



Windows Driver User's Guide

Table of Contents

1	Introduction	2
	1.1 Overview	2
	1.2 Trademarks	2
	1.3 System Requirements	2
2	Installing and Uninstalling the Driver	4
3	How to Use the Printer Driver	5
•		
	3.1 How to Display the Setting Screen	6
	3.1.1 How to Display the Printer Properties	
	3.1.2 How to Display the Printing Preterences (Document Properties)	9
•	3.2 Initial Settings	
	3.2.1 Port Setting (for Serial Interface)	
	3.2.2 Setting Custom Paper	
2	3.3 Printing from an Application	15
•	3.4 Printing Bar Codes and 2D Codes	
4	Setting up the Printer Driver	19
4	4.1 [Custom Paper] Tab	20
4	4.2 [Paper] Tab	23
4	4.3 [Paper Cut and Paper Feed] Dialog Box	
4	4.4 [Graphics] Tab	
4	4.5 [Operations] Tab	
4	4.6 [Bar Code] Tab	
	4.6.1 List of Supported Bar Codes and 2D Codes	
	4.6.2 How to Register a New Bar Code Font	
	4.6.3 How to Change Bar Code Font Settings	
	4.6.4 Setting Items (for all Bar Codes)	40
	4.6.5 Bar Code Settings	43
	4.6.6 DataMatrix Code Settings	
	4.6.7 MaxiCode Settings	47
	4.6.8 PDF417 Code Settings	
	4.6.9 QR Code Settings	51
5	Precautions for Use	52
Į	5.1 Warnings for Printer Driver Settings	52
į	5.2 Application Warnings	53
ę	5.3 Bar Code and 2D Code Warnings	54
ţ	5.4 Other Notes	56
6	Revision History	57

1 Introduction

1.1 Overview

This document describes how to use the Windows printer driver for the LD670 printer.

The LD670 Windows printer driver is a software program for printing documents from Windows applications to the LD670 printer. It converts printing data from applications into the format required by the LD670 and sends it to the printer. You can also set various printing functions such as bar codes, paper saving, print position alignment, and paper cutting.

1.2 Trademarks

All company names and product names contained in this manual are registered trademarks or trademarks of their respective owners.

1.3 System Requirements

This printer driver can be used with the following system configurations.

> Printer Setup

- Error : Auto Recovery
- Cover Open Error: Auto Recovery

<Guide> The above settings are the factory defaults.

Usually, you do not have to modify the setting. However, the OPOS driver uses "Recovery by Command" as the [Error] setting and therefore you need to change the default value in this case.

For information on how to set the value, please see the printer User's Guide.

Host Hardware

A personal computer with the following interfaces running one of the listed operating systems (OS).

- Serial interface
- Parallel interface compatible with Centronics
- USB interface
- LAN interface

<Guide> LAN Interface

When using the driver on a LAN, install the "PR-PortManager", printing client software. For information on how to install and use "PR-PortManager", please see the "Installation Guide".

\triangleright	Op	perating System (OS)	
	•	Microsoft® Windows® 2000	(*1)
	•	Microsoft® Windows® XP Professional	(*2)
	•	Microsoft® Windows® XP Home Edition	(*2)
	•	Microsoft® Windows Vista® Enterprise	(*3)
	•	Microsoft® Windows Vista® Business	(*3)
	•	Microsoft® Windows Vista® Ultimate	(*3)
	•	Microsoft® Windows Vista® Home Premium	(*3)
	•	Microsoft® Windows Vista® Home Basic	(*3)
	•	Microsoft® Windows® 7 Ultimate	(*4)
	•	Microsoft® Windows® 7 Enterprise	(*4)
	•	Microsoft® Windows® 7 Professional	(*4)
	•	Microsoft® Windows® 7 Home Premium	(*4)
	•	Microsoft® Windows® 7 Starter	(*4)
	•	Microsoft® Windows Server® 2003, Enterprise Edition	(*5)
	•	Microsoft® Windows Server® 2003, Standard Edition	(*5)
	•	Microsoft® Windows Server® 2008, Enterprise Edition	(*6)
	•	Microsoft® Windows Server® 2008, Standard Edition	(*6)
	•	Microsoft® Windows Server® 2008 R2, Enterprise Edition	(*7)
	•	Microsoft® Windows Server® 2008 R2, Standard Edition	(*7)
	•	Microsoft® Windows® Embedded for Point of Service	(*8)
	•	Microsoft® Windows® Embedded POSReady 2009	(*9)

<Guide> The 64-bit OS versions are also supported.

In this document, each of the products is abbreviated as follows:

- *1 : Windows 2000
- *2 : Windows XP
- *3 : Windows Vista
- *4 : Windows 7
- *5 : Windows Server 2003
- *6 : Windows Server 2008
- *7: Windows Server 2008 R2
- *8 : WEPOS
- *9: WEPOS 2009

2 Installing and Uninstalling the Driver

For information on how to install or uninstall this printer driver, please see the following topics:

- "3. Installation" in the "Installation Guide"
- "5. Uninstallation" in the "Installation Guide"

3 How to Use the Printer Driver

This section describes how to setup the printer driver and the typical printing methods for printing documents from Windows applications to the LD670 printer.

After the printer driver is installed, printing a document from an application is performed as follows:

I Install the printer driver

I Set the port

If using with serial interface, configure the settings for the serial interface on the [Ports] tab of the [Printer Properties].

⇒ [See Also]

3.1.1 How to Display the Printer Properties

3.2.1 Setting Port (for Serial Interface)

III Set the custom paper type

While this printer driver provides four standard paper sizes, you can also create and register new paper sizes for the printer driver using the [Custom Paper] tab of [Printer Properties].

 \Rightarrow [See Also]

3.1.1 How to Display the Printer Properties

3.2.2 Setting Custom Paper

IV Print from application

Configure the print setup for the printer driver and print the document created in the application with the printer.

\Rightarrow [See Also]

3.1.2 How to Display the Printing Preferences (Document Properties)

3.3 Printing from an Application

<Typical Printing Method>

3.4 Printing Bar Codes and 2D Codes

3.1 How to Display the Setting Screen

There are two types of setting screens for the printer driver:

Printer Properties

In the [Printer Properties] screen, you configure the initial settings required for the printer driver to print documents, such as the custom paper and port (serial interface, for example) settings.

eneral	Sharing	Ports	Advanced	Color Management	Security	Custom Paper
-		LD670 F	laster			
<u>L</u> ocati	on:					
<u>C</u> omn	nent:					
Model: LD670 Raster		aster				
Features Color: No				Paper availabl	e:	
Dou	ble-side	l: No				
Stap	le: No					
Spe	ed: Unkn	own				
Max	imum re	solution	: 203 dpi			T
			Pr	<u>e</u> ferences	Print	<u>T</u> est Page

Printing Preferences (Document Properties)

In the Printing Preferences screen, you configure various printing features of the printer driver (for example, bar code or paper cut).

🖶 LD67	0 Raster Printing Preferences
Paper	Graphics Operation Bar Code
Pap	er
Pap	er Size(Z) 70 x 297 mm 🔹
Out	put Size(O) Same as Paper Size Transfer to Printer(S)
Sav	ing Paper(E) Off ▼ (0.11mm(M) (0.01inch(I))
Ori © Prir Hor Ver	antation Normal) Potrait@)) Landscape() Rossion Adjustment trait@Direction 0.0 0 mm trait@Direction 0.0 0 mm trait@Direction 0.0 0 mm (-) ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
	Collate(T) Version(V) Paper Cut and Paper Feed(E) Default Settings(D)
	OK Cancel Apply Help

The following section explains how to display each of the screens.

Please note that the actual menu names may vary depending on the Windows screen settings.

3.1.1 How to Display the Printer Properties

Administrative privileges are required to change the printer properties. Log on with an Administrator account to change the settings.

(1) Open the Printer folder.

For Windows 2000

From Windows' [Start] menu, select [Settings]→[Printers].

For Windows XP Professional

From Windows' [Start] menu, select [Printers and Faxes].

For Windows XP Home Edition

From Windows' [Start] menu, select [Control Panel]→[Printers and Other Hardware], and on the [Printers and Other Hardware] screen, select [View installed printers or fax printers].

For Windows Server 2003

From Windows' [Start] menu, select [Printers and Faxes].

For Windows Vista

From Windows' [Start] menu (), select [Control Panel], and on the [Hardware and Sound] screen, select [Printers].

For Windows Server 2008

From Windows' [Start] menu, select [Control Panel]→[Printers].

For Windows 7

From Windows' [Start] menu [69], select [Devices and Printers].

For Windows Server 2008 R2

From Windows' [Start] menu, select [Devices and Printers].

- (2) Right-click "LD670 Raster" and select [Properties].
 - * For Windows Vista and Server 2008, if [Run as administrator] is displayed when you right-click a printer name, select [Run as administrator]→[Properties].
 If the [User Account Control] dialog is displayed, select [Continue].
 - * For Windows 7 and Server 2008 R2, right-click the printer name and select [Printer Properties].
- (3) The properties screen is displayed for the selected printer.

ionoral	Charing	Deste	Adversed	Color Management	Constant	Curtue Dance	
cilciai	Snanng	Ports	Advanced	Color Management	Security	Custom Paper	
17	-						
200 LD670 F		laster					
<u>L</u> ocatio	on:						
Comm	ient:						
_							
M <u>o</u> del	: 1	LD670 R	aster				
Featu	ires						
Colo	or: No			Paper availabl	e:		
Dou	ble-sided	l: No				*	
Stap	le: No						
Spee	ed: Unkno	own					
Max	imum re	solution	: 203 dpi			Ŧ	
				-(Dutat	Task Daras	
			Pr	eterences	Print	<u>T</u> est Page	

3.1.2 How to Display the Printing Preferences (Document Properties)

- (1) Open the Printer folder.See 3.1.1(1) for instructions on how to open the Printer folder.
- (2) Right-click "LD670 Raster" and select [Printing Preferences].
- (3) The Printing Preferences screen is displayed for the selected printer.

LD670 Raster Printing Preferences								
Paper Graphics Operation Bar Code								
Paper Paper Size(<u>Z</u>) [70 x 297 mm								
Output Size(O) Same as Paper Size Transfer to Printer(S)								
Saving Paper(E) Off								
Orientation Normal Portrait(P) Landscape(L) Rotate 180(R) Print Position Adjustment Horizontal(X)Direction 0.0 mm								
Vertical(Y)Direction 0.0 mm $(-) \leftarrow \times (+)$ Number of Copies(C) 1 \leftarrow Collate(T) Vertical(Y)								
Paper Cut and Paper Feed(<u>F</u>) Default Settings(<u>D</u>)								
OK Cancel Apply Help								

The values specified in the printer folder (shown above) are used as the initial values when printing from an application. You can also set the values for each job from within the application. For information on how to set the values in the application, please see "3.3 Printing from an Application".

3.2 Initial Settings

Setup the following items before using the printer driver to print documents. The initial values are specified in the printer properties screen.

- Set Port (for Serial Interface)
- Set Custom Paper

The settings are as follows.

3.2.1 Port Setting (for Serial Interface)

If this printer driver is used with the serial interface, set the port as follows:

Bits per second :	115200
-------------------	--------

•	Data bits	:	8
	Data bits	•	0

•	Parity	:	None
•	Stop bits	:	1

Flow control : Hardware

The procedure is as follows.

- (1) Open the Printer folder.See 3.1.1(1) for instructions on how to open the Printer folder.
- (2) Right-click "LD670 Raster" and select [Properties].
 - * For Windows Vista and Server 2008, if [Run as administrator] is displayed when you right-click a printer name, select [Run as administrator]→[Properties].
 If the [User Account Control] dialog is displayed, select [Continue].
 - * For Windows 7 and Server 2008 R2, right-click a printer name and select [Printer Properties].
- (3) Click the [Ports] tab and select the connected port (COMx:). * "x" of "COMx:" indicates the port number.
- (4) Click the [Configure Port] button.
- (5) In the [COMx Properties] screen, set the bits per second, data bits, parity, stop bits, and flow control, and click the [OK] button.
- (6) Click the [OK] button in the properties screen.

3.2.2 Setting Custom Paper

This printer driver provides the following four standard paper sizes.

Papar Siza		Margin (mm)				
Fapel Size	raper rypes	Left	Right	Тор	Bottom	
83 x 297 mm	Normal	1.0	2.0	0.0	0.0	
80 x 297 mm	Normal	4.0	4.0	0.0	0.0	
70 x 297 mm	Normal	3.0	3.0	0.0	0.0	
79 x 101.6 mm	Label	3.0	3.0	1.5	1.5	

Custom Paper is also supported. Printing to various sizes of papers and labels are available. For using Custom Papers, pre-setup of the Custom Paper is required. Follow the 2 steps below.

• I. Registering the Custom Paper to the printer driver

Register the details including the size and the type of the nonstandard paper to print from the application. Printing to the new paper is available by this operation.

II. Transferring the details of Custom Paper settings to the printer (Paper Layout Settings) This printer performs the Automatic Layout detection that sets the paper layout depending on the paper placed automatically. For the adjustment of the margin and the cut position, configure the Paper Layout Settings with the printer driver and the utility.

The details of the respective step are as follows.

I. Registering Custom Paper to the printer driver

- (1) Open the Printer folder.See 3.1.1(1) for instruction on how to open the Printer folder.
- (2) Right-click "LD670 Raster" and select [Properties].
 - * For Windows Vista and Server 2008, if [Run as administrator] is displayed when you right-click a printer name, select [Run as administrator]→[Properties].
 If the [User Account Control] dialog is displayed, select [Continue].
 - * For Windows 7 and Server 2008 R2, right-click a printer name and select [Printer Properties].

Click the	(3)	
(4) (5)	LD670 Raster Properties General Sharing Ports Advanced Color Management Securit Custom Paper Paper(F): Delete(D) Save(S) Transfer to Printer(P)	(7)
(6)	Paper Name(N): Label-A Paper Type(Y): Label [S1] Paper Width: 83.0 \$ [25.4 - 83.0] mm [S2] Label Width: 79.0 \$ [21.4 - 79.0] mm [S3] Paper Height: 50.0 \$ [15.0 - 101.6] mm [S4] Between Labels: 5.0 \$ [3.0 - 10.0] mm [S5] Cut Position: 0.0 \$ [-2.5 - 2.5] mm Margin: [L]Left: 3.0 \$ mm [R]Right: 3.0 \$ mm [R]Right: 3.0 \$ mm	(6)
	OK Cancel Apply Help	

(3) Click the [Custom Paper] tab.

- (4) Check [Create a New Paper].
- (5) Enter a paper name in [Paper Name].
 - * The paper name can be unique. The figure above shows an example with the name "Label-A."
- Select the [Paper Type] and [Unit], and enter the [S1], [S2], [S3], [S4], [S5], [L], [R], [T] and [B] values according to the layout shown in the box.
 The [S5] Cut Position does not usually need the change.
 - * Changing between units can result in a rounding error of 0.1mm. If this happens, set the value again.
- (7) Click the [Save] button.

The created paper is added to the [Paper] list.

Paper(F):		
Label-A		

(8) Click the [OK] button to close the properties screen.

* When printing documents, the registered paper will be available for selection in the [Paper Size] field in the [Printing Preferences] screen.

LD670 Raster Printing Preferences
Paper Graphics Operation Bar Code
Paper Paper Size(Z) ◆ Output Size(O) Saving Paper(E) Label-A (83.0 × 50.0 mm)
Orientation Normal \bigcirc Portrait(P) \bigcirc Landscape(L) \bigcirc Rotate 180(R) \bigcirc Indextor (Adjustment Horizontal(X)Direction \bigcirc 0.0 \bigcirc mm $(+)$ $(+)$ $(-) \longleftrightarrow X^{(+)}$ $(-) \longleftrightarrow X^{(+)}$ Number of Conject(C) \bigcirc $(-) \longleftrightarrow \xrightarrow{\times} (+)$ $(+)$ $(-) \longleftrightarrow$ $(+)$ $(+)$ $(+)$ $(+)$ $(+)$ $(+)$ $(+)$ $(+)$ $(-) \longleftrightarrow$ $(+)$
Collate(T) Version(V) Paper Out and Paper Feed(F) Default Settings(D)
OK Cancel Apply Help

The left figure shows example that the custom paper "Label-A" is registered.

II. Transferring the detail of Custom Paper settings to the printer (Paper Layout Settings)

- (1) Go to the [Custom Paper] tab and select the paper to transfer from the [Paper] list.
- (2) Click the [Transfer to Printer] button.
- (3) The confirmation message is displayed. Follow the instruction and click the [OK] button.

Confirmatio	on X
j	Send information of configration on Driver for custom paper in order to change layout setting of printer. - Paper Type : Label - Paper Width : 83mm
	Click OK button after checking follwing items; - Connect printer with PC, and turn power on. - Place the same paper as set by configuration on Printer.
	<note> It may happen Paper Layout Error(ERROR lamp flashes) when paper is replaced. Please click "OK" button when you face this error. When the setting is done, error status is recovered.</note>
	OK Cancel

- * On changing papers, Paper Layout error may be occurred in the situation below.
 - When the type of paper is changed as follows:
 - Label -> Normal
 - Black Mark -> Normal
 - Label <-> Black Mark
 - When the Paper Layout is changed in accordance with the paper.
 (Refer to the "6-5. Paper Layout Errors" in the Printer User's Manual about Error Condition)
- * If Paper Layout Error is not released after settings, check that the Custom Paper Settings meets the paper placed in the printer again.
- * [Transfer to Printer] is available without placing the new paper, but make sure that the new paper is placed on printing.

This is the end of Paper Layout Settings.

(4) Click the [OK] button to close [LD670 Raster Properties].

3.3 Printing from an Application

You can use the paper types registered with the printer driver to print documents from applications. As an example, this section describes how to print a document on the LD670 printer using WordPad.

- (1) Select [Page setup] from the [File] menu of WordPad.
- (2) In the [Page Setup] screen, set the Paper Size, Orientation and Margins, and click the [OK] button.



- (3) Edit the document in the WordPad screen.
- (4) Select [Print] from the [File] menu.
- (5) The [Print] screen is displayed. Specify the "LD670 Raster" printer in [Select Printer].
- (6) To specify the settings for the printer driver, click the [Preferences] button.
 * This button depends on the application.

In Word or Excel, for example, the button name becomes [Properties].



- (7) The [LD670 Raster Properties] (Printing Preferences) screen is displayed. Specify the settings and click the [OK] button.
- (8) Specify [Page Range] or [Number of copies] as needed, and click the [Print] button.

Paper Paper Paper (Stat2) 70 x 297 mm Output Stat(0) Same as Paper Size Saving Paper (E) Off (0.11mm(M) @ 0.01md(1)	
Orientation	
Vumber of Copies(C) 1 Collate(T) Version(V) Paper Cut and Paper Feed(F) Default Settings(D)	

Print General Select Printer Madd Printer	Microsoft XPS Documen
In Fax In Fax	•
Status: Ready Location: Symment:	Print to file Preferences Find Printer
Page Range	Number of copies: 1
Pages: 1-65535 Enter either a single page number or a single page range. For example, 5-12	Collate
Prir	t Cancel Apply

(9) The print data is sent to the printer and the document is printed.

3.4 Printing Bar Codes and 2D Codes

This printer driver supports printing of various bar codes and 2D codes. This enables you to print bar code or 2D codes from general applications such as Word or Excel.

How a bar code or 2D code is printed

When the printer driver is used, a number of fonts with names corresponding to types of bar code (see [1] bar code font) are added to the fonts available in the application. To print text as a bar code, enter the text in the document (see [2] bar code data) and assign the desired bar code font. The same method can be used to print 2D codes.



The procedure for printing a bar code or 2D code is as follows.

How to print a bar code or 2D code

- (1) Start the application and set the paper size for the document.
- (2) In the application's edit screen, enter the data to be printed as a bar code or 2D code.



(3) Select the entered bar code or 2D code data then use the application's font selection list to select the font corresponding to the type of bar code or 2D code you want to print. The following example prints a "QR code" (a type of 2D code).



(4) Select [Print] from the [File] menu. The [Print] dialog is displayed.

-	J 47 * C	Document4 - Microsoft Word	Print ? X
	New Qpen Save As Save As Print Send Publish	Preview and print the document Image: Print Select a printing options before printing. Image: Option option options Image: Option option option option option options Image: Option optiop	Printer Mame: LD670 Raster Status: Idle Type: LD670 Raster Where: 10.50.138.207.lp Omment: Print to file Page range Ourget page All Corpet page Type page numbers and/or page ranges separated by commas counted from the start of the document to page ranges separated by commas counted from the start of the document to page ranges separated by commas counted from the start of the document to page ranges separated by commas counted from the start of the document to page ranges separated by commas counted from the start of the document to page ranges separated by commas counted from the start of the document to page range separated by commas counted from the start of the document to page range separated by commas counted from the start of the document to page range separated by comma counted from the start of the document to page range separated by comma counted from the start of the document to page range separated by comma counted from the start of the document to page range separated by comma counted from the start of the document to page range separated by comma counted from the start of the document to page range separated by comma counted from the start of the document to page range separated by comma counted from the start of the document to page range separated by comma counted from the start of the document to page range separated by comma counted from the start of the document to page range separated by comma counted from the start of the document to page range separated by comma counted from the start of the document to page range separated separated sepage range separated separated separated separated sep
			 * To specify the bar code or 2D code settings (size, rotatio and so on), click the [Properties] button to open th [Printing Preferences] screen for the printer driver. For detailed information on setting the values, please se "4.6 [Bar Code] Tab".

(5) Click the [OK] button to print out the document.The text to which the bar code font is assigned is printed as a bar code or 2D code.

Documentá - Microsoft Word Home Insert Page Layout References Mailings Review B I I Image Image Image Image Image Paste Image Image Image Image Image Image Cipboard Image Image Image Image Image Image Font Image Image Image Image Image Image	View @ A #A bjtes Editing Print	
123456789 Page: 1 of 1 Words: 1 爻		V

1

4 Setting up the Printer Driver

This section describes the functions in the [Printer Properties] and [Printing Preferences] screens.
The figure below shows how the printer driver settings screen is organized. This section describes the
settings specific to this printer driver (indicated by). Please refer to Windows Help for
information about the Windows settings (indicated by).

Printer Properties		
F	General	Edit printer name, specify the print settings, and print a test page.
	Sharing	Configure the printer share settings.
ŀ	Ports	Configure the port settings.
ŀ	Advanced	Configure the print settings.
┝	Security	Set the printer driver's security.
L	Custom Paper	Create or edit a custom paper size.

Print	Printing Preferences		
		Configure the paper settings and display the version information.	
	Paper	<paper direction,<br="" feed="" output="" paper="" paper,="" saving="" size,="">Print Position Adjustment, Copies, Collate></paper>	
	Paper Cut and Paper Feed	Configure the paper cut and feeder. <paper cut,="" feed,="" form="" of="" paper="" position,<br="" top="">Reducing Blank lines, Skip Blank Pages></paper>	
		Configure the graphics settings	
	Graphics	Color, Half toning, Max Speed, Print Density, BK Density>	
	Operation	Configure the operational settings. <drawer, buzzer,="" logo="" printing=""></drawer,>	
	Bar code	Configure the bar code and 2D code settings. <bar code="" settings=""></bar>	

Г

4.1 [Custom	Paper] Tab
-------------	------------

D670 Raster Properties
General Sharing Ports Advanced Color Management Security Custom Paper
Paper(F):
Save(S)
Create a New Paper(C): Transfer to Printer(P)
Paper Name(N):
[S1] Paper Width: 70.0 (25.4 - 83.0] mm [S2] Label Width: 70.0 (25.4 - 83.0] mm [S3] Paper Height: 297.0 (15.0 - 2039.9] mm [S4] Between Labels: 0.0 (0.0 - 0.0] mm [S5] Cut Position: 0.0 (0.0 - 0.0] mm
Margin: [L]Left: 3.0 ♀mm [T]Top: 0.0 ♀mm Unit [R]Right: 3.0 ♀mm [B]Bottom: 0.0 ♀mm ④ 0.1mm(M) ◎ 0.01inch(1)
OK Cancel Apply Help

Administrative privileges are required to change the [Custom Paper] settings.

Log on with an Administrator account to change the settings.

If you are using Windows Vista or Server 2008, open the properties for the printer from [Run as administrator]. If you are using Windows 7 or Server 2008 R2, open "Printer Properties". For more information, please see "3.1.1 How to Display the Printer Properties."

Setting	Description and Setting Options or Range
Paper	Lists the registered custom paper sizes.
Create a New Paper	Select this checkbox if you want to create a new paper size. Clear if you want to edit a paper size that has already been registered (the paper size selected in the [Paper] list).
Delete	Deletes the paper size selected in the [Paper] list.
Save	Saves the paper size. If you selected [Create a New Paper], the new paper size is added to the [Paper] list. If [Create a New Paper] is cleared, saving overwrites the paper size selected in the [Paper] list.
Transfer to Printer	Transfers the setting information of the paper selected on the [Paper] list and configures Paper Layout Settings of the printer. * Refer to 3.2.2 II for notes on Transfer.

Setting	Description and Setting Options or Range		
Paper Name	Specify the name of the paper size.		
	The name can be unique.		
	The name can be entered if you select [Create a New Paper].		
Paper Type	Specify the type of the paper that you create or modify.		
	Selection		
	Normal		
	Label Black Mark		
	Diack Mark		
[S1]Paper Width	Specify the width of the paper.		
	If you selected an existing cus	tom paper s	ize, the width of the custom
	paper size is displayed.		
	Cotting rongo		
	25.4 - 83.0 mm (1.00 - 3.27 ir	hch)	
	23.4 - 03.01111 (1.00 - 3.2711		
[S2]Label Width	Specify the width of the label the	nat you crea	te or modify.
	When the registered Custom F	Paper is sele	ected, its width except Liner
	Paper is displayed.	n	
[S3]Paper Height	I his setting is available when Specify the height of the paper	[Label] is se	elected in [Paper Type].
	If you selected an existing cust	om paper si	ze the height of the custom
	paper size is displayed.	ioni papor oi	
	Setting range		
	Normal	15.	0 - 2039.9mm
		(1.0	00 - 80.31inch)
	Laber	15.	$0 \sim 101.6 \text{mm}$
	Plack Mark	(0.:	59~4.00Inch)
	DIACK WAIK	15. (0 l	$0 \sim 300.011111$
[S4]Between Labels	Specify the interval between th	U.C) U.C	$59 \sim 11.6$ (inch)
[S4]BM Length	When the registered Custom P	aper is sele	cted the setting value of the
[0]2 201.gan	Custom Paper is displayed.		
	This setting is available when	[Label] or [B	lack Mark] is selected in
	[Paper Type].		
	Set [S4] Between Labels for [L	abelj. Morki	
	Set [S4] BM Length for [Black Mark].		
	Setting Range		
	Label Betwe	en Labels	3.0~10.0mm
			(0.12~0.39inch)
	Black Mark BM Le	ngth	5.0~5.5mm
			(0.20~0.22inch)
[S5]Cut Position	Specify the cut position.	_	
	When the registered Custom Paper is selected, the setting val		elected, the setting value of
	the Custom Paper is displayed. This setting is available when [La		
Margin [I] eft	Specify the left right top and h	ottom marc	ins
[R]Right	If you selected an existing custom paper size, the margins of the		
[T]Top	custom paper size are displayed.		
[B]Bottom			

Setting	Description and Setting Options or Range		
Unit	Specify the units for the paper size dimensions.		
	Setting		
	0.1mm Displays in millimeters.		
	0.01inch	0.01inch Displays in inches.	

4.2 [Paper] Tab

LD670 Raster Printing Preferences		
Paper Graphics Operation Bar Code		
Paper Paper Size(Z) 70 x 297 mm ▼ Output Size(O) Same as Paper Size ▼ Transfer to Printer(S) Saving Paper(E) Off ▼ @ 0.1mm(M) ○ 0.01inch(I)		
Orientation Normal		
Number of Copies(C) 1		
OK Cancel Apply Help		

Setting	Description and Setting Options or Range (*: Default Value)		
Paper Size	Specify the size of the paper.		
	Selection		
	83 x 297 mm	Normal	
	80 x 297 mm	Normal	
	* 70 x 297 mm	Normal	
	79 x 101.6 mm	Label	
	<guide> In addition to the above defaults, using [Custom Paper] are also ava For custom paper sizes, the pape name.</guide>	any paper sizes you have defined ilable. er size is displayed after the paper	

Setting	Description and Setting Options or Range (*: Default Value)	
Output Size	Specify whether to print the document scaled to match the selected paper size (output).	
	Selection	
	* Same as Paper Size	Uses the size specified in [Paper Size]. The document is printed with no scaling. (Normal printing)
	<paper paper="" size="" smaller="" than="" the=""></paper>	Prints the document scaled to match the specified paper size. Only paper sizes with a print area smaller than the paper set in [Paper Size] can be specified.
	 <guide></guide> This setting is available when "Off" is selected for [Saving Paper]. Warning when using scaling 	
	 Problems with print quality such as ink bleed may occur if specified size is too small or depending on the size or type characters being printed. Use the preview image on the righ the screen to check the scaling before printing the docum scaled to the size. The bar codes and logos predefined in the printer driver printed without scaling. If a bar code cannot fit within downscaled paper, it is not printed. Also, the bar code and o print data may overlap depending on the print position. In case, the bar code size and print position should be adjust before printing. 	
Transfer to Printer	Transfers the setting inforn Size] list and configures Pa	nation of the paper selected on the [Output aper Layout Settings of the printer.

Setting	Description and Setting Options or Range (*: Default Value)		
Saving Paper	Specify whether to scale the print data vertically to save paper.		
	Selection		
	* Off	Prints the document normally without saving paper. (Normal printing)	
	1/4	Shrinks the document vertically to save 1/4 of the paper.	
	1/2	Shrinks the document vertically to save 1/2 of the paper.	
	 <guide></guide> This setting can be specified when "Same as Paper Size" is selected in [Output Size]. 		
	• If "1/4" or "1/2" is specified, blank lines at the bottom of the paper are automatically deleted when printing.		
	 Warning when performing saving (scaling) print Problems with print quality such as ink bleed may occur depending on the size or type of character. Check the print quality when using this function. 		
	• The bar codes and logos predefined in the printer driver are printed without scaling. If a bar code cannot fit within the downscaled paper, it is not printed. Also, the bar code and other print data may overlap depending on the print position. In this case, the bar code size and print position should be adjusted before printing.		
Orientation	Specify the orientation of the document to be printed.		
	Selection	_	
	* Portrait	Prints the document vertically.	
	Landscape	Prints the document horizontally.	

Setting	Description and Setting Options or Range (*: Default Value)		
Rotate 180	Specify whether to rotate 180 degrees to print the document.		
	Selection		
	* Off (cleared)	Prints the document without rotating 180 degrees.	
		Orientation = Portrait Landscape	
	On (Selected)	Prints the document after rotating 180 degrees.	
		Orientation = Portrait Landscape \downarrow \downarrow \downarrow \downarrow \downarrow Feeding direction	
Print Position Adjustment	Aligns the print start position.		
	Horizontal (X) Direction Aligns the horizontal position relative to the feeding direction. If a negative value is specified, the left margin is decreased. If a positive value is specified, the left margin is increased. Vertical (Y) Direction Aligns the vertical position relative to the feeding direction. If a negative value is specified, the top margin is decreased. If a positive value is specified, the top margin is increased. Setting range Horizontal (X) Direction \pm Paper Width (*Default value: 0.0mm, Range: 0.5mm) Vertical (Y) Direction \pm Paper Height (*Default value: 0.0mm, Range: 0.5mm) $\int_{(-) \leftarrow X^{(+)}}^{(-)} \prod_{(-) \leftarrow X^{(+)}}^{(-)} \widehat{F}$ Feeding direction		
	<guide> This setting does not apply to logo printing.</guide>		

Setting	Description and Setting Options or Range (*: Default Value)		
Number of Copies	Specify the number of copies to print.		
	Setting range 1 - 999 (* Default value: 1)		
Collate	Specify whether multiple copies of the document are printed by document or by page.		
	Selection		
	* Off (cleared)	Prints the copies of the document by page.	
	On (selected)	Prints the copies of the document by document.	
Paper Cut and Paper Feed	Opens the [Paper Cut and Paper Feed] dialog box. For information on the [Paper Cut and Paper Feed] dialog box, please see Chapter 4.3.		
Version	Opens the [Version] dialog.		
Default Settings	Resets the settings in the [Paper] tab to the default (initial) value.		

4.3 [Paper Cut and Paper Feed] Dialog Box

Paper Cut and Paper Feed			
Start of Document Paper Cut(C)	Off 🗸		
Paper Feed(P)	Top of Form Position 🔻		
End of Page			
Paper Out(U)	On (Full Cut) 👻		
Paper Feed(F)	Top of Form Position 🔻		
End of Document			
Paper Out(T)	On (Full Out) 👻		
Paper Feed(E)	Off 👻		
Top of Form Position(O)			
Reducing Blank Lines(S)	On 👻		
Skip Blank Pages(K)	Off 👻		
If invalid paper size is setup, the printer prints it with the setting of the printer driver. (R)			
OK Cancel Default Settings(D) Help(H)			

Setting	Description and Setting Options or Range (*: Default Value)		
Start of Document	Specify whether to perform a paper cut and feed when printing starts.		
Paper Cut	Specify whether to perform a paper cut when printing starts.		
	Selection		
	* Off	Do not cut the paper.	
	On (Full Cut)	Fully cuts the paper.	
	<guide> When [Paper Type] is [Label] [Black Mark], feeds the paper to Paper Cut Position and then cuts.</guide>		
Paper Feed	Specify whether to perform a paper feed when printing starts.		
	Selection		
	Off	Not feed paper.	
	* Top of Form Position	Feeds paper to the top of form position of Label.	
	<guide> This setting is availa</guide>	ble when [Paper Type] is [Label] [Black Mark].	

Setting	Description and Setting Options or Range (*: Default Value)			
End of Page	Specify whether to perform a paper cut and feed at the end of each			
_	page.			
Paper Cut	Specify whether to perform a paper cut at the end of each page.			
	Selection			
	Off	Do	not cut the paper.	
	* On (Full Cut)	Full	y cuts the paper	
	<guide> When [Paper Type] is [Label] [Black Mark], feeds the paper to Paper Cut Position and then cuts.</guide>			
Paper Feed	Specify whether to p	perfor	m a paper feed at the end of each page.	
	Selection			
	Off		Not feed paper.	
	* Top of Form Position	on	Feeds paper to the top of form position of Label.	
	<guide> This setting is available when [Paper Type] is [Label] [Black Mark].</guide>			
End of Document	Specify whether to perform a paper cut and feed at the end of each document.			
Paper Cut	Specify whether to p	perfor	m a paper cut at the end of each document.	
	Selection			
	Off	Do	not cut the paper.	
	* On (Full Cut)	Full	ully cuts the paper.	
	<guide> When [Paper Type] is [Label] [Black Mark], feeds the paper to Cut Position and then cuts.</guide>		Label] [Black Mark], feeds the paper to Paper cuts.	
Paper Feed	Specify whether to p	erfor	m a paper feed at the end of each document.	
	Selection			
	* Off		Not feed paper.	
	Top of Form Positic	on	To feed the paper to Top of Form Position of next Label.	
	Peeling Off Position	n	To feed the paper to Peeling Off Position.	
	Tear Off Position		To feed the paper to Tea rOff Position.	
	<guide> This setting is available when [Paper Type] is [Label] [Black Mark].</guide>			

Setting	Description and Setting Options or Range (*: Default Value)		
Top of Form Position	Specify the print position from the top edge of the paper.		
	Selection		
	* 12.0mm	Starts to print the document at 12.0mm from the top edge of the paper.	
	1.5mm (Priority is quality)	Starts to print at 1.5mm from the top of paper. Quality has a priority on feeding paper.	
	1.5mm (Priority is speed)	Starts to print at 1.5mm from the top of paper. Speed has a priority on feeding paper.	
	<guide> This setting is availab</guide>	ble when [Paper Type] is [Normal].	
Reducing Blank Lines	Specify whether to save paper by not feeding the margin if there is print data at the bottom (bottom edge if [Orientation] is "Portrait", or right edge if [Orientation] is "Landscape") of the print image.		
	Setting		
	Off	Feeds the paper to the specified paper-length position even if there is no print data in the page.	
	* On	Saves paper by not feeding when there is no print data in the page.	
	<guide> <this <when="" [black="" [label]="" and="" be="" can="" feed="" is="" n="" paper="" setting="" spi="" spi<="" td=""><td>ecified when "Off" is selected in [Saving Paper]. /lark] is selected in [Paper Type], if Paper Cut pecified, the setting [On] is not valid.</td></this></guide>	ecified when "Off" is selected in [Saving Paper]. /lark] is selected in [Paper Type], if Paper Cut pecified, the setting [On] is not valid.	
Skip Blank Pages	Specify whether to save paper by not outputting blank pages.		
	Setting		
	* Off	Prints blank pages. Outputs a blank page for pages with no print data.	
	On	Does not print blank pages. Does not output a blank page for pages with no print data.	
If invalid paper size is setup, the printer prints it with the setting of the printer driver	is Specify whether to print the document using the settings from driver properties if the application specifies an undefined part (dmPaperSize). The recommended setting is "Off". However, turn this setting documents printed by an application do not have the expected the paper is not cut correctly. Selection		
	* Off (cleared)	Prints the document based on the other paper definition (dmFormName) if an undefined paper is specified in dmPaperSize.	
	On (selected))	Prints the document based on the driver properties if an undefined paper is specified in dmPaperSize.	

Setting	Description and Setting Options or Range (*: Default Value)
ОК	Closes this dialog box and saves the changes.
Cancel	Closes this dialog box without saving the changes.
Default Settings	Resets the settings in the [Paper Cut and Paper Feed] dialog box to their default (initial) values.
Help	Displays help for this dialog box.

4.4 [Graphics] Tab

🖶 LD670 Raster P	rinting Preferences
Paper Graphics	Operation Bar Code
Color(C)	Mono
Half toning(H)	Dither 6x6 💌
Max Speed(S)	Depending on Printer Setting
Print Density(T)	Depending on Printer Setting
BK Density(K)	Depending on Printer Setting v
	Dafault Settings(D)
	OK Cancel Apply Help

Setting Item	Description and Setting Options or Range (*: Default Value)		
Color	Specify a color mode.		
	Selection		
	* Mono	Prints the document in monochromatic.	
	2 Color	Prints the document in two colors.	
	<guide> To print the document with "2 Color", please use the paper for two-colors.</guide>		
Half toning	Specify how to perform half toning when colors are converted to black and white.		
	Selection		
	* Dither 6x6	Prints the image with fine mesh pattern. The gradation range is relatively narrower.	
	Dither 8x8	Prints the image with coarse mesh pattern. The gradation range is relatively wider.	
Max Speed	Sets the print speed.		
	Selection		
	* Depending on Printer Setting	Prints the document using the printer setup settings.	
	1st (Low Speed) : 9th (High Speed)	You can select a speed from 1st (Low Speed) to 9th (High Speed).	

Setting Item	Description and Setting Options or Range (*: Default Value)		
Print Density	Specify the print density.		
	Selection		
	* Depending on Printer Setting	Prints the document using the printer setup settings.	
	130% (Darkest)		
	: 70% (Lightest)	You can select a darkness by units of 5% from 130% (darkest) to 70% (lightest).	
BK Density	Specify the black density when printing the document in two colors.		
	Selection		
	* Depending on Printer Setting	Prints the document using the printer setup settings.	
	130% (Darkest) :		
	* 100% : 70% (Lightest)	You can select a darkness by units of 5% from 130% (darkest) to 70% (lightest).	
	<guide> This setting can be specified when "2 Color" is selected in [Color].</guide>		
Default Settings	Resets the settings in the [Graphics] tab to the default (initial) value.		

4.5 [Operations] Tab

aper Graphics	Operation Bar Code
Drawer	
Drawer #1(<u>F</u>)	None Time of Pulse(1) 20 ms
Drawer #2(<u>G</u>)	None ▼ Time of Pulse(2) 20 <a>ms
Buzzer	
Beep(<u>B</u>)	None Time of Beep(I) 50 ms
Logo Printing	
Start of Document(None
Start of Page(<u>P</u>)	None Logo Position
End of Document(E	None Conform to Print Image(I)
	Dafault Settings(<u>D</u>)

Setting	Description and Setting Options or Range (*: Default Value)		
Drawer	Specify the kick behavior of the drawers.		
Drawer #1	Specify the kick behavior of drawer #1.		
	Selection		
	* None	Does not open drawer #1.	
	Start of Document	Opens drawer #1 when printing starts.	
	End of Document	Opens drawer #1 when printing ends.	
Time of Pulse	Specify the kick time (in	milliseconds) when drawer #1 is open.	
	Setting range		
	* 20ms		
	(Range: 20ms)		
	500ms		
Drawer #2	Specify the kick behavior of drawer #2.		
	Selection		
	* None	Does not open drawer #2.	
	Start of Document	Opens drawer #2 when printing starts.	
	End of Document Opens drawer #2 when printing end		
Time of Pulse	Specify the kick time (in milliseconds) when drawer #2 is open.		
	Setting range * 20ms (Range: 20ms) 500ms		

Setting	Description and Setting Options or Range (*: Default Value)		
Buzzer	Specify the behavior of the buzzer.		
Веер	Specify when to ring the buzzer.		
	Selection		
	* None	The buzzer does not ring	
	Start of Document	The buzzer rings when the print is started	
	End of Document	The buzzer rings when the print is ended	
Time of Beep	Specify the ring time by	ms.	
	Satting Dange		
	TUINS (Pango: 10ms)		
	(Range, Toms)		
	(Pango: 10ms)		
	500ms		
Logo Printing	Specify how to perform	logo printing	
Logo Finning	Specify now to perform	logo printing.	
	<guide></guide>		
	This setting is available	when [Paper Type] is [Normal]	
	Before printing a logo	use the utility to register the logo with the printer	
	For information on how t	to register logos, please see "4.5 Setting a Logo"	
	of "Utility User's Guide."		
Start of Document	Specify the logo to print	when printing starts.	
	Selection		
	* None	Does not print a logo when printing starts.	
	Logo 1	Prints the specified logo when printing starts.	
	Logo 5		
Start of Page	Specify the logo to print at the start of each page.		
	Selection		
	* None	Does not print the logo at the head of the page.	
	Logo 1	Prints the specified logo at the head of the	
		page.	
	Logo 5		
End of Document	Specify the logo to print at the end of each document.		
	Selection		
	* None Does not print the logo when printing e		
	Logo 5		

Setting	Description and Setting Options or Range (*: Default Value)		
Logo Position Conform to Print Image	Specify where to print the logos specified in [Start of Document], [Start of Page] or [End of Document].		
	Selection		
	Off (cleared)	Prints the [Start of Document], [Start of Page] or [End of Document] logo at a position based on the feeding direction without considering the finished print image. The logo is printed at a fixed position, ignoring the "Rotate 180" setting of [Orientation].	
	* On (selected))	Prints the logo at a position determined by the finished print image. If "Rotate 180" is specified in [Orientation], both the print image and logo are rotated by 180 degrees when printing the document.	
Default Settings	Resets the settings in the [Operations] tab to the default (initial) value.		

4.6 [Bar Code] Tab

LD670 Raster Printing Pref	erences Bar Code	×	
Bar Code Font List(<u>1</u>) Code 128 Code 29 Code 39 Code 93 EAN 8(JAN 8) ITF RSS Expanded RSS Expanded Stacked RSS Limited RSS-14 Stacked RSS-14 StackedOmnidirectional RSS-14 StackedOmnidirectional RSS-14 Stacked RSS-14 Stacked	Create a New Bar Bar Code Font Name Codabar Bar Code Settings Type(Y) Codabar Replacement Font(None Width(W) Height(H) HRI Text(P) HRI Font(R) Rotation(T)	r Code(C) (N) Add(A) E E 2 162 5 Font A Font A 0 degree	
Delete(E) (Dafault Settings(D)			
OK Cancel Apply Help			

You can change the bar code and 2D code settings such as the width or height and set these in the printer driver. Registered bar codes appear as printer fonts in applications. If you assign one of these fonts to text, the corresponding bar code or 2D code is printed.

This section describes the bar codes and 2D codes supported by the printer driver, how to register a new bar code, and how to change existing bar code settings. It also explains each of the settings.

4.6.1 List of Supported Bar Codes and 2D Codes

The table below lists the types of bar code and 2D code supported by the printer driver.

The supported bar codes and 2D codes (bar codes and 2D codes supported in [Type]) appear as the initial defaults in the [Bar Code Font List].

Bar code font name initially registered in the Bar Code Font List	BarCode Types	LD670
Codabar	Codabar	0
Code 128	Code 128	0
Code 39	Code 39	0
Code 93	Code 93	0
EAN 13(JAN 13)	EAN 13(JAN 13)	0
EAN 8(JAN 8)	EAN 8(JAN 8)	0
ITF	ITF	0
RSS Expanded	GS1 DataBar(RSS) Expanded	0
RSS Expanded Stacked	GS1 DataBar(RSS) ExpandedStacked	0
RSS Limited	GS1 DataBar(RSS) Limited	0
RSS-14	GS1 DataBar(RSS-14) Omni.	0
RSS-14 Stacked	GS1 DataBar(RSS-14) Stacked	0
RSS-14 StackedOmnidirectional	GS1 DataBar(RSS-14) StackedOmni.	0
RSS-14 Truncated	GS1 DataBar(RSS-14) Truncated	0
UPC type A	UPC type A	0
UPC type E	UPC type E	0
DataMatrix Code	DataMatrix Code	0
MaxiCode	MaxiCode	0
PDF417 Code	PDF417 Code	0
QR Code	QR Code	0

O: Supported, -: Unsupported

4.6.2 How to Register a New Bar Code Font

- (1) Open the printer driver's print settings from the printer folder.
- (2) Open the [Bar Code] tab and select the [Create a New Bar Code] checkbox. (New creation mode)

To copy font settings from an existing bar code or 2D code, select the bar code font from [Bar Code Font List].

↓

The name and settings of the selected bar code font appear in [Bar Code Font Name] and [Bar Code Settings].

- (3) Enter the new bar code font name in [Bar Code Font Name].
- (4) Make any changes to [Bar Code Settings].
- (5) Click [Add].

Ţ

The bar code font is added to [Bar Code Font List]. The added font is listed alphabetically (in ascending order) sorted by whether they are 1D or 2D.

- * If you select another item from [Bar Code Font List] without clicking [Add], the changes made in steps (3) and (4) are discarded.
- (6) Click [Apply] or [OK] to apply the added settings to the driver.
 - * Note that if you click [Add] and then [Cancel], the settings will not be applied.

4.6.3 How to Change Bar Code Font Settings

- (1) Open the printer driver's print settings from the printer folder.
- (2) Open the [Bar Code] tab and clear the [Create a New Bar Code] checkbox. (Edit mode)
- (3) Select a bar code font to edit from [Bar Code Font List].

↓

The name and settings of the selected bar code font appear in [Bar Code Font Name] and [Bar Code Settings].

- (3) Make any changes to [Bar Code Settings].
- (4) Click [Apply] or [OK] to apply the added settings to the driver.
 - * If you select another item from [Bar Code Font List], any changes you made will remain available temporarily. However, you need to click [Apply] or [OK] to apply the settings to the driver.

4.6.4 Setting Items (for all Bar Codes)

Setting	Description and Setting Options or Range (*: Default Value)
Bar Code Font List	Lists the bar code fonts registered with the driver.
	<guide> Bar code fonts in this list are registered in the operating system (OS) as printer fonts and become available for use in applications. </guide>
	 The bar codes or 2D codes supported by the printer driver are set as defaults. For more information, please see "4.6.1 List of Supported Bar Codes/2D Codes."
	 Up to 30 fonts can be registered (including those initially registered).
	 The bar code fonts in the list appear alphabetically (in ascending order) sorted by whether they are 1D or 2D.
Delete	Deletes the bar code font selected in [Bar Code Font List].
	Guide> This setting is available if: • You open the driver properties (Printing Preferences screen) from the printer folder. You cannot specify the setting when you open the driver properties from an application.

Setting	Description and Setting Options or Range (*: Default Value)	
Create a New Bar Code	Select if you want to creat	e a new bar code font.
	Selection	
	* Off (cleared)	Edit mode Use this to edit the settings of a registered bar code font (the font selected in [Bar Code Font List]).
	On (selected))	Create mode Use this to create a new bar code font. The font is registered in [Bar Code Font List] by clicking the [Add] button.
	 <guide> This setting is available if: You open the driver properties (Printing Preferences screen) from the printer folder. The number of registered bar code fonts is less than the maximum (30). </guide> 	
Bar Code Font Name	 Enter the name of the new bar code font. <guide> This setting is available if: You open the driver properties (Printing Preferences screet from the printer folder. You specified create mode (the [Create a New Bar Code] checkbox is selected). </guide> Up to 31 characters (for 1-byte) or 15 characters (for 2-byte) core be entered. The following characters cannot be used: Space (blank) at the head or tail of the name "@" symbol 	
Add	Adds the bar code font [Bar Code Font List]. The settings specified in [Bar Code Settings] are saved.	
	 <guide></guide> This setting is available if: You open the driver properties (Printing Preferences screen) from the printer folder. You specified create mode (the [Create a New Bar Code] checkbox is selected). There is no font with the same name in [Bar Code Font List] or registered in the system (OS). 	

Setting	Description and Setting O	ptions or Range (*: Default Value)		
Bar Code Settings	Specify the various settings for the bar code or 2D code in create or edit mode.			
Туре	Specify the type of bar code or 2D code. For information on the available code types, please see "4.6.1 List of Supported Bar Codes/2D Codes." Guide> This setting is available if: You open the driver properties (Printing Preferences screen) from the printer folder. If you change this setting, the other [Bar Code Settings] are updated with the default values for the new [Type].			
Replacement Font	Use this setting if you want to print using the bar code or 2D code selected in [Type] in place of a font registered in Windows.			
	Selection			
	* None	Does not replace a Windows-registered font with a bar code or 2D code when printing. Instead, only prints a bar code or 2D code for the bar code or 2D code type selected in [Type].		
	(Font registered in Windows)Replaces the specified Windows-registered font with the bar code or 2D code selected in [Type].			
Default Settings	Resets the settings of the bar code (2D code) selected in [Type] to the default (initial) value.			

4.6.5 Bar Code Settings

Setting	Description and Setting Options or Range (*: Default Value)				
Туре	Please see "4.6.4 Setting Items (for all Bar Codes)."				
Replacement Font	Please see "4.6.4 Setting Items (for all Bar Codes)."				
Width	Specify the width of the narrow bar. (by 1/203 inch.)				
	 Setting range For the bar codes (A): 1 - 6 *Default value: 2 For the bar codes (B) and (C): 1 - 8 *Default value: 2 (A) Codabar, EAN 13(JAN 13), EAN 8(JAN 8), Code 39, ITF, Code 93, UPC type A, UPC type E, Code 128 (B) RSS-14, RSS-14 Truncated, RSS Limited, RSS Expanded (C) RSS Expanded Stacked, RSS-14 Stacked, RSS-14 Stacked Omnidirectional				
	<guide> A setting of at least two d using a one-dot width, be bar code reader, the pape</guide>	ots is recommended for the [Width]. When sure to carefully evaluate factors such as the er, and the printer's print darkness settings.			
Height	Specify the height of the l	par code. (by 1/203 inch.)			
	Setting range For the bar codes (A): 1 - 255 *Default value: 162 For the bar codes (B) and (C): 1 - 600 *Default value: 162				
HRI Text	Specify whether and how to print the HRI text.				
	Selection				
	* None	Does not print the HRI text.			
	Тор	Prints the HRI text above the bar code.			
	Bottom	Prints the HRI text below the bar code.			
	Top and Bottom	Prints the HRI text above and below the bar code.			
	<guide> This setting is available when Barcode of Group A or B is s [Type]. This setting is unavailable when Barcode of Group selected in [Type].</guide>				
HRI Font	Specify the typeface for the HRI text. This setting can be specified when "Print Top (Bottom, or Top and Bottom)" is selected in [HRI Text].				
	Selection				
	* Font APrints the HRI text with Font A.Font BPrints the HRI text with Font B.Font CPrints the HRI text with Font C.				
	<guide> This setting is available w [Type]. This setting is una selected in [Type].</guide>	when Barcode of Group A or B is selected in Invailable when Barcode of Group C is			

Setting	Description and Setting C	ptions or Range (*: Default Value)		
Maximum Width of	Specify the maximum width of RSS Expanded Stacked Barcode.			
Barcode	(Unit : 1/203inch)			
	Setting Range			
	106 - 3952 *Initial \	/alue: 160		
	<guides< td=""><td></td></guides<>			
	This setting is available	when RSS Expanded Stacked is selected in		
	[Type].			
Rotation	Specify the rotation angle	for the bar code.		
	Selection			
	* 0 degrees	Prints the bar code based on the		
		[Orientation] setting, without rotating it.		
	90 degrees	Prints the bar code, rotating 90 degrees		
		relative to the [Ohentation] setting.		
	180 degrees	Prints the bar code, rotating 180 degrees relative to the [Orientation] setting.		
	270 degrees	Prints the bar code, rotating 270 degrees		
		relative to the [Orientation] setting.		

<Guide>

- For Code 39 bar codes:
 - Alphabetical characters (A Z) should be specified in uppercase.
 - The start and stop codes (*) are automatically appended by the printer.
 - If '*' exists in the string, the bar code is printed up to '*'. The subsequent string is printed as normal text.
- For Code128 bar codes:
 - Append the start code ({A,{B,{C * 1-byte}) at the head of the string. If there is no start code, the Code128 bar code is not printed.
 - For the start code C, the code or function should not be specified except at the head of the string.
- For ITF bar codes:
 - You can only specify even number of characters.
 - If an odd number of characters is specified, one letter at the end of the string is omitted to create the bar code.
- For the RSS bar code:

 If printing the following RSS-type bar codes, prepend the identifier "01" at the head of the data. RSS-14 RSS-14 Truncated RSS-14 Stacked
 RSS-14 Stacked Omnidirectional RSS Limited

- For RSS Expanded Stacked:
 - [Maximum Width of Barcode] is used to generate the bar code within the specified width.

However, depending on the width of the narrow bar, it can exceed the value specified in [Maximum Width of Barcode].

The followings are the effective [Maximum Width of Barcode] value, relative to the width of the narrow bar:

Width of the	Maximum Width of
Narrow Bar	Barcode
1	53 dots or more
2	106 dots or more
3	159 dots or more
4	212 dots or more
5	265 dots or more
6	318 dots or more
7	371 dots or more
8	424 dots or more

 If you specify the value less than those shown above, the bar code is printed outside the "Maximum Width of Barcode" value.

4.6.6 DataMatrix Code Settings

Setting	Description and Setting Options or Range (*: Default Value)			
Replacement Font	Please see "4.6.4 Setting Items (for all Bar Codes)."			
Туре	Specify the type, square or rectangle.			
	Selection * Square Rectangle			
Square Size	Specify the size of the squ	uare.		
	Setting Range 0, 10 - 144 * Defa	ault value: 0 (Auto)		
Rectangle Size	Specify the size of the rec	ctangle.		
	Selection * 18x8 32x8 26x12 36x12 36x16 48x16			
Cell Size	Specify the size of the cell.			
	Setting Range 3 - 16 * Defa	ault value: 5		
Rotation	Specify the rotation angle for the DataMatrix Code.			
	Selection			
	* 0 degrees	Prints the DataMatrix Code based on the [Orientation] setting, without rotating it.		
	90 degrees	Prints the DataMatrix Code, rotating 90 degrees relative to the [Orientation] setting.		
	180 degrees	Prints the DataMatrix Code, rotating 180 degrees relative to the [Orientation] setting.		
	270 degrees	Prints the DataMatrix Code, rotating 270 degrees relative to the [Orientation] setting.		

4.6.7 MaxiCode Settings

Setting	Description and Setting Options or Range (*: Default Value)		
Replacement Font	Please see "4.6.4 Setting Items (for all Bar Codes)."		
Mode	Specify the mode of the MaxiCode.		
	Selection		
	Mode 2		
	Mode 5		
Service Code	Specify the service code		
Dervice Code	opecity the service code.		
	Setting Range 0 - 999 * Default value: 1		
	<guide></guide>		
	This setting can be specified when [Mode] is either "Mode 2" or "Mode 3".		
Country Code	Specify a country code.		
	Setting Range 0 - 999 * Default value: 1		
	<guide> This setting can be specified when [Mode] is either "Mode 2" or "Mode 3".</guide>		
Zip Code	Specify a zip code.		
	You can enter the following letters: For "Mode 2": 1- to 9-digit number For "Mode 3": 6-digit alphanumeric characters including the following *1		
	ι. Οι πψ/σα () τ,/		
	<guide> This setting can be specified when [Mode] is either "Mode 2" or "Mode 3".</guide>		

Setting	Description and Setting Options or Range (*: Default Value)		
Rotation	Specify the rotation angle for the MaxiCode.		
	Selection		
	* 0 degrees	Prints the MaxiCode based on the [Orientation] setting, without rotating it.	
	90 degrees	Prints the MaxiCode, rotating 90 degrees relative to the [Orientation] setting.	
	180 degrees	Prints the MaxiCode, rotating 180 degrees relative to the [Orientation] setting.	
	270 degrees	Prints the MaxiCode, rotating 270 degrees relative to the [Orientation] setting.	

4.6.8 PDF417 Code Settings

Setting	Description and Setting Options or Range (*: Default Value)		
Replacement Font	Please see "4.6.4 Setting Items (for all Bar Codes)."		
Column	Specify the number of columns.		
	Setting Range 0 - 30 * Default value: 0 (Auto)		
Row	Specify the number of rows.		
	Setting Range 0, 3 – 90 * Default value: 0 (Auto)		
Width	Specify the width.		
	Setting Range 2 - 8 * Default value: 3		
Height	Specify the height.		
	Setting Range 2 - 8 * Default value: 3		
Error Correction	Specify the error correction level of the PDF417 code.		
	Selection Level 0 * Level 1 Level 2 Level 3 Level 4 Level 5 Level 6 Level 7 Level 8		
Compact PDF	Specify this setting if the PDF417 code is printed as a Compact PDF.		
	Selection * Off (Unchecked) On (Checked)		

Setting	Description and Setting Options or Range (*: Default Value)		
Rotation	Specify the rotation angle for the PDF417 Code.		
	Selection		
	* 0 degrees	Prints the PDF417 Code based on the [Orientation] setting, without rotating it.	
	90 degrees	Prints the PDF417 Code, rotating 90 degrees relative to the [Orientation] setting.	
	180 degrees	Prints the PDF417 Code, rotating 180 degrees relative to the [Orientation] setting.	
	270 degrees	Prints the PDF417 Code, rotating 270 degrees relative to the [Orientation] setting.	

<Guide>

If the Column = 0 and Row = 0 (default value), the PDF417 Code is printed by calculating the number of rows based on the minimum number of columns.

4.6.9 QR Code Settings

Setting	Description and Setting Options or Range (*: Default Value)			
Replacement Font	Please see "4.6.4 Setting Items (for all Bar Codes)."			
Cell Size	Specify the size of the cell. Setting range 3 - 12 * Default value: 4			
Model	Specify the type of the QI	R code.		
	Selection			
	Model 1	Specifies QR code model 1.		
	* Model 2	Specifies QR code model 2.		
	Micro	Specifies a micro QR code.		
Error Correction	Specify the error correction	on level of the QR code.		
	Selection			
	* Level L	Can be restored if about 7% of the code is damaged.		
	Level M	Can be restored if about 15% of the code is damaged.		
	Level Q	Can be restored if about 25% of the code is damaged.		
	Level H	Can be restored if about 30% of the code is damaged. This setting cannot be specified when [Model] is [Micro].		
Rotation	Specify the rotation angle for the QR Code.			
	Selection			
	* 0 degrees	Prints the QR Code based on the [Orientation] setting without rotating it.		
	90 degrees	Prints the QR Code rotated 90 degrees relative to the [Orientation] setting.		
	180 degrees	Prints the QR Code rotated 180 degrees relative to the [Orientation] setting.		
	270 degrees	Prints the QR Code rotated 270 degrees relative to the [Orientation] setting.		

5 Precautions for Use

5.1 Warnings for Printer Driver Settings

- (1) Do not select the [Hold mismatched documents] checkbox in the [Advanced] tab. Otherwise, the message "Invalid print setting" is displayed (in the status on the spooler) and the document cannot be printed.
- (2) Set [Enable bidirectional support] in the [Ports] tab of the Printer Properties as follows depending on the interface being used.
 - If using a serial, parallel or USB interface: Selected (Default)
 - If using a LAN interface (PR-PortManager): Cleared
- (3) To use a USB connection to connect two or more of this model of printer:
 - To add more printers, follow these steps to install the printer driver:
 - 1. Set [Serial No] to "Enable" when adding each printer.
 - 2. Install the printer driver again.
 - * The printer setup can be performed from the utility. Please see "Utility User's Guide" for information on how to use the utility. See "3. Installation" of "Printer Driver Installation Guide" for information on how to install the printer driver.
- (4) When the printing area is extremely small by settings of Paper Width (Label Width), Paper Height and Margin, Paper Layout Settings by [Transfer to Printer] may not be reflected to the printer. For the printing area, set 12.0mm or more wide and set 3.8mm or more tall.
- (5) On using [Label] or [Black Mark] with the printer driver set as follows, the print data may be passed the end of page.

(a) End of Page – Paper Feed : Off

(b) Reducing Blank Lines : Off

In this case, adjust the height of the paper or specify [Top of Form Position] for above (a) to print correctly.

(6) When the value of "[S5]Cut Position + [T]Top" exceeds the value of "[S3]Paper Height", the setting change of paper layout may not influence the printer setting.

5.2 Application Warnings

- (1) If printing a document from application software designed for a different version of the Windows operating system, the printout may be different to that version of Windows.
- (2) Depending on the application that you use, the document may not be printed properly if you decrease the margin. In the case of the printer driver's default paper sizes, set the margins to values greater than those shown below.

For custom paper sizes, set the margin when you define the custom paper size.

	Orientation : Portrait			Orientation : Landscape				
Paper Size	Left	Right	Тор	Bottom	Left	Right	Тор	Bottom
	Margin	Margin	Margin	Margin	Margin	Margin	Margin	Margin
83 x 297mm	1.0mm	2.0mm	0.0mm	0.0mm	0.0mm	0.0mm	2.0mm	1.0mm
80 x 297mm	4.0mm	4.0mm	0.0mm	0.0mm	0.0mm	0.0mm	4.0mm	4.0mm
70 x 297mm	3.0mm	3.0mm	0.0mm	0.0mm	0.0mm	0.0mm	3.0mm	3.0mm
79 x 101.6mm	3.0mm	3.0mm	1.5mm	1.5mm	1.5mm	1.5mm	3.0mm	3.0mm

[Unit : mm]

- (3) If you want to print multiple copies, select the collate checkbox. Depending on the application that you use, the document may not be printed properly if you clear the collate checkbox. For applications (such as Microsoft Excel) that print multiple copies by creating multiple print jobs, the [End of Document]-[Paper Cut] setting may not work correctly.
- (4) If using this printer driver to collate copies, the maximum number allowed in the application is "999."

To set a higher number, print the job multiple times.

5.3 Bar Code and 2D Code Warnings

- (1) The bar code fonts provided by the printer driver are defined as printer fonts. These printer fonts may not appear in the font list of some applications. In this case, you can still print bar codes by using the [Replacement Font] setting to specify substitution of a Windows font with a bar code font.
- (2) If an application has a font substitution function, the bar code font may be replaced by a different font in the application.
- (3) A bar code may not be printed if it exceeds the print area for the specified paper due to the settings (narrow bar or rotation, etc.), position, or number of characters. Check the printed result to set the values.
- (4) Do not apply effects (such as bold, italic or outline) when using bar code fonts. Note that the bar code is not printed properly for vertical or wrapped text.
- (5) The printed bar code is not displayed on the application screen.
 - Adjust the position to avoid the bar code or 2D code from overlapping the neighboring characters.
 - The same bar code or 2D code cannot be printed repeatedly on the same line.
- (6) Some applications do not send 2- or 1-byte spaces at the end of strings to the printer driver correctly. If 2- or 1-byte space is specified at the end of the string from an application, the bar code may not print as expected.
- (7) Restrictions for 2D codes
 - Depending on the application, 2-byte spaces in the specified string are printed as 1-byte spaces.
- (8) Bar code and 2D code data
 - If the number of characters in the bar code text is invalid (too many or too few), it is not printed.
 - The following table lists the available character sets and string lengths for bar codes and 2D codes.

[Bar Code]		
Bar Code Type	Available Character Set	String Length
Codabar	Numeral: '0' - '9'	1 - 210
	Symbol: '\$', '+', '-', '.', '/', ':', '\'	
	Start/Stop Character: 'A' - 'D' (automatically appended)	
EAN 13 (JAN 13)	Numeral: '0' - '9'	12 - 13
EAN 8 (JAN 8)	Numeral: '0' - '9'	7 - 8
Code 39	Numeral: '0' - '9'	1 - 210
	Alphabetical: 'A' - 'Z'	
	Symbol: ' ', '%', '\$', '+', '-', '.', '/'	
	* The start/stop character '*' is automatically appended.	
ITF	Numeral: '0' - '9'	2 - 210
Code 93	0x00 - 0x7F	1 - 210
UPC type A	Numeral: '0' - '9'	11 - 12
UPC type E	Numeral: '0' - '9'	11 - 12
Code 128	Code Set A: '{A' 0x00 - 0x5F	3 - 210
	Code Set B: '{B' 0x20 - 0x7F	
	Code Set C: '{C' 0x00 - 0x63	
	However, the character '{' is not included.	
RSS-14	Numeral: '0' - '9' (* 1)	15 - 16
RSS-14 Truncated	Numeral: '0' - '9' (* 1)	15 - 16
RSS Limited	Numeral: '0' - '9' (* 1)	15 - 16
RSS Expanded	Numeral: '0' - '9'	
	Alphabetical: 'A' - 'Z', 'a' - 'z'	* 2
	Symbol: ' ', '!' , '"', '%', '&','", '(', ')',	
	'*', '+', ', ', '-', '.', '/', ':', ',	
	'<', '=', '>', '?', '_'	
RSS Expanded	Numeral: '0' - '9'	* 0
Stacked		^2
	Symbol: ', ', '', '%', '&', '', '', '),	
	, +, ,, -, ., /, ., ,, , '<', '=', '>', '?', ' '	
RSS-14 Stacked	Numeral: '0' - '9' (* 1)	15 - 16
RSS-14 Stacked	Numeral: '0' - '9' (* 1)	15 - 16
Omnidirectional		

	0-1-1
120	Coder

2D Code Type	Available Unaracter Set	String Length								
QR Code	All the codes (0x00 - 0xFF)	Model 1								
		Alphanumeral: - 707								
		Numeral: - 1167								
		Kanji: - 299								
		Model 2								
		Alphanumeral: - 4296								
		Numeral: - 7089								
		Kanji: - 1817								
		Micro QR								
		Alphanumeral: - 21								
		Numeral: - 35								
		Kanji: - 9								
PDF417	0x00 - 0xFF. However,									
	0x00 - 0x7F should conform to the ASCII									
	code, and	Alphanumaral: 1950								
	Alphanumerai 1850									
	character set	Numeral: - 2710								
	of the English table in PC437									
	(USA:Standard Europe).									
DataMatrix	All the codes (0x00 - 0xFF)	Alphanumeral: - 2335								
		Numeral: - 3116								
MaxiCode	All the codes (0x00 - 0xFF)	Alphanumeral: - 93								
		Numeral: - 138								

5.4 Other Notes

- (1) If you "cancel" a print job while printing from the printer port, please turn the printer off and on again. If you resume printing a document without restarting the printer, problems such as incorrect print out may occur.
- (2) If used with a USB interface on Windows 2000, please turn the printer off and on again after recovering your computer from standby or pause mode. If you print a document without restarting the printer, communication errors may occur and the print job may not be discarded correctly
- (3) Problems such as failure to print correctly from the OPOS(JavaPOS) driver may occur if the Windows driver and OPOS(JavaPOS) driver are both installed in the same system. In this case, it is recommended that you uninstall the driver that is not being used.

6 Revision History

Revision	Revised Content								
1.0.0.0	First Edition								
1.0.0.1	2012/08/01								

Oki contact details

OkicontactName. Oki Systems (UK) Limited

OkicontactAddress.550 Dundee Road Slough Trading Estate Slough Berkshire SL1 4LE

Tel:+44 (0) 1753 819819 Fax:+44 (0) 1753 819899 http://www.oki.co.uk

Oki Systems Ireland Limited

The Square Industrial Complex Tallaght Dublin 24

Tel:+353 (0) 1 4049590 Fax:+353 (0)1 4049591 http://www.oki.ie

Oki Systems Ireland Limited -Northern Ireland

19 Ferndale Avenue Glengormley BT36 5AL Northern Ireland

Tel:+44 (0) 7767 271447 Fax:+44 (0) 1 404 9520 http://www.oki.ie

Technical Support for all Ireland: Tel:+353 1 4049570 Fax:+353 1 4049555 E-mail: tech.support@oki.ie

OKI Systems (Czech and Slovak), s.r.o.

IBC – Pobřežní 3 186 00 Praha 8 Czech Republic

Tel: +420 224 890158 Fax:+420 22 232 6621 Website: www.oki.cz, www.oki.sk

Oki Systems (Deutschland) GmbH

Hansaallee 187 40549 Düsseldorf

Tel: 01805/6544357** 01805/OKIHELP** Fax: +49 (0) 211 59 33 45 Website: www.okiprintingsolutions.de info@oki.de

**0,14€/Minute aus dem dt. Festnetz der T-Com (Stand 11.2008)

Διανομέας των συστημάτων ΟΚΙ

CPI S.A1 Rafailidou str. 177 78 Tavros Athens Greece

Tel: +30 210 48 05 800 Fax:+30 210 48 05 801 EMail:sales@cpi.gr

Oki Systems (Iberica), S.A.U

C/Teide, 3 San Sebastian de los Reyes 28703, Madrid

Tel:+34 91 3431620 Fax: +34 91-3431624 Atención al cliente: 902 36 00 36 Website: www.oki.es

Oki Systèmes (France) S.A.

44-50 Av. du Général de Gaulle 94246 L'Hay les Roses Paris

Tel:+33 01 46 15 80 00 Télécopie:+33 01 46 15 80 60 Website: www.oki.fr

OKI Systems (Magyarország) Kft.

Capital Square Tower 2 7th Floor H-1133 Budapest, Váci út 76 Hungary

Telefon: +36 1 814 8000 Telefax: +36 1 814 8009 Website: www.okihu.hu

OKI Systems (Italia) S.p.A.

via Milano, 11, 20084 Lacchiarella (MI)

Tel:+39 (0) 2 900261 Fax:+39 (0) 2 90026344 Website: www.oki.it

OKI Printing Solutions

Platinium Business Park II, 3rd Floor ul. Domaniewska 42 02-672 Warsaw Poland

Tel:+48 22 448 65 00 Fax:+48 22 448 65 01 Website: www.oki.com.pl E-mail: oki@oki.com.pl Hotline: 0800 120066 E-mail: tech@oki.com.pl

Oki Systems (Ibérica) S.A.

Sucursal Portugal Edifício Prime -Av. Quinta Grande 53 7º C Alfragide 2614-521 Amadora Portugal

Tel:+351 21 470 4200 Fax:+351 21 470 4201 Website:www.oki.pt E-mail : oki@oki.pt

Oki Service Serviço de apoio técnico ao Cliente

Tel: 808 200 197 E-mail : okiserv@oki.pt

OKI Europe Ltd. (Russia)

Office 702, Bldg 1 Zagorodnoye shosse 117152, Moscow

Tel: +74 095 258 6065 Fax: +74 095 258 6070 e-mail: info@oki.ru Website: www.oki.ru

Technical support: Tel: +7 495 564 8421 e-mail: tech@oki.ru

Oki Systems (Österreich)

Campus 21 Businesszentrum Wien Sued Liebermannstrasse A02 603 22345 Brun am Gebirge

Tel: +43 223 6677 110 Drucker Support: +43 (0) 2236 677110-501 Fax Support: +43 (0) 2236 677110-502 Website: www.oki.at

OKI Europe Ltd. (Ukraine)

Raisy Opkinoy Street,8 Building B, 2nd Floor, Kiev 02002 Ukraine

Tel: +380 44 537 5288 e-mail: info@oki.ua Website: www.oki.ua

OKI Sistem ve Yazıcı Çözümleri Tic. Ltd. Şti.

Harman sok Duran Is Merkezi, No:4, Kat:6, 34394, Levent İstanbul

Tel: +90 212 279 2393 Faks: +90 212 279 2366 Web: www.oki.com.tr www.okiprintingsolutions.com.tr

Oki Systems (Belgium)

Medialaan 24 1800 Vilvoorde

Helpdesk: 02-2574620 Fax: 02 2531848 Website: www.oki.be

AlphaLink Bulgaria Ltd.

2 Kukush Str. Building "Antim Tower", fl. 6 1463 Sofia, Bulgaria

tel: +359 2 821 1160 fax: +359 2 821 1193 Website: http://bulgaria.oki.com

OKI Printing Solutions

Herstedøstervej 27 2620 Albertslund Danmark

Adm.: +45 43 66 65 00 Hotline: +45 43 66 65 40 Salg: +45 43 66 65 30 Fax: +45 43 66 65 90 Website: www.oki.dk

Oki Systems (Finland) Oy

Polaris Capella Vänrikinkuja 3 02600 Espoo

Tel: +358 (0) 207 900 800 Fax: +358 (0) 207 900 809 Website: www.oki.fi

Oki Systems (Holland) b.v.

Neptunustraat 27-29 2132 JA Hoofddorp

Helpdesk: 0800 5667654 Tel: +31 (0) 23 55 63 740 Fax: +31 (0) 23 55 63 750 Website: www.oki.nl

Oki Systems (Norway) AS Tevlingveien 23

N-1081 Oslo

Tel: +47 (0) 63 89 36 00 Telefax: +47 (0) 63 89 36 01 Ordrefax: +47 (0) 63 89 36 02 Website: www.oki.no

General Systems S.R.L. (Romania)

Sos. Bucuresti-Ploiesti Nr. 135. Bucharest 1 Romania

Tel: +40 21 303 3138 Fax: +40 21303 3150 Website: http://romania.oki.com

Var vänlig kontakta din Återförsäljare i första hand, för konsultation. I andra hand kontakta

Oki Systems (Sweden) AB

Borgafjordsgatan 7 Box 1191 164 26 Kista

Tel. +46 (0) 8 634 37 00 e-mail: info@oki.se för allmänna frågor om Oki produkter

support@oki.se för teknisk support gällandes Oki produkter

Vardagar: 08.30 - 12.00, 13.00 - 16.00 Website: www.oki.se

Oki Systems (Schweiz)

Baslerstrasse 15 CH-4310 Rheinfelden

Support deutsch +41 61 827 94 81 Support français +41 61 827 94 82 Support italiano +41 061 827 9473 Tel: +41 61 827 9494 Website: www.oki.ch

Oki Data Americas Inc. (United States)

2000 Bishops Gate Blvd. Mt. Laurel, NJ 08054 USA

Tel: 1-800-654-3282 Fax: 1-856-222-5247 http://WWW.OKIPRINTINGSOLUTIONS.COM http://my.okidata.com

Oki Data Americas Inc.(Canada • Canadá)

4140 B Sladeview Crescent Units 7&8 Mississauga, Ontario Canada L5L 6A1

Tél: 1-905-608-5000 Téléc: 1-905-608-5040 http://www.okiprintingsolutions.com

Oki Data Americas Inc. (América Latina (OTRO))

2000 Bishops Gate Blvd. Mt. Laurel, NJ 08054 USA

Tel (Español): 1-856-222-7496 1-856-222-5276 Fax: 1-856-222-5260 Email: LASatisfaction@okidata.com

Oki Data de Mexico, S.A. de C.V. Mariano Escobedo #748, Piso 8 Col. Nueva Anzures C.P. 11590, México, D.F.

Tel: 52-555-263-8780 Fax: 52-555-250-3501 http://**WWW.OKIPRINTINGSOLUTIONS.COM**

Oki Data do Brasil, Ltda. Rua Avenida Alfrefo Egidio de souza Aranha 100-4º andar-Bloco C Chacara Santo Antonio Sao Paulo, Brazil 04726-170

Tel: 55-11-3444-6747 (Grande São Paulo) 0800-11-5577 (Demais localidades) Fax: 5511-3444-3501 e-mail: okiserv@okidata.com.br http://WWW.OKIPRINTINGSOLUTIONS.COM

Oki Data (Singapore) Pte. Ltd.

438A Alexandra Road #02-11/12, Lobby 3, Alexandra Technopark Singapore(119967)

Tel: (65) 6221 3722 Fax: (65) 6594 0609 http://www.okidata.com.sg

Oki Systems (Thailand) Ltd.

1168/81-82 Lumpini Tower, 27th Floor Rama IV Road Tungmahamek, Sathorn Bangkok 10120

Tel: (662) 679 9235 Fax: (662) 679 9243/245 http://www.okisysthai.com

Oki Systems (Hong Kong) Ltd.

Suite 1908, 19/F, Tower 3, China Hong Kong City 33 Canton Road, TsimShaTsui, Kowloon, Hong Kong

Tel: (852) 3543 9288 Fax: (852) 3549 6040 http://www.okiprintingsolutions.com.hk

Oki Data(Australia) Pty Ltd.

Levwl1 67 Epping Road, Macquarie Park NSW 2113, Australia

Tel: +61 2 8071 0000 (Support Tel: 1800 807 472) Fax: +61 2 8071 0010 http://www.oki.com.au

Comworth Systems Ltd.

8 Antares Place Mairangi Bay, Auckland, New Zealand

Tel: (64) 9 477 0500 Fax: (64) 9 477 0549 http://www.comworth.co.nz

Oki Data(S) P Ltd. Malaysia Rep Office

Suite 21.03, 21st Floor Menara IGB, Mid Valley City, Lingkaran Syed Pura 59200, Kuala Lumpur, Malaysia

Tel: (60) 3 2287 1177 Fax: (60) 3 2287 1166

	٠	٠	•	•	٠	*	•	•	*	٠	*	٠	٠	*	*	٠	٠	٠	٠	٠	•	*	•	٠
	٠	٠		٠	•	٠	•	٠	٠	•	۰	٠	•	۰	٠	•	•	٠	•	•		٠	٠	٠
	٠	٠	•	•	•	•	•	•	•	•	٠	٠	•	٠	٠	•	٠	٠	•	٠	•	•	•	٠
Oki Data Corporation	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	۰	٠	٠	۰	٠	٠	٠	۰	٠	٠	٠	٠	٠	٠
4-11-22 Shibaura, Minato-ku,Tokyo	٠	٠	٠	٠	٠	•	*	٠	٠	٠	٠	٠	•	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠
108-8551, Japan	٠	٠	٠	•	•	•	•	•	•	٠	•	٠	•	•	٠	•	٠	٠	•	٠	•	•	•	٠
	٠	٠	٠	•	•	•	•	•	•	٠	٠	٠	٠	٠	٠	•	٠	٠	•	٠	٠	٠	•	٠
	۰	•	٠	٠	•	•	•	٠	•	•	٠	٠	•	٠	٠	•	•	٠	•	٠	•	٠	•	٠
www.okiprintingsolutions.com	٠	٠	٠	•	•	•	•	•	•	٠	•	٠	٠	•	٠	•	٠	٠	•	٠	•	•	•	٠
	٠	٠	٠	•	•	•	•	•	•	٠	٠	٠	٠	٠	٠	•	٠	٠	•	٠	٠	٠	•	٠
	۰	•	٠	٠	•	•	•	٠	•	•	٠	٠	•	٠	٠	•	•	٠	•	٠	•	٠	•	٠
	٠	٠	٠	•	•	•	•	•	•	٠	٠	٠	٠	٠	٠	•	٠	٠	•	٠	٠	•	•	٠