LABEL PRINTER

MODEL : LK-B425 / B425A

4-inch Direct Thermal Label Printer

All specifications are subject to change without notice

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Safety Precautions

For better safety and reliability, adhere to the following precautionary measures.

Read and follow the instructions carefully before operation of the product.

Indication

🚫	Prohibition	❗	Must follow
	Do not disassemble		Unplug the power from the outlet
	Grounding to prevent electric shock		Do not handle the product with wet hands

⚠ WARNING

Failure to follow these instructions could result in fire, electric shock, other injuries, or property damage.
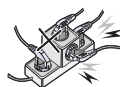
Do not pull or touch the power plug with wet hands.

Potential risk of electric shock or fire

Do not bend the wire and do not allow the wire to be pinched or crushed by heavy objects.

Potential risk of electric shock or fire

Do not overload an electrical outlet.

Potential risk of electric shock or fire

If a power plug is broken or a plug is cut or worn, do not use it.

Potential risk of electric shock or fire

⚠ WARNING

Failure to follow these instructions could result in fire, electric shock, other injuries, or property damage.

Do not unplug the power cable to turn off the product.

Turn off the power using the power button

Do not disassemble, repair or modify the product.

Potential risk of malfunction, electric shock, or fire. When the product needs to be repaired, please contact your reseller

⚠ CAUTION

Failure to follow these instructions could result in fire, electric shock, other injuries, or property damage.

Do not install the product on an unstable or inclined surface.
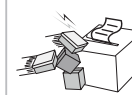
May cause damage or injury

If the product needs to be repaired, please contact your reseller.

Dealer

Potential risk of fire or unit malfunction

Keep product away from the water and other material.

Potential risk of fire or unit malfunction

Avoid excessive shock or drops.
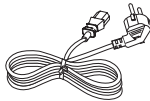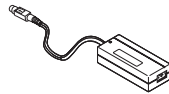
Potential risk of fire or property damage

1. Unpacking

Standard
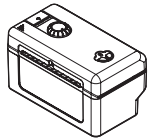
Printer
(LK-B425 or B425A)

Power Cord

Power supply
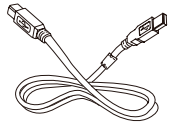
Interface cable (USB)
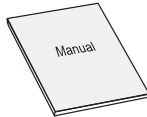
Quick Manual

Manual

Optional
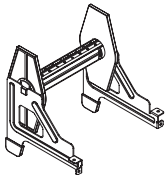
Paper supply
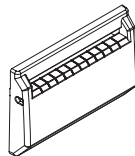
Auto Cutter

2. Printer identification

LK-B425

FEED Button

Upper Cover Lever

POWER Button

Jog Dial

Printer Head

Gap Sensor

Paper width Guide

Black Mark Sensor
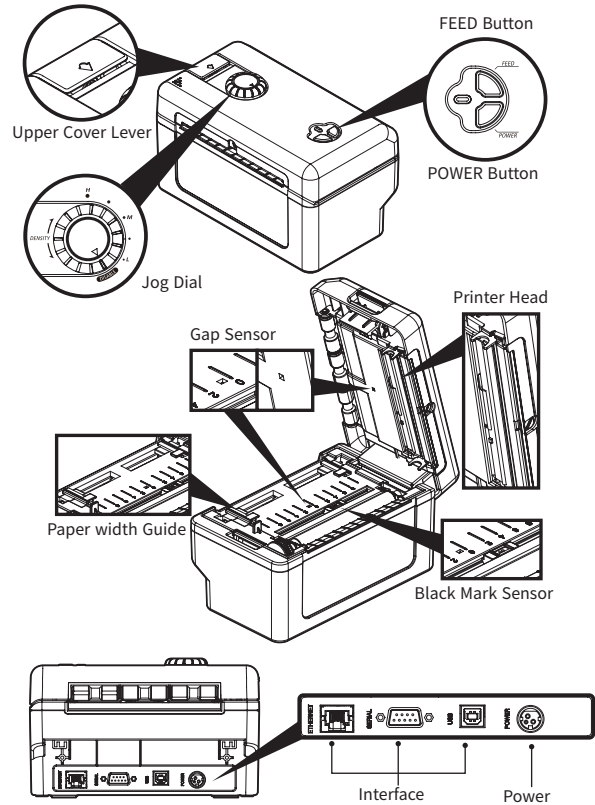
Interface

Power

LK-B425A

Upper Cover Lever
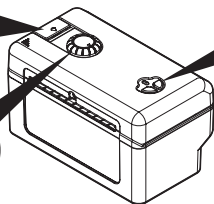
FEED Button

POWER Button

Jog Dial

Gap Sensor
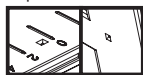
Printer Head

Paper width Guide

Black Mark Sensor
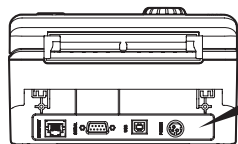
Interface

Power

3. Connecting power supply

LK-B425

LK-B425A
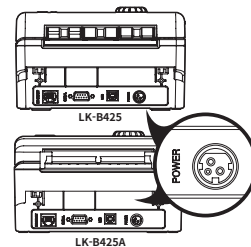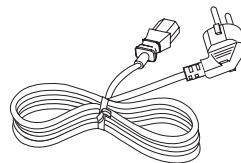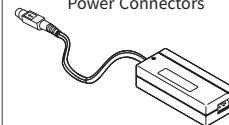
Power Connectors

Please check the specification of the AC power cord if it is correct with your power system.

Turn off the power of the printer and connect the power supply to the printer as shown above.

| 1 | 2 |
| 3 | 4 |
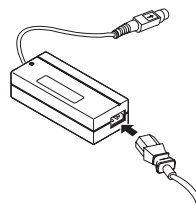
Connect the AC power cord to the power supply.
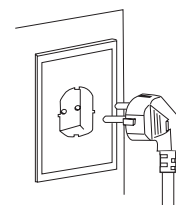
Insert a plug into the electrical outlet.

4. Interface cable connection

Printer
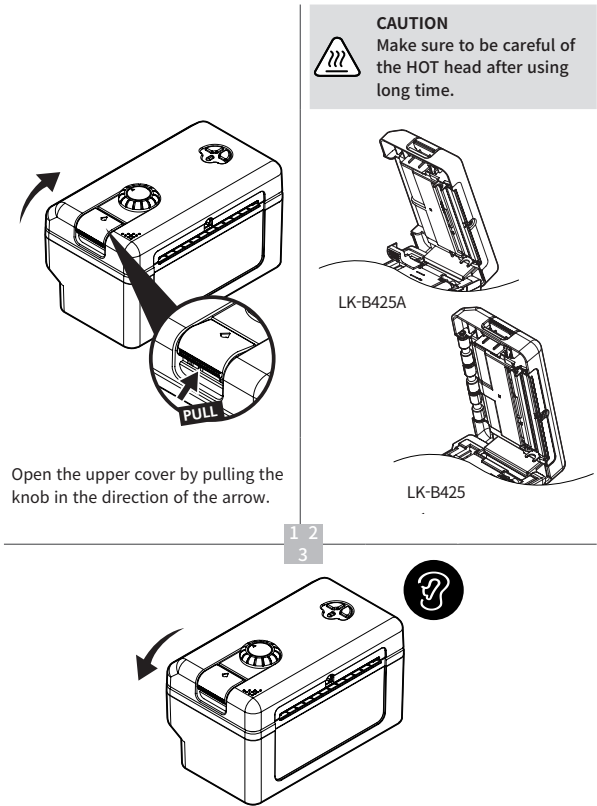
LK-B425

LK-B425A

ETHERNET SERIAL USB POWER

ETHERNET	SERIAL	USB

5. Opening the Printer

LK-B425A

Open the upper cover by pulling the knob in the direction of the arrow.

PULL

LK-B425

1 2 3

If the cover is not shut down completely, the printer may not work properly.

‒ Please make sure you hear the closing sound of the upper cover.

6. Loading the paper

6-1. Fanfold Label Type

LK-B425
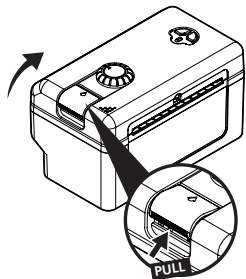
Open the upper cover by pulling the knob in the direction of the arrow.
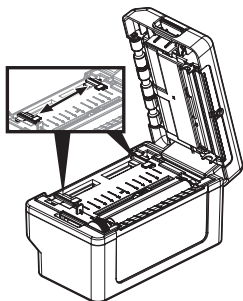
Widen the paper guide gap.
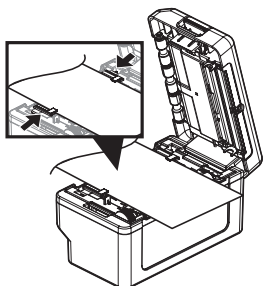
Adjust the paper width guide to meet the paper width.
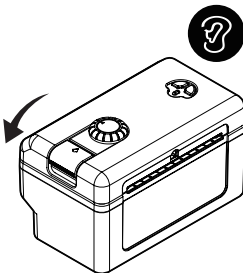
Please make sure you hear the closing sound of the upper cover.

LK-B425A
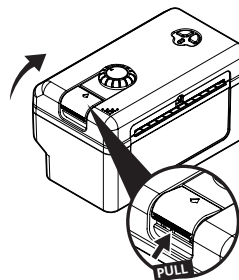
Open the upper cover by pulling the knob in the direction of the arrow.
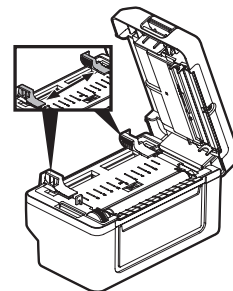
Widen the paper guide gap.
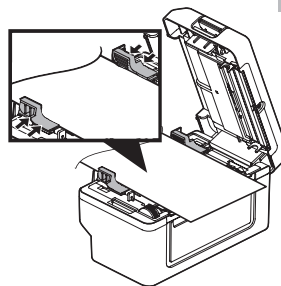
Adjust the paper width guide to meet the paper width.
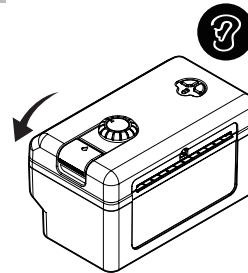
Please make sure you hear the closing sound of the upper cover.

6-2. Roll Label type and setting up the paper Supply (OPTION)

LK-B425
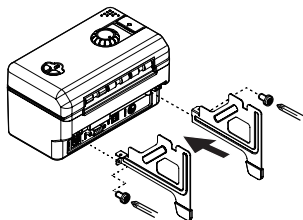
Install the paper supply by tightening up 2 screws on the printer.
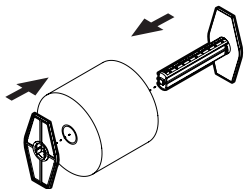
1	2
	3

Install the paper supply by tightening up 2 screws on the printer.
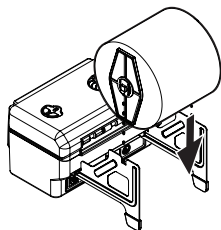
Put the paper spindle vertically down into the paper supply. Insert the paper roll into the printer.

See the '7-1. Fanfold label type' manual.

LK-B425A
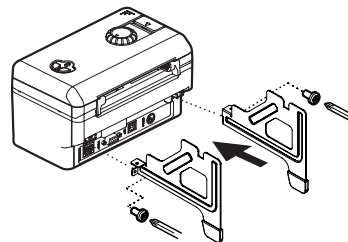
Install the paper supply by tightening up 2 screws on the printer.
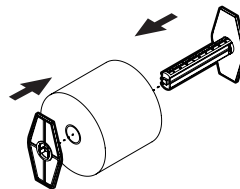
1	2
	3

Install the paper supply by tightening up 2 screws on the printer.
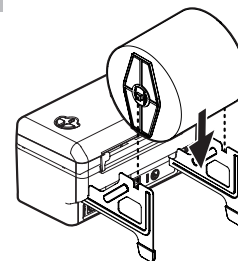
Put the paper spindle vertically down into the paper supply. Insert the paper roll into the printer.

See the '7-1. Fanfold label type' manual.

7. Density adjustment

You can easily control the printing density with a jog dial.

Jog Dial

After turning the printer power on, adjust the density by rotating the lever.

Density Information

INDICATE	H	M	L	DISABLE
FUNCTION	HIGH	MIDDLE	LOW	DISABLE

HIGH

HIGH - MIDDLE

MIDDLE

MIDDLE - LOW

LOW

DISABLE

Jog Dial
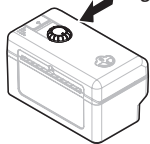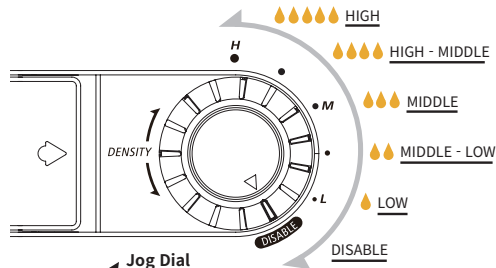
✅ NOTE

01 If you change the density during a printing job, the new density setting will be applied from the next printing page.

02 Please do not change the density too much during a printing job, it may cause problems.

03 If you set 'Disable' mode, you can change the density only on the PC driver.

04 A printing density can be slightly different depending on paper types.

8. Setting up the sensors

Black Mark Sensor

LK-B425
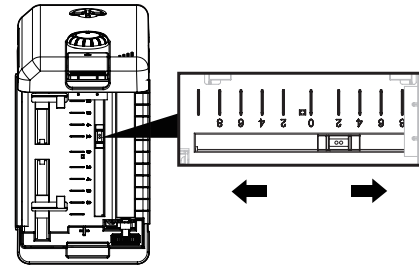
Set Black Mark Sensor right to the size of roll paper.

LK-B425A
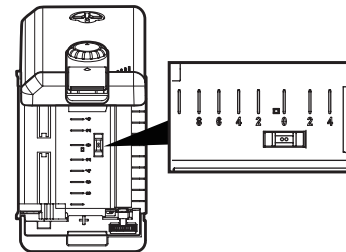
GAP Sensor

LK-B425
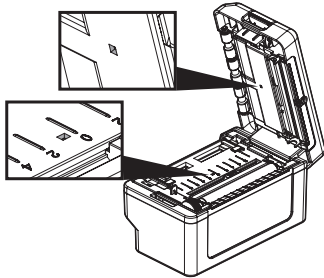
LK-B425A
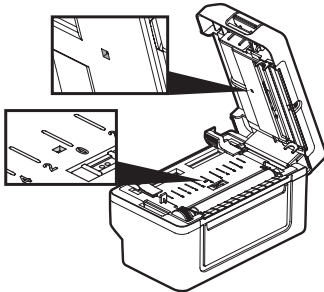
9. Sensor Calibration

> ✅ NOTE
>
> – **PRINTER ON :** Press The Power Button Once
> – **PRINTER OFF :** Press The POWER Button For 2~3 Seconds
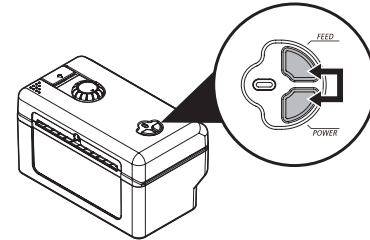
Sensor Calibration should be proceeded by pressing button POWER and FEED for 2~3 seconds at the same time regardless power status (Power On or Off).

| 3 |
| 4 |
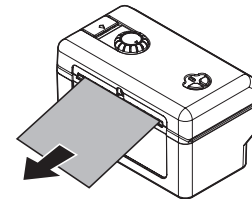
The printer will be stopped after a graph is printed. Then, you can use the printer.

If the calibration result is abnormal, set it up in "SEWOO Label Printer Configuration Tool" and then try again. This utility is on the CD and can be downloaded from the homepage.

10. Pause function
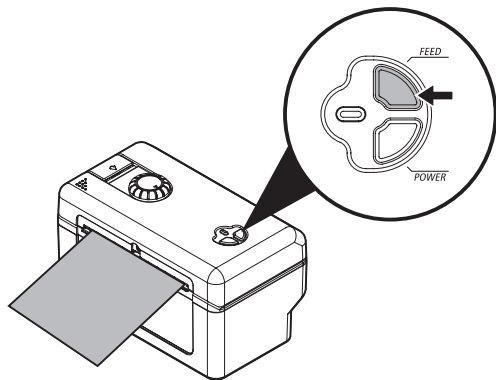
FEED

POWER

If you would like to pause a printing process, press the FEED button.

11. Self test
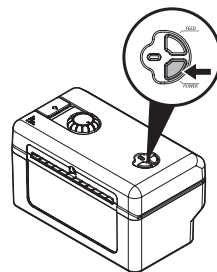
Press the POWER button to turn the printer on.
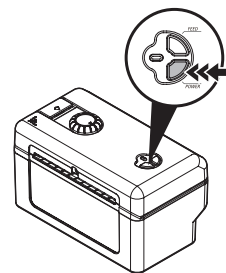
After that, press the POWER button 3 times.

1 2 3
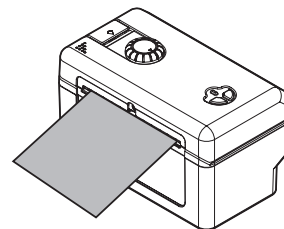
Feeding will be performed automatically after general information is printed, then now printing is possible.

12. Printer cleaning

If the interior of the printer is dusty, printing quality can lowered.
In such a case, follow the instructions below to clean up the printer.

> ☑ **NOTE**
>
> 01 Make sure to turn the printer power off prior to cleaning.
> 02 Regarding printhead cleaning, as the printhead gets very hot during printing, turn off the printer power and wait approximately 10 minutes before cleaning.
> 03 When cleaning the printhead, take care not to touch the heated portion of the printhead. The printhead can be damaged by static electricity.
> 04 Take care not to allow the printhead to become scratched and / or damaged in any way.

Print-Head Cleaning

> ⚠ **CAUTION**
> **Make sure to be careful of the HOT head after using long time.**
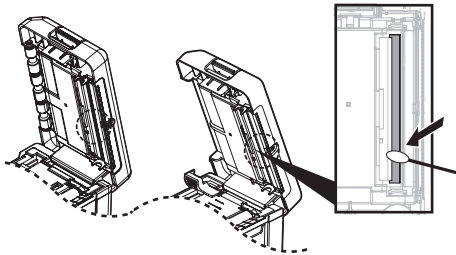
1 Use an applicator swab moistened with an alcohol solution to clean the print head and remove any dusts.
2 Once the cleaning is completed, insert paper roll into the printer few minutes later and close the printer cover.

13. Cutter cleaning (option)

If the interior of the cutter is dusty, printing quality can be lowered.

In such a case, follow the instructions below to clean up the printer.

> ☑ **NOTE**
>
> Make sure to turn the printer power off before starting cleaning.

Cutter cleaning
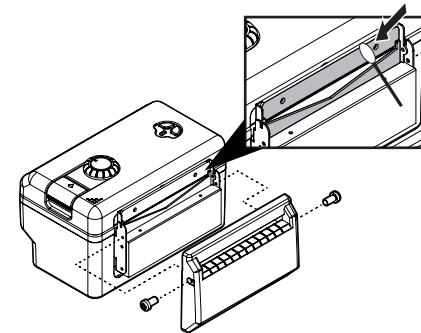
1 Unscrew the Cutter cover to separate from the printer.
2 Use an applicator swab moistened with an alcohol solution to clean the cutter and remove any dusts.
3 Once the cleaning is completed, reassemble the printer in reverse orders of steps.
4 Please use the printer after 1~2 minutes.

14. Paper Jam error

Paper Supply is Option

⚠️ **CAUTION**
Make sure to be careful of the HOT head.
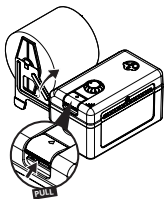
LK-B425   LK-B425A

If you face with a paper jammed problem while using a continuous media, please pull the lever to the direction of the arrow and open the cover.
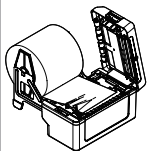
Remove of the paper seized by paper jam.

1 2 3
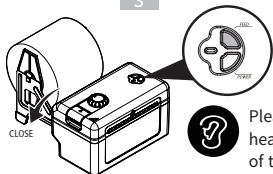
Please make sure you hear the closing sound of the upper cover.

" If the cover is not shut down completely, the printer may not work properly"

After the treatment has been done as picture above, the printer function normally once you press FEED button.

⚠️ **Caution**

When the power is on, the ordered data will be printed without any data lost after installation of the new paper roll or treatment for paper Jam.
However, if these action has been done in the case the power is off, there can be some data lost since the printer buffer will not save them while the printer power is off.

15. Peripherals Connection (option)

This product can communicate with other devices via Bluetooth & Wi-Fi communication and cable.
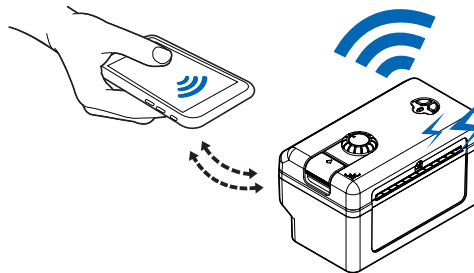
15-1. Bluetooth Connection

1 The Printer can be connected to devices equipped with Bluetooth communication capacity (PDAs, PCs, etc.)

2 Use the Bluetooth connection function supported by the device to connect to the printer.

15-2. Wi-Fi Connection

1 The Printer can be connected to devices equipped with Wi-Fi communication capacity (PDAs, PCs, etc.)

2 Use the Wi-Fi connection function supported by the device to connect to the printer.

✅ **NOTE**
‒ Please refer to the configuration manual for details.
‒ Website(www.miniprinter.com) > C/S Center > Download > Select Model

16. Interface

Interface Connectors

Standard
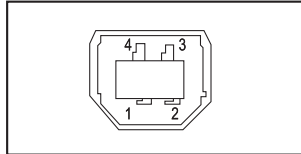
USB " B " TYPE
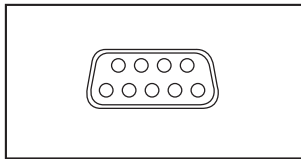
DIN 9 Pin Serial
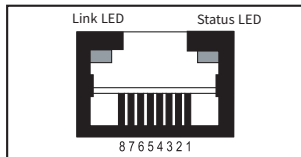
Ethernet

Ethernet Interface

Pin	Signal	I/O
1	Data Out +	Output Data +
2	Data Out -	Output Data -
3	GND	Ground
4	Data IN +	Input Data +
5	Data IN -	Input Data -
6	N.C	-
7	N.C	-
8	N.C	-

USB Interface

Pin	Signal	I/O	Description
1	+5V	-	+5V
2	DATA-	-	Printer transmit data line
3	DATA+	-	Printer transmit data line
4	GND	-	System Ground

9Pin Serial Interface

Pin	Signal	I/O	Description
3	RXD	Input	Printer receive data line RS-232C level
2	TXD	Output	Printer transmit data line RS-232C level
6, 8	DTR	Output	Printer handshake to host line RS-232C level
5	GND	-	System Ground
4	DSR	Input	Data Send Ready
1, 7, 9	NC	-	-

17. Standard roll media specification
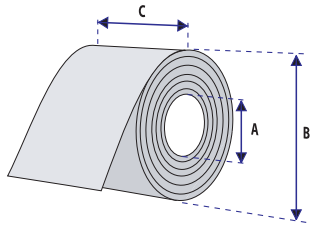
Core	
Diameter(A)	Options
Max. width	114 mm
Roll	
Max.diameter(B)	Options
Max.media width(C)	114 mm
Min.media width(C)	25 mm
Max.media thickness	0.20 mm
Min.mdeia thickness	0.06 mm

☑ NOTE

01 If the label thickness is more than 0.18mm, adjust the printing speed to 127mm/s.

02 When the paper width is less than 25.4 (1inch), please print 101.6 mm/s
When the paper width is between 25.4 (1inch) to 76.2 (3inch), please print 127mm/s

⚠ **Caution** Protect the media against sand, grit, and other hard particles during printing and storage. Keep the cover closed. Even very small foreign particles may cause severe harm to the delicate printhead.

18. Standard label specification

<-- a --> Media width (inch, liner)	
Maximum	114 mm
Minimum	25 mm
<-- b --> Label length	
Minimum	10 mm
<-- c --> Label gap height	
Maximum	10 mm
Minimum	2 mm
Liner	
Opacity	50~75%
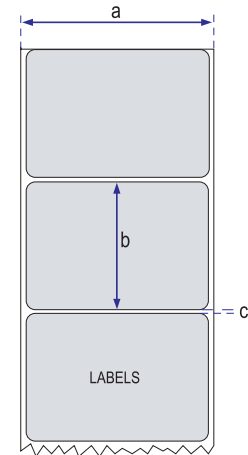
19. Label specification with Through-hole

<-- a --> Tag or strip width	
Maximum	114 mm
Minimum	25 mm
<-- b --> Tag length	
Minimum	10 mm
<-- c --> Detection slot width	
Minimum	14 mm
<-- d --> Detection slot height	
Maximum	10 mm
Minimum	2 mm
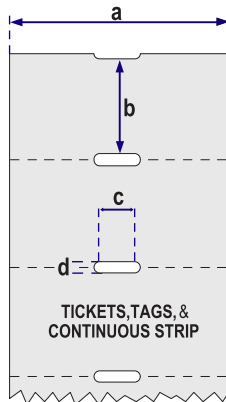
20. Label with Black Mark

<-- a --> Tag or strip width	
Maximum	114 mm
Minimum	25 mm
<-- b --> Tag length	
Minimum	10 mm
<-- c --> Black mark width	
Minimum	14 mm
<-- d --> Black mark height	
Maximum	10 mm
Minimum	3 mm
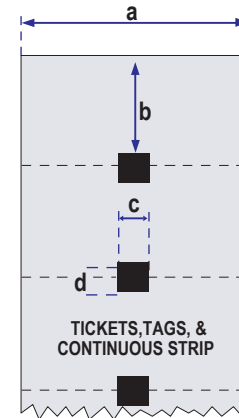
21. Continuous stock specification

The printer can use continuous paper without any detection gap or black marks.

Continuous paper cannot be used in the Test (Dump) Mode.

<-- a -->	
Maximum	114 mm
Minimum	25 mm

CONTINUOUS STRIP
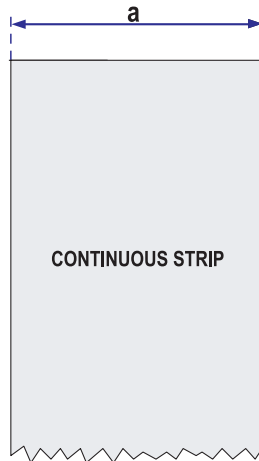
22. Specifications

Print method		Direct Thermal
Print speed (Max.)		152mm / sec.
Print width (Max.)		104mm (4 inch)
Print length (Max.)		1000mm
Resolution		203dpi (8 dots/mm)
Paper width (Min.~Max.)		Min. 25 ~ Max. 114mm
Paper roll size (Min.~Max.)		Options
Paper thickness		0.06~0.20mm
Paper type		Label , Tag, Continuous, Fanfold
Interface	Standard	USB + Serial(RS-232C) + Ethernet
	Optional	Bluetooth, Wi-Fi
System	CPU	Cortex-M4(ARM 32bit Core)
	Memory	Flash 1MB(in CPU), SDRAM 16MB, Serial Flash 8MB, EEPROM 2KB
Serial baud rate		115,200bps
Sensor	Standard	Label Gap, Cover open, Black mark
Power	Type	External Power Adapter
	AC	100~240V AC, 1.5A, 50~60Hz
	DC	24V, 1.75A
Programming language		ZPL II, EPL II Command compatible
Barcode	1D	Code39, Code128 with subsets A/B/C, Code93, Codabar, Interleaved 2 of 5, UPC-A and UPC-E with 2 or 5 digit extensions, EAN-8 and EAN-13 with 2 or 5 digit extensions, Postnet, Plessey(MSI-1), German Post Code, MSI-3, UCC/EAN-128, Logmars, Code49
	2D	MaxiCode, PDF 417, Data Matrix, QR Code, MicroPDF417, AZTEC

	EPLII	8x12, 10x16, 12x20, 14x24, 32x48 (5 Bitmap Font)：English, 24x24(KSC5601)：Korean
Font Specification	ZPLII	5x9, 7x11, 10x18, 15x28, 13x26, 40x60, 13x21 (7 Bitmap Font), 1 smooth scalable font
Driver		Windows Printer Driver XP, 2000, 2003, 2008, Vista, 7(32 & 64bit), 10
Weight		1.5 kg
Size (W x D x H)		182 x 120 x 123 mm
Option		External Paper Supply, Auto Cutter

Certification

1 CE EMCD (CE-EMCD Class A)
2 KC
3 CB

Electrical Characteristics

1 Input Voltage   DC 24V ± 10%

2 Current
     Consumption
     − Operating：Approx. 2.0 A (at ASC ll printing)
     − Peak：Approx. 10 A
       (at print duty 100%, For 10 seconds or less)
     − Stand-by：Approx. 0.15 A

3 Power Connector

```
PIN3 : GROUND ─────┐
                   ┌─────┐   ┌─ PIN1 : 24V DC
                   │  ∘∘ │
                   │  ∘  │
PIN2 : No CONNECTION ──┘
```
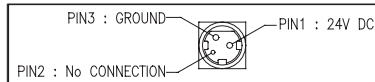
ZPL Command List

No.	Command	Description
1	^A	Scalable/Bitmapped Font
2	^B1	Code 11 BarCode
3	^B2	Interleaved 2 of 5 BarCode
4	^B3	Code 39 BarCode
5	^B4	Code 49 BarCode
6	^B5	Planet Code BarCode
7	^B7	PDF417 BarCode
8	^B8	EAN-8 BarCode
9	^B9	UPC-E BarCode
10	^BA	Code 93 BarCode
11	^BC	Code 128 BarCode(Subsets A, B, and C)
12	^BD	UPS MaxiCode BarCode
13	^BE	EAN-13 BarCode
14	^BF	Micro-PDF417 BarCode
15	^BI	Industrial 2 of 5 BarCode
16	^BJ	Standard 2 of 5 BarCode
17	^BK	ANSI Codabar BarCode
18	^BL	LOGMARS BarCode
19	^BM	MSI BarCode
20	^BP	Plessey BarCdoe
21	^BQ	QR Code BarCode
22	^BS	UPC/EAN Extensions
23	^BU	UPC-A BarCode
24	^BX	Data Matrix BarCode
25	^BY	BarCode Field Default
26	^BZ	POSTNET BarCode
27	^CC	~CC Change Carets
28	^CD	~CD Change Delimiter
29	^CF	Change Alphanumeric Default Font
30	^CI	Change International Font/Encoding
31	^CT	~CT Change Tilde
32	^DF	Download Format

33	~DG	Download Graphics
34	^FB	Field Block
35	^FC	Field Clock(for Real-Time Clock)
36	^FD	Field Data
37	^FH	Field Hexadecimal Indicator
38	^FN	Field Number
39	^FO	Field Origin
40	^FP	Field Parameter
41	^FR	Field Reverse Print
42	^FS	Field Separator
43	^FT	Field Typeset
44	^FV	Field Variable
45	^FW	Field Orientation
46	^FX	Comment
47	^GB	Graphic Box
48	^GC	Graphic Circle
49	^GD	Graphic Diagonal Line
50	^GE	Graphic Ellipse
51	^GF	Graphic Field
52	^GS	Graphic Symbol
53	^ID	Object Delete
54	^IL	Image Load
55	^IM	Image Move
56	^IS	Image Save
57	^LH	Label Home
58	^LL	Label Length
59	^LR	Label Reverse Print
60	^LS	Label Shift
61	^LT	Label Top
62	^MC	Map Clear
63	^MD	Media Darkness
64	^MM	Print Mode

65	^MN	Media Tracking
66	^MT	Media Type
67	^PM	Printing Mirror Image of Label
68	^PO	Print Orientation
69	^PQ	Print Quantity
70	^PR	Print Rate
71	^PW	Print Width
72	^SC	Set Serial Communications
73	~SD	Set Darkness
74	^SN	Serialization Data
75	^ST	Set Date and Time(for Real-Tiime Clock)
76	^XA	Start Format
77	^XF	Recall Format
78	^XG	Recall Graphic
79	^XZ	End Format

24. Utilities

The following utilities and concerned manual can be found on the QR or homepage.

No.	Name	Description
1	SEWOO Label Printer Configuration Tool	SEWOO Label Printer Configuration Tool. This program provides the following functions. − Set Ethernet and RS232 − Set beep sound for each error − Set detailed sensor calibration conditions − Set the print density, speed, tear-off amount after printing, and operation at booting & cover close action − Download the printer firmware − Download the resident font
2	SEWOO Label Printer Wi-Fi	This program provides detailed Wi-Fi setting functions.
3	SEWOO Label Printer Bluetooth Configuration Tool	This program provides detailed Bluetooth setting functions.
4	Font Downloader (ZPL supported)	This program provides a function to download the device system font to the printer.
5	LabelCooker	This program is for label form design and designed label printing.
6	ImageConverter (ZPL supported)	This program provides a function to download images or logos.

25. S/W

We provides SDK, Driver, etc. as follows to respond to various S/W usage environments.

You can download this S/W from the homepage.

No	Name	Description
1	Windows Driver	This is an install program used to print a label printer in Windows OS. After installing the Windows Driver, you can use a program like Label Cooker.
2	Mac Driver (EPL supported)	This is the Cups Driver used to print a label printer in the Mac OS environment.
3	Windows SDK	This is library for communication and data output with label printer in Windows OS. A method that can be used after installing Windows Driver (Windows GDI & Spool SDK) and a method to use without driver installation (Windows Direct SDK) are provided.
4	Android SDK	This is library for communication and data output with label printers in Android OS.
5	iOS SDK	This is library for communication and data output with label printers in iOS.

QR Page