sewoo

Aroot Co., Ltd.

28-6, Gajangsaneopdong-ro, Osan-si, Gyeonggi-do ,18103, Republic of Korea
TEL +82-31-8077-5000 / **FAX** +82-31-624-5310 / http://www.miniprinter.com

B24 ENG Rev. H 10/2023

LABEL PRINTER

MODEL : LK-B24

4" Thermal Transfer and Direct Thermal Label Printer

All specifications are subject to change without notice

This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions.

1) This device may not cause harmful interference, and
2) This device must accept any interference received, including interference that may cause undesired operation.

Tim Kloeker

19700 S Vermont Ave Ste 200 Torrance, CA 90502 | USA
NA_Sales@miniprinter.com

Victor Almazan

Paseo de la Reforma No. 265 Piso 2.Oficina SBC. Col.
Cuauhtémoc, C.P. 06500 Ciudad de Mexico | Mexico
LA_Sales@miniprinter.com

Disposal of Old Electrical&Electronic Equipment(Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronics equipment. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Table of Contents

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

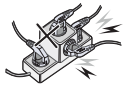
Failure to follow these instructions could result in fire, electric shock, other injuries, or property damage.

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.

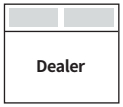
Potential risk of malfunction, electric shock, or fire. When the product needs to be repaired, please contact your reseller

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.

Potential risk of fire or unit malfunction

Keep product away from the water and other material.

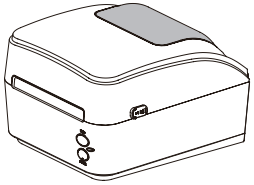
Potential risk of fire or unit malfunction

Avoid excessive shock or drops.

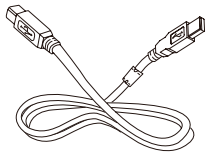
Potential risk of fire or property damage

1. Unpacking

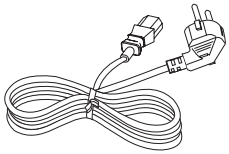
Standard



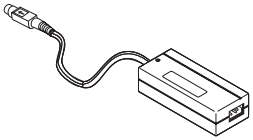
Printer



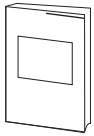
Interface cable (USB)



Power Cord(1EA)

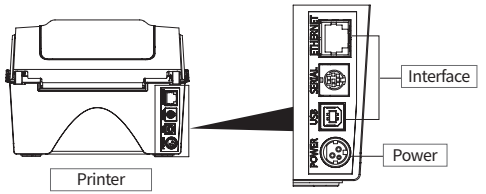


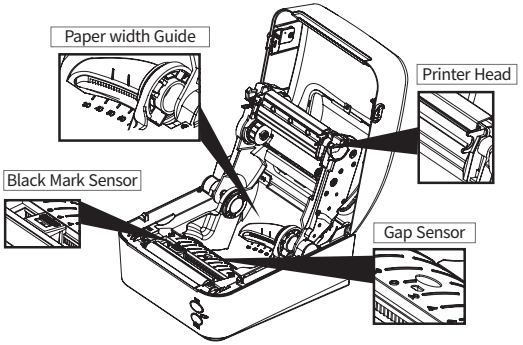
Power supply

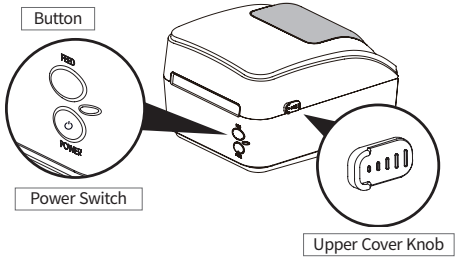


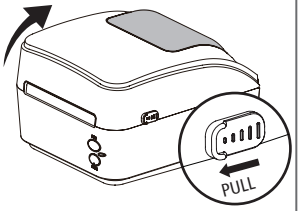
Quick Manual

2. Inspecting The Printer

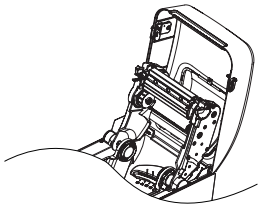








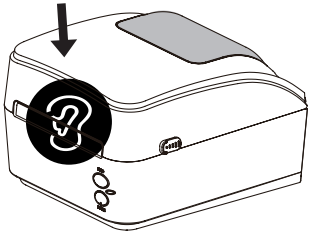
Open the upper cover by pushing the knob in the direction of the arrow



CAUTION
Make sure to be careful of the HOT head after using long time.

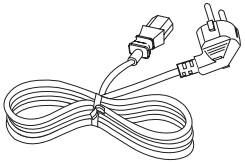
1 2 3

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

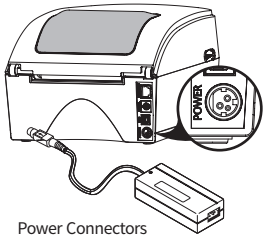


Please make sure you hear the closing sound of the upper cover.

3. Attaching Power Supply



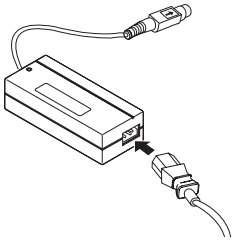
Please check the specification of the AC power cord if it is correct with your power system.



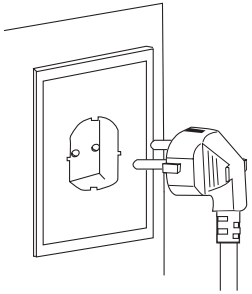
Power Connectors

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

1 2
3 4



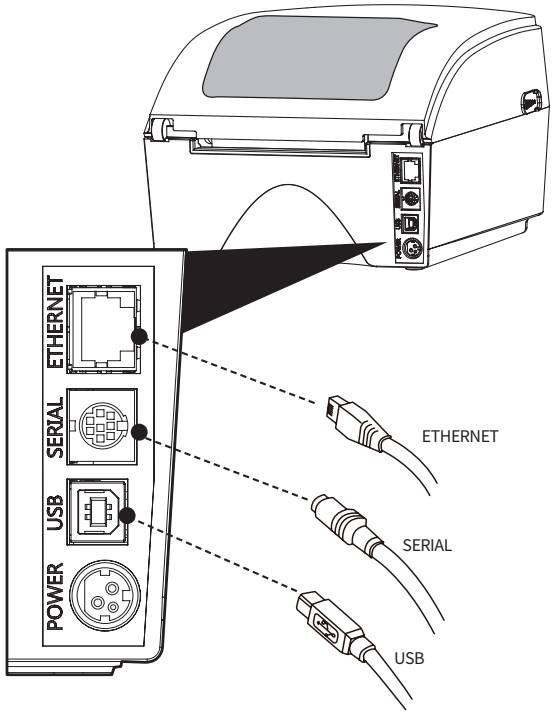
Connect the AC power cord to the power supply.



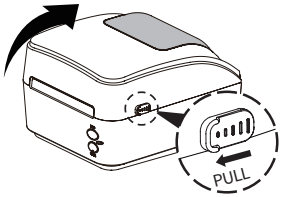
Insert a plug into the Telectrical outlet.

4. Hooking up the printer and computer

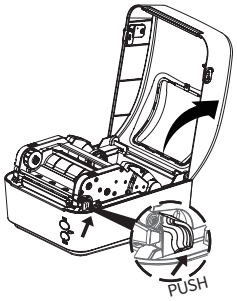
Printer



5. Loading the Paper

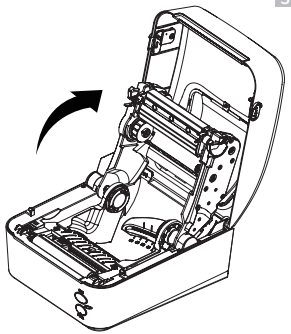


Turn off the printer and open the upper cover by pushing the knob in the direction of the arrow

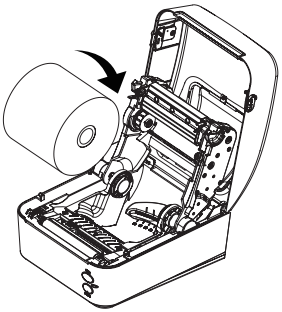


Please open the upper cover as shown above.

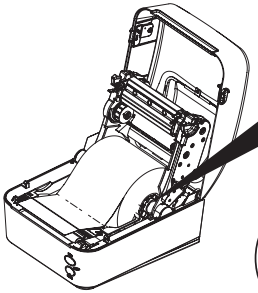
1 2
3 4

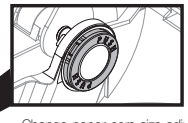


Please open as shown above.

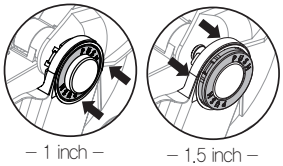


Insert the paper roll into the printer.



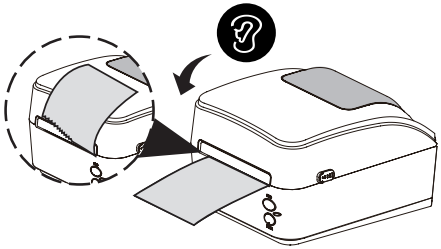


- Change paper core size adjusting push button of Label Paper Guide.



Adjust the paper width guide to meet the paper width.

5
6

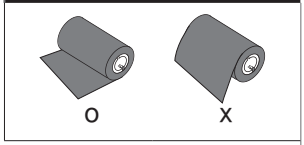


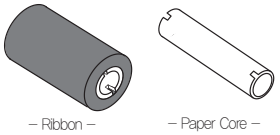
Close the upper cover completely and make sure you hear the closing sound.

- Please cut the paper in upper direction.

6. Loading Ribbon

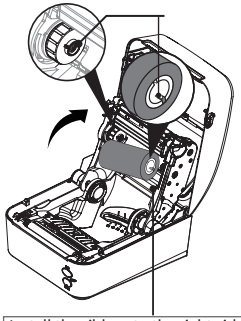
Direction of Ribbon Loading





Prepare a ribbon and paper core

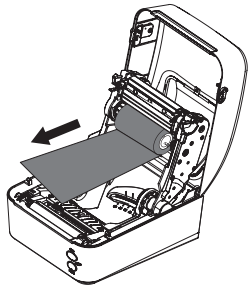
Make sure that install adjusting the groove.



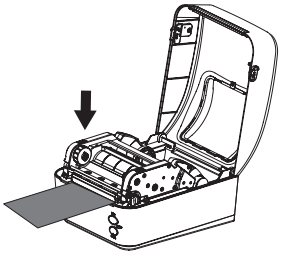
Install the ribbon to the right side first

Install the ribbon adjusting the groove after lifting following picture.

1 2
3 4

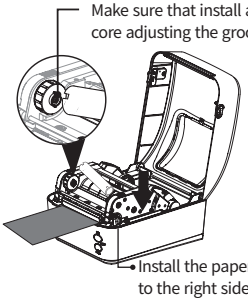


Release the ribbon forward enough.



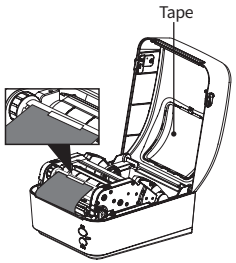
Close in condition that the ribbon is released.

Install a paper core adjusting the groove, otherwise a paper core can be fallen.



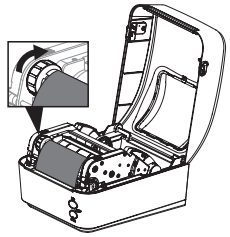
Install a paper core adjusting the groove as picture.

New ribbon has sticker in the end, so that tape is not necessary. In case that ribbon doesn't have sticker, please use tape.

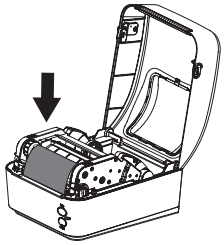


Attach the ribbon using tape to a paper core as picture.

1 2
3 4

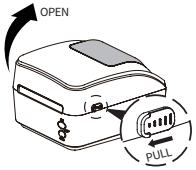


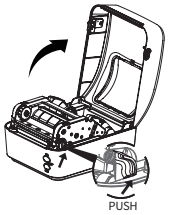
Spin the roller tight in order that only black side of the ribbon is appeared.



Close exactly with click sound.

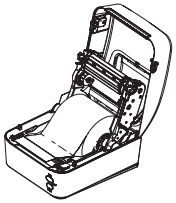
7.The treatment when you run short of paper and encounter cutter jam proble



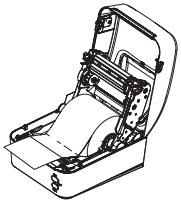


While you are printing with continuous media, please press PULL lever to the direction of the arrow.

" Installation of the new paper when the printer is short of it "	" Remove of the paper seized by paper jam "

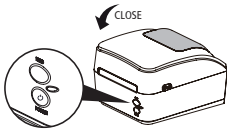


Please open as shown above.



Insert the paper roll into the printer.

" Remove of the paper seized by paper jam "



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

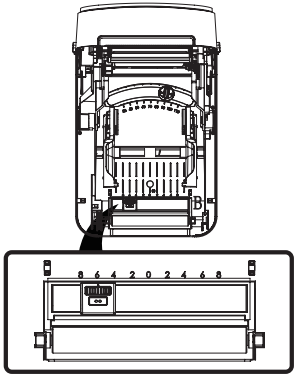
Caution

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.

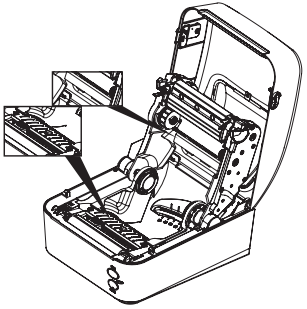
8. Setting up the sensors

Black Mark Sensor



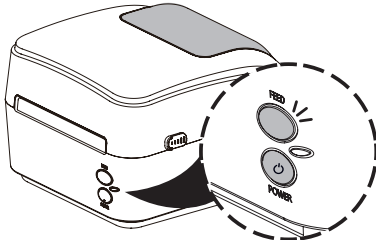
Set Black Mark Sensor right to the size of roll paper

GAP Sensor



9. Media Calibration

9-1. Media Calibration when printer power is off



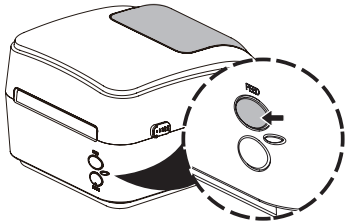
1 Pressing the "**POWER**" button and "**FEED**" button at the same time for 2-3 seconds, sensor calibration proceeds.

2 After the printout is completed, printer returns to the **READY** mode.

NOTE

- Power switch sig **ON** : Press once
  OFF : During 2~3 seconds

9-2. Media Calibration when printer power is on

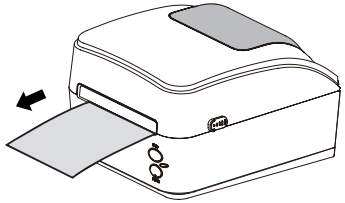


Press the "**FEED**" button and release immediately after the first beep.

NOTE

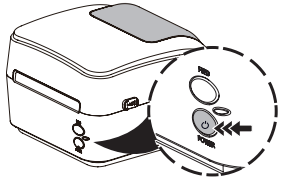
- At the sound of the second beep, the printer goes into the Self Test function and prints out the printer's configuration.

1
2



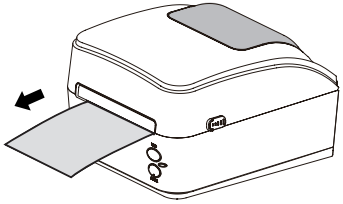
The media will move forward, calibrating the sensor and printing the graph for the media that is loaded. This information will be automatically saved to ensure accurate top of form alignment. Once the graph is printed, cycle the power to get back into to **READY** mode.

10-1 Self-Test Printing Using Power Button



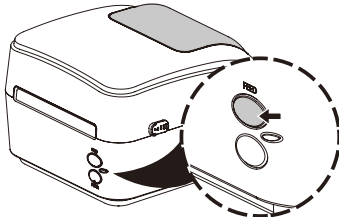
With the power on, press the "POWER" button three times in a row.

1
2



The media will move forward, calibrating the sensor and printing the graph for the media that is loaded. This information will be automatically saved to ensure accurate top of form alignment. Once the graph is printed, cycle the power to get back into to **READY** mode.

10-2 Self-Test Printing Using FEED Button



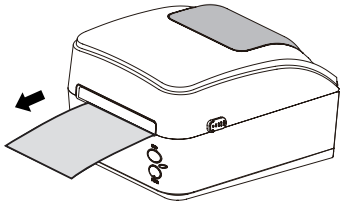
1 Press the "**FEED**" button until after the sound of two beeps. Then release the "**FEED**" button.

2 After the printout is completed, printer returns to the READY mode.

NOTE

– If the "FEED" button is released after only one beep, the printer goes into the Media Calibration function. (see section 9)

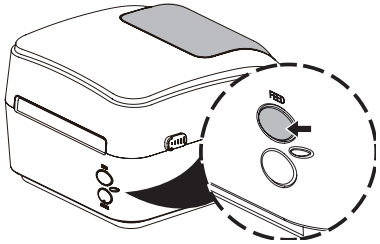
1
2



The media will move forward, calibrating the sensor and printing the graph for the media that is loaded. This information will be automatically saved to ensure accurate top of form alignment. Once the graph is printed, cycle the power to get back into to **READY** mode.

11. Offline Printer Reset Function

- The LK-B24 can be reset without being connected to a computer.



1 With the printer powered on, pressing the "**FEED**" button will produce a beep sound every 1 second. Hold the "**FEED**" button and release at the third beep to enter the printer reset function. The printer will then print a menu and will then enter into the offline reset mode

2 Review the menu (as shown below) and press down the "**FEED**" button the number of beeps corresponds to the item to be executed in the menu, and then release the "**FEED**" button.

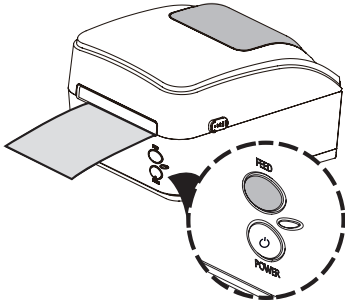
Setting Menu

01 Ethernet setting initialization
02 Printer Factory Reset
03 Enter printer offline reset mode

NOTE
- Printing or feeding while in the offline setting menu will cause the printer to exit this menu option.
- This function is supported from firmware version V3.00 and higher.

12. Pause function

NOTE
- **Pause & Restart** : Press FEED KEY Once.



When you would pause on the printing process, press the 'FEED' key.

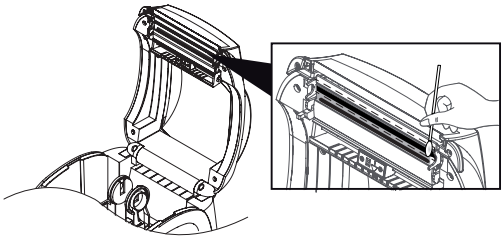
13. Printer cleaning

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.

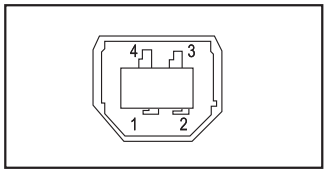
Print-Head Cleaning



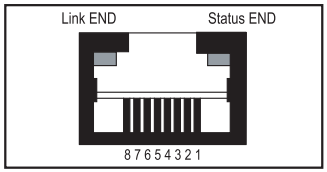
1 Use an applicator swab moistened with an alcohol solution to clean the print head and remove any dusts.
2 Once the cleaning is completed, insert paper roll into the printer few minutes later and close the printer cover.

14. Connector

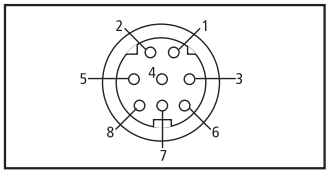
Interface Connectors



USB " B " TYPE



Ethernet



8 Pin Serial

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	-

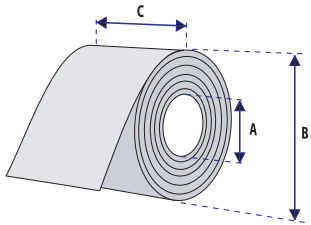
USB Interface

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

DIN 8Pin Serial Interface

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

15. Standard roll media specification



Core	
Diameter(A)	25.4 or 38.1 mm
Max. width	114 mm
Roll	
Max.diameter(B)	127 mm
Max.media width(C)	114 mm
Min.media width(C)	18 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.

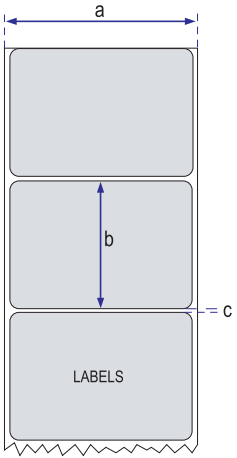
02 When the paper width is less than 25.4 (1inch), please print 101.6 mm/s
When the paper width is between 25.4 (1inch) to 76.2 (3inch), please print 127mm/s.

Caution

Protect the printhead from 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 printhead.

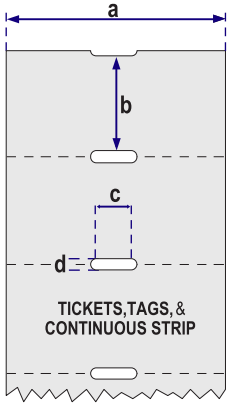
16. Standard label specification

<-- a --> Media width (inch, liner)	
Maximum	114 mm
Minimum	18 mm
<-- b --> Label length	
Minimum	10 mm
<-- c --> Label gap height	
Maximum	10 mm
Minimum	2 mm
Liner	
Opacity	50~75%



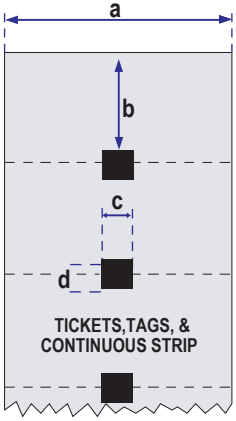
17. Label specification with Through-hole

<-- a --> Tag or strip width	
Maximum	114 mm
Minimum	18 mm
<-- b --> Tag length	
Minimum	10 mm
<-- c --> Detection slot width	
Minimum	14 mm
<-- d --> Detection slot height	
Maximum	10 mm
Minimum	2 mm



18. Label with Black Mark

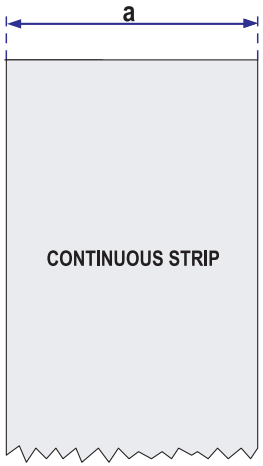
<-- a --> Tag or strip width	
Maximum	114 mm
Minimum	18 mm
<-- b --> Tag length	
Minimum	10 mm
<-- c --> Black mark width	
Minimum	14 mm
<-- d --> Black mark height	
Maximum	10 mm
Minimum	3 mm



19. 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	18 mm



20. Specifications

Print method		Direct Thermal
Print speed (Max.)		127mm/sec
Print width (Max.)		104mm (4 inch)
Print length (Max.)		1,000mm
Resolution		203dpi (8 dots/mm)
Paper width (Min.~Max.)		Min. 18 ~ Max. 114 mm
Paper roll size (Min.~Max.)		Ø 25.4 mm ~ Ø 127 mm
Paper thickness		0.06 ~ 0.20 mm
Paper type		Label , Tag, Continuous, Fanfold
Paper sensor		Label Gap, Black Mark, Ribbon Encorder
Ribbon width (outside diameter)		110mm
Ribbon length		74M, Ø 33 mm
Ribbon diameter		0.5 inch
Interface		Serial(RS-232C), Ethernet, USB
Memory	Standard	1MB Flash, 16MB SDRAM, 8MB Font Flash
Serial baud rate		115,200 bps (max)
Programming language		EPL II (Eltron Programming language) ZPL II (Zebra Programming language)
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
Font specification	EPLII	6bitmapped Font
	ZPLII	7bitmapped Font, 1 Smooth Font
Weight		1.9 2kg
Size (W x D x H)		207 x 250.50 x 160.65 mm

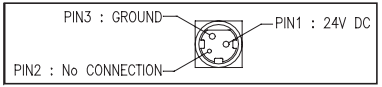
Temperature	Operation	0 ~ 40°C
	Storage	-20 ~ 60°C
Humidity	Operation	10 ~ 90%
	Storage	10 ~ 90%

Electrical Characteristics

1 Input Voltage — DC 24V ± 10%

2 Current Consumption
- Operating: Approx. 2.9 A (at ASC // printing)
- Peak : Approx. 10 A
  (at print duty 100%, For 10 seconds or less)
- Stand-by : Approx. 0.15 A

3 Power Connector



21. Command List

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

22. 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.

23. 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