

# CW-C4000 Series

## HVP Plug-in Module User's Guide

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### Product Overview

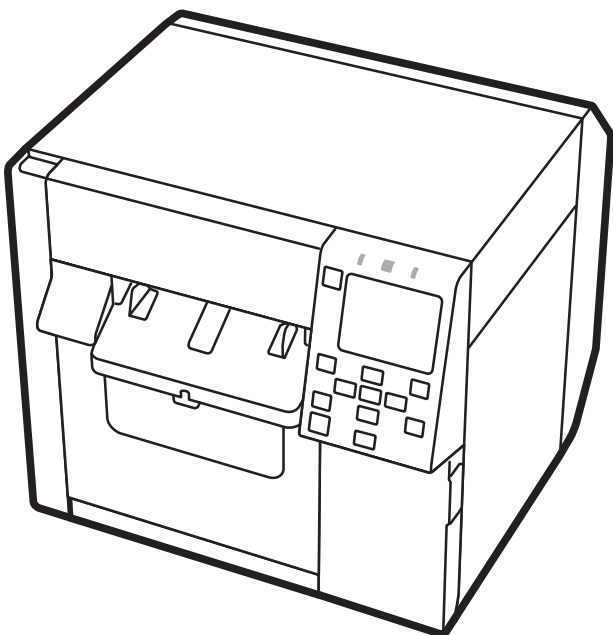
Describes features for the product.

### Setting Up the Printing Environment

Describes how to set up the printing environment.

### Product information

Describes information about the product.



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# For Safety

## Key to Symbols

The symbols in this manual are identified by their level of importance, as defined below. Read the following carefully before handling the product.

	Provides information that must be observed to avoid damage to your equipment or a malfunction.
	Provides important information and useful tips.

## Restriction of Use

When this product is used for applications requiring high reliability/safety such as transportation devices related to aviation, rail, marine, automotive etc.; disaster prevention devices; various safety devices etc.; or functional/precision devices etc., you should use this product only after giving consideration to including fail-safes and redundancies into your design to maintain safety and total system reliability. This product is not intended for use in applications requiring an extremely high level of reliability and safety, such as in aerospace instruments, main communication equipment, nuclear power control equipment, or medical equipment, etc. Please make your own judgment on this product's suitability after a full evaluation.

# About this Manual

## Aim of the Manual

This manual is intended for users of the software and development engineers to provide information about how to use the CW-C4000 Series HVP Plug-in Module.

## Manual Content

The manual is made up of the following sections:

- |           |   |
|-----------|---|
| Chapter 1 | <a href="#">Product Overview</a>                    |
| Chapter 2 | <a href="#">Setting Up the Printing Environment</a> |
| Chapter 3 | <a href="#">Product information</a>                 |

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# Product Overview

## Introduction

### About this manual

This manual is a User's Guide for the HVP Plug-in for EPSON CW-C40x0.

This manual explains the HVP plug-in software, which is required when the printer (CW-C4000 Series) is built into the SAP EH&S WWI HVP System.



HVP is the abbreviation of High Volume Printing.

### SAP EH&S WWI HVP System

For SAP EH&S WWI HVP System, refer to SAP Note.

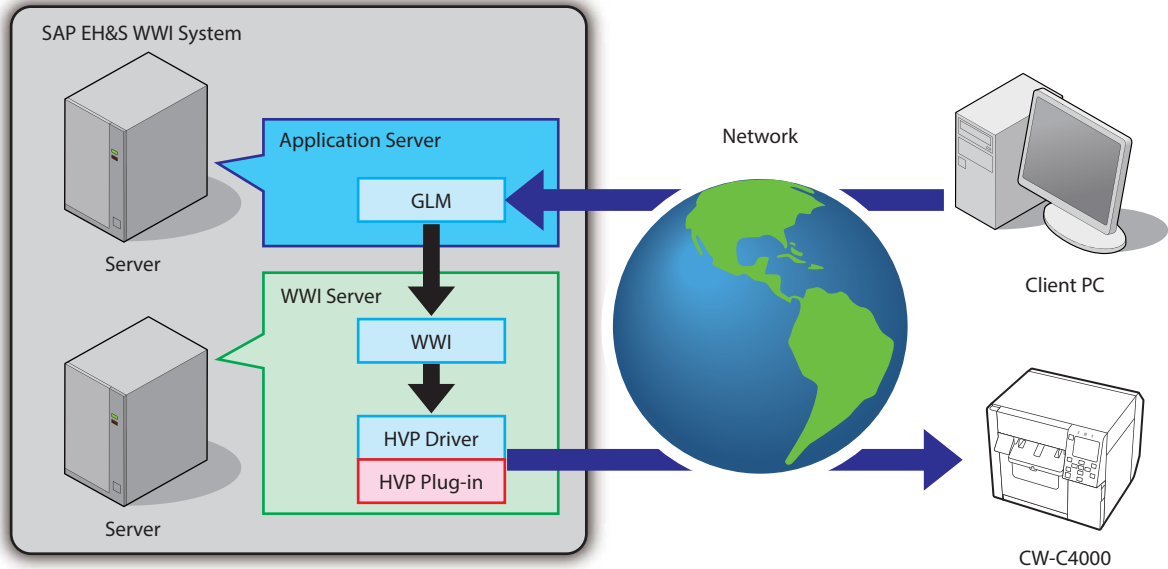
SAP Note can be obtained from SAP Support Portal (<https://support.sap.com/home.html>).

Before reading this manual, make sure to read the following SAP Note.

SAP Note No.1394553: EH&S WWI server installation instructions

## Basic Functions and Features

When using SAP EH&S WWI HVP System to perform a large volume of printing via a network, using HVP Plug-in for EPSON CW-C40x0 allows you to reduce the load on the server or traffic in the network.



GLM is the abbreviation of Global Label Management.

## About the package

HVP Plug-in for EPSON CW-C40x0's package file "CWC4000\_HVP\_Plugin.zip" contains the following files.

Item	Description
CWC4000Series_HVP_Plugin_Setup.exe	HVP Plug-in installer includes the module DLLs. <ul style="list-style-type: none"> <li>HVP_PLUGIN_CWC40x0.dll(32-bit OS/64-bit OS)</li> </ul>
CW-C4000 Series HVP Plug-in Module_en_revB.pdf	This manual

# Setting Up the Printing Environment

This section describes how to set up the printing environment using the HVP Plug-in for EPSON CW-C40x0.

## *Operating Environment*

### OS

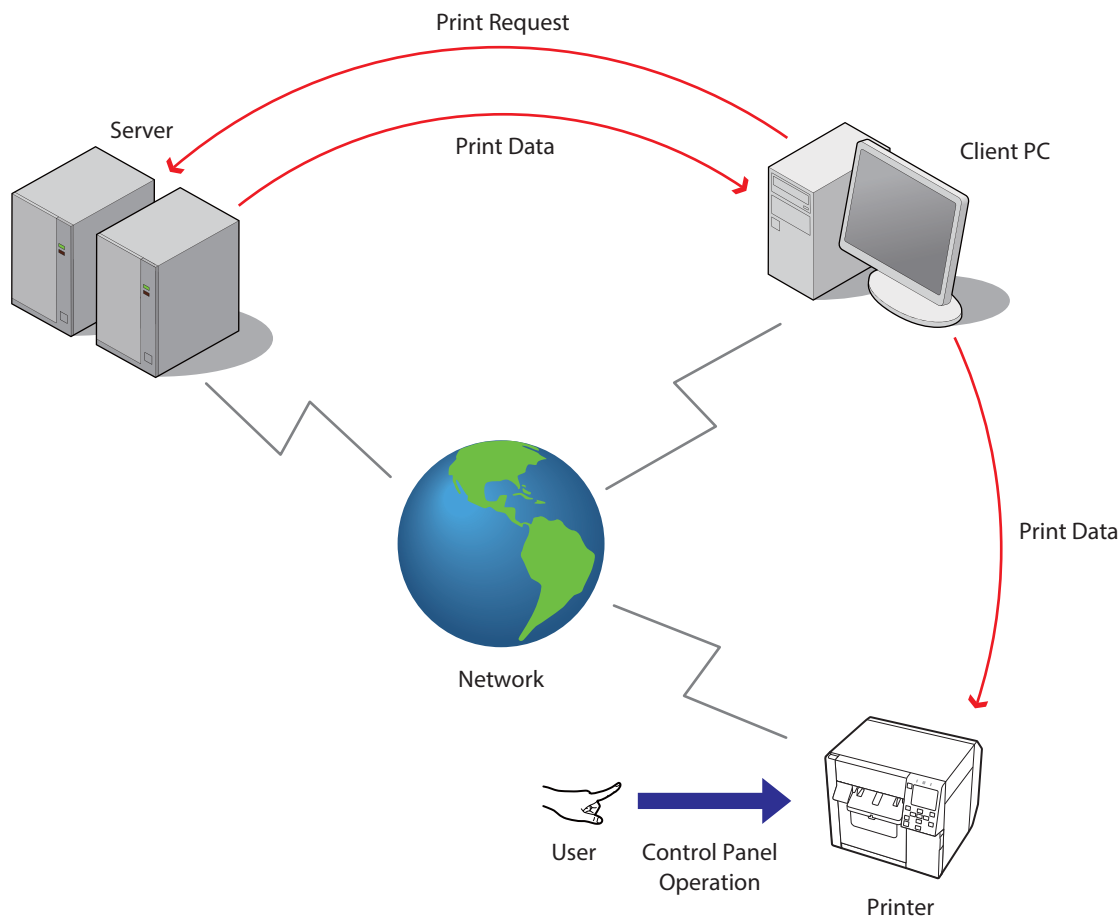
Follow SAP EH&S WWI software OS support.

### Software

SAP EH&S WWI 3.2 SP38 and later

## Setting Up the Printing Environment

In order to use the HVP Plug-in for EPSON CW-C40x0, performing setting operations that match the print content to the Server and Printer is necessary.



Perform the setting operation in the order of procedure below.

No.	Item	Description	Ref.
1	Installation	Installation of HVP Plug-in for EPSON CW-C40x0	<a href="#">page 10</a>
2	Set up	Setting up of HVP Plug-in for EPSON CW-C40x0	<a href="#">page 10</a>
3	SAP GLM Setting	Set the label dimensions from the Client PC to the Server SAP GLM.	<a href="#">page 21</a>
4	Test Printing	Confirmation of the content of the settings	<a href="#">page 28</a>

## Installation

Install HVP Plug-in for EPSON CW-C40x0 on your server.

Double-click CWC4000Series\_HVP\_Plugin\_Setup.exe.



- This must be performed by server administrators.
- For details, see SAP Note No.1394553 "EH&S WWI server installation instructions", Section "4.8.2 Setup SAP EH&S WWI HVP printer".

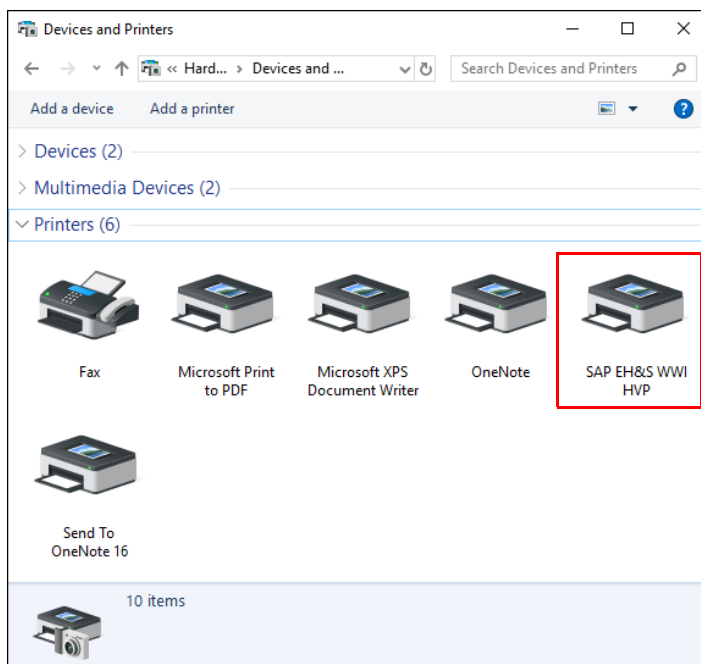
## Set up

Set up HVP plug-in for EPSON CW-C4000 Series installed on the server.

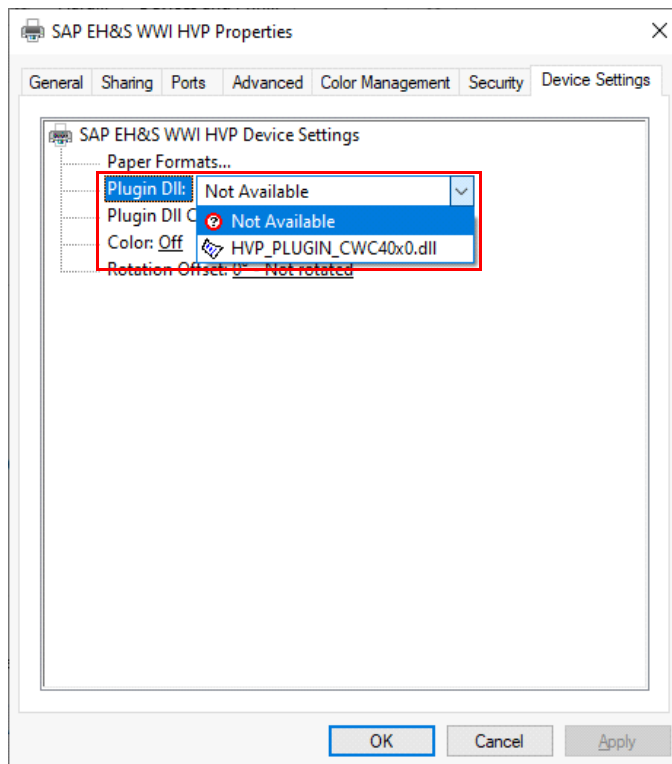


This must be performed by server administrators.

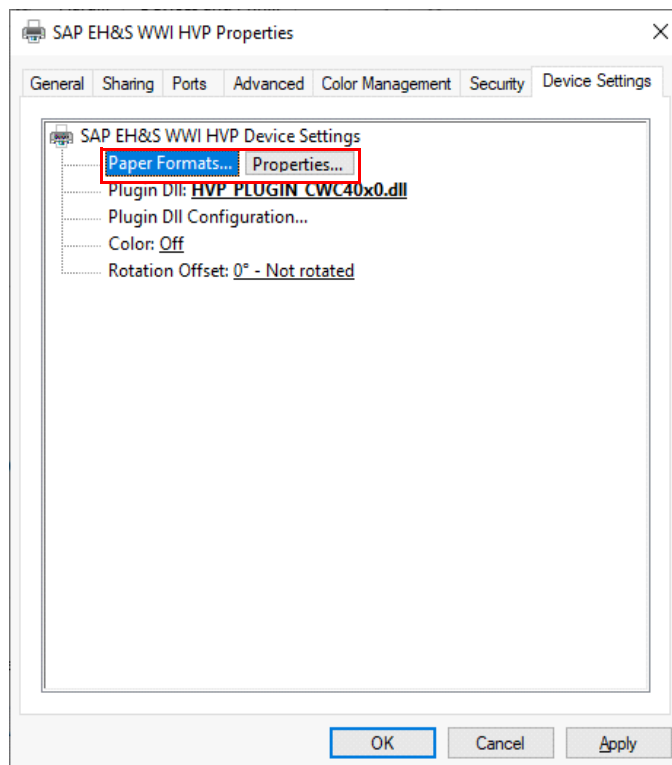
- 1 **Open the [Devices and Printers] window, right-click the SAP EH&S WWI HVP icon to display the [SAP EH&S WWI HVP Properties] window.**



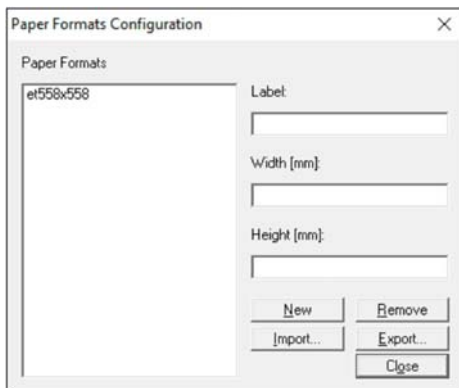
## 2 Open the [Device Setting] tab and for Plugin Dll, set "HVP\_PLUGIN\_CWC40x0.dll".



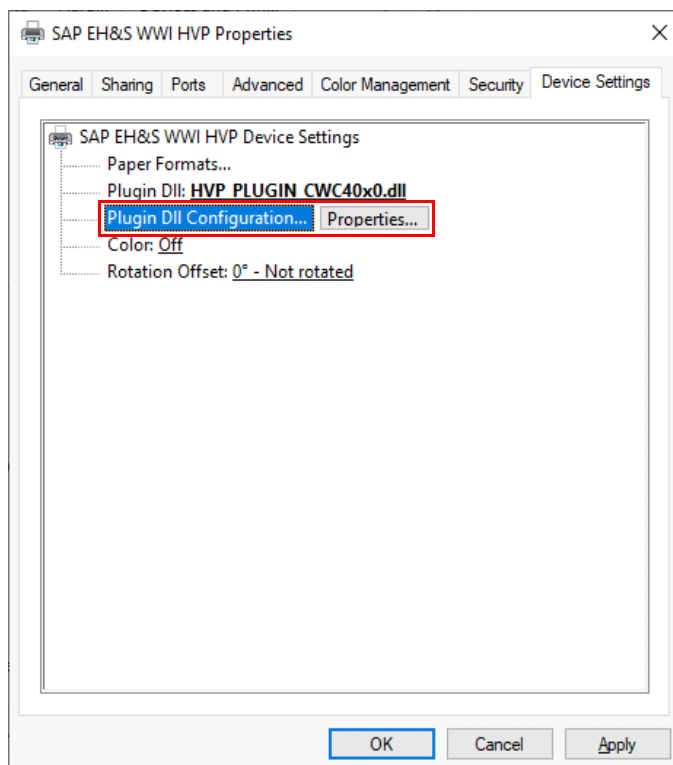
## 3 Select [Paper Formats...] and then click [Properties].



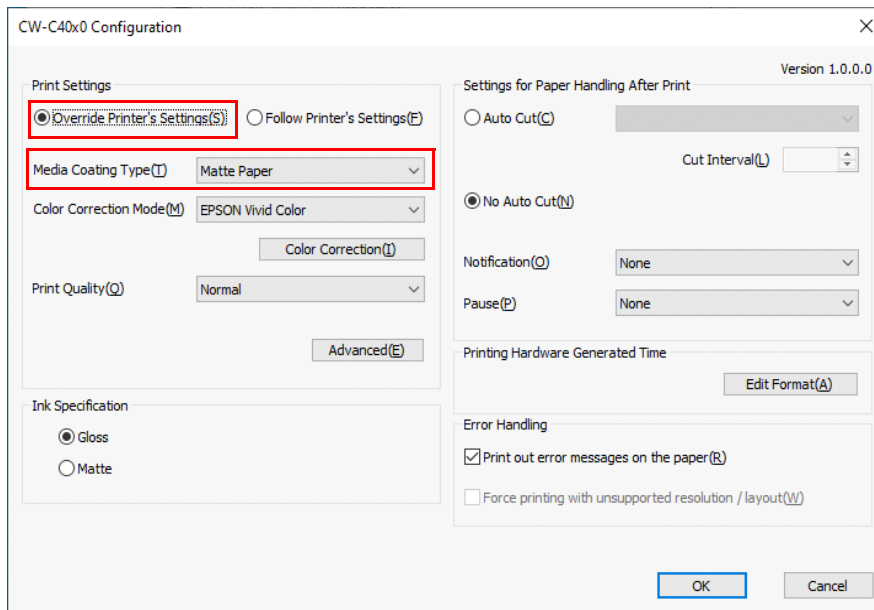
- 4 The [Paper Formats Configuration] window appears. Register the paper size to be used.



- 5 Open the [Device Settings] tab, select the [Plugin DLL Configuration...], and click [Properties].

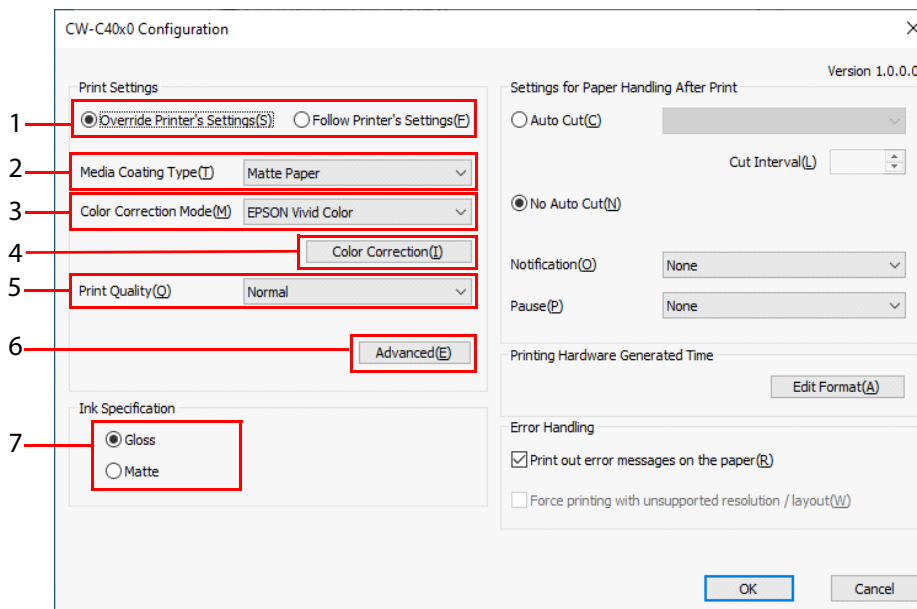


- 6** The [CW-C40x0 Configuration] window appears. Select [Override Printer's Settings], and in [Media Coating Type], select a coating type of media you want to use.



- CW-C4000 Series allow you to make the print settings from their control panel. (See CW-C4000 Series Technical Reference Guide for details.)
- If you select [Override Printer's Settings] and print, print settings made from the printer's control panel are overwritten with those made by HVP plug-in for CW-C4000 Series.
- Select [Follow Printer's Settings] to use the print settings set on each printer.

In the [CW-C40x0 Configuration] window, you can set the following functions.



□ Print Settings

No.	Item	Description	Parameter
1	Printer's Settings	Prints using the print settings made by HVP plug-in for CW-C4000 Series.	Override Printer's Settings
	Follow Printer's Settings	Prints using the print settings made by the control panel of CW-C4000 Series. <sup>*1</sup>	Follow Printer's Settings
2	Media Coating Type	Select a coating type of the media used.	<ul style="list-style-type: none"> <li>• Plain Paper</li> <li>• Matte Paper</li> <li>• Synthetic</li> <li>• Texture Paper</li> <li>• Wristband</li> <li>• Glossy Paper</li> <li>• Glossy Film</li> <li>• High Glossy Paper</li> </ul>
3	Color Correction Mode	Select a color correction mode.	Plain Paper/Matte Paper/Synthetic/Wristband/Glossy Paper <ul style="list-style-type: none"> <li>• EPSON Vivid Color</li> <li>• EPSON Preferred Color</li> <li>• None</li> </ul> Texture Paper/Glossy Film/High Glossy Paper <ul style="list-style-type: none"> <li>• EPSON Vivid Color</li> <li>• None</li> </ul>
4	Color Correction	Show the Color Correction dialog.	-
5	Print Quality	Select a print quality.	The available print qualities vary depending on the Media Coating Type and Color Correction Mode. <sup>*2</sup>
6	Advanced	Show the Advanced dialog.	-

\*1: If you select [Follow Printer's Settings], all the settings you made here are ignored and not sent to the printer.

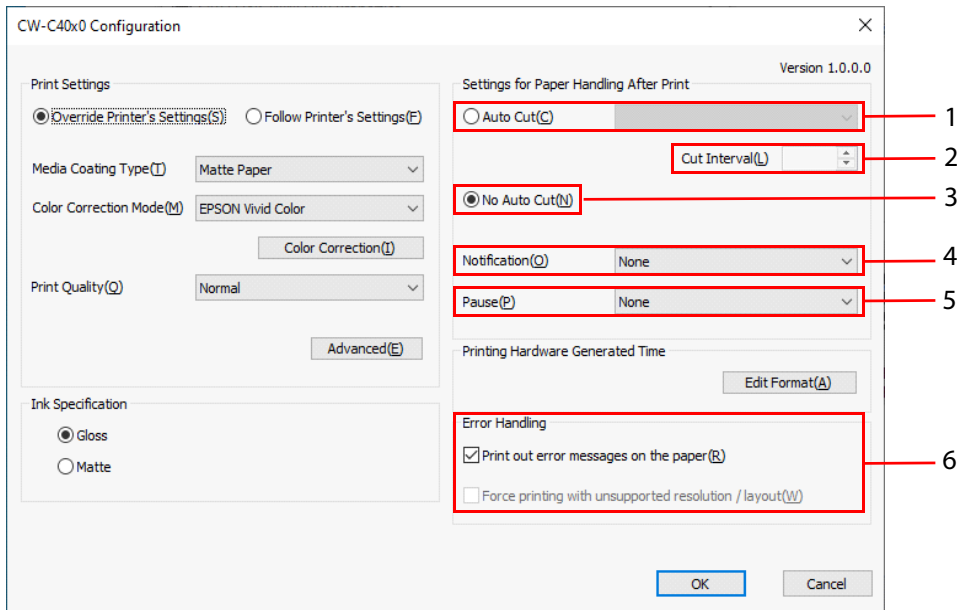
\*2: See below for the print qualities available under each criteria.

Media Coating Type	Color Correction Mode	Print Quality				
		Max Speed	Speed	Normal	Quality	Max Quality
Plain Paper	EPSON Vivid Color	✓	✓	✓	✓	-
	None	✓	✓	✓	✓	-
	EPSON Preferred Color	✓	✓	-	-	-
Matte Paper	EPSON Vivid Color	✓	✓	✓	✓	-
	None	✓	✓	✓	✓	-
	EPSON Preferred Color	-	✓	✓	-	-
Synthetic	EPSON Vivid Color	✓	✓	✓	✓	-
	None	✓	✓	✓	✓	-
	EPSON Preferred Color	-	✓	✓	-	-

Media Coating Type	Color Correction Mode	Print Quality				
		Max Speed	Speed	Normal	Quality	Max Quality
Texture Paper	EPSON Vivid Color	✓	✓	✓	✓	-
	None	✓	✓	✓	✓	-
	EPSON Preferred Color	-	-	-	-	-
Wristband	EPSON Vivid Color	✓	✓	✓	-	-
	None	✓	✓	✓	-	-
	EPSON Preferred Color	-	✓	-	-	-
Glossy Paper	EPSON Vivid Color	-	-	✓	✓	✓
	None	-	-	✓	✓	✓
	EPSON Preferred Color	-	-	✓	-	-
Glossy Film	EPSON Vivid Color	-	-	✓	✓	✓
	None	-	-	✓	✓	✓
	EPSON Preferred Color	-	-	-	-	-
High Glossy Paper	EPSON Vivid Color	-	-	✓	✓	✓
	None	-	-	✓	✓	✓
	EPSON Preferred Color	-	-	-	-	-

☐ Ink Specification

No.	Item	Description	Parameter
7	Gloss	Select if you use the gloss black ink.	Gloss
	Matte	Select if you use the matte black ink.	Matte



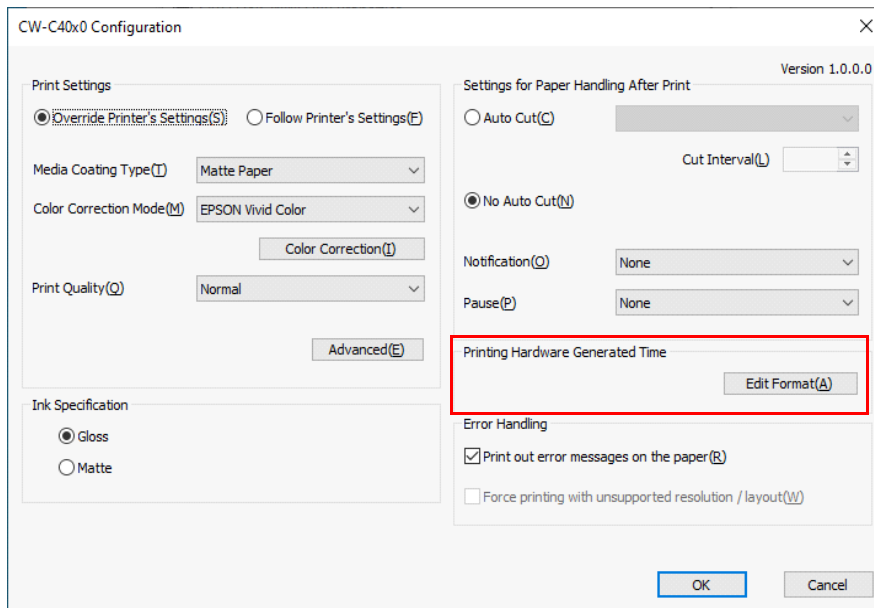
#### □ Settings for Paper Handling After Print

No.	Item	Description	Parameter
1	Auto Cut	Select the timing of auto cut operation.	<ul style="list-style-type: none"> <li>After Every Page</li> <li>After Specified Number Of Pages</li> <li>Only After Last Page</li> </ul>
2	Cut Interval	When you select [After Specified Number Of Pages] as the [Auto Cut] setting, specify the number of pages here. *	1 to 99999
3	No Auto Cut	Select to disable the auto cut.	No Auto Cut
4	Notification	Select a buzzer setting.	<ul style="list-style-type: none"> <li>None</li> <li>Beep at Job End</li> </ul>
5	Pause	Select a pause setting.	<ul style="list-style-type: none"> <li>None</li> <li>Pause at Cut</li> </ul>

\* : Even if the total number of print pages is indivisible by the number of pages you specified as the cut interval, an auto cut after printing the last page is performed.  
 The cut interval is based on the number of printed pages even if multiple labels are laid out on each page.  
 The number of labels is not counted as the interval.

### ❑ Error Handling

No.	Item	Description	Parameter
6	Error notification setting	The method of notification when error occurred can be set.	<ul style="list-style-type: none"> <li>Print out error messages on the paper</li> <li>Force printing with unsupported resolution / layout</li> </ul>

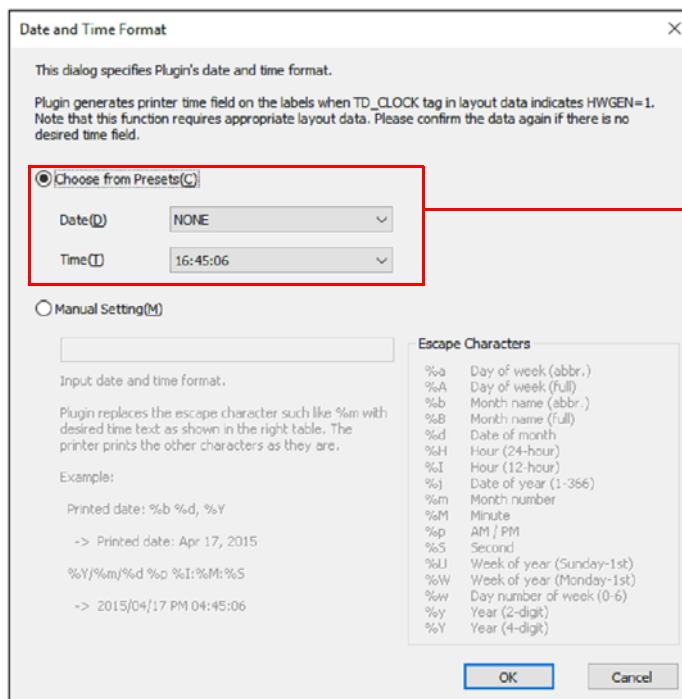


### ❑ Printing Hardware Generated Time

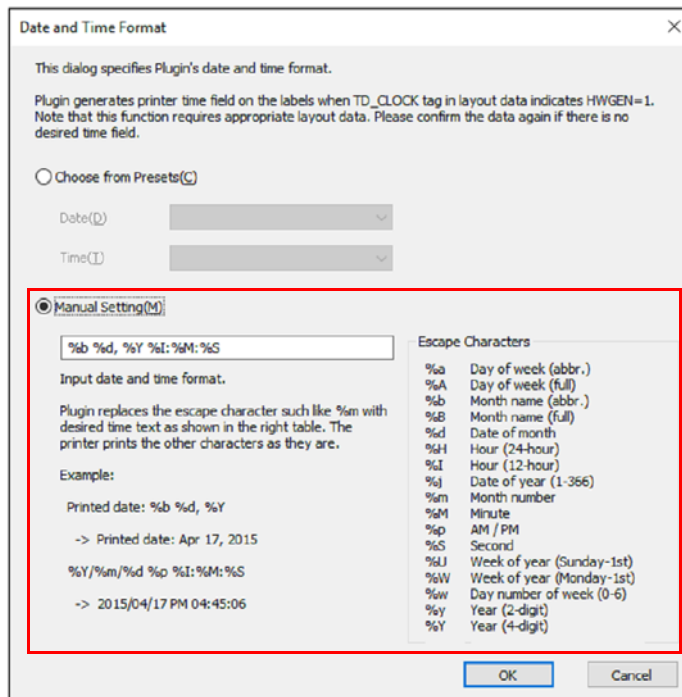
Click [Edit Format] to set the format of date and time to be printed.



- The date and time can be printed by adding an HWGEN=1 option to the @TD\_CLOCK tag of the print data. (See [About HWGEN=1 Option \(page 28\)](#))
- If you make the date and time print settings in Printing Hardware Generated Time, date and time is printed in the language selected from the control panel of CW-C4000 Series.
- Fonts that are not pre-installed on CW-C4000 Series, such as Japanese fonts, can be printed by installing the fonts using PrinterSettings.
- For the procedure to install fonts using PrinterSettings, refer to CW-C4000 Series Technical Reference Guide.



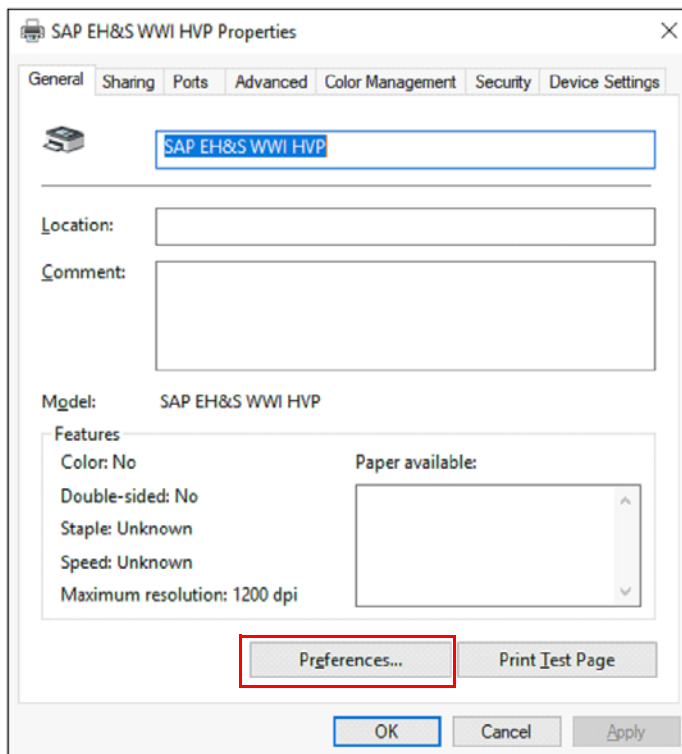
1



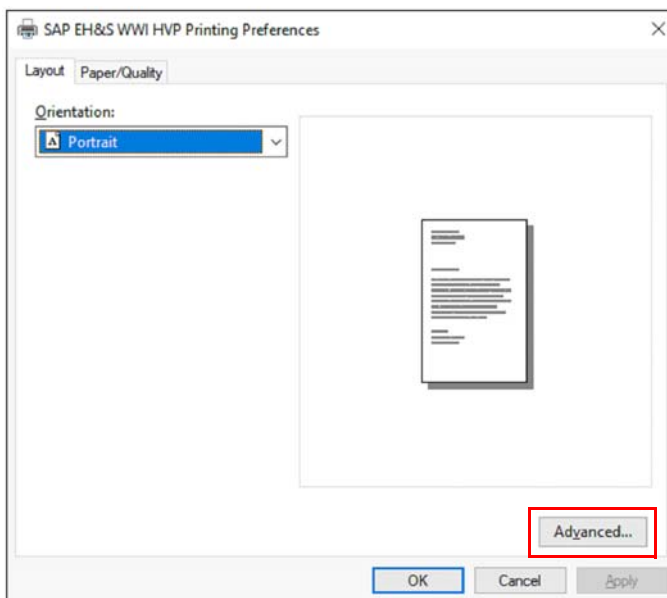
2

No.	Item		Description	Parameter
1	Choose from Presets	Date	Select a date format to be printed.	<ul style="list-style-type: none"> <li>None</li> <li>Apr 17, 2015</li> <li>17 Apr 2015</li> <li>2015/04/17</li> </ul>
		Time	Select a time format to be printed.	<ul style="list-style-type: none"> <li>None</li> <li>16:45:06</li> <li>PM 04:45:06</li> </ul>
2	Manual Setting		Customize the date and time format using [Escape Characters].	-

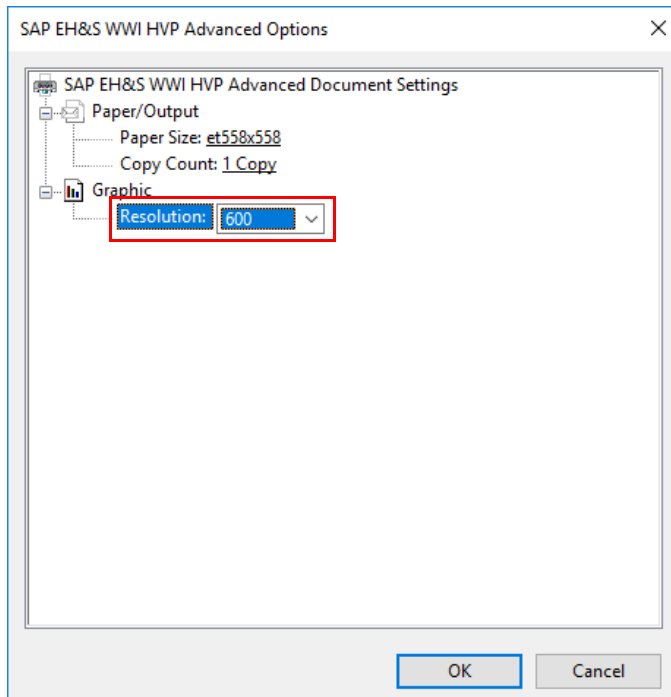
- 7** Open the [General] tab and click [References...] to display the [SAP EH&S WWI HVP Printing References] window.



- 8** Click [Advanced...] to display the [SAP EH&S WWI HVP Advanced Options] window.



## 9 Select [Resolution:] and click [OK].



Select the Resolution according to the Print Quality.

Print Quality	Resolution
Max Speed	300
Speed	600
Normal	
Quality	
Max Quality	

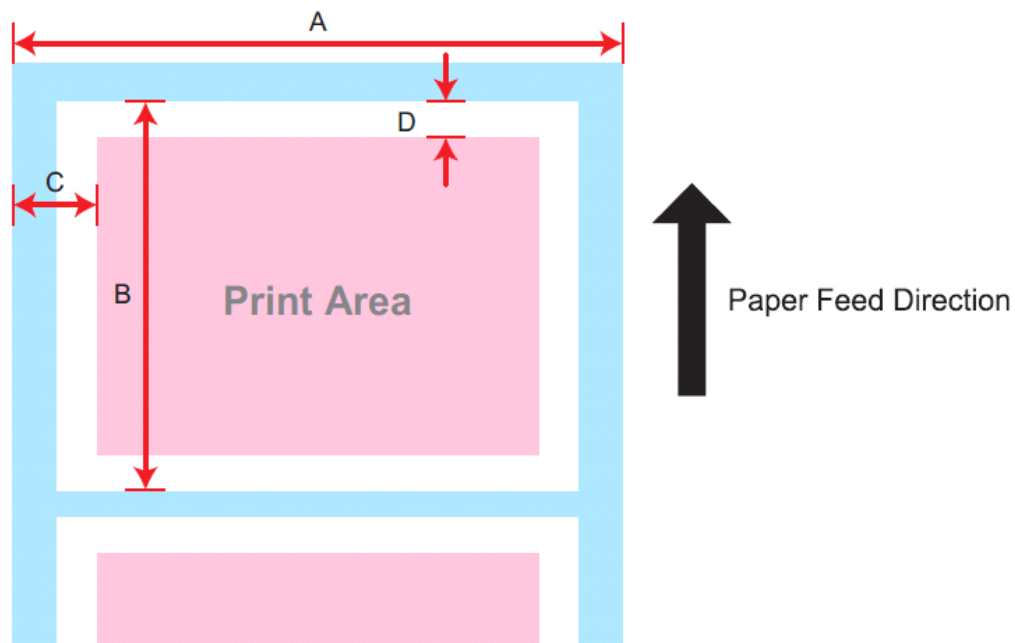
## SAP GLM Setting

Measure the label dimensions for the Media Form used, and set to SAP GLM [Edit Label Stock]-[Attributes].

Use the panel on the printer or PrinterSetting to set the Media Form to the printer in advance.

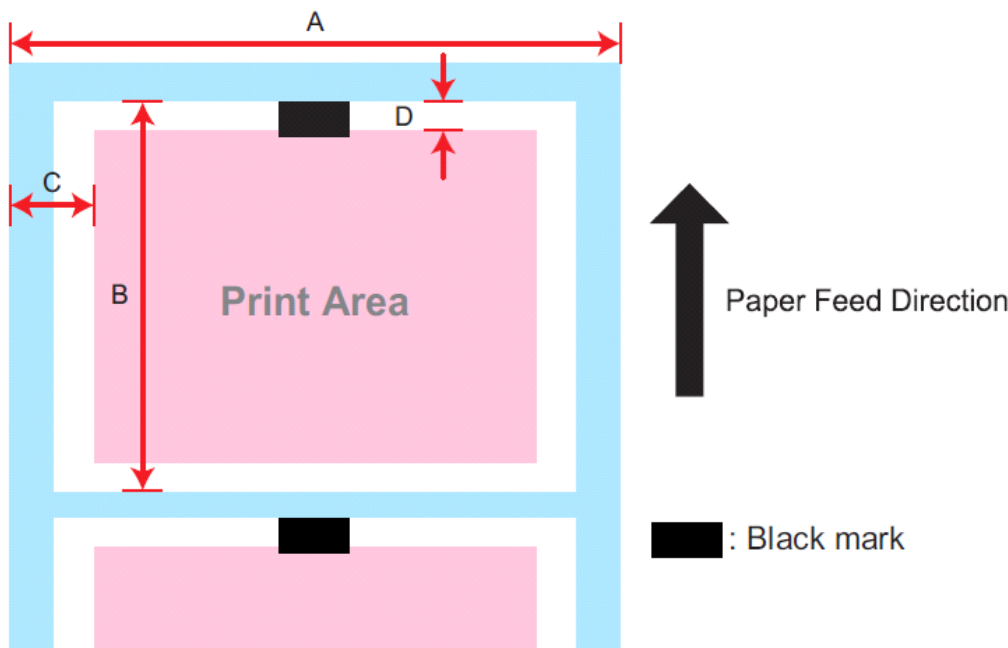
Media Form	Ref.
Die-cut label (gap detection)	<a href="#">page 21</a>
Die-cut label (black mark detection)	<a href="#">page 22</a>
Continuous label (black mark detection)	<a href="#">page 23</a>
Continuous label (no detection)	<a href="#">page 24</a>
Continuous paper (black mark detection)	<a href="#">page 25</a>
Continuous paper (no detection)	<a href="#">page 26</a>
Wristband (black mark detection)	<a href="#">page 27</a>

### Die-cut label (gap detection)



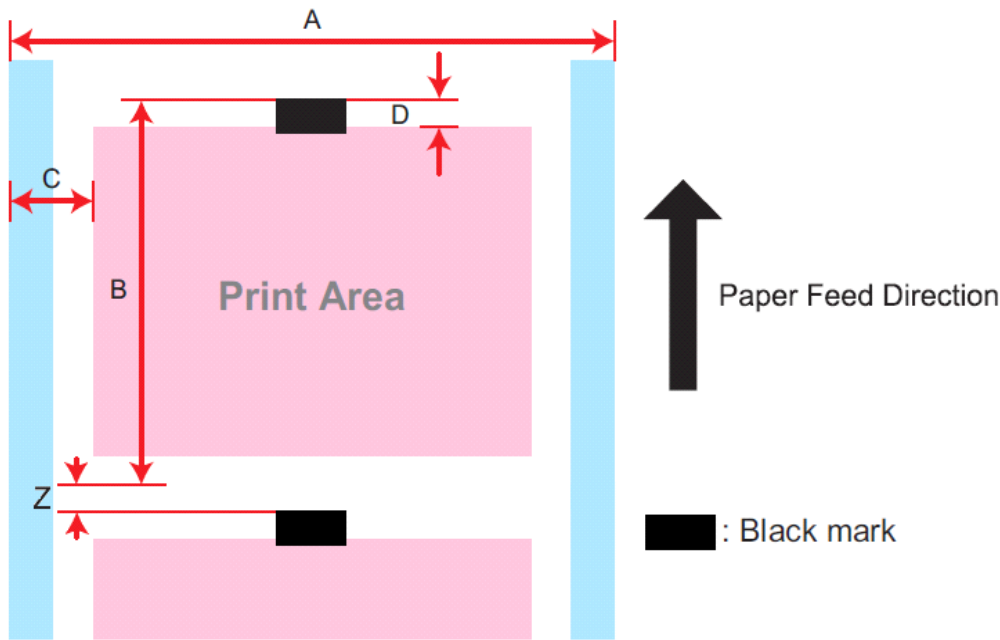
Symbols	Function	Parameter
A	Label Stock Width	25.4 to 112 mm (1 to 4.41 inch)
B	Label Stock Height	8 to 406.4 mm (0.31 to 16 inch)
C	Distance from Edge: Left	2.0 mm or more (0.07 inch or more)
D	Distance from Edge: Top	0 mm or more (0 inch or more)

Die-cut label (black mark detection)



Symbols	Function	Parameter
A	Label Stock Width	25.4 to 112 mm (1 to 4.41 inch)
B	Label Stock Height	8 to 406.4 mm (0.31 to 16 inch)
C	Distance from Edge: Left	2.0 mm or more (0.07 inch or more)
D	Distance from Edge: Top	0 mm or more (0 inch or more)

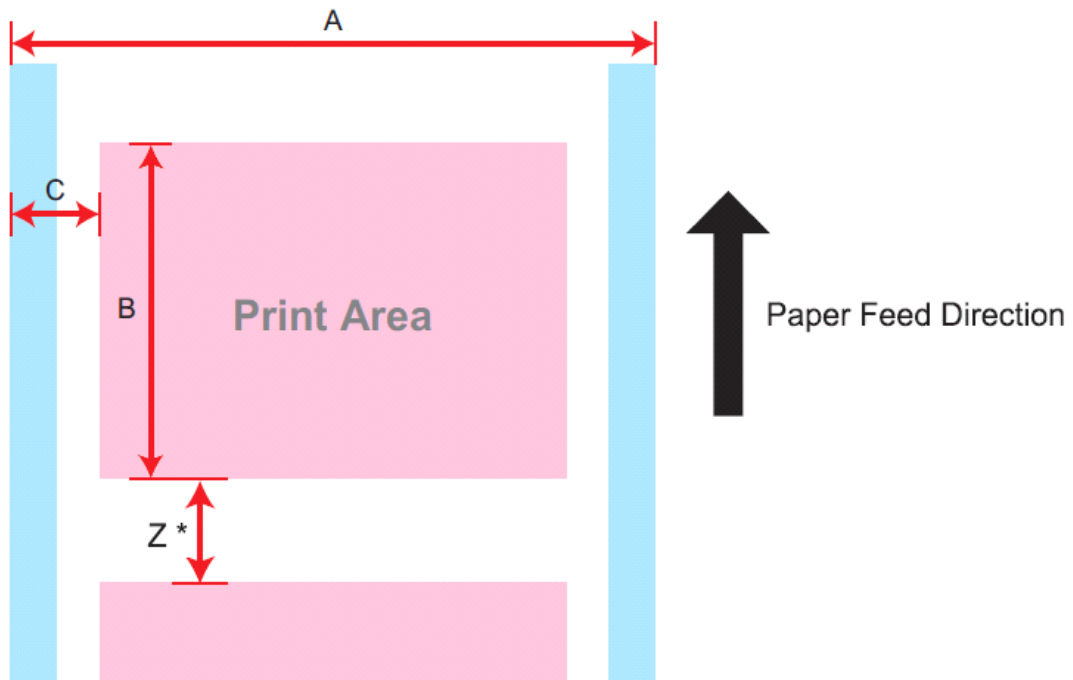
Continuous label (black mark detection)



Symbols	Function	Parameter
A	Label Stock Width	25.4 to 112 mm (1 to 4.41 inch)
B	Label Stock Height	8 to 406.4 mm (0.31 to 16 inch)
C	Distance from Edge: Left	2.0 mm or more (0.07 inch or more)
D	Distance from Edge: Top	0 mm or more (0 inch or more)

\*: When setting parameters, keep the distance "Z" shown above between 0 mm and 6 mm.

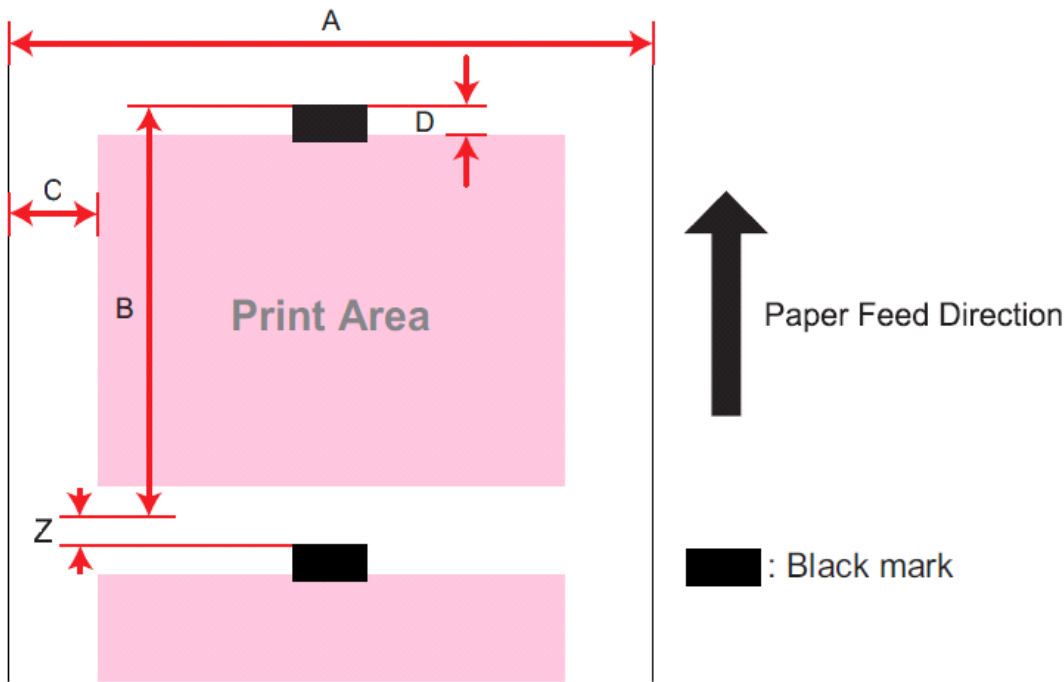
## Continuous label (no detection)



Symbols	Function	Parameter
A	Label Stock Width	25.4 to 112 mm (1 to 4.41 inch)
B	Label Stock Height	8 to 406.4 mm (0.31 to 16 inch)
C	Distance from Edge: Left	2.0 mm or more (0.07 inch or more)
D	Distance from Edge: Top	0 mm (0 inch)

\*: The value of Z should be set to "Gap Between Labels" in the printer panel or the PrinterSetting software.

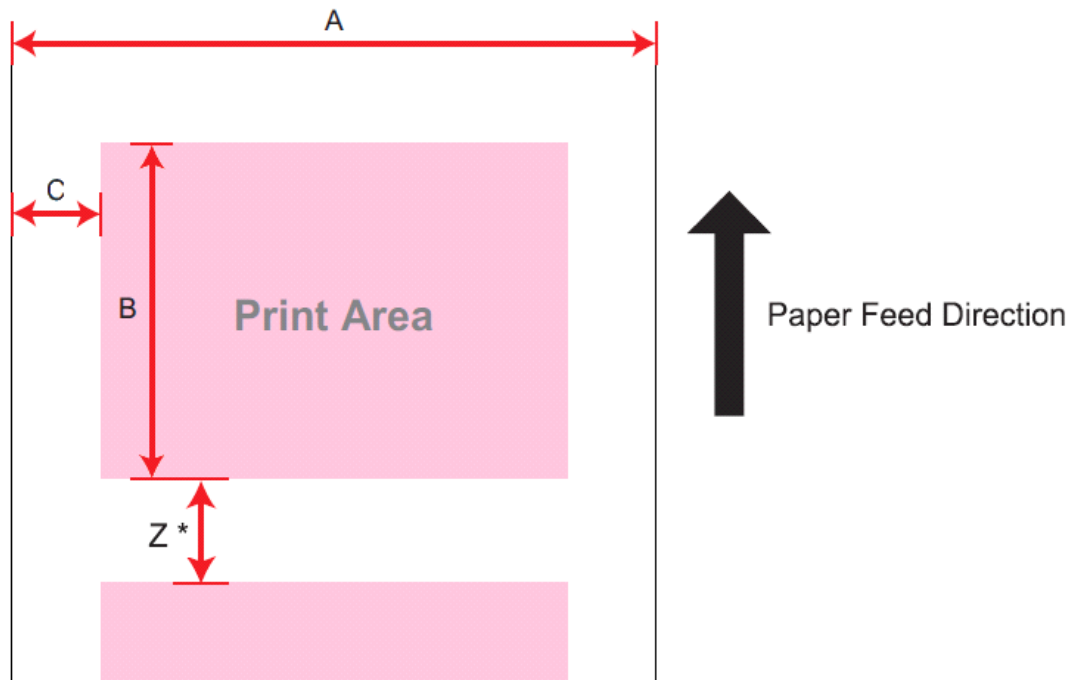
Continuous paper (black mark detection)



Symbols	Function	Parameter
A	Label Stock Width	25.4 to 108 mm (1 to 4.25 inch)
B	Label Stock Height	8 to 406.4 mm (0.31 to 16 inch)
C	Distance from Edge: Left	2.0 mm or more (0.07 inch or more)
D	Distance from Edge: Top	0 mm or more (0 inch or more)

\*: When setting parameters, keep the distance "Z" shown above between 0 mm and 6 mm.

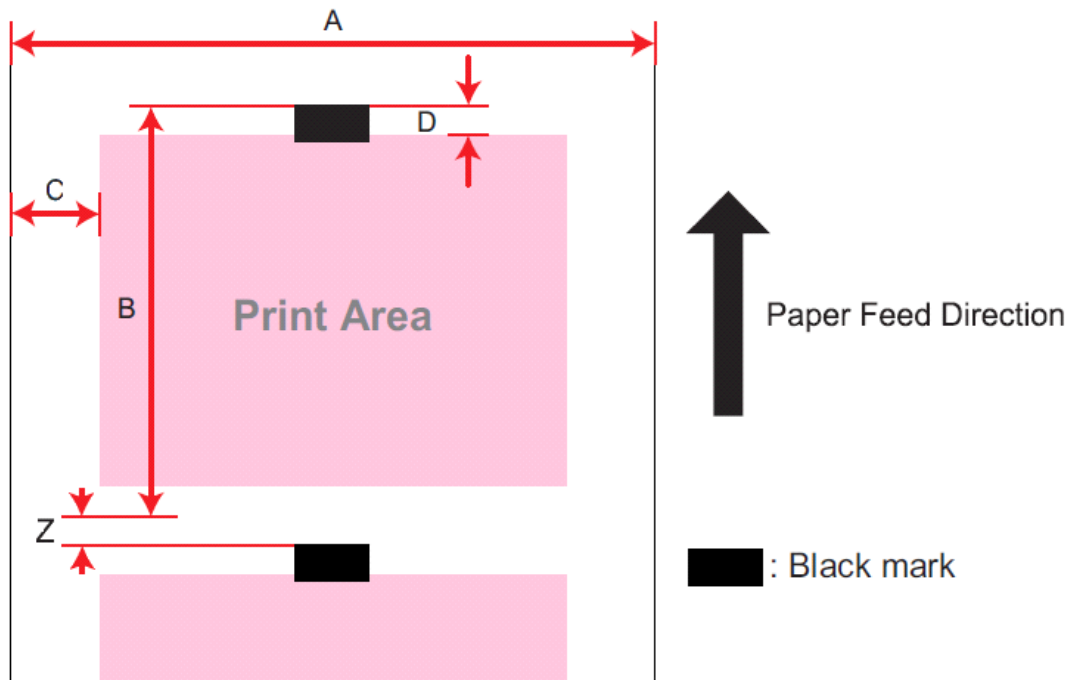
## Continuous paper (no detection)



Symbols	Function	Parameter
A	Label Stock Width	25.4 to 108 mm (1 to 4.25 inch)
B	Label Stock Height	8 to 406.4 mm (0.31 to 16 inch)
C	Distance from Edge: Left	2.0 mm or more (0.07 inch or more)
D	Distance from Edge: Top	0 mm (0 inch)

\*: The value of Z should be set to "Gap Between Labels" in the printer panel or the PrinterSetting software.

## Wristband (black mark detection)



Symbols	Function	Parameter
A	Label Stock Width	25.4 to 108 mm (1 to 4.25 inch)
B	Label Stock Height	8 to 406.4 mm (0.31 to 16 inch)
C	Distance from Edge: Left	2.0 mm or more (0.07 inch or more)
D	Distance from Edge: Top	0 mm or more (0 inch or more)

\*: The value of Z should be set to "Gap Between Labels" in the printer panel or the PrinterSetting software.

## Test Printing

Always be sure to perform a test printing from the application that is actually being used before starting operations.

If desired printing results is not obtained, review the settings you made in [Set up \(page 10\)](#) and [SAP GLM Setting \(page 21\)](#).

## Note for Printing Barcodes

When specifying a width of a barcode by the number of dots, set the value in SAP WWI based on the Resolution setting you made in [Set up \(page 10\)](#).

## About HWGEN=1 Option

HVP Plug-in for EPSON CW-C40x0 supports HWGEN=1 option in the following @TD tags.

- @TD\_LBLSRN
- @TD\_CLOCK



When HWGEN=1 option is applied to @TD tag, the tag is printed in black-and-white.

## When this happens

Phenomenon	Countermeasure	Ref.
Cannot print	From the control panel of the printer, select the [PRINTER SETUP3] menu and check that the followings have been set to their default settings. <ul style="list-style-type: none"> <li>• CONTROL PREFIX (default: 0x7E)</li> <li>• FORMAT PREFIX (default: 0x5E)</li> <li>• DELIMITER CHAR (default: 0x2C)</li> </ul>	*
MEDIA SIZE ERROR occurs	Check that the media size settings in SAP GLM matches with the size of media actually used.	<a href="#">page 21</a>

\*: Refer to CW-C4000 Series Technical Reference Guide. See the "Operation Panel Settings" page in the "Handling" section.

# Product information

## ***OPEN SOURCE SOFTWARE LICENSE***

1. This printer product includes open source software programs listed in Section 4) according to the license terms of each open source software program.
2. The open source software programs are WITHOUT ANY WARRANTY; without even an implied warranty of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. See the license agreements of each open source software program for more details, which are described in OSS.pdf.
3. The license terms of each open source software program are described in OSS.pdf.
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### libpng License

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