

# Windows Driver Manual SRP-500

Mobile Printer Rev. 2.08



http://www.bixolon.com

# Table of Contents

1. Manual Information	3
2. Operating System (OS) Environment	3
3. Windows Driver Preparation	3
4. Windows Driver Installation	4
4-1 Installing on Windows XP / Server 2003	
4-1-1 Via Serial Port or Parallel Port 4-1-2 Via USB Port	
4-2 Installing on Windows VISTA / Server 2008 / 7 / 8	
4-2-1 Via Serial Port or Parallel Port	
4-2-2 Via USB Port	15
5. Detailed Windows Driver Settings	18
5-1 Paper Supply Method	
5-2 Paper Size	
5-3 Additional Commands	22
6. Windows Driver Specifications	24
6-1 Fonts	
6-2 Special Functions	
6-3 Barcodes	27
7. Use of Windows Driver	28
7-1 Use of Visual Basic	
7-1-1 Windows Driver Selection	
7-1-2 Test Printing	
7-1-3 Barcode Printing	
7-2 Use of Wordpad	
7-2-1 Wordpad Environment Settings	
7-2-2 Text Printing	
7-2-3 Barcode Printing	

# 1. Manual Information

This Windows Driver Installation Manual provides information on installation, detailed specifications, and usage of the printer's Windows Driver according to PC operating system (OS).

We at BIXOLON maintain ongoing efforts to enhance and upgrade the functions and quality of all our products. In following, product specifications and/or user manual content may be changed without prior notice.

# 2. Operating System (OS) Environment

The following operating systems are supported for usage.

Microsoft Windows XP (32bit/64bit) Microsoft Windows Server 2003 (32bit/64bit) Microsoft Windows VISTA (32bit/64bit) Microsoft Windows Server 2008 (32bit/64bit) Microsoft Windows Server 2008R2 (64bit) Microsoft Windows 7 (32bit/64bit) Microsoft Windows 8 (32bit/64bit)

# **3. Windows Driver Preparation**

The Windows Driver is included in the enclosed CD, and Latest file versions can be downloaded from the BIXOLON website. (www.bixolon.com)

# 4. Windows Driver Installation

## 4-1 Installing on Windows XP / Server 2003

- 4-1-1 Via Serial Port or Parallel Port
- 1) Double-click the Windows Driver installation file.
- 2) Click the "Next" button.

BIXOLON SRP-500 Windows	Driver Installation	×
	Welcome to the InstallShield Wizard for BIXOLON SRP-500 Windows Driver V3.2.2 The InstallShield Wizard will install BIXOLON SRP-500 Windows Driver V3.2.2 on your computer To continue, click Next.	
InstallShield	< <u>B</u> ack <u>Next</u> > Cancel	

3) Select the COM or LPT (Which one you want to use) port to be used and click the "Next" button.

Port Type			X
Serial Port- © COM1 © COM2	C COM3 C COM4	Parallel Port C LPT1 C LPT2	USB Port
			Next
Port Type			
_ Serial Port-		Parallel Port	USB Port
C COM1 C COM2	С СОМЗ С СОМ4	© LPT1 © LPT2	C USB

4) When the following message box appears, click the "Continue Anyway" button.



5) Clicking the "Yes" button will reboot the PC.



- 6) Open the printer properties window in the Windows OS.
  - \* Control Panel Printers and Faxes.
- 7) If you select a serial port, click the "Configure Port..." button in the "Ports" tab.
- 8) If you select a serial port, match the communication settings to those of the printer. (The communication settings of the printer can be performed by conducting a self-test.)

COM1 Properties Port Settings	? 🗙
<u>B</u> its per second:	115200
<u>D</u> ata bits:	8
<u>P</u> arity:	None
<u>S</u> top bits:	1
Elow control:	Hardware 💌
	<u>R</u> estore Defaults
	K Cancel Apply

9) Click the "Print Test Page" button and check printing status.

👹 BIXOLON SRP-50	0 Properti	es			? 🗙
Color Management General	Device Sel Sharing	ttings	Additional Co Ports		About
BIXOLO	N SRP-500				
Location:					
<u>C</u> omment:					
M <u>o</u> del: BIXOLON	N SRP-500				
Features					
Color: Yes		Paper a	vailable:		
Double-sided: No		76 x 32	276 mm[500]		-
Staple: No					
Speed: Unknown					
Maximum resolution	: 208 dpi				
	Printing P	referenc	ces Prin	t <u>T</u> est Pag	e
		OK	Canc	el	Apply

10) Proper installation of the driver is indicated if the test page is printed normally.

#### 4-1-2 Via USB Port

- 1) Double-click the Windows Driver installation file.
- 2) Click the "Next" button.

BIXOLON SRP-500 Window	s Driver Installation	×
	Welcome to the InstallShield Wizard for BIXOLON SRP-500 Windows Driver V3.2.2 The InstallShield Wizard will install BIXOLON SRP-500 Windows Driver V3.2.2 on your computer. To continue, click Next.	
Install Shield	Cancel	

3) Select USB and click the "Next" button.

P	ort Type		
	Serial Port- C COM1 C COM2	 Parallel Port C LPT1 C LPT2	USB Port
			Next

4) When the following message box appears, click the "Continue Anyway" button.



5) Click the "OK" button.



6) Turn off the printer and then turn on again.

7) When the New Hardware Wizard appears for the installation of the Windows Driver, select the option as shown below and click the "Next" button.

Found New Hardware Wiz	ard
	Welcome to the Found New Hardware Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Read our privacy policy
	Can Windows connect to Windows Update to search for software? Yes, this time only Yes, now and every time I connect a device No, not this time
	Click Next to continue.
	<pre></pre>

8) Click the "Next" button.

Found New Hardware Wizard	
Image: Second state sta	
< <u>B</u> ack <u>N</u> ext > Cancel	]

9) When the following message box appears, click the "Continue Anyway" button.



10) Click the "Finish" button.

Found New Hardware Wiz	ard
Found New Hardware Wiz	Ard Completing the Found New Hardware Wizard The wizard has finished installing the software for: BIXOLON SRP-500
	Click Finish to close the wizard.
	< <u>B</u> ack <b>Finish</b> Cancel

- 11) Open the printer properties window in the Windows OS.
  - \* Control Panel Printers and Faxes.
- 12) Click the "Print Test Page" button and check printing status.

👹 BIXOLON SRP-500 Propertie	es 🛛 🤶 🔀
Color Management Device Sett General Sharing	tings Additional Commands About Ports Advanced
BIXOLON SRP-500	
<u>C</u> omment:	
Model: BIXOLON SRP-500	
Color: Yes I	Paper available:
Double-sided: No	76 x 3276 mm[500]
Staple: No	
Speed: Unknown	
Maximum resolution: 208 dpi	<u></u>
Printing Pr	references Print <u>T</u> est Page
	OK Cancel Apply

13) Proper installation of the driver is indicated if the test page is printed normally.

## 4-2 Installing on Windows VISTA / Server 2008 / 7 / 8

- 4-2-1 Via Serial Port or Parallel Port
- 1) Double-click the Windows Driver installation file.
- 2) Click the "Next" button.

	BIXOLON SRP-500 Windows Driver Installation	×
	Welcome to the InstallShield Wizard for BIXOLON SRP-500 Windows Driver V3.2.2 The InstallShield Wizard will install BIXOLON SRP-500 Windows Driver V3.2.2 on your compute To continue, click Next.	B7.
InstallShield	< Back Next > Cance	1

3) Select the COM or LPT (Which one you want to use) port to be used and click the "Next" button.

	Por	t Type	×
Serial Port © COM1 © COM2	С СОМЗ С СОМ4	Parallel Port C LPT1 C LPT2	USB Port
			Next

	Por	t Type	×
- Serial Port- C COM1 C COM2	С СОМ3 С СОМ4	Parallel Port • LPT1 • LPT2	USB Port
			Next

4) When the following message box appears, click the "Install" button.



5) Clicking the "Yes" button will reboot the PC.



- 6) Open the printer properties window in the Windows OS.
   ※ Control Panel Hardware and Sound Device and Printers.
- 7) If you select a serial port, click the "Configure Port..." button in the "Ports" tab.
- 8) If you select a serial port, match the communication settings to those of the printer. (The communication settings of the printer can be performed by conducting a self-test.)

CO	M1 Properties	?	×		
Port Settings					
			-		
Bits per second:	115200	~			
<u>D</u> ata bits:	0	~			
<u>D</u> ata bits.	0	*			
<u>P</u> arity:	None	~			
<u>S</u> top bits:	1	~			
Flow control:	None	~			
now control.	None	•			
Restore Defaults					
OK Cancel Apply					

9) Click the "Print Test Page" button and check printing status.

<b>.</b>	BIXC	LON SRP-	500 Propert	ies	×
Security	Device Settings		Additional Commands		About
General	Sharing	Ports	Advanced	Color	Management
-	BIXOLON S	RP-500			
Location:					
<u>C</u> omment:					
M <u>o</u> del: Features Color: Yes	BIXOLON SI	RP-500	Paper available	e:	
Double-sid	ed: No		76 x 3276 mm	n[500]	~
Staple: No					
Speed: Unk	nown				
Maximum	resolution: 20	8 dpi			×
		Pr <u>e</u> fere	ences	Print <u>T</u> e	st Page
			OK	Cancel	<u>A</u> pply

10) Proper installation of the driver is indicated if the test page is printed normally.

#### 4-2-2 Via USB Port

- 1) Double-click the Windows Driver installation file.
- 2) Click the "Next" button.



3) Select USB and click the "Next" button.

	Poi	rt Type		×
Serial Port- O COM1 O COM2		Parallel Port C LPT1 C LPT2	USB Port USB	
			Next	

4) When the following message box appears, click the "Install" button.



5) Click the "OK" button.

n de la companya de l
Please turn-off the printer and then turn-on again.
ОК

6) Turn off the printer and then turn on again. The printer driver will be installed automatically.

- 7) Open the printer properties window in the Windows OS.
   ※ Control Panel Hardware and Sound Device and Printers.
- 8) Click the "Print Test Page" button and check printing status.

-	BIXOL	ON SRP-	500 Propert	ies	×
Security	Device Settings		Additional Commands		About
General	Sharing	Ports	Advanced	Color	Management
	BIXOLON SRF	-500			
Location:					
Comment:					
M <u>o</u> del: Features Color: Yes	BIXOLON SRP	-500	Paper availabl	e'	
Double-sid	ed: No		76 x 3276 mn		
Staple: No			10,521011	[500]	
Speed: Unk	nown				
Maximum	resolution: 208 d	lpi			~
		Pr <u>e</u> fere	nces	Print <u>T</u> e	est Page
			ОК	Cancel	Apply

9) Proper installation of the driver is indicated if the test page is printed normally.

# **5. Detailed Windows Driver Settings**

The following functions can be set in detail after the Windows Driver installation is complete.

#### 5-1 Paper Supply Method

The printer structure is such that the print head, which carries out printing, and the cutter, which cuts the printing paper, are separated. After printing, the location of the end section can be adjusted as follows.

Automatically Select Receipt[Partial Cut]		Select the "Receipt[No Cut]" automatically. After printed text is transferred up to the cutter (auto cutter), a paper is cut by auto cutter.
Receipt[No Cut]	:	Printed text is transferred up to the cutter (manual cutter).
Receipt [No feed]	:	Printed text is transferred up to the next line only. (minimum transfer: 0x0A).
Form[Partial Cut]	:	For long print jobs, printed text is transferred and cut according to the Receipt option per selected paper size.
Form[Not Cut]	:	For long print jobs, printed text is transferred according to the Receipt option per selected paper size

Detailed setting can be done as follows.

1) Open the printer properties window in the Windows OS.

💐 BIXOLON SRP-500 Properties 🛛 🔹 💽
Color Management         Device Settings         Additional Commands         About           General         Sharing         Ports         Advanced
BIXOLON SRP-500
Location:
Comment:
Model: BIXOLON SRP-500
Features
Color: Yes Paper available:
Double-sided: No 76 x 3276 mm[500]
Staple: No
Speed: Unknown
Maximum resolution: 208 dpi
Printing Preferences Print <u>T</u> est Page
OK Cancel Apply

2) Click the "Printing Preferences" button in the "General" tab.

3) Select the desired setting in the "Paper/Quality" tab.

💩 BIXOLON SRP-50	0 Printing Preferences	? 🛛
Layout Paper/Quality		
Tray Selection		
Paper <u>S</u> ource:	Automatically Select	~
Color	Automatically Select Receipt[No cut] Receipt[Partial cut] Receipt[No feed] Form[No cut] Form[Partial cut]	
	Adya	inced
	OK Cancel	Apply

## 5-2 Paper Size

The paper sizes available in the Windows Driver are as follows.

76  $\times$  297 mm[500] 76  $\times$  3276 mm[500]

Detailed setting can be done as follows.

- 1) Open the printer properties window in the Windows OS.
- 2) Click the "Printing Preferences" button in the "General" tab.
- 3) Select the "Paper/Quality" tab, and click the "Advanced" button. Select the desired setting.

BIXOLON SRP-500 Adv	vanced Options	? 🔀
Paper/Output Paper Size: Copy Count: G- Graphic Print Quality: G- G Graphic ICM Method ICM Inten G- G Graphic ICM Inten	76 x 3276 mm[500] 208 x 96 dots per inch Management od: <u>ICM Disabled</u> ot: <u>Pictures</u> s Mode: <u>8 Color (Halftoned)</u> <u>uto Select</u>	
	ОК	Cancel

#### **5-3 Additional Commands**

The Windows Driver serves to receive the content for print from an application and send it to the printer. The Additional Commands function allows for the addition of desired commands at the beginning or end of the print content sent to the printer.

The command functions available are as follows.

Start Doc	:	Addition of command at the beginning of the document.
-----------	---	---

Start Page : Addition of command at the beginning of the page.

End Page : Addition of command at the end of the page.

- End Doc1 : Addition of command at the end of the document.
- End Doc2 : Addition of line feeding at the end of the document.

Detailed setting can be done as follows.

- 1) Open the printer properties window in the Windows OS.
- 2) Click the "Additional Commands" tab.

👹 BIXOLON SRP-500 Properties 🛛 💽 🔀
General Sharing Ports Advanced Color Management Device Settings Additional Commands About
Start Doc Emulation Commands [Example :<1B700019FF> or <1B>p<0019FF> ]
Open Cash Drawer 1     So     [ms]     Open Cash Drawer 2     So     [ms]
Start Page Emulation Commands [Example :<1B700019FF> or <1B>p<0019FF> ]
End Page Emulation Commands [Example :<1D564200> or <1D>VB<00> ]
End Doc1 Emulation Commands [ Example :<1D564200> or <1D>VB<00> ]
End Doc2 O Number of Line Feeds [0 - 99] Open Cash Drawer 1 50 = [ms] Open Cash Drawer 2 50 = [ms]

- 3) If the user wants to open a cash-drawer prior to printing, tick the button named as "Open Cash Drawer1" or "Open Cash Drawer2" in the "Start Doc" and then click the "OK" button.
- 4) If the user wants to open a cash-drawer at the end of printing, tick the button named as "Open Cash Drawer1" or "Open Cash Drawer2" in the "End Doc2" and then click the "OK" button.
- 5) If the user wants to feed three lines at the end of printing, enter "3" in the "EndDoc2" and click the "OK" button.
- 6) When downloading an image to the printer using the NV Image Tool, the image print command is FS p n m (Hex: 1C 70 m n).

For more information on the hexadecimals that can be entered in "Start Doc", "Start Page", "End Page" and "End Doc1", refer to the Control Commands Manual.

# 6. Windows Driver Specifications

## 6-1 Fonts

This Windows driver supports various fonts in the following table. Printing using these fonts is faster than using Windows fonts provided by the operating system.

Printer Fonts	Character Size (dot)	Sizes (point)
Korean1x1	Korean1x1(24x24)	12
Korean1x2	Korean1x2(24x48)	24
Korean2x1	Korean2x1(48x24)	12
Korean2x2	Korean2x2(48x48)	24

Printer Fonts	Character Size (dot)	Sizes (point)
FontA1x1	FontA1x1(12x14)	12
FontA1x2	FontA1x2(12x28)	24
FontA2x1	FontA2x1(24x14)	12
FontA2x2	FontA2x2(24x28)	24
FontB1x1	FontB1x1(12x12)	12
FontB1x2	FontB1x2(12x24)	24
FontB2x1	FontB2x1(24x12)	12
FontB2x2	FontB2x2(24x24)	24

Printer Fonts are defined as follows.

- 1) FontA1x2
  - ANSI Character code support
  - Character size (dot): 12 x 28 (double height)
  - Sizes (point): 24
- 2) FontA1x2
  - Korean
  - Character size (dot): 24 x 48 (double height)
  - Sizes (point): 24

## 6-2 Special Functions

This Windows driver supports the special functions as shown in the following table. Select the "FontControl" character first and use the characters in the table to use the special functions. Take care as this function is not for printing general texts.

Character	Special Function
5	HT (0 x 0A) is output
6	LF (0 x 0A) is output
7	CR (0 x 0A) is output
а	Open Drawer 2 (50ms drive pulse width)
b	Open Drawer 2 (100ms drive pulse width)
С	Open Drawer 2 (150ms drive pulse width)
d	Open Drawer 2 (200ms drive pulse width)
е	Open Drawer 2 (250ms drive pulse width)
f	Open Drawer 2 (50ms drive pulse width) without feeding
g	Cut Receipt (partial cut) without paper feeding
w	Text is aligned left
Х	Text is centered
У	Text is aligned right
A	Open Drawer 1 (50ms drive pulse width)
В	Open Drawer 1 (100ms drive pulse width)
С	Open Drawer 1 (150ms drive pulse width)
D	Open Drawer 1 (200ms drive pulse width)
E	Open Drawer 1 (250ms drive pulse width)
F	Open Drawer 1 (50ms drive pulse width) without feeding
Р	Cut Receipt (partial cut)
@	Printing the first NV bit image
#	Printing the second NV bit image
\$	Printing the third NV bit image
%	Printing the fourth NV bit image
&	Printing the fifth NV bit image

## 1) Sample Use

If the "FontControl" font is selected and 6 is entered, the "LF" (Line Feeding) operation is activated.

(does not entail the printing of the character "6)

2) "FontControl" Font Function

Printer Font for Special Function	Function	Size (point)
FontControl	Open Drawer 1/2 Cut receipt Cut receipt(without paper feeding) Justification (Left/Center/Right) Output HT, Output LF, Output CR Barcode Printing Print NV Image	12

### 6-3 Barcodes

The Windows Driver supports the barcodes indicated below. This function is available when entering barcode data after selecting "Printer Font Name". In addition, the "FontControl" font can be used to add HRI characters.

Printer Font Name	Size	Supported Characters
Codabar	19/37.5/56.5/75	Numberic: 0~9 Symbols: \$, +, -, ., /, : Letters: A~D
Code39	19/37.5/56.5/75	Numberic: 0~9 Symbols: \$, +, -, ., / Letters: A~Z
JAN13(EAN)	19/37.5/56.5/75	Numberic: 0~9
JAN8(EAN)	19/37.5/56.5/75	Numberic: 0~9
ITF	19/37.5/56.5/75	Numberic: 0~9
UPC-A	19/37.5/56.5/75	Numberic: 0~9
UPC-E	19/37.5/56.5/75	Numberic: 0~9
Code93	19/37.5/56.5/75	ASCII CODE: 0~127
Code128	19/37.5/56.5/75	ASCII CODE: 0~127

#### 1) Sample Use

Select "Code39" and Size "19", and then enter "1234". The barcode corresponding to "1234" is printed.

2) When Using Code128

Select "Code128" and Size "19", and then enter "{B1234". The barcode corresponding to "1234" is printed.

When using "Code128", characters, such as "{A", "{B", "{C", must be included before the input data.

# 7. Use of Windows Driver

## 7-1 Use of Visual Basic

This section contains example codes to control the printer (BIXOLON SRP-500) using Windows driver with Visual Basic.

7-1-1 Windows Driver Selection

The following example code explains how to select the "BIXOLON SRP-500" Windows driver.

For Each prnPrinter In Printers If prnPrinter.DeviceName = "BIXOLON SRP-500" Then Set Printer = prnPrinter Exit For End If Next

#### <u>SRP-500</u>

#### 7-1-2 Test Printing

The following code is an example of the printing of Arial Test via the Windows font, and FontA1x1Test via the printer font.

'Print in Windows font
Printer.FontSize = 12
Printer.FontName = "Arial"
Printer.Print "Arial Test"
'Print in printer font
Printer.FontSize = 12
Printer.FontName = "Font1x1"
Printer.Print "Font1x1 Test"

Printer.EndDoc

7-1-3 Barcode Printing

The following code is an example of the printing of the JAN8 (EAN) barcode.

'Print Bar Code. Printer.FontSize = 19 Printer.FontName = "JAN8 (EAN)" Printer.Print "1234567"

Printer.EndDoc

### 7-2 Use of Wordpad

7-2-1 Wordpad Environment Settings

Launch WordPad, set the printing related options as follows, and test the printer with WordPad.

- Select Printer Select "Print" from the "File" menu, and select the printer (BIXOLON SRP-500).
- Set paper size, orientation, margin, etc. Select the "Page Setting" from "File" menu, and set paper size, orientation, and margin.
- 7-2-2 Text Printing

Print the text from WordPad using the Windows driver of the printer.



- 1) Select the desired font from the Font menu (FontA 1x1).
- 2) Select the desired font size (12).
- 3) Enter the text to be printed in Wordpad.
- 4) Click the Print button in the toolbar to print.

## 7-2-3 Barcode Printing

Use the Windows Driver of the printer to print the barcode.



- 1) Select the desired barcode from the Font menu (Code128).
- 2) Select the desired font size (19).
- 3) Enter "{A123435" in Wordpad.
- 4) Click the Print button in the toolbar to print.