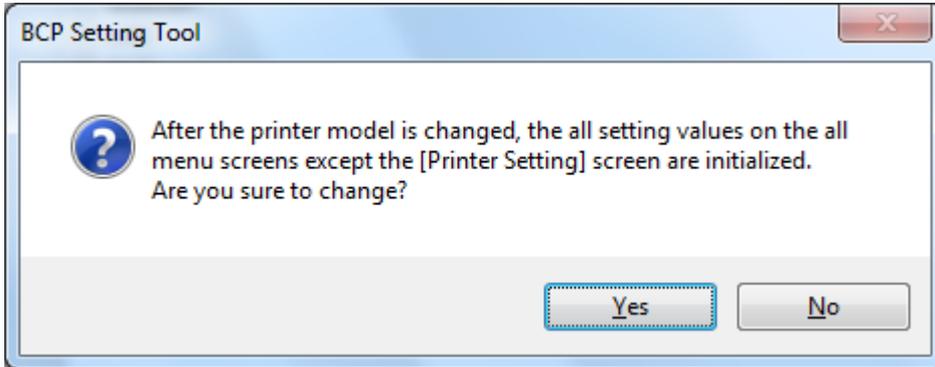
Restart this Product for the changed setting to take effect.

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]

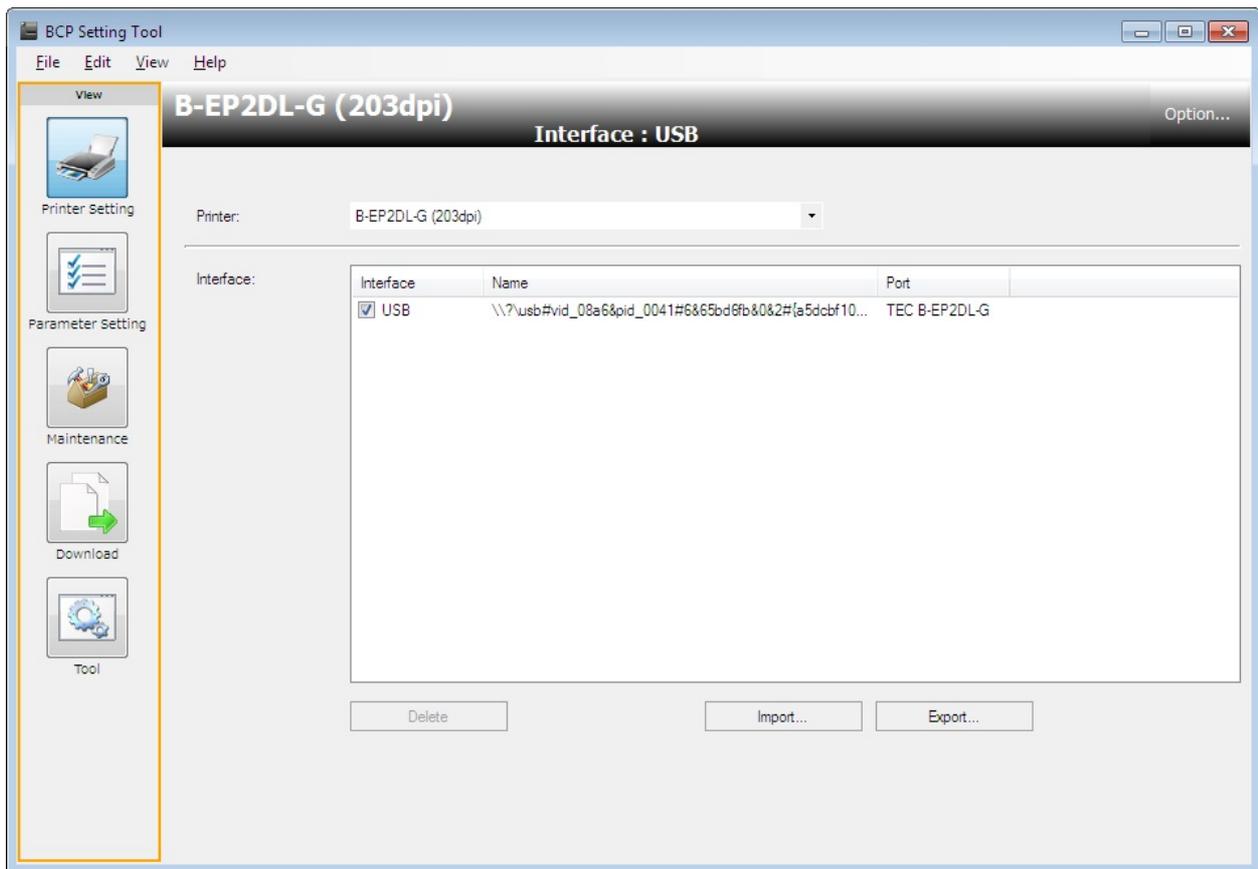
Select an interface to be used.

The default is not selected during the installation.

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

Options	USB
---------	-----

USB



[Serial Number]

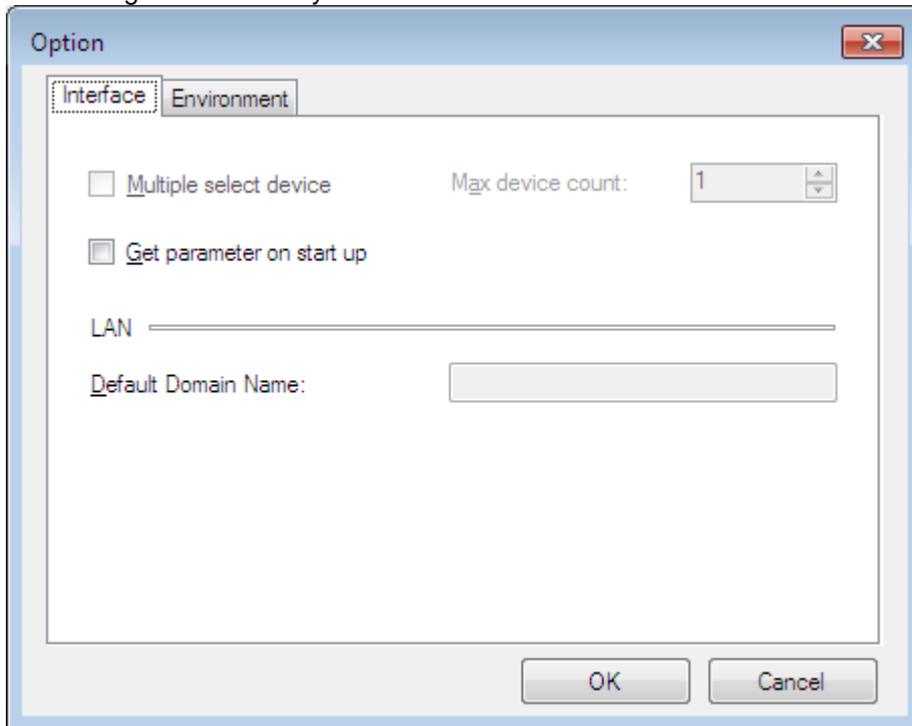
On connecting Printer and USB cable, it enables automatically.

Environment

Set the operating environment for the 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.



The screenshot shows a dialog box titled "Option" with a close button (X) in the top right corner. It has two tabs: "Interface" and "Environment". The "Environment" tab is selected. The dialog contains the following controls:

- A checkbox labeled "Multiple select device" which is unchecked.
- A label "Max device count:" followed by a spin box containing the number "1".
- A checkbox labeled "Get parameter on start up" which is unchecked.
- A label "LAN" followed by a horizontal line.
- A label "Default Domain Name:" followed by a text input field.
- At the bottom, there are two buttons: "OK" and "Cancel".

[Multiple select device]

Setting change is not possible.

[Max device count]

Setting change is not possible.

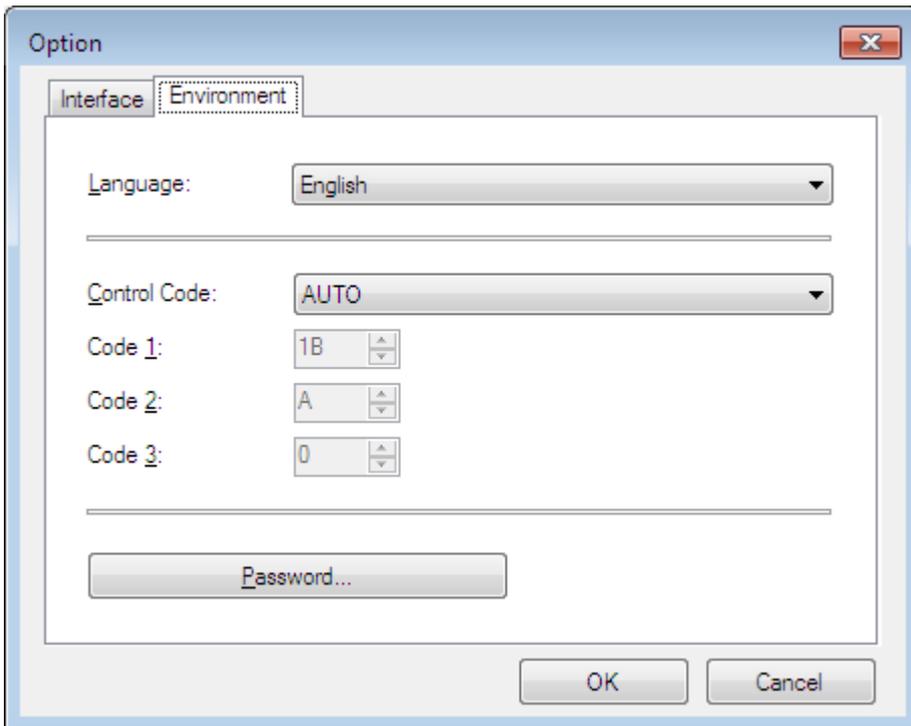
[Get parameter on start up]

Parameters will be retrieved during application startup time.

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

[Default Domain Name]

Setting change is not possible.



[Language]

Select a language used to display the Product.

Restart the Product for the changed language to take effect.

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

If OS language is Japanese, Japanese will be set as default. For other languages, English will be set as default.

Options	Japanese, English
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[Control Code]

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

The default right after the installation is "AUTO".

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

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

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

[Code 1]

Setting change is not possible.

[Code 2]

Setting change is not possible.

[Code 3]

Setting change is not possible.

[Password..]

Set a password to log in the Product.

No password is set right after the installation.

When you want to protect the 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 the Product and entry of the password is requested.

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

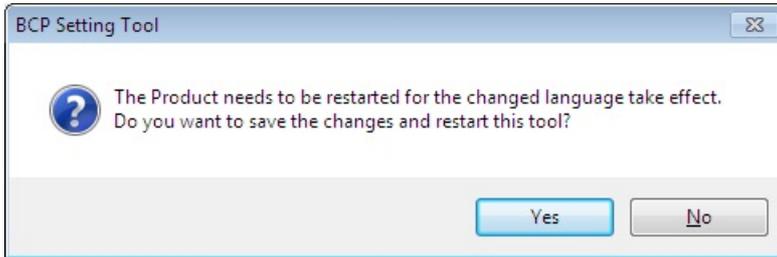
The password is case-sensitive.

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The password cannot be set when the 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.



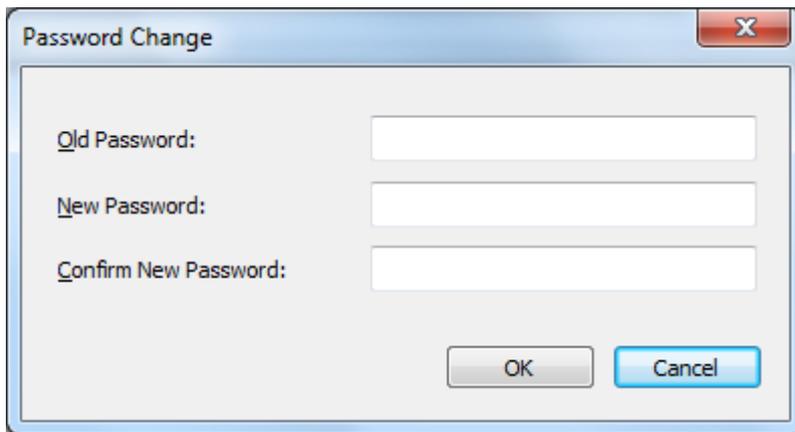
When [Yes] is clicked, the Product is restarted after saving the changes.

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:". The labels are underlined. At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

[Old Password]

When the password has been set, enter 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]

Enter 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-enter 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 [Old Password] is incorrect, or if the [New Password] and the [Confirm New Password] do not match, the error message appears.
Entering only the [Old Password] invalidates the password.

[Cancel]

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

Even while the confirmation message is displayed, the processing is 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 Download] tab page in the [Download] screen.
Get Printer Info	Obtains the latest self-diagnosis results from the printer 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.

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

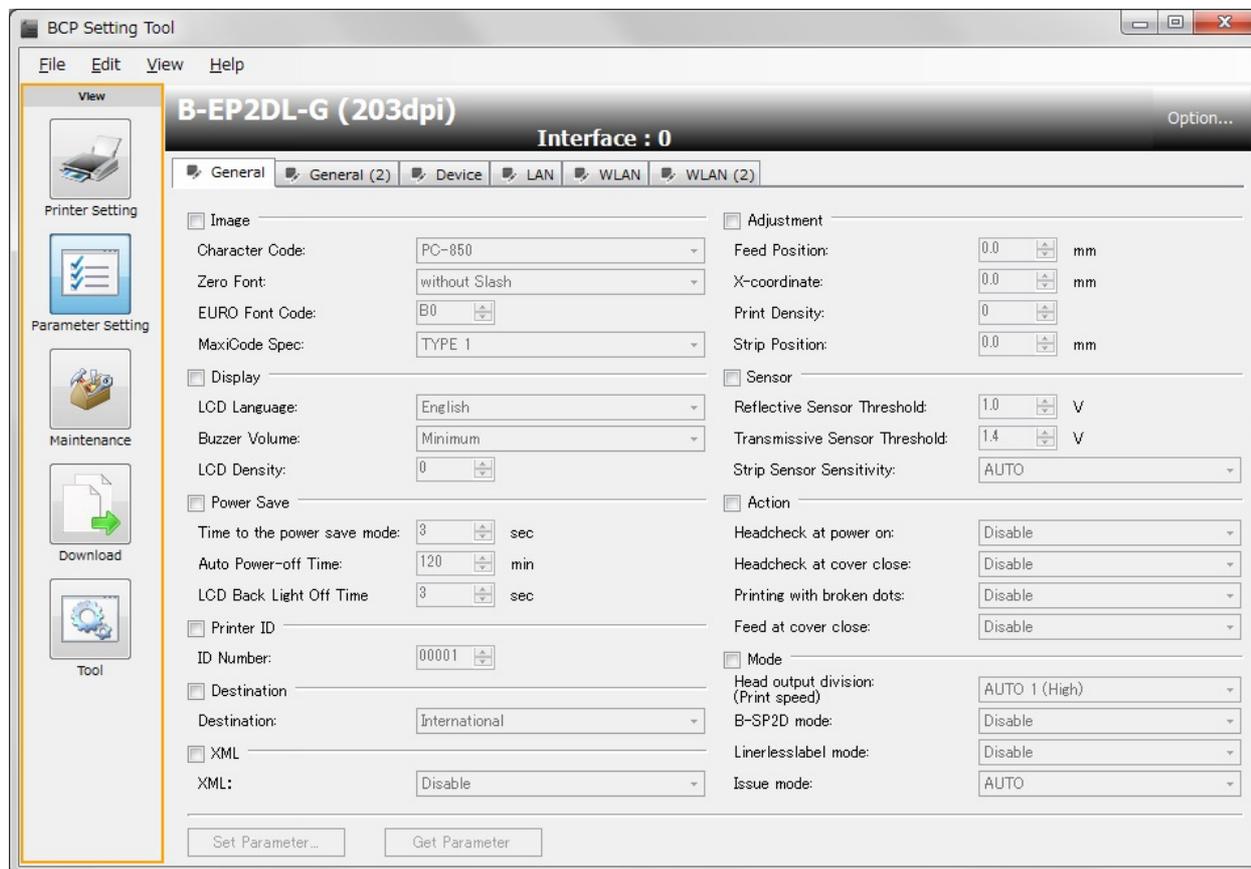
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	same message is displayed again, restart the printer.
Cannot confirm the printer is in online mode.	The processing was not executed as whether or not the printer is in online mode could not be confirmed. Check the communication conditions, then retry 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.
I failed to write the file.	Printer information or print log data obtained from the connected printer could not be saved in 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 the "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.
Not supported. ("Tab name"/"Group name"/"Control name")	Current firmware version does not support this parameter.
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. Please set the correct mode, refer " 3.Start up - Printer " for setting mode.
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 the 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 the 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 the all controls in the 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.

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

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

printers to be updated.

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 system mode for service persons and system administrators.

After downloading the setting values for the 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 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 system mode for service persons and system administrators.

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

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

General Tab

[Image] Group

[Character Code]:

Select 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]:

Select 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]:

Set 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]:

Select a type of barcode font to create a MaxiCode.

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

[Display] Group

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[LCD Language]:

Select a language of messages to be displayed on the panel.

Default	English
Options	English, German, French, Dutch, Spanish, Japanese, Italian

[Buzzer]:

Select buzzer volume.

Default	Minimum
Options	OFF, Minimum, Intermediate, Maximum

[LCD Density]:

Set a number for the panel contrast fine adjustment.

Default	0
Range	-5 to 5

[Power Save] Group

[Time to the power save mode]:

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

Enter a number.

Default	3
Range	0 to 30 (seconds)

[Auto Power-off Time]:

Set a period of time from when the printer ceased to be used until the printer power is automatically turned off.

When 0 is set, the power is not turned off automatically.

Enter a number.

Default	120
Range	0 to 300 (minutes)

[LCD Back Light Off Time]:

Set a period time from when the printer ceases to be used until the LCD backlight goes off.

Enter a number.

Default	3
Range	0 to 30 (seconds)

[Printer ID] Group

[ID Number]:

Assign the printer with an ID for identification.

This ID is used when IrDA: TEC Protocol is used.

Default	00001
Range	00000 to 65535

[Destination] Group

[Destination]:

Select a destination.

Default	International
Options	Japan, International

[XML] Group

[XML]:

Select whether or not XML is enabled.

To enable XML, select TPCL as a print command mode.

Default	Disable
Options	Disable, Enable

[Adjustment] Group

[Feed Position]:

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

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

When the parameter is not retrieved, the value on the PC set with the print position fine adjust command [AX] becomes 0.

Default	0.0 mm
Range	-50.0 to +50.0 mm

[X-coordinate]:

Set 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	-99.9 to +99.9 mm

[Print Density]:

Set a fine adjustment value for print density.

When the parameter is not retrieved, the value on the PC set with the print density fine adjust command [AY] becomes 0.

Default	0
Range	-30 to +30

[Strip Position]:

Set a fine adjustment value for strip position in units of 0.1 mm.

When the parameter is not retrieved, the value on the PC set with the print position fine adjust command [AX] becomes 0.

Default	0
Range	-2.0 to +3.0 mm

[Sensor] Group

[Reflective Sensor Threshold]:

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

Default	1.0 V
Range	0.0 to 4.0 V

[Transmissive Sensor Threshold]:

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

Default	1.4 V
Range	0.0 to 4.0 V

[Action] Group

[Headcheck at power on]:

Select whether or not broken head dot check is enabled when the power is turned on.

Default	Disable
Options	Disable, Enable

[Headcheck at cover close]:

Select whether or not broken head dot check is enabled when the power is turned on.

Default	Disable
Options	Disable, Enable

[Printing with broken dots]:

Select whether or not printing continues after a broken head dot error occurs.

Default	Disable
Options	Disable, Enable

[Feed at cover close]:

Select whether or not print position detection feed is performed after the cover is closed.

Default	Disable
Options	Disable, Enable

[Mode] Group

[Head output division]:

Select a head output division method.

Default	AUTO 1 (High)
Options	B-EP2DL-G (203dpi) : AUTO 1 (High), AUTO, 3 div. (Low), AUTO 2 B-EP4DL-G/T (203dpi/300dpi) AUTO 1 (High), AUTO, 6 div. (Low)

[B-SP mode]:

Select whether or not the compatible mode is enabled to obtain print results same as on the B-SP2D.

Default	Disable
Options	Disable, Enable

[Linerless label mode]:

Select whether or not labels without backing paper is used.

Default	Disable
Options	Disable, Enable

[Issue mode]:

Select printer's issue mode.

When "AUTO" is selected, operation depends on strip sensor status.

Default	AUTO
Options	AUTO, Batch, Strip

General (2) Tab

The screenshot shows the 'General (2)' tab of a printer configuration utility. The interface is organized into several sections, each with a checkbox and various configuration options:

- Command:** Control Code (AUTO), Print Command Mode (TPCL).
- BASIC:** Basic Interpreter (Disable), Basic Trace (Disable).
- Password:** System Mode Password (Disable), New Password (0000), Old Password (0000).
- Module:** Option Module (Disable).
- SHELL:** SHELL (Disable).
- Product:** Printer serial No. (empty field).
- Power:** Power off after error (5min).
- Battery:** Battery charge mode (Normal).
- Head:** Head output division command parameter (Enable).
- Printing operation detail:** Feed stop position after printing (Cut Position), Backfeed restriction (Enable), Backfeed after peel-off (Disable), Label width for peel-off issue (30mm or above).
- Setting:** Backlash Step 1 (1 mm), Backlash Step 2 (1 mm).

At the bottom of the window, there are two buttons: 'Set Parameter...' and 'Get Parameter'.

[Command] Group

[Control Code]:

Select a control code used for command analysis.

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

[Print Command Mode]:

Select an issue mode.

Default	TPCL
Options	LABEL, RECEIPT, RECEIPT1, ESC/POS, TPCL, TPCL1

[Basic] Group

[Basic Interpreter]:

Select whether or not the basic interpreter is enabled.

To enable the basic interpreter, select TPCL or TPCL1 as a print command mode.

Default	Disable
Options	Disable, Enable

[Basic Trace]:

Select whether or not the basic trace is enabled.

Default	Disable
Options	Disable, Enable

[Password] Group

[System Mode Password]:

Select whether or not the password used for entering 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]:

Set a password to be used for entering 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 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]:

Enter the password currently set on the printer.

This password is set to cancel a password for entering 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

[Module] Group

[Option Module]:

Select whether or not Bluetooth or wireless LAN optional module has been attached to the RS-232C model.

Default	Disable
Options	Disable, Enable

[SHELL] Group

[SHELL]:

This setting cannot be changed.

[Product] Group

[Printer Serial No.]:

The serial number specific to the printer is displayed.

This setting cannot be changed.

[Power] Group

[Power of after error]:

Select whether to turn off the printer when an error occurs on the printer.

When "5min" is selected, the printer will be turned off in 5 minutes after the occurrence of an error.

Default	5 min.
Options	Disable, 5 min.

[Battery] Group

[Battery charge mode]:

Select the battery charge mode.

Default	Normal
Options	Normal, Low, Low2

[Head] Group

[Head output division command parameter]:

Select whether to enable or disable the head output division parameter of AY command.

Default	Enable
Options	Disable, Enable

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[Printing operation detail] Group

[Feed stop position after printing]:

Select the position where the next label stops after the previous label is printed.

Default	Cut Position
Options	Cut Position, Head Position

[Backfeed restriction]:

Select whether or not to apply the restriction to the back feed operation.

Default	Enable
Options	Disable (Back feed is performed.), Enable (No back feed is performed.)

[Backfeed after peel-off]:

Select whether or not to perform a back feed from the peel-off position.

Default	Disable
Options	Disable, Enable

[Label width for peel-off issue]:

Set the label width for the peel-off issue on the B-EP2D-G (203dpi).

Default	30mm or above
Options	30mm or above, Under 30mm

[Setting] Group

[Backlash Step 1]:

This setting cannot be changed.

[Backlash Step 1]:

This setting cannot be changed.

Device Tab

The screenshot shows the 'Device' tab configuration window with the following settings:

- Bluetooth:** Enabled. Device Nickname: TOSHIBA TEC BT. Inquiry: Enabled. Security: No Security. Inquiry/Page Interval: 2048. Inquiry/Page Window: 36.
- USB:** Disabled. USB Serial Number: 8S01FA590001.
- IrDA:** IrDA I/F (Protocol): IrCOMM/IrOBEX. (Max.) Baud rate: 115200 bps. IrCOMM Status Response: Disabled.
- RS-232C:** Enabled. RS-232C I/F: Enable. Baud rate: 9600 bps. Parity: Even.
- SSP:** SSP Auth Type: Just Works.
- Bonding:** Registration Method: Overwrite.

No.	BD Address	PIN Code
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

[Bluetooth] Group

This group can be set up only on Bluetooth model printers.

[Bluetooth I/F]:

Select whether or not Bluetooth communication is enabled.

Default	Enable
Options	Disable, Enable

[Device Nickname]:

Assign a nickname to the Bluetooth device.
 This name is used for detection by other devices.
 Enter up to 32 alphanumeric characters.
 When no name is entered, "TOSHIBA TEC BT" is used.

[Inquiry]:

Select whether or not a response is made to an inquiry from the host.
 When selecting "Enable (60 seconds)", a response is made to an inquiry only within 60 seconds after the printer is turned on.

Default	Enable
Options	Disable, Enable(60 seconds), Enable

[Security]:

Set communication security.

Default	No Security
Options	No Security, Link Level

[Inquiry/Page Interval]:

Set an interval between responses to an inquiry or connection from the host.

Connectivity may be improved by decreasing the value under the environment where connection takes time.

Default	2048
Range	18 to 4096

[Inquiry/Page Window]:

Set s window of response to an inquiry or connection from the host.

Connectivity may be improved by increasing the value under the environment where connection takes time.

Default	36
Range	18 to 4096

[SSP] Group

[SSP Auth Type]:

Select the SSP Auth Type.

Default	Just Works
Options	Just Works, Numeric Comparison(No Input No Output), Numeric Comparison(Display Only), Numeric Comparison(Display YesNo)

[Bonding] Group

It takes time to register a bonding list.

[Bonding List]:

BD addresses and PIN codes of devices to be registered on the printer's bonding table are listed.

Bonding information is registered on the printer using a specified registration method.

Up to 10 information records can be registered.

By double-clicking bonding information, you can edit or delete the information.

Since PIN codes are security information, they are displayed as asterisks except when they are being entered.

[Registration Method]:

Select a method to register the bonding list on the printer.

When "Overwrite" is selected, the printer's bonding table is replaced with the bonding list information.

When no information is registered on the bonding list, you can initialize the printer's bonding table.

When "Addition" is selected, the information in the bonding list is added to the printer's current bonding table.

When the number of bonding information records registered on the printer exceeds 10, the oldest records are overwritten.

When the same BD address already exists, the bonding information having this address is overwritten.

When "*****" is set, bonding information except for "*****" becomes invalid.

Default	Overwrite
Options	Overwrite, Addition

[BD Address]:

Enter a BD address of a device you want to add to the bonding list, using 12 characters from "0" to "F".

Entering "*****" allows no connection destination to be specified.

[PIN Code]:

Enter the PIN code assigned to the device having the entered BD address, using one to 16 alphanumeric characters.

[USB] Group

[USB Serial Number]:

Select 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.

[IrDA] Group

[IrDA I/F (Protocol)]:

Select whether or not IrDA communication is enabled.

To enable it, select the protocol.

Default	IrCOMM/IrOBEX
Options	Disable, TEC Protocol, IrCOMM/IrOBEX

[(Max.) Baud rate]:

Set a baud rate for TEC Protocol communication or the maximum baud rate for IrCOMM/IrOBEX communication.

The baud rate for IrCOMM/IrOBEX communication is adjusted to a value enabling communication by the communicating device.

Default	115200 bps
Options	9600 bps, 19200 bps, 38400 bps, 57600 bps, 115200 bps

[IrCOMM Status Response]:

Select whether or not automatic status response is enabled in IrCOMM communication.

Default	Disable
Options	Disable, Enable

[RS-232C] Group

[RS-232C I/F]:

Select whether or not RS-232C communication is enabled.

To enable it, set a communication baud rate and parity.

Data length is fixed at 8 bits, the number of stop bit is fixed at 1 and flow control is fixed at XON/XOFF.

Default	Enable
Options	Disable, Enable

[Baud rate]:

Set a communication baud rate.

Default	9600 bps
Options	9600 bps, 19200 bps, 38400 bps, 57600 bps, 115200 bps

[Parity]:

Set communication parity.

Default	Even
Options	Even, None

LAN Tab

General General (2) Device LAN WLAN WLAN (2)

TCP/IP

WLAN I/F: Enable

IP Address: 192 . 168 . 254 . 254

Subnet Mask: 255 . 255 . 0 . 0

Default Gateway: 0 . 0 . 0 . 0

Protocol

LPR: Disable

Socket: Enable

Port Number: 8000

Server

DHCP: Disable

Input Type: HEX

DHCP ID:

WINS: Disable

Host Name:

WINS Server Address: 0 . 0 . 0 . 0

Set Parameter... Get Parameter

[TCP/IP] Group

[WLAN I/F]:

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

Default	Enable
Options	Disable, Enable

[IP Address]:

Sets an IP address.

Default	192.168.254.254
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

[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.

[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

[DHCP Client ID]:

Sets a DHCP Client ID.

When "HEX" is selected for [Input Type], set the ID using up to 64 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 32 alphanumeric characters.

[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 Extension:** Power Save: Enable
- WLAN Detail:** ESS ID: TOSHIBATEC, Beacon Transmitting Interval: 1000 msec, Roaming Threshold: 70, Country Code: [empty]
- 802.11b:** Channel: 1, Max Rate: 11 Mbps
- 802.11g:** Channel: 1, Max Rate: 54 Mbps
- RSSI:** RSSI value on LCD: Disable
- Priority AP:** Property: ANY SSID OFF, MAC Address 1-5: [empty]
- Authentication:** (1) Connect Mode: Infrastructure, (2) Encryption: Disable, (3) Network Authentication: Open System, (4) EAP Method: Disable
- 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 Extension] Group

[Power Save]:

Select whether or not to enable the power save function during a wireless LAN communication.

Default	Enable
Options	Disable, Enable

[WLAN Detail] Group

[ESS ID]:

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

Default	TOSHIBATEC
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[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

[802.11g] Group

[Channel]:

Sets a channel for IEEE 802.11g.

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

Default	1
Range	1 to 13

[Baud Rate]:

Selects the maximum transmission rate for IEEE 802.11g.

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

Default	54 Mbps
Options	54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps, 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 (Printer not supported), ANY SSID ON / Priority AP ON / Other AP ON (Printer not supported)

[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

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[(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
			EAP-MD5
			EAP-TLS
			EAP-TTLS
			LEAP
			LEAP (NetworkEAP)
			PEAP
			PEAP (w/o Cert.)
			EAP-FAST
	Shared Key	Disable	
		EAP-MD5	
	WEP104	Open System	Disable
			EAP-MD5
			EAP-TLS
			EAP-TTLS
			LEAP
			LEAP (NetworkEAP)
			PEAP
			PEAP (w/o Cert.)
			EAP-FAST
	Shared Key	Disable	
EAP-MD5			
TKIP	WPA-EAP	EAP-TLS	
		EAP-TTLS	
		LEAP	
		LEAP (NetworkEAP)	
		PEAP	
		PEAP (w/o Cert.)	

	AES	WPA-PSK	EAP-FAST
		WPA2-EAP	Disable
			EAP-TLS
			EAP-TTLS
			LEAP
			LEAP (NetworkEAP)
			PEAP
			PEAP (w/o Cert.)
			EAP-FAST
		WPA2-PSK	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

The screenshot shows the 'WLAN (2)' configuration window with the following sections:

- WPA-PSK:** Includes a checkbox and a 'Pre Shared Key' text field.
- Account:** Includes a checkbox, 'User Name' and 'Password' text fields, and a 'Reauthentication Interval' spinner set to 2 minutes.
- 802.1X:** Includes a checkbox.
- Supplicant:** Includes checkboxes and text fields for 'Server Certificate', 'Client Certificate', 'Key File', 'Secret Key', and 'Random Seed', each with a browse button.
- EAP-FAST:** Includes a checkbox and dropdown menus for 'Provisioning Method' (Auto Provisioning), 'Internal Authentication' (MSCHAPV2), and 'PAC File' (No Change). It also has text fields for 'PAC File Path' and 'PAC File Password'.

Buttons at the bottom: 'Set Parameter...' and 'Get Parameter'.

[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]:

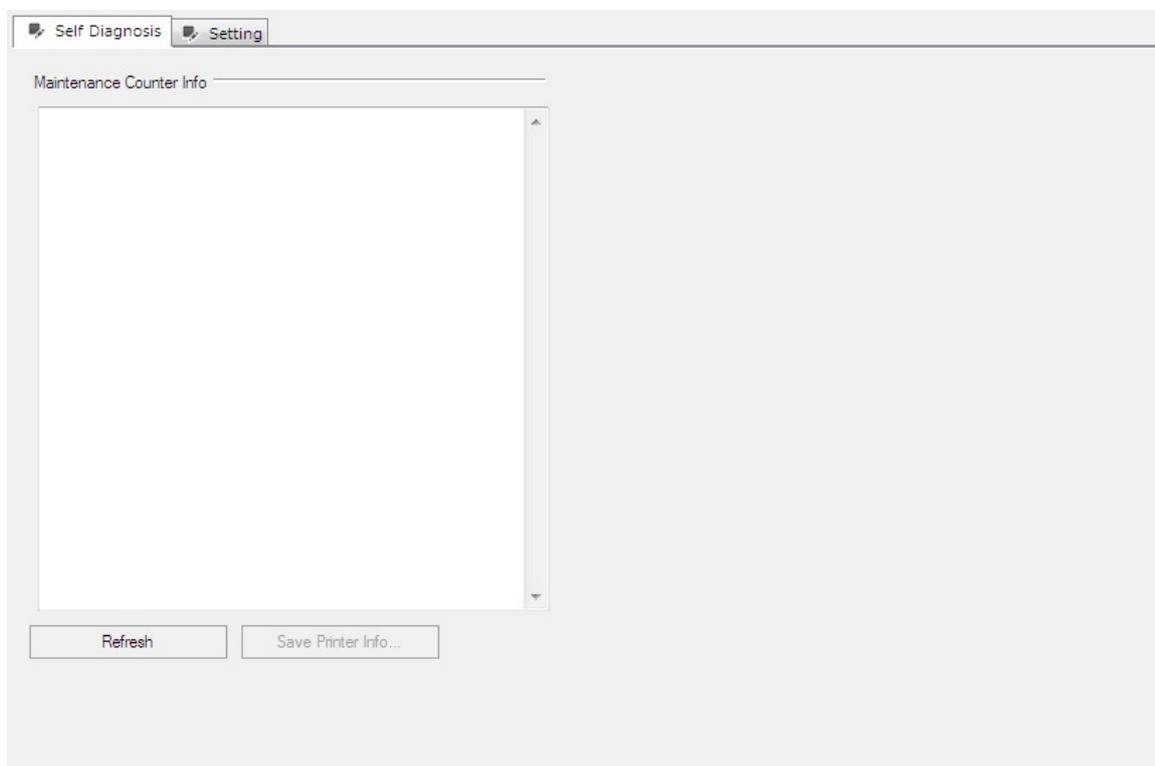
Sets the password for the PAC file used for the Manual Provisioning.

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

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



[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.
This function is executed only when the printer is in SYSTEM MODE FOR SERVICE PERSONS AND SYSTEM ADMINISTRATORS and idle state.

[Save Printer Info...]

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

Setting Tab

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

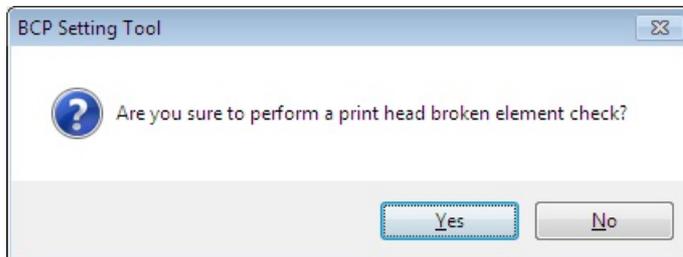
- Memory Allocate:** Includes dropdowns for 'DBCS Mapping' (set to Chinese), 'Bitmap External Character Storage Area' (128 KB (2 Block)), 'BASIC File Storage Area', 'Form Storage Area' (192 KB (3 Block)), 'Graphic Storage Area' (128 KB (2 Block)), and 'PC Save Storage Area'. A 'Retain BASIC Area' checkbox is checked. An 'Allocate...' button is at the bottom.
- Maintenance Counter Clear:** A dropdown for 'All Counter' and a 'Clear...' button.
- Parameter Clear:** A dropdown for 'Destination' (set to International) and an 'Initialize...' button.
- Memory Format:** Includes dropdowns for 'Location' (Onboard Flash Memory) and 'Area' (PC Save & Bitmap External Character), with a 'Format...' button.
- Print Command Mode:** A dropdown for 'Mode' (set to TPCL) and a 'Change...' button.

At the bottom of the window 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.

This function is executed only when the printer is in SYSTEM MODE and idle state.

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

[Maintenance Counter Clear]

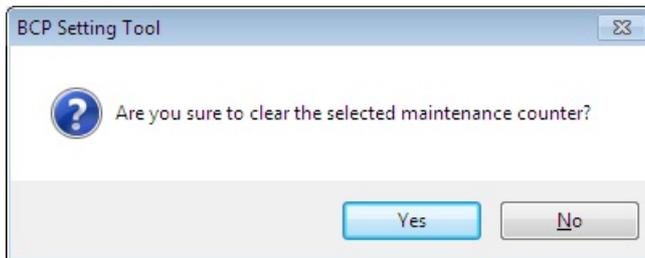
Select the option to clear maintenance counter.

Default	All Counter
Options	All Counter, Feed Distance (FEED), Print Distance (PRINT)

[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 SYSTEM MODE FOR SERVICE PERSONS AND SYSTEM ADMINISTRATORS and idle state.

[Parameter Clear]

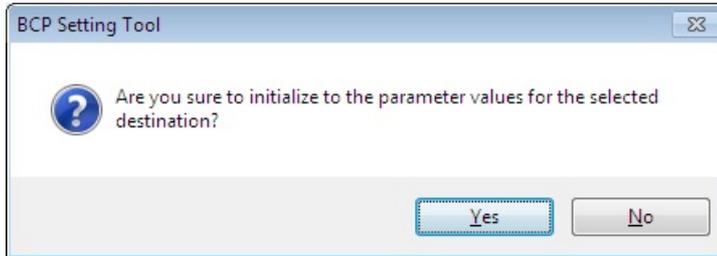
[Destination]

Select the destination used after the parameter clear is performed.

Default	International
Options	International, Japan

[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 SYSTEM MODE FOR SERVICE PERSONS AND SYSTEM ADMINISTRATORS and idle state.

[Memory Allocate]

This field is used to allocate memory with size specified for each storage area.

[DBCS Mapping]:

Select a font installed on the printer.

Default	Chinese
Options	Not Installed, Japanese (Kanji), Chinese, Korean (Hangul)

[Bitmap External Character Storage Area]

Set the area size for storing bitmap external characters.

Default	128 KB
Options	0 to 3200 KB (in units of 64 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 896 KB (in units of 64KB)

[Form Storage Area]:

Set the area size for storing form.

Default	192 KB
Options	0 to 896 KB (in units of 64KB)

[Graphic Storage Area]:

Set the area size for storing graphic.

Default	128 KB
Options	0 to 192 KB (in units of 64KB)

[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.

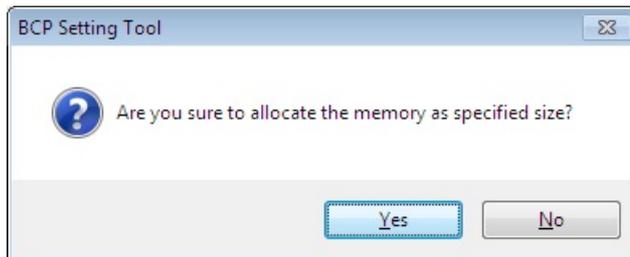
It is required to adjust the storage area size for True type fonts, bitmap external characters and BASIC files so that the PC Save storage area size does not become a negative value.

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.

The memory information display is updated after the memory allocation is completed.

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

The 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 is deleted.

[Location]

Select the memory to be formatted.

Default	Onboard Flash Memory
Options	Onboard Flash Memory

[Area]

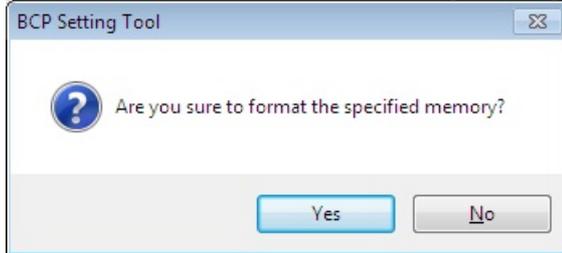
Select the area to be formatted.

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

[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 online mode and idle state.

The Product waits for the end of memory format after sending a Flash Memory Format command to the printer.

[Print Command Mode]

This field is used to change the print mode.

[Mode]

Select a desired mode.

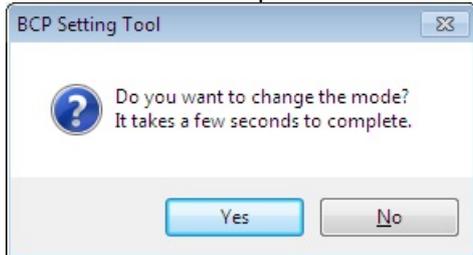
When the IrCOMM protocol is selected, the settings for the auto status transmission and the feed to the home position become invalid.

Default	TPCL
Options	LABEL, RECEIPT, RECEIPT1, ESC/POS, TPCL, TPCL1

[Change...]

This button is used to change the print mode to a specified one.

It is available when the printer is in the idle state and in other than the system mode.



When [Yes] is clicked, the processing starts.

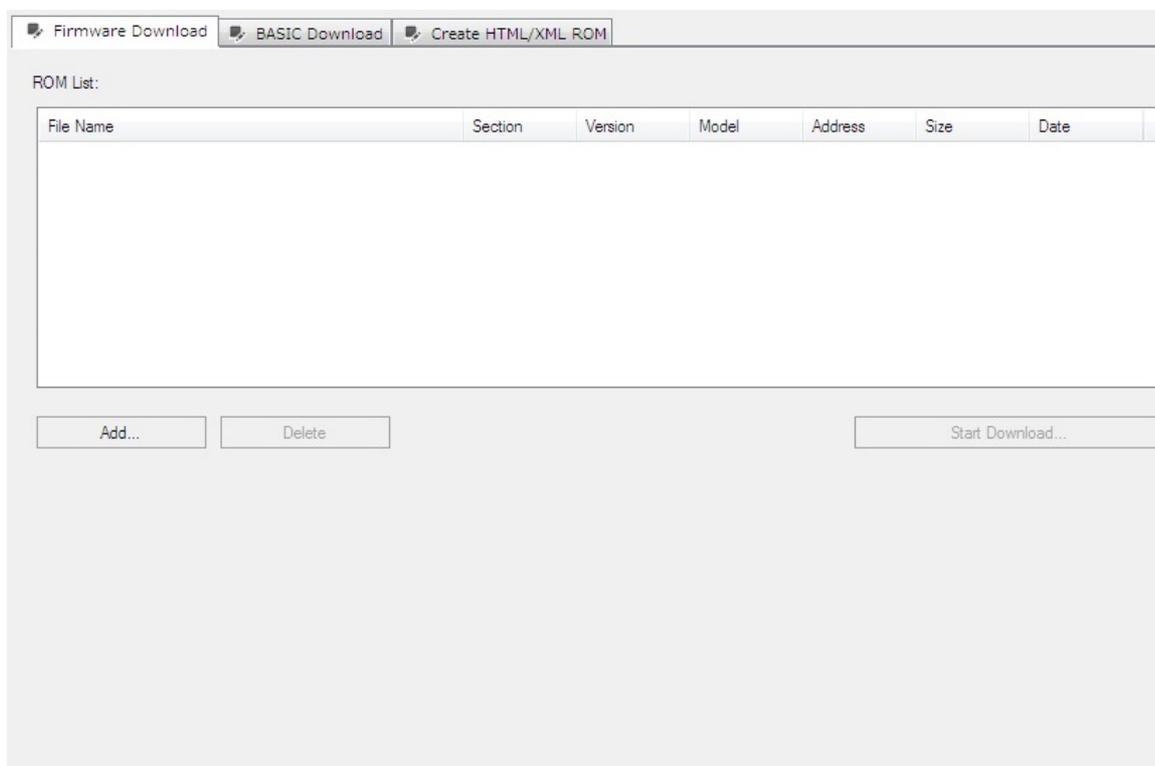
When [No] is clicked, the processing is canceled.

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

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



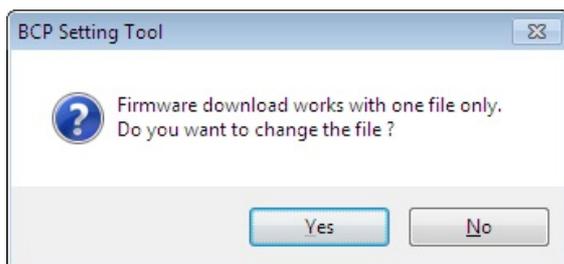
Be sure to avoid the environment where a power failure may occur in the middle of the downloading.
If a power failure occurs during a firmware updating, the printer may not start up.
Even when the printer can normally start up, download the firmware again.
If cannot, please contact TOSHIBA TEC sales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

[ROM List]

ROM files of the firmware to be downloaded to the printer are displayed.
No file has been displayed as default.
When a ROM file is selected, the firmware information is displayed under the list.

[Add...]

Specified ROM files are added to the [ROM List].
When this button is clicked, the file selection screen appears. Choose a ROM file, click [Open], and this ROM file is added to the [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 the Product, the error message is displayed.
Only one file is accepted. In the case of adding while the file chose, the following confirmation message is displayed.



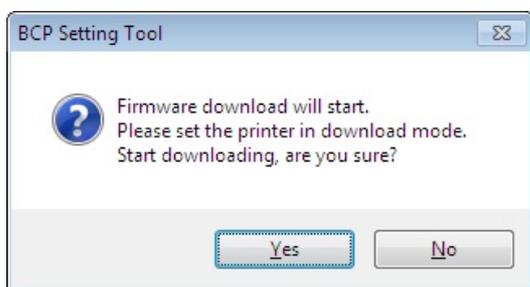
When [Yes] is clicked, the existing file is replaced.
When [No] is clicked, the processing is canceled.

[Delete]

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

[Start Download...]

The ROM files in the [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, the error message is displayed.
When the processing starts, the progress status screen is displayed. When the processing is completed, the completion screen is displayed.

When no file is listed in the [ROM List], this button is grayed out.

After the ROM files are sent to the printer, the Product waits for the end of the printer update.

* Please download the printer firmware in the download mode.

Before starting downloading, make sure that the printer mode is in the download mode.

BASIC 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: Bitmap External Character > BASIC File > Form > Graphic > PC Save

[DBCS Mapping]:

Select a font installed on the printer.

Default	Chinese
Options	Not Installed, Japanese (Kanji), Chinese, Korean (Hangul)

[Bitmap External Character Storage Area]

Set the area size for storing bitmap external characters.

Default	128 KB
Options	0 to 3200 KB (in units of 64 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 896 KB (in units of 64KB)

[Form Storage Area]:

Set the area size for storing form.

Default	192 KB
Options	0 to 896 KB (in units of 64KB)

[Graphic Storage Area]:

Set the area size for storing graphic.

Default	128 KB
Options	0 to 192 KB (in units of 64KB)

[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	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.

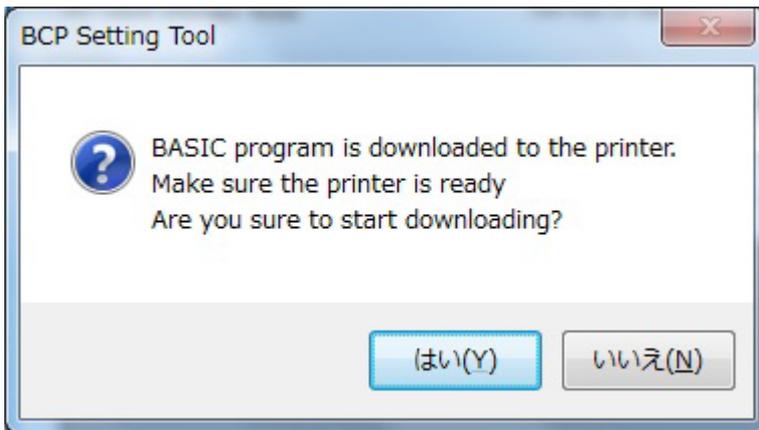
Default	2
Range	0 to 23

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.

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	XML
Options	XML

[Source Path]

Specifies the location where the XML files are stored.

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

When "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 XML ROM.

* Do not change the setting from the default one.

[Version]

Specifies the version information for the XML ROM.

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

[Model]

Specifies the model name for the XML ROM.
* Do not change the setting from the default one.

[Address]

Specifies the address information for the XML ROM.
* Do not change the setting from the default one.

[Size]

Specifies the size for the XML ROM.
* Do not change the setting from the default one.

[Date]

Specifies the date information for the XML ROM.
Enter the date in a "DDMMMYYYY" 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 "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]

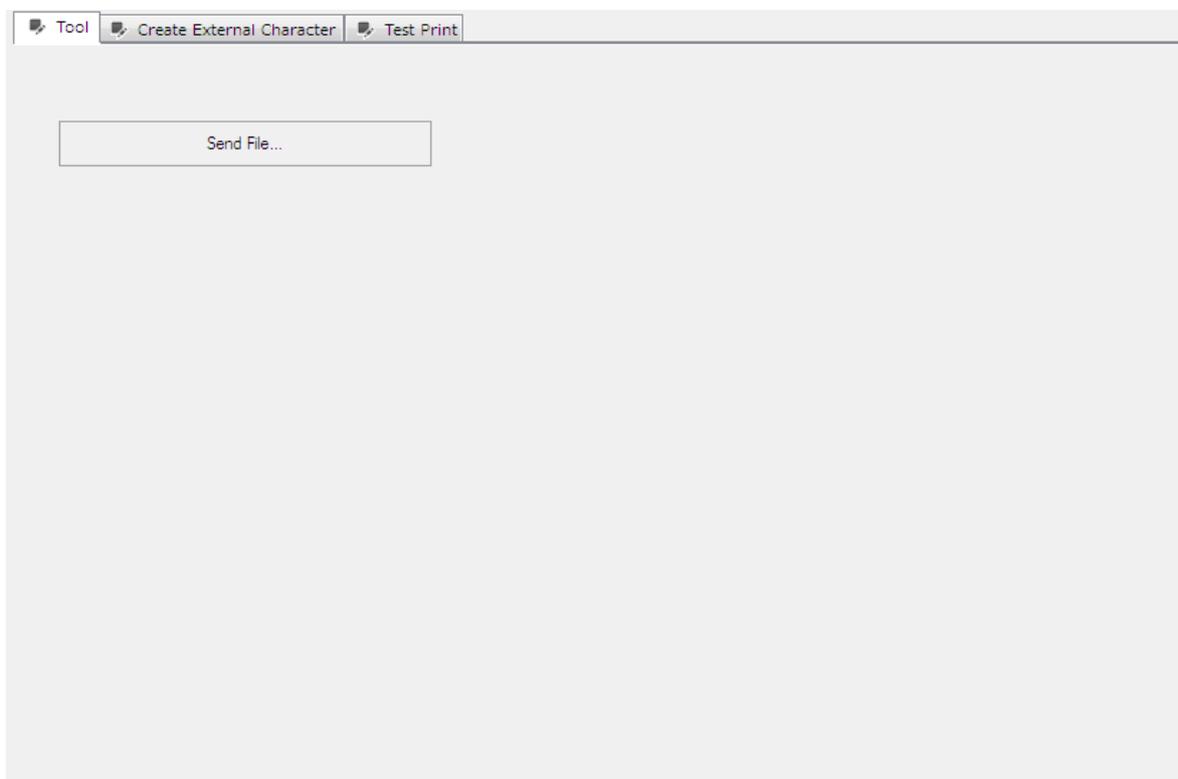
A ROM file is created from the files in the file list on the specified conditions.
When this button is clicked, the folder selection screen is displayed and the processing starts.
The progress status is indicated with the progress bar and in [ROM List]. Cancellation is not acceptable during the creation 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 binary format.

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

As soon as 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.

Create External Character Tab

[Specification Method]

How to specify the bitmap file path is selectable.

Select the "File" when an external character is created from one bitmap file.

Select the "Folder" when an external character is created from more than one bitmap file.

Default	File
Options	File, Folder

[Location]

Select the type of memory where the files are stored.

Default	Onboard Flash Memory
Options	Onboard Flash Memory

[Bitmap Path]

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

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

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

When the "Folder" is selected for the [Specification Method], specify a folder in which more than one bitmap file is stored. The bitmap files in the specified folder are displayed in the [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, the error message is 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_51FFFF_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] = other value than above:
 - When [Location] = "Onboard Flash Memory", the size shall be 720 x 720 dots or less.

[Bitmap List]

Bitmap files in the location specified for the [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 is displayed.

[Type]

Specify a type number used for storing the file as an external character.
 When the "Folder" is selected for the [Specification Method], this becomes invalid.

Default	01
Range	When [Location] = "Onboard Flash Memory": 01 to 43, 51

[Code]

Set the character code in hex. format for storing the file as an external character.
 One hexadecimal code is expressed with two characters. (Example: "0" -> "30", "A" -> "41")
 When the "Folder" is selected for the [Specification Method], this becomes invalid.

Default	20
Range	When [Type] = any of "01" to "40": 20 to FF
	When [Type] = any of "41" to "43": 40 to 7E, 80 to FC
	When [Type] = "51": 2020 to FFFF

[Left Offset]

Set a value for the left offset from the reference coordinate.
 When any of "41" to "43" is set for the [Type], this becomes invalid.
 When the "Folder" is selected for the [Specification Method], this becomes invalid.

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

[Top Offset]

Set a value for the top offset from the reference coordinate.
 When any of "41" to "43" is set for the [Type], this becomes invalid.
 When the "Folder" is selected for the [Specification Method], this becomes invalid.

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

[Character Spacing]

Set a fine adjustment value for the space between characters.

When any of "41" to "43" is set for the [Type], this becomes invalid.

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

Default	0 dot
Range	When [Location] = "Onboard Flash Memory": 0 to 999 dots

[Confirmation File]

Select 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 specified [Magnification], [Print Method], [Label Length], and [Label Width]. The [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 the "Folder" is selected for the [Specification Method], this becomes invalid.

[Magnification]

Select 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]

Select the print method.

Default	Direct Thermal
Options	Direct Thermal

[Label Length]

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

Default	60 mm
Range	B-EP2DL-G (203dpi): 7 to 997 mm B-EP4DL-G/T (203dpi/300dpi): 7 to 500 mm

[Label Width]

Set the effective print width of media.

Default	B-EP2DL-G (203dpi): 48 mm B-EP4DL-G/T (203dpi/300dpi): 104 mm
Range	B-EP2DL-G (203dpi): 10 to 48 mm B-EP4DL-G/T (203dpi/300dpi): 10 to 104 mm

[Output File]

Specify the file where the external character is stored.

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

The file extension is ".gai".

After the specified file is initialized, the 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. When this process completed, message box shows.

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

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

When the "Folder" is selected for the [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, the error message is 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'. The 'Test Print' tab is active. Below the tabs, there are two main sections: 'Print Pattern' and 'Print Condition'. Under 'Print Pattern', there are dropdown menus for 'Print Pattern' (set to 'Slant Lines (1 dot)') and 'Resolution' (set to '203 dpi'). Under 'Print Condition', there are several controls: 'Issue Count' (a spinner set to '1' with 'page' next to it), 'Print Speed' (a dropdown set to 'Auto'), 'Sensor' (a dropdown set to 'None'), 'Issue Mode' (a dropdown set to 'Batch'), 'Print Method' (a dropdown set to 'Direct Thermal'), 'Label Length' (a spinner set to '40' with 'mm' next to it), 'Label Gap' (a spinner set to '3' with 'mm' next to it), 'Label Width' (a spinner set to '54' with 'mm' next to it), and 'Tone Adjustment' (a spinner set to '0'). At the bottom center, there is a 'Test Print' button.

[Print Pattern]

[Print Pattern]

Select a print pattern for the test print.

Default	Slant Lines (1 dot)
Options	Slant Lines (1 dot), Slant Lines (3 dots), Characters, Barcodes

[Resolution]

Selects a resolution for the test print.

Default	203 dpi
Options	B-EP2DL-G (203dpi) : 203 dpi B-EP4DL-G/T (203dpi/300dpi) 203 dpi, 300 dpi

[Print Condition]

[Issue Count]

Set the print count.

Default	1
Range	1 to 9999

[Print Speed]

Setting change is not possible.

[Sensor]

Select a sensor to be used.

Default	None
Options	None, Reflective, Transmissive, Transmissive (Preprinted Labels), Reflective (Manual)

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[Issue Mode]

Setting change is not possible.

[Print Method]

Setting change is not possible.

[Label Length]

Set the effective print length of media.

Default	60 mm
Range	B-EP2DL-G (203dpi), B-EP4DL-G/T (203dpi/300dpi) Resolution 203 dpi : 7 to 997 mm B-EP4DL-G/T (203dpi/300dpi) Resolution 300 dpi : 7 to 500 mm

[Label Gap]

Set the length of the gap between labels.

Default	3 mm
Range	3 to 7 mm

[Label Width]

Set the effective print width of media.

Default	B-EP2DL-G (203dpi) : 48 mm B-EP4DL-G/T (203dpi/300dpi) Resolution 203 dpi : 104 mm B-EP4DL-G/T (203dpi/300dpi) Resolution 300 dpi : 105 mm
Range	B-EP2DL-G (203dpi) : 10 to 48 mm B-EP4DL-G/T (203dpi/300dpi) Resolution 203 dpi : 10 to 104 mm B-EP4DL-G/T (203dpi/300dpi) Resolution 300 dpi : 10 to 105 mm

[Tone Adjustment]

Set 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	-30 to +30

[Test Print]

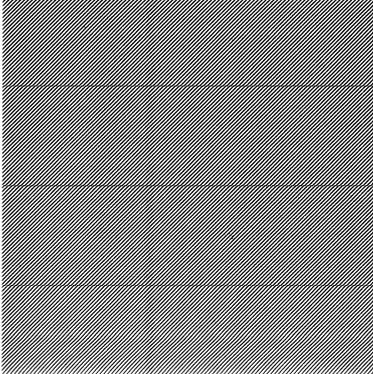
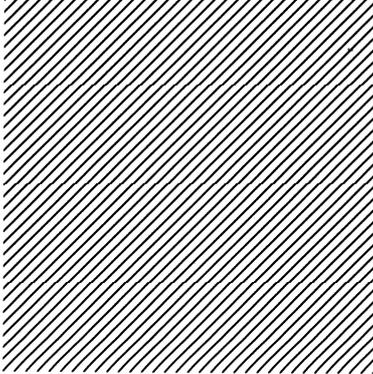
The printer performs a test print on the specified conditions.

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 TPCL mode, TPCL1 mode and idle state.

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

<p>Slant Lines (1 dot)</p> 	<p>Slant Lines (3 dot)</p> 
<p>Characters (B-EP2DL)</p> <p>A/0123ABCDEF GHIJ B/0123ABCDEF G C/0123ABCDEF G D/0123ABCDEF G/0123ABCDEF GHIJKLMNO</p> <p>英字 漢字 明朝</p> <p>A B</p>	<p>Barcodes (B-EP2DL)</p> <p>0: JAN8, EAN8</p>  <p>49400458</p> <p>3: CODE39 (Standard)</p>  <p>*ABC123*</p>
<p>Characters (B-EP4DL)</p> <p>A/0123ABCDEF GHIJ G/0123ABCDEF GHIJKLMNO P B/0123ABCDEF G H/0123ABCDEF GHIJ C/0123ABCDEF G I/0123ABCDEF G D/0123ABCDEF J/0123ABCDEF G E/0123ABCDEF K/0123ABCDEF F/0123ABCDEF L/0123ABCDEF G</p> <p>M/0123ABCDEF GHIJKL N/0123ABCDEF G P/0123ABCDEF G R/0123ABCDEF</p> <p>A B</p> <p>0123456 0123456 0123456</p>	<p>Barcodes (B-EP4DL)</p> <p>0: JAN8, EAN8 4: NW7</p>  <p>49400458</p>  <p>a1234567890a</p> <p>2: ITF 5: JAN13, EAN13</p>  <p>112345678905</p>  <p>4901480079516</p> <p>3: CODE39 (Standard) 9, A: CODE128</p>  <p>*ABC123*</p>  <p>ABCDEFGHI</p>

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 saved in 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 saved in 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 saved in the specified file.



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