LUKHAN®

MODEL : LK-B30

4" DESKTOP LABEL PRINTER

All specifications are subject to change without notice

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

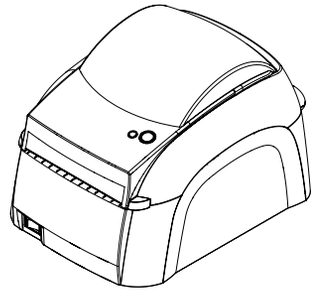
This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronics equipment. For more detailed information about recycling of this product,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

Table of Contents

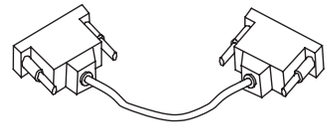
1. UNPACKING	3
2. PRINTER IDENTIFICATION	4
3. CONNECTING POWER SUPPLY	6
4. HOOKING UP THE PRINTER AND COMPUTER	7
5. LOADING THE MEDIA	8
6. THE TREATMENT WHEN YOU RUN SHORT OF PAPER AND ENCOUN-	10
7. SETTING UP THE SENSORS	11
8. SELF TEST	12
9. AUTO SETUP FOR LABEL SIZE	13
10. PAUSE AND CANCEL FUNCTION	14
11. CONNECTOR	15
12. STANDARD ROLL MEDIA SPECIFICATION	17
13. STANDARD LABEL SPECIFICATION	18
14. SPECIFICATION OF THE LABEL WITH THROUGH-HOLE	19
15. SPECIFICATION OF THE LABEL WITH BLACK MARK	20
16. CONTINUOUS PAPER SPECIFICATION	21
17. SPECIFICATION OF THE PRODUCT	22
18. CONTROL COMMANDS	24

1. Unpacking

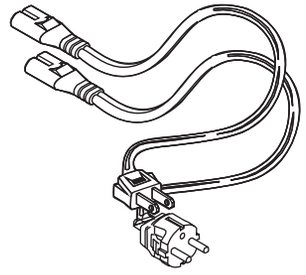
Printer



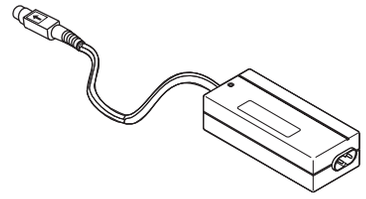
Interface cable (selected optionally)



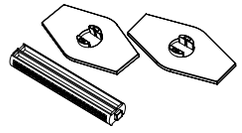
Power Cord(1EA)



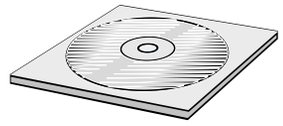
Power supply



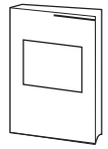
Paper Spindle



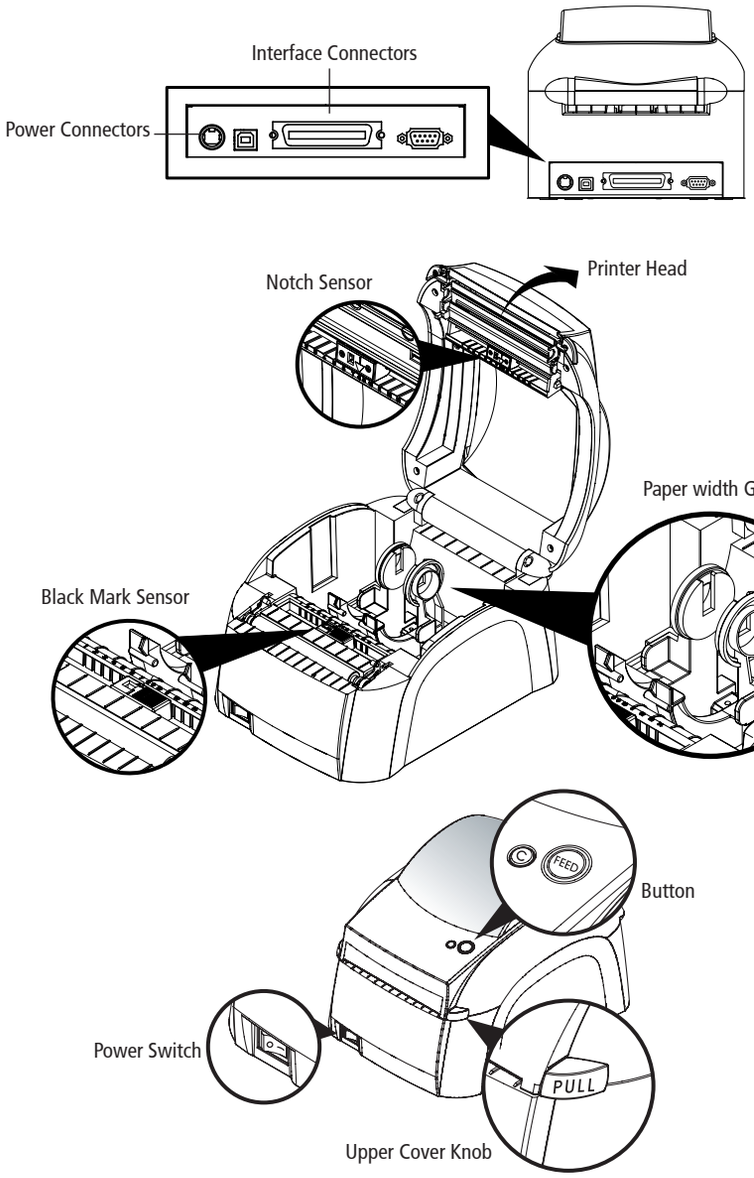
CD (Manual and Software)



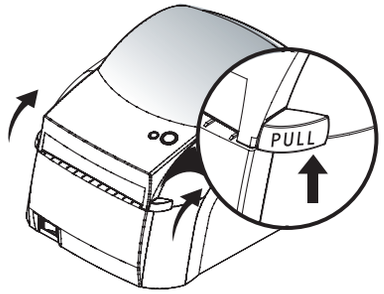
Quick Manual



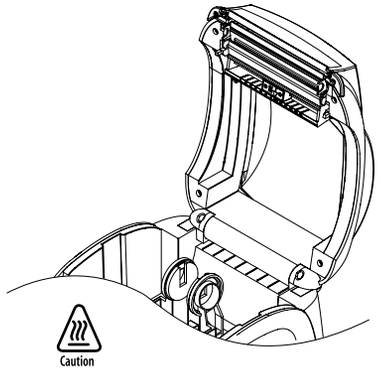
2. Printer identification



Opening the printer

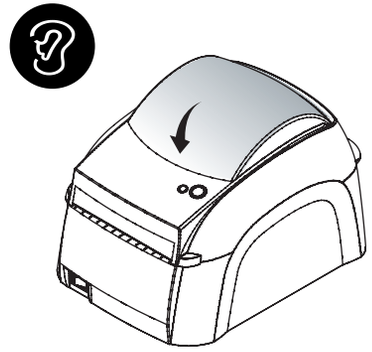


Open the upper cover by pushing the knob in the direction of the arrow.



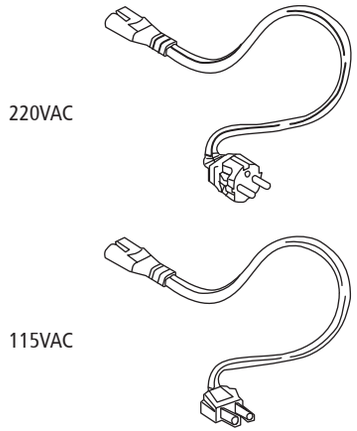
Make sure to be careful of the HOT head after using long time.

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

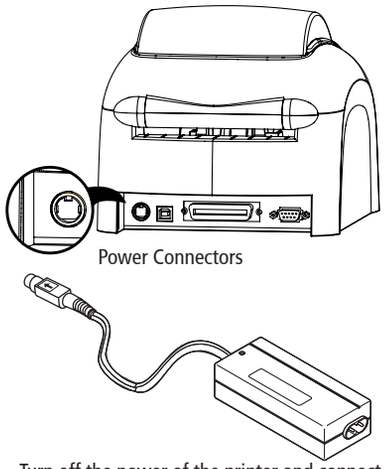


Please make sure you hear the closing sound of the upper cover.

3. Connecting power supply

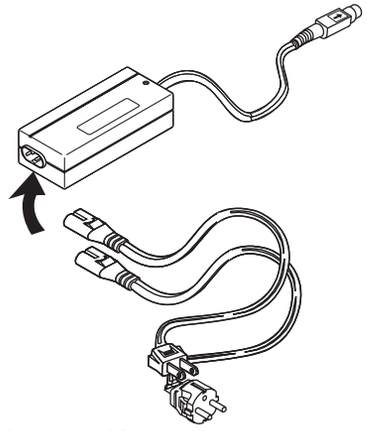


Please check the specification of the AC power cord if it is correct with your power system.

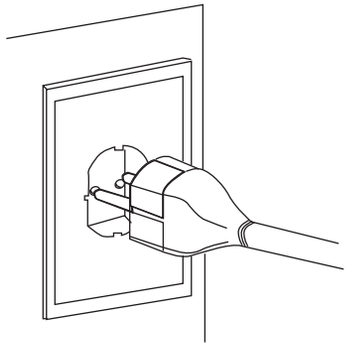


Turn off the power of the printer and connect the power supply to the printer as shown above.

1 2
3 4

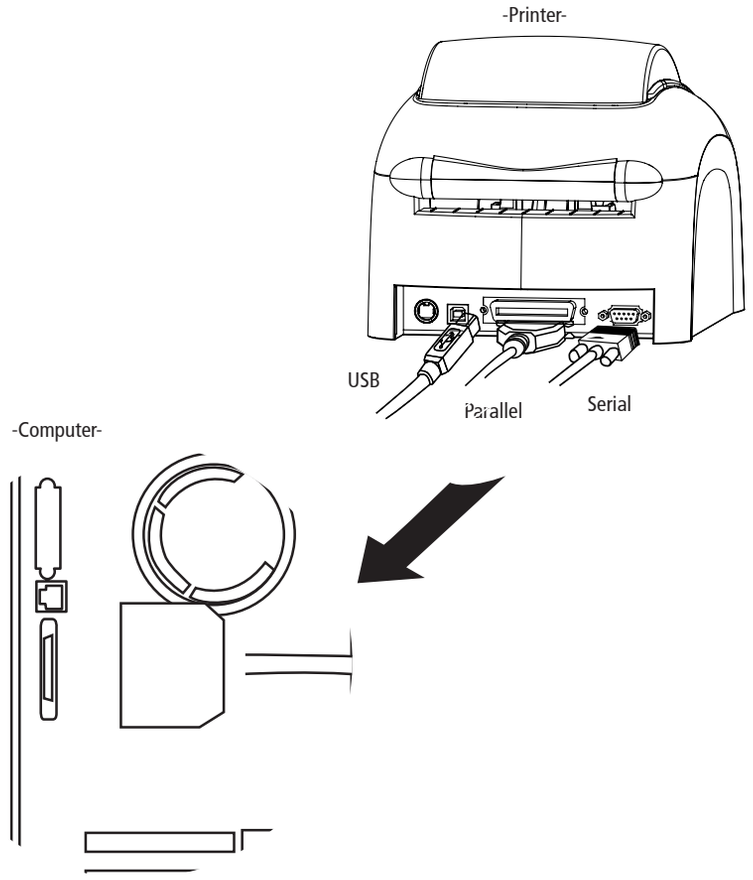


Connect the AC power cord to the power supply



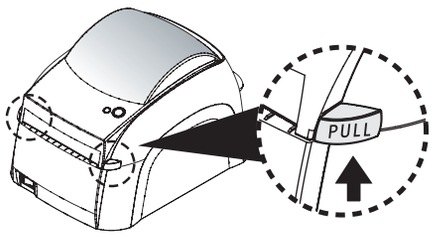
Insert a plug into the electrical outlet

4. Hooking up the printer and computer

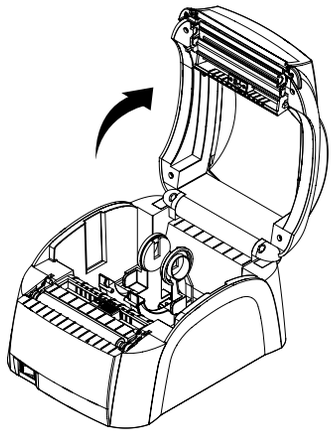


After making sure the printer is turned off, connect the printer to the PC.

5. Loading the media

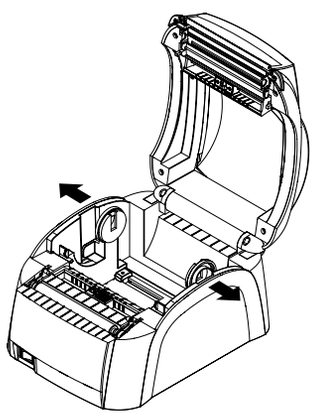


Turn off the printer and open the upper cover by pushing the knob in the direction of the arrow

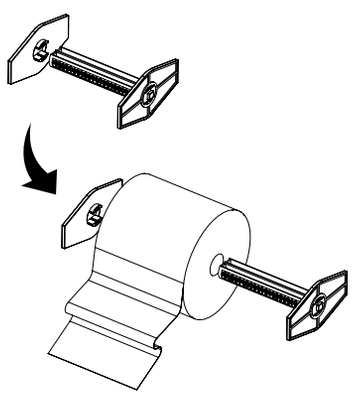


Please open the upper cover as shown above

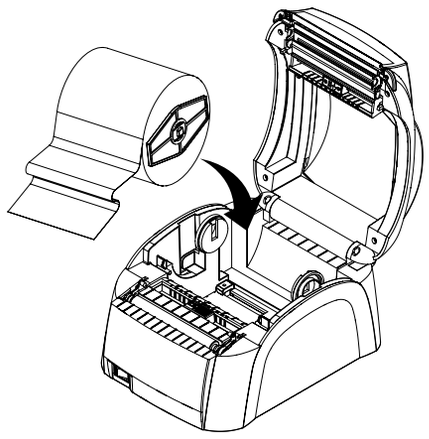
1 2
3 4



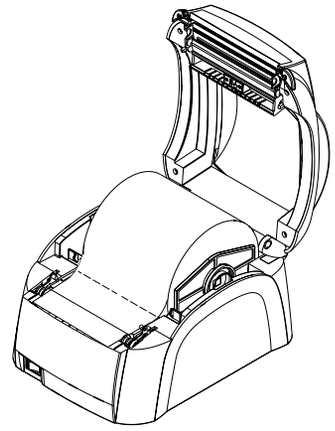
Open the paper width guides by pushing them to the right & Left sides.



Insert the roll paper to the paper spindle as shown in the picture.



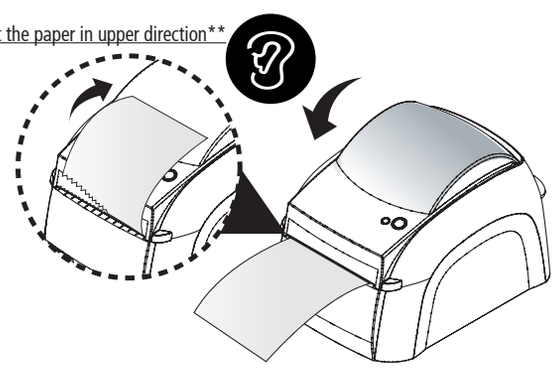
Insert the paper roll into the printer



Adjust the paper width guide to meet the paper width

5 6
7

Please cut the paper in upper direction

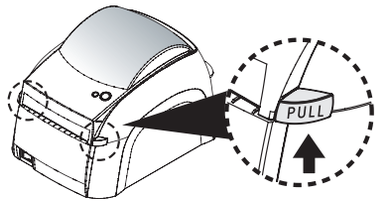


Close the upper cover completely and make sure you hear the closing sound.

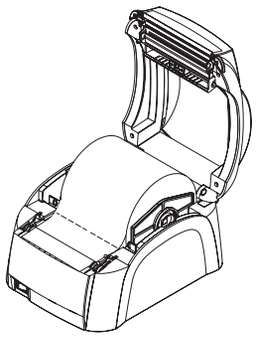
☑ NOTE

Paper fixing tap is only for 1 inch core roll paper and fan-fold paper.
For 1.5" core roll paper, mount it to the label paper guide directly without using paper fixing tap.

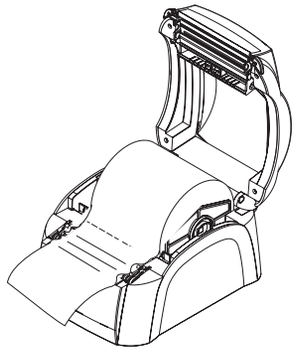
6. The treatment when you run short of paper and encounter cutter jam problem



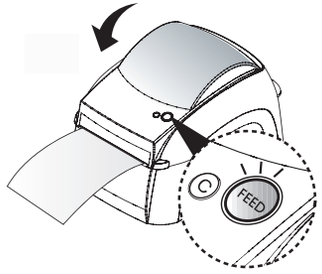
While you are printing with continuous media, please press PULL lever to the direction of the arrow.



***Installation of the new paper when the printer is short of it ***



Remove of the paper seized by paper jam



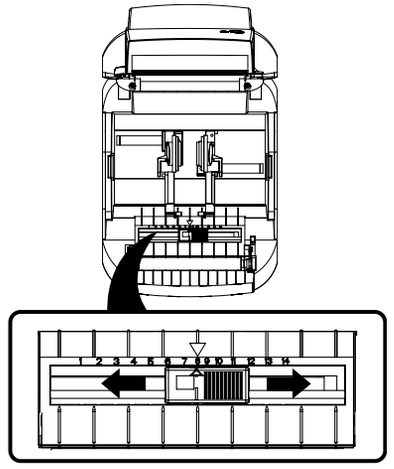
After the treatment has been done as picture above, the printer function normally once you press FEED button.

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.

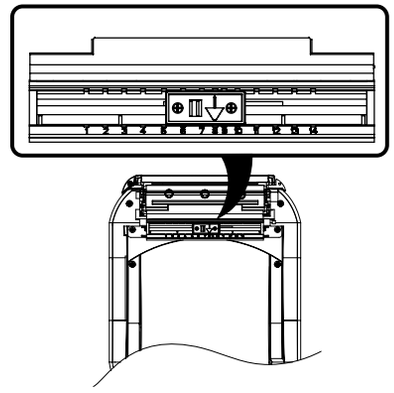
7. Setting up the sensors

Black Mark Sensor



Set Black Mark Sensor right to the size of roll paper

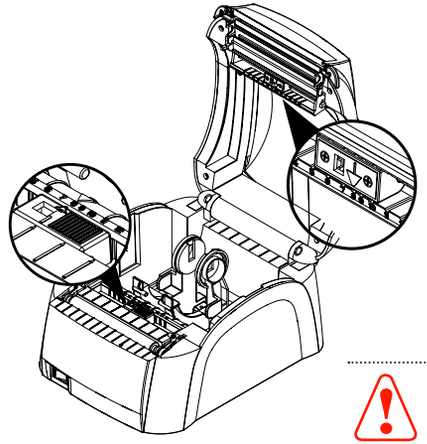
Notch Sensor



Locate notch sensor on the same number point- as the black mark sensor is indicating on.

1 2
3

*****8 is the initialization number for sensor of the product.*****



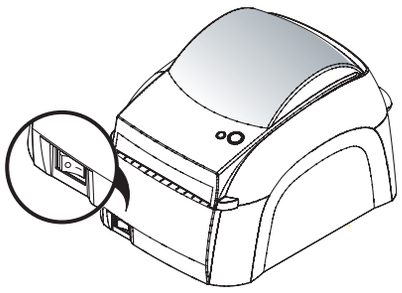
Black Mark Sensor and Notch sensor must always point to the same number

Caution

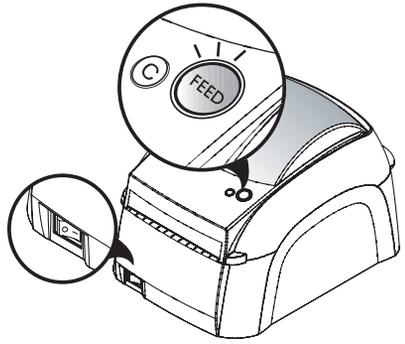
If the thickness of paper with black mark is less than 0.1mm, it is recommended setting the black mark sensor and gap sensor to different location (number) each other.

8. Self Test

Note
Power switch sig — ON ○ OFF

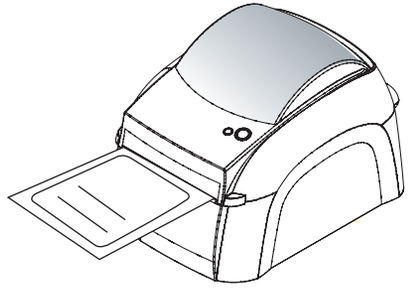


Turn off the printer



Press and hold the feed button while turning on the printer with power switch

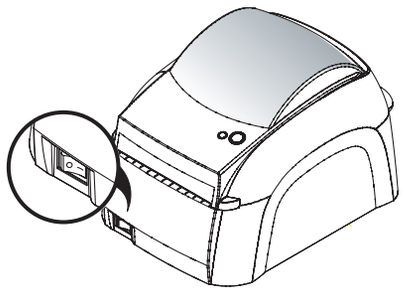
1 2
3



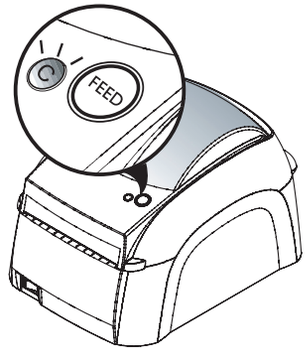
The printer prints information on the printer configuration and quality of the printing

9. Auto setup for label size

Note
Power switch sig — ON ○ OFF



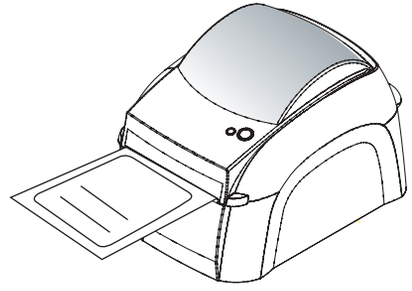
Turn off the printer



While you are pressing and holding 'C' button, turn off the power of printer.

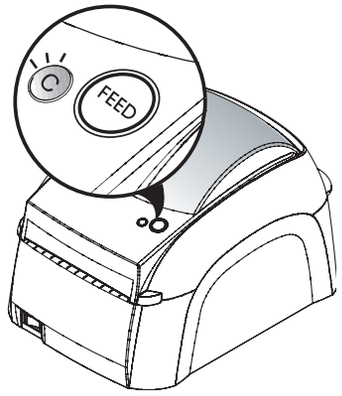
1 2
3

***Auto setup will not be applied on the continuous stock ***



Printer sensor detects the size of the label, issuing the blank label.

10. Pause and cancel

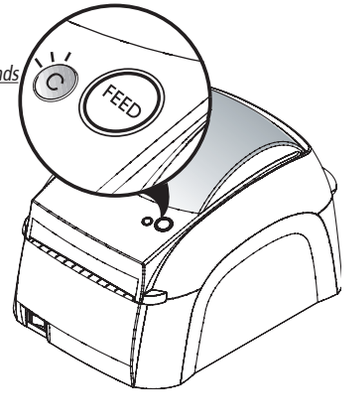


When you would pause on the printing process, press the 'C' key.

1
2

**_When you would cancel printing, you should proceed the cancel on your PC at first._ **

Over 2 seconds

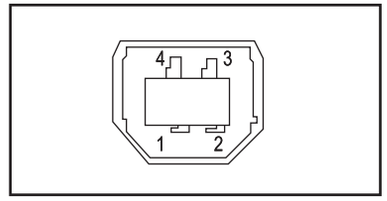


When you want cancel the printing, press and hold the "C" key for over 2 seconds.

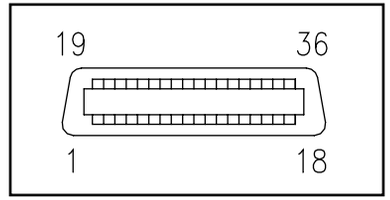
11. Connector

Interface Connectors

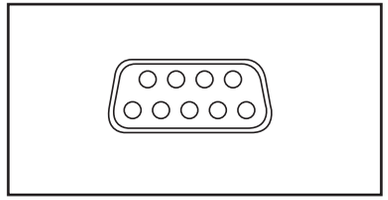
Standard



<USB " B " TYPE>



<Centronics Parallel>



<9 Pin Serial>

Centronics Parallel Interface

Pin	Signal	I/O	Description
1	STROBE-	Input	Synchronize signal Data received
2~9	DATA0~7	Input/Output	Data bit Transmitted 0~7
10	ACK-	Output	Data receiving completed.
11	BUSY	Output	Impossible to print of data receiving.
12	PE	Output	Paper empty
13	SELECT	Output	Printer status for ON/OFF line
14	AUTO FEED-	Input	Paper auto feed signal
15	GROUND	-	System ground
16	GROUND	-	System ground
17	NC	-	
18	LOGIC-H	-	+5V
19~30	GROUND	-	System ground
31	INIT-	Input	Initialize
32	ERROR-	Output	Printer error
33	GROUND	-	System ground
34	NC	-	
35	+5V	-	+5V
36	SELLECT IN-	Input	Printer select signal

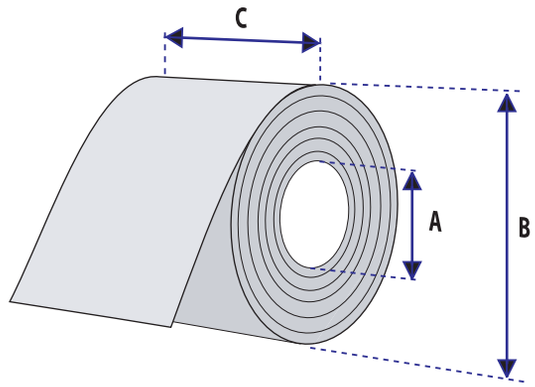
USB Interface

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

12. Standard roll media



Core	
Diameter(A)	25.4 or 38.1 mm
Max. width	118 mm
Roll	
Max.diameter(B)	127 mm
Max.media width(C)	119 mm
Min.media width(C)	18 mm
Max.media thickness	0.15 mm
Min.mdeia thickness	0.06 mm

☑ NOTE

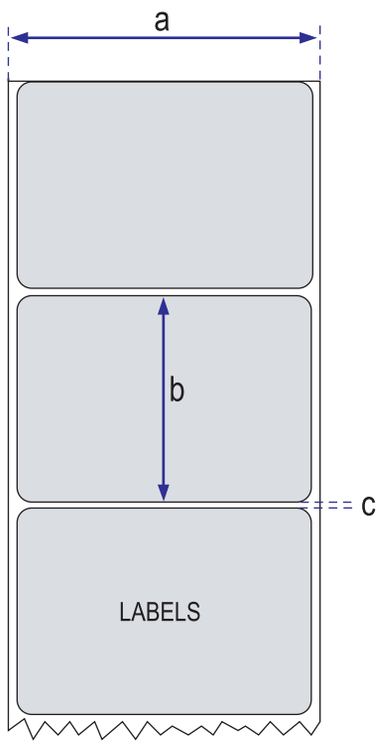
1. If the label thickness is more than 0.18mm, adjust the printing speed to 127mm/s.
2. If the label width is less than 38mm, arrange the printing speed to 127mm/s.

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.

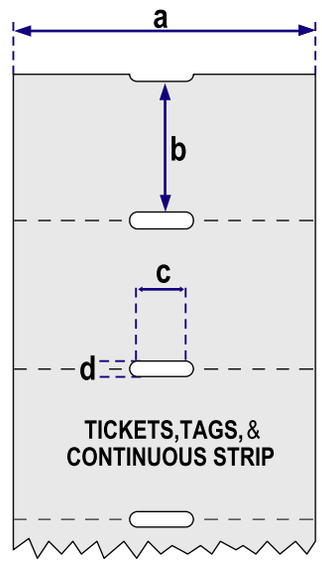
13. Standard label specification

<-- a --> Media width (inch, liner)	
Maximum	118 mm
Minimum	18 mm
<-- b --> Label length	
Minimum	10 mm
<-- c --> Label gap height	
Maximum	10 mm
Minimum	2 mm
Liner	
Opacity	50~75%



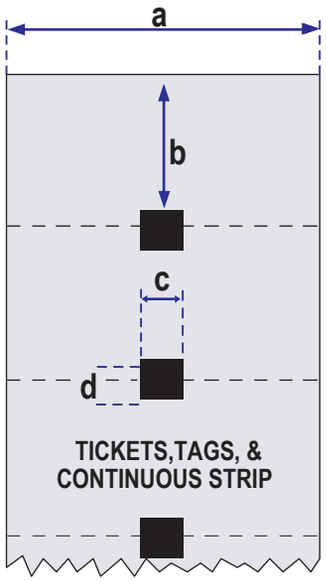
14. Label specification with Through-hole

<-- a --> Tag or strip width	
Maximum	118 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



15. Label with Black Mark

<-- a --> Tag or strip width	
Maximum	118 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

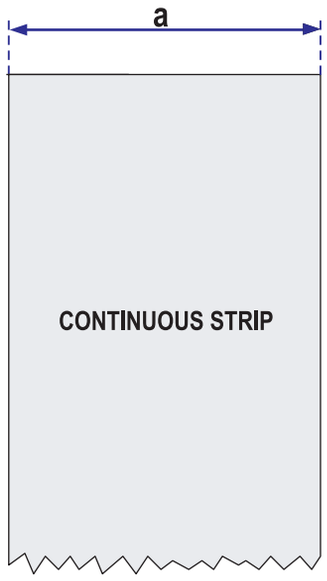


16. Continuous stock specification

The printer can use continuous paper without any detection gap or black marks.
The printer must be set for continuous paper by the **Q** command.
The length of each copy is decided by the size of the print image and any additional media feed is decided by the **Q** command.

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

<-- a -->	
Maximum	118mm
Minimum	18 mm



17. Specifications

Product Specifications

Print method		Direct Thermal
Print speed(max)		152mm/sec
Print width(max)		104mm
Print length(max)		630mm
Resolution		203dpi, 8 dots/mm
Paper Width(min~max)		18~118mm
Paper roll size(max)		127mm
Paper thickness		0.06~0.18mm
Paper Type		Label , Tag, Continuous, Fanfold
Paper sensor		Label gap, Notch, Black Mark
Interface	Standard	USB, RS232C, Parallel (IEEE-1284)
Memory	Standard	8MB SDRAM, (4MB+1MB) Flash
	Option	8MB Flash
Serial baud rate		9600bps~115200bps
Peeler		Option
Font Specification		EPL II (Eltron Programming language) ZPL II (Zebra Programming language)
Barcode	1D	Codabar, Code93, Code128, Code39, EAN8/JAN8
		EAN13/JAN13, EAN14/UPC-A, Industrial2 of 5
		Standard 2 of 5, Interleaved 2 of, LOGMARS
		MSI, Plessey, POSTNET, UPC-E, UCC-EAN Extensions
	2D	MaxiCode, PDF 417
Font Specification	EPL II	5bitmapped Font
	ZPL II	7bitmapped Font, 1 Smooth Font
Weight		4.5lbs (2.0kg)
Size (W x D x H)		190mmx254mmx169mm

Certification

(1) FCC PART15 CLASS A

(2) CE EMCD (CE-EMCD Class B should use Parallel shield Cable complied with IEEE-1284 standards)

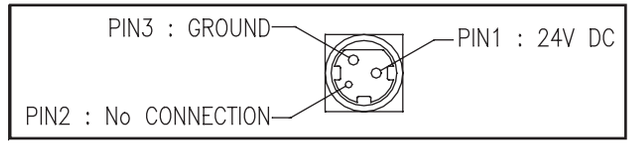
(3) UL/cUL (UL 60950-1)

Electrical Characteristics

(1) Input Voltage — DC 24V ± 10%

(2) Current Consumption — Operating: Approx. 2.9 A (at ASC II printing)
Peak : Approx. 17 A
(at print duty 100%, For 10 seconds or less)
Stand-by : Approx. 0.15 A

(3) Power Connector



18. Command List

No.	Command	Description
1	A	ASC II Text
2	AUTOFR	Automatic Form Printing
3	B	Bar Code
4	B	RSS-14 Bar Code
5	b	Data Matrix MaxiCode PDF417
6	C	Counter
7	C	Cut Immediate
8	D	Density
9	EI	Print Soft Font Info.
10	EK	Delete Soft Font
11	eR	User Definable Error Response
12	ES	Store Soft Font
13	f	Cut/Peel Position
14	FE	End Form Store
15	FI	Print Form Info.
16	FK	Delete Form
17	FR	Retrieve Form
18	FS	Store Form
19	GG	Retrieve Graphics
20	GI	Print Graphics Info.
21	GK	Delete Graphic
22	GM	Store Graphic
23	GW	Direct Graphic Write
24	I	Character Set Selection
25	JB	Disable Top Of Form Backup
26	JC	Disable Top Of Form Backup –All Cases
27	JF	Enable Top Of Form Backup
28	LE	Line Draw Exclusive OR
29	LO	Line Draw Black
30	LS	Line Draw Diagonal
31	LW	Line Draw White
32	M	Memory Allocation
33	N	Clear Image Buffer
34	o	Cancel Customized Settings
35	oB	Cancel Customize Bar Code
36	oE	Line Mode Font Substitution
37	oH	Macro PDF Offset
38	oM	Disable Initial Esc Sequence Feed
39	oR	Character Substitution(Euro)
40	oW	Customize Bar Code Parameters

No.	Command	Description
41	O	Options Select
42	OEPL1	Set Line Mode
43	P	Print
44	PA	Print Automatic
45	Q	Set Form Length Transmissive(Gap)Sensor Black Line Sensor Continuous Stock
46	q	Set Form Width
47	r	Set Double Buffer Mode
48	R	Set Reference Point
49	S	Speed Select
50	TD	Define Date Layout(& Print Date)
51	TS	Set Real Time Clock
52	TT	Define Time Layout(& Print Time)
53	U	Print Configuration
54	UA	Enable Clear Label Counter Mode
55	UB	Reset Label Counter Mode
56	UE	External Font Information Inquiry
57	UF	Form Information Inquiry
58	UG	Graphic Information Inquiry
59	UI	Host Prompts/Codepage Inquiry
60	UM	Codepage& Memory Inquiry
61	UN	Disable Error Reporting
62	UP	Codepage& Memory Inquiry/Print
63	UQ	Configuration Inquiry
64	US	Enable Error Reporting
65	V	Define Variable
66	W	Windows Mode
67	xa	Sense Media
68	X	Box Draw
69	Y	Serial Port Setup
70	Z	Print Direction
71	?	Download Variables
72	^ @	Reset Printer
73	^ default	Set Printer to Factory Defaults
74	^ ee	Status Report – Immediate

LUKHAN®

SEWOO TECH CO.,LTD.

ADDRESS Doosung Bd, 689-20, Kumjung-dong, Kunpo-si, Kyunggi-do, Korea
TEL 82-31-459-8200 FAX 82-31-459-8880
URL http://www.miniprinter.com

Rev. 3.0