

User's Manual Label Printer

Rev. 1.02 SLP-DX420 / DX420E SLP-DX423 / DX423E



http://www.bixolon.com

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Manual Information

This user's guide contains basic information for product usage as well as for emergency measures that may be required.

* The following separate manuals provide more detailed content on various technological issues and areas.

1. Windows Driver Manual

This manual provides information on the installation instructions and main functions of the Windows Driver.

2. Unified Label Printer Utility-II Manual

This manual provides information on the usage of software for function selection of this product, operating condition modification, etc.

3. Programming (SLCS) Manual

This manual provides information on label printer commands.

4. True Font Downloader Manual

This manual provides information on the usage of the font downloader that can download True Fonts and facilitate their usage as Device Fonts.

5. Ethernet interface Manual

This manual provides information on the configuration and usage of Ethernet interface.

6. Label design program Manual

This manual provides information on the usage of the Windows PC program that can make labels by adding text, graphics, or barcodes at desired positions.

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's guide content may be changed without prior notice.

Safety Precautions

In using the present appliance, please keep the following safety regulations in order to prevent any hazard or material damage.



WARNING

Violating following instructions can cause serious injury or death.



CAUTION

Violating following instructions can cause slight wound or damage the appliance.



Other Precautions

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WARNING

Use of an unprotected interface cable with this printer conflicts with EMC standards. Users should only use cables approved by BIXOLON.

WEEE (Waste Electrical and Electric Equipment)



This mark shown on the product or its literature indicates that the corresponding item should not be discarded at the end of its working life with other household waste. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate marked items from other types of waste and recycle them responsibly to promote the

sustained reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office for details of where and how they can conduct environmentally safe recycling of such items. Commercial users should contact their suppliers and check the terms and conditions of purchase contracts. This product should not be combined with other commercial waste for disposal.

Rating Label Symbol Information

DC (Direct current)

1. Content Confirmation

The following items should all be contained in the printer package.

Contact the dealer from which the purchase was made if any item is damaged and/or missing.



2. Product Part Names





3. Installation & Usage

3-1 Power Connection

Connect power to the printer as shown below.



- 1) Turn off the printer power switch.
- 2) Check to see that the AC adapter voltage matches that of the power source.
- 3) Connect the AC adapter jack to the printer power connector.
- 4) Connect the power cord to the AC adapter.
- 5) Connect the power cord to a power source/outlet.

3-2 Interface Cable Connection

3-2-1 Standard Model

Connect the interface cable as shown below.

This printer supports the following communications interface standards.

- RS-232C(Serial) Cable
- IEEE1284(Parallel) Cable
- USB B-Type Cable



IEEE 1204(Farallel) Cab

- 1) Turn off the power switch.
- 2) Connect the communication cable to the printer communication port to be used.
 - Connect the RS-232C(Serial) Cable to the SERIAL port. and tighten the screw on both sides.
 This port requires a shielded cable less then 1.8m long.
 - Connect the IEEE1284(Parallel) Cable to the PARALLEL port. and fasten the clips on both sides.

This port requires a shielded cable with ferrite core less then 1.8m long.

- Connect USB B-Type cable to the USB port.

This port requires a shielded cable less then 1.8m long.

3-2-2 Ethernet Model

Connect the interface cable as shown below.

This printer supports the following communications interface standards.

- RS-232C(Serial) Cable
- LAN(Ethernet) Cable
- USB A-Type(WLAN Dongle only)
- USB B-Type Cable



- 1) Turn off the power switch.
- 2) Connect the communication cable to the printer communication port to be used.
 - Connect the RS-232C(Serial) Cable to the SERIAL port. and tighten the screw on both sides. This port requires a shielded cable less then 1.8m long.
 - Connect the LAN(Ethernet) Cable to the ETHERNET port. This port requires a UTP cable(CAT5 or higher) less then 3.0m long.
 - Connect USB A-Type(WLAN Dongle only) to the HOST port.
 - Connect USB B-Type Cable to the USB port. This port requires a shielded cable less then 1.8m long.

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3-3 Paper Installation

1) Open the Paper Cover.

TITITI

Paper Cover

2) Spread the Paper Holder and insert paper roll.



- 3) Pull the paper so that it extends out of the front of the printer. Push the paper under both of the Paper Guide.
 - * Whether the paper label is wound inwards or outwards, its printing surface must face up.



4) If you use Black-Mark or Notch paper roll, please lift up the paper and match the sensor position adjust the black mark or notch hole.



5) Close the Paper Cover until a click sound is heard.

3-4 Button and LED



3-4-1 Button Operations

Printer state	Button			
before operation	before Feed/ operation Cancel Pause		Operation procedure	Printer operation mode
Power OFF	Press	-	 Apply power while pressing the button (Hold the button until the printer starts self-test printing) 	Self-test Printing Mode.
Print Standby	Press	-	 Press the button softly and release it immediately 	Feed Mode
Print Standby	-	Press	 Press the button for two seconds and continue to hold 	Stand-alone configuration Mode
During printing	Press	-	 Press the button for two seconds and continue to hold 	Print Cancel Mode
During printing	-	Press	 Press the button softly and release it immediately 	Print Pause Mode

LE	D 1	LEI	D 2		Drintor Statua
Color	Status	Color	Status	Finiter Status	
Green	On	Green	On	Print standby mode	Print standby mode
Red	On	Orange	On	Error mode	Paper jam (gap/black mark is not recognized)
Red	On	Green	Blink	Error mode	Printer head overheating
Red	On	Red	Blink	Error mode	Paper Cover open
Red	On	Orange	Blink	Error mode	No paper
Red	On	-	Off	Error mode	Media calibration failure
Red	Blink	Red	Blink	Error mode	Auto-Cutter error
Orange	On	Orange	On	Mode switching notification	Mode switching notification
Green	Blink	Red	On	Wait for input	Print is paused temporarily. Wait for button input
Green	Blink	Green	Blink	Wait for input	Cover Close Mode. Wait for button input
Green	On	Red	Blink	Wait for input	Print Cancel Mode. Wait for button input

3-5 Test printing

- 3-5-1 Printing using Windows driver
- 1) Install the Windows driver. Refer to the "Windows driver manual" in the CD for the installation procedure.
- 2) Set the "port" of Windows driver to the appropriate interface to be used. Refer to the "Ethernet interface user's manual" in the CD when using Ethernet interface.
- 3) Print the test page using the "Print test page" function of Windows driver.
- 3-5-2 Printing using label design program
 - The label design program is included in the CD.
- 1) Install the label design program.
- 2) Refer to the "Label Design Program Manual" included in the CD and set the interface.
- 3) Print the test page after designing a label.

4. Self-Test

The self-test checks whether the printer has any problems.

- Firmware version, printer configuration information, printing quality checking pattern, and peripheral configuration information, etc.

Users cannot perform this procedure if using the printer's label peel-off option. If the printer does not function properly, contact an authorized dealer.

The self-test checks the following;

- 1) Make sure that the paper roll has been installed properly.
- 2) Turn on the power while pressing the feed button then self-test will begin. (Hold the button until the printer starts self-test printing)



5. Detailed features

5-1 Printer setting using utility program

Various printer settings can be changed using the utility program (Unified Label Utility-II).

Functions that can be used with the utility program are as follows.

1) Serial communication settings

Handshake, Stop bit, Data bit, Parity, and Baud rate can be configured.

2) Basic printer settings

Paper size, printing speed and density, paper type can be configured.

3) Language setting

Code page can be configured.

4) Media sensor manual calibration function

This function can be used to detect special type or special material paper that is not detected through automatic calibration function. Refer to Manual Calibration mode page for more details

5) Other functions for printer test are also provided.

Refer to the United Label Utility-II Manual contained in the CD for more detailed information.

 Serial 	O Parallel O USB O Ethernet	User Setting	onfigure Printer Setting	
Communication	Setting		Jser Setting Manager	
LPT Port COM Port Baud Rate Data Bits Parity Stop Bits IP Port	LPT1: COM1: 115200 8 None 1 192 . 168 . 100 . 185 9100 Disconnect Disconnect	Printer Too	Serial Basic Advanced Real-Time Clo Serial Communication Setting Baudrate :	ck Language Others
		Copyright (Default Setting G	iet Set
				<i>c</i>

5-2 Stand-alone Configuration Mode

Various modes can be executed using buttons and LED only.

5-2-1 How to start stand-alone configuration mode

- The printer mode is set to Printer Setting Mode when the Pause button is pressed for two seconds while in Print Standby Mode.
- Both LEDs will change to orange color and the printer will be set to Stand-alone Configuration Mode.
- When the printer enters into this mode, the status of LED 1 and LED 2 are changed sequentially.
- When the Feed button is pressed at specific LED color combination, the corresponding printer operation will be selected.

Sequence	LEC	D 1		LED 2	Drinter exerction	
number	Color	Status	Color	Status	Printer operation	
1			Green	Blink four times	Print Configuration Info	
2	Green	On	Orange	Blink four times	Print File List	
3			Red	Blink four times	Factory Reset	
4			Green	Blink four times	Gap Sensor Auto Calibration	
5	Orange	On	Orange	Blink four times	B/M Sensor Auto Calibration	
6			Red	Blink four times	Data Dump Mode	
7			Green	Blink four times	Demo Mode	
8	Red	On	Orange	Blink four times	-	
9			Red	Blink four times	Download Items Delete	

5-2-2 List of supported functions

5-3 Pause/Cancel

During multiple-page print jobs, the Pause and Cancel button can be used to temporarily cease printing and cancel the print job altogether, respectively.



- 5-3-1 Pause/Resume Function
- 1) When printing labels, pressing the Pause button
- 2) The printer will pause after finishing the current label printing and the status of LED will be as follows.
 - LED 1 : Green Blink
 - LED 2 : Red On
- 3) While the print job is paused, press the Pause button again to resume printing.
- 5-3-2 Print Cancellation
- 1) During label printing and/or pause mode, pressing the Cancel button enters the print cancellation mode.
- 2) The following processes occur in the print cancellation mode.
 - All label printing cancelled
 - All data received in the printer communications buffer deleted.
 - All received data deleted.
- 3) The LED Status in the print cancellation mode can be as follows.
 - LED 1 : Green On
 - LED 2 : Red Blink
- 4) While in the print cancellation mode, press the Cancel button again to return to print standby mode.

5-4 Media Calibration

This printer has been designed to recognize the gaps with most print papers, but sometimes it may not recognize the gap and keep feeding paper if a special type of paper is used. In this case, run Auto Calibration function so that the printer can recognize the gap. BIXOLON printer provides various media calibration methods in order to accommodate various special paper types.

5-4-1 About media calibration

- This function is for adjusting the sensitivity of the paper detection sensor for accurate printing position control and measuring actual length of paper.
- Sensor sensitivity adjustment
 - The purpose is to detect the identifier (gap/black mark/groove) of installed label
- Paper length measurement
 - Accurate length is required to rotate the printing orientation.
 - The purpose is to detect the change of paper type.

5-4-2 When is media calibration required?

- When the printer is installed first time
- When the newly installed paper is a different paper type
- When printer position is not accurate or printer does not stop in the right position
- 5-4-3 How to perform media calibration
 - The following four methods of media calibration can be used depending on the conditions.
 - Smart Media Detection
 - Gap Sensor Auto Calibration Mode
 - Black Mark Sensor Auto Calibration Mode
 - Manual Calibration Mode
 - Why are several calibration methods provided?
 - Multiple labels should be scanned for media calibration and more accurate sensitivity calibration can be performed when more labels are scanned.
 - The number of labels to scan for sensor sensitivity adjustment depends on various conditions such as label paper material, color, surface status, thickness, gap length, pre-printed pattern, etc.
 - Four different media calibration modes are provided for compromise between prevention of excessive use of paper and accuracy of sensor sensitivity adjustment.
 - Smart media detection mode that allows for adjustment of sensitivity with minimum amount of scanning should be good enough for most cases with general labels.
 - Try various methods in order of Smart Media Detection \rightarrow Gap Sensor Automatic Calibration / Black Mark Sensor Automatic Calibration \rightarrow Manual Calibration Mode.

5-5 Smart Media Detection

- Printer executes this function when necessary without user input and media configuration can be completed with Smart Media Detection function for most print papers.
- Papers with gap or black mark can be identified without separate settings.
- 3 ~ 5 pages of labels will be used depending on the type of paper.
- Smart Media Detection function is executed in the followings cases
 - When the printer is installed first time, it is executed through Feed button or print command.
 - When paper length change is detected during feeding or printing.
 - When the paper type entered by command is different from the configured paper type.
 - After reset with factory settings
- Smart Media Detection function will be turned off after setting the sensor sensitivity using Automatic Calibration Mode or Manual Media Calibration mode, and it will be enabled again after resetting the printer with factory settings.

5-6 Gap Sensor Auto Calibration Mode

Use this mode when paper is not detected correctly with Smart Media Detection function.

Printer feeds paper and calibrates Gap Sensor automatically.

The printer will enter error mode if paper detection fails after feeding up to 1 meter of paper. Error mode can be released by opening and closing the cover.

Use Manual Calibration Mode if paper detection fails in this mode.

Smart Media Detection will be disabled if paper detection is successful in this mode.

5-6-1 Procedure to run the calibration

• Press the Feed button at 4th LED sequence as shown in section 5-2-2 (LED 1 is Orange and LED 2 is blinking Green four times) to start Gap Sensor Automatic Calibration Mode.

5-7 Black Mark Sensor Auto Calibration Mode

Use this mode when paper is not detected correctly with Smart Media Detection function.

Printer feeds paper and calibrates Black Mark Sensor automatically.

The printer will enter error mode if paper detection fails after feeding up to 1 meter of paper. Error mode can be released by opening and closing the cover.

Use Manual Calibration Mode if paper detection fails in this mode.

Smart Media Detection will be disabled if paper detection is successful in this mode.

5-7-1 Procedure to run calibration

• Press the Feed button at 5th LED sequence as shown in section 5-2-2 (LED 1 is Orange and LED 2 is blinking Orange four times) to start Black Mark Sensor Automatic Calibration Mode.

5-8 Manual Calibration Mode

Manual-calibration of media detection can be used when the printer cannot detect a media gap (or black mark) even after auto-calibration has been executed.

Users can calibrate sensor parameters in detail by using the utility program provided by the manufacturer.

The utility can be obtained from the enclosed CD.

Please make sure the printer is connected and execute the utility program. Click on the Calibration Setting Manager Button after setting the interface type.

erface Type Serial	Parallel OUSB OEthernet	User Setting Configure Printer Setting		
mmunication	Setting	Configure Print Quality	Sensing Value Distribution STEP 1 : Start	
	Jotting	Calibration Setting Manager	032: 0000 Sensing Type :	
PT Port	LPT1:	- Downloader	○96: 0000 ○G (Эв
OM Port	СОМ1:	PCX File Downloader	0128: 0000	
aud Rate	115200		0 160 : 0000 Label Length : (mn	n)
		Printer Tool	0 224 : 0000	150
ata Bits	8	Send File	0256 ; 0000	
arity	None	Printer Tool	Check Sensing Va	alue
op Bits	1	Communication Tool		
		SLCS Tect Tool	0 384 : 0000	
	192 . 168 . 100 . 185	DED	0 416 : 0000 STEP 2 ' Save	
ort	9100	Set Configuration		
		Jet Conniguration write/Read	0512 : 0000 Middle Gap Value :	
	Discoppert		O 544 : 0000	0
		EXIT		
			Gap Count :	
		Copyright (C) BIXOLON Co., Ltd. All rights reserved.	0672:0000 7	~
			0704:0000	
			0736 : 0000 0769 : 0000 Save Calibratio	n
			0832 : 0000	
			0864 : 0000	
			0 896 : 0000 0 928 · 0000 - Capcel	
			0 992 : 0000 Cancel Calibratio	n l

- 1) Select the sensing type and input the label length by millimeter and click on "Check Sensing Value" button. Then printer starts to calibrate.
- 2) Printer will print the scanned values after calibration and the values will appear on the Screen.
- 3) Optimal sensing values will appear in bold letters on the left of the utility screen. Select one of the optimal sensing value by clicking on it's option button and then click on "Save Calibration."
- 4) If chosen value does not work properly, please try the other values among the bold letters.
- 5) To go back to the initial value, please click on "Cancel Calibration"

5-9 Cover Closing Mode

- 1. About Cover Closing Mode
 - The printed area may become out of range of paper if the paper is not in the accurate printing position when the cover is opened and closed.
 - The printer is put into Cover Closing Mode instead of Print Standby Mode when the cover is closed in order to prevent this problem, and it waits for user input.
 - The status of LEDS are as follows in this mode.
 - LED 1 : Green Blink
 - LED 2 : Green Blink
 - The data received during Cover Close Mode is not printed until the printer recovers to Print Standby Mode.
- 2. How to switch the printer from Cover Close Mode to Print Standby Mode
 - Press the Pause button to switch to Print Standby Mode without feeding any paper.
 - Press the Feed button to feed one page to align the paper position and switch to the Print Standby Mode.

5-10 Data Dump Mode

This function can be used to diagnose the communication issues when the printing does not work correctly.

In this mode, the received data are not analyzed instead they are dumped in hex format without processing.

Turn the printer off and on to recover to the Print Standby Mode.

- 5-10-1 How to start Data Dump Mode
 - 1) Press the Pause button for two seconds during Print Standby Mode.
 - 2) Both LEDs will change to orange color and the printer will be set to Stand-along Configuration Mode.
 - 3) Press the Feed button at the sixth LED sequence in 5-2-2 (LED 1 Orange / LED 2 Red Blink four times) to enable Data Dump Mode.

5-11 Factory Reset

This function is used to reset the printer settings to factory default settings.

- 5-11-1 How to reset the printer
 - 1) Press the Pause button for two seconds during Print Standby Mode.
 - 2) Both LEDs will change to orange color and the printer will be set to Stand-alone Configuration Mode.
 - 3) Press the Feed button at the 3rd LED sequence as shown in section 5-2-2 (Status LED is Green and LED 2 is blinking Red four times) to reset the printer to factory settings, and Smart Media Detection function will be executed.

5-12 The Peel-Off (Option)

This function is used to automatically separate labels from the liner. It is used only with label paper.

- 1) Open the paper cover.
- 2) Open the label peel-off cover and set the peeler switch to the ON position.
 - Check to see that the LED has turned on.



3) Remove one sheet of the label paper, and insert the paper as shown in the image below.



4) Close the label peel-off cover.



- 5) Close the Paper Cover until a click sound is heard.
- 6) Turn the printer off and on.

5-13 Using Fan-Fold Paper

Supplying paper to the printer externally is done as follows.

5-13-1 Printer Preparation

Remove the rear paper supply cover on the back side of the printer with a knife or other cutting instrument.

※ CAUTION

- Take care not to injure the hands and/or any other part of the body when performing this step.



5-13-2 When using Fan-Fold paper

1) Insert the paper at the rear of the printer using the slot and guides.



2) Adjust Paper Holders to the paper width by using the Fix Tool.



5-13-3 When using Large-Capacity paper roll (Option)



5-14 Auto Cutter (Option)

For auto paper cutting, products equipped with auto cutter are available.

Auto-Cutter can be controlled by command. And default setting can be changed by Unified Label Utility-II.

***** The paper installation method is the same as paper with no auto cutter.



5-15 Real-Time Clock (Option)

The function of the Real-Time Clock option is to print the time and date onto the label. The date and time can be set in the printer by using the Unified Label Utility-II.

You can discern a low or depleted battery if printer provides a consistently incorrect time and date. In this case, you need to replace the battery. When battery is changed, the time and the date will need to be reset.



*** CAUTION**

- For your safety, The Dip Cover on the bottom of the printer should always be closed.
 When changing the battery, please open the cover with your thumb and index finger.
 Then close the cover after changing the battery.
- Wrap the battery when recycling or storing to avoid short circuit.
- Do not short circuit the battery. It may result in heat generation or fire.
- Do not disassemble or heat the battery.

6. Cleaning Head

Printing quality might be degraded by dust, foreign substance, adhesive substance, or other pollution materials stuck in the printer head or inside the printer.

When dirty, clean the print head as follows:

※ CAUTION

- Make sure to turn the printer power off prior to cleaning.
- As the print head gets very hot during printing, if intending to clean the print head, turn the printer power off and wait approximately 2~3 minute before commencement.
- When cleaning the print head, take care not to touch the heated portion of the print head.
 - \rightarrow Printer Head is susceptible to damage from static electricity, etc.
- Take care not to allow the print head to become scratched and/or damaged in any way.

6-1 Cleaning Head

- 1) Open the Paper Cover and then use the cleaning pen to clean the head in the direction from the center of the head to the edges.
- 2) After cleaning the head, do not use the printer until the alcohol used for cleaning evaporates completely (1~2 min) and the printer has completely dried.
- * Perform the cleaning process each time the paper roll is replaced to prevent print quality deterioration.



6-2 Cleaning Sensors, Roller or/and Paper Path

- 1) Open the paper cover and then remove the paper.
- 2) Remove any dust or foreign substance using dry cloth or cotton swab.
- 3) Soak the cloth or cotton swab in alcohol for medical use and use it to remove adhesive foreign substances or other pollution materials.
- 4) After cleaning the parts, do not use the printer until the alcohol evaporates completely (1~2 min) and the printer has completely dried
- Clean the parts when there is a degradation of performance in printing quality or paper detection.



7. Appendix

7-1 Specifications

Item		Description
	Printing Method	Direct Thermal Printing
	Dot Donsity	SLP-DX420 : 203 dpi (8 dot/mm)
	Dot Density	SLP-DX423 : 300 dpi (11.8 dot/mm)
Printer	Printing Width	SLP-DX420 : Max. 108 mm (Max. 4.25")
		SLP-DX423 : Max. 105.7 mm (Max. 4.16")
	Printing Speed	SLP-DX420 : Max. 178 mm/sec (Max. 7ips)
	I finding Opeed	SLP-DX423 : Max. 127 mm/sec (Max. 5ips)
	Width	20 ~ 110 mm (0.79 ~ 4.33")
Paper	Roll	Max 130mm (Max. 5.12")
	Core	25.4 ~ 38.1mm (1 ~ 1.5")
	Input Voltage	AC 100 ~ 240V
AC Adapter	Frequency	50/60 Hz
	Output Voltage	DC 24V ± 5%
	Output Current	2.5A
Usage Conditions	Tomporatura	0 ~ 40 ℃ (Operating)
	remperature	-20 ~ 60 °C (Storage)
	Humidity	10 ~ 80 % RH (Operating)
	(except for paper)	10 ~ 90 % RH (Storage)

% Note

- Printing speed can vary depending on the data transmission speed and combination of control commands.
- This equipment is for indoor use and all the communication wirings are limited to inside of the building.
- The switch is the disconnecting device. Turn off switch from any hazard.

7-2 Label Types

The label types used with this printer are as follows.

- Control Labels: PP
- Other Labels: PET