

# **sewoo**

**Aroot Co., Ltd.**

28-6, Gajangsaneopdong-ro, Osan-si, Gyeonggi-do, 18103, Republic of Korea  
TEL +82-31-8077-5000 / FAX +82-31-459-8880 / <http://www.miniprinter.com>

**sewoo**



**MOBILE PRINTER**  
**MODEL : LK-P34L**

---

Wi-Fi - LK-P34LW / Bluetooth - LK-P34LB

All specifications are subject to change without notice

## **Following information shall be included in the manual**

### **Information to User;**

#### **Caution:**

the user that changes or modifications not expressly approved by the J. STEPHEN Lab., Ltd.responsible for compliance could void the user's authority to operate the equipment.

#### **NOTE:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### **Responsible Party;**

The responsible party for Supplier's Declaration of Conformity must be located within the United States, so you have to include following information in manual.

**Company name :** Aroot Co., Ltd. (Manager : Vic Barczyk)

**Address :** 19700 S. Vermont Ave. STE 200, Torrance, CA 90502 | USA

**TEL / FAX No :** (TEL) +310-561-8030 / (FAX) +82-31-459-8880

**Homepage :** <http://www.miniprinter.com>

**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.



**Risk of explosion if battery is replaced by an incorrectly type.  
Dispose of used battery according to the local disposal instructions.**

- replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of same lithium battery types)
- disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion;
- leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas; and
- a battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.



**Risque d'explosion si la batterie est remplacée par un type incorrect.  
Jetez la batterie usée selon les instructions locales.**

- remplacement d'une batterie par un type incorrect qui peut faire échouer une sauvegarde (par exemple, dans le cas des mêmes types de batteries au lithium)
- la mise au rebut d'une batterie dans un feu ou un four chaud, ou l'écrasement ou la coupure mécanique d'une batterie, qui peut provoquer une explosion;
- laisser une batterie dans un environnement environnant à température extrêmement élevée pouvant entraîner une explosion ou une fuite de liquide ou de gaz inflammable; et
- une batterie soumise à une pression d'air extrêmement basse qui peut provoquer une explosion ou une fuite de liquide ou de gaz inflammable.



**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.

# 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.



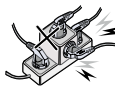
Do not pull or touch the power plug with wet hands.

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



# Table of Contents

<b>Product Overview</b>	
1. Unpacking	2
2. Product Overview	3
3. Control Panel Usage	4
<b>Set Up</b>	
4 Paper Installation	5
5. Battery	5
5-1. Battery Installation	6
5-2. Battery Removal	7
5-3. Battery Charging	8
5-4. Charging Cradle(Optional)	9
6. Belt Strap	10
7. Self Test	11
<b>Peripheral Connection</b>	
8. Peripheral Connection	13
8-1. Bluetooth Connection	13
8-2. Wi-Fi Connection	13
8-3. NFC Connection	14
8-4. Interface Cable connection	15

## **Maintenance**

<b>9. Cleaning the Printer</b>	<b>16</b>
--------------------------------	-----------

9-1. Print-Head Cleaning	16
--------------------------	----

9-2. Platen Roller Cleaning	17
-----------------------------	----

<b>10. JAM Error</b>	<b>18</b>
----------------------	-----------

## **Specification**

<b>11. Roll Media Specification</b>	<b>19</b>
-------------------------------------	-----------

<b>12. Black Mark</b>	<b>20</b>
-----------------------	-----------

<b>13. Printer Specification</b>	<b>21</b>
----------------------------------	-----------

<b>14. Utilities</b>	<b>23</b>
----------------------	-----------

<b>15. S/W</b>	<b>24</b>
----------------	-----------



# 1. Unpacking

## Standard

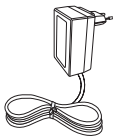
---



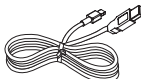
Printer



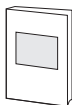
Battery



Charger



USB Cable



Quick Manual



CD (Manual)



Roll Paper



Belt Strap



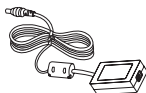
Cleaning Pen

## Optional

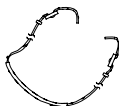
---



AC Cord



Adaptor



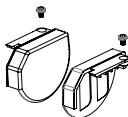
Shoulder Strap



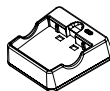
4BC-XX  
(Charging Cradle)



Leather Case



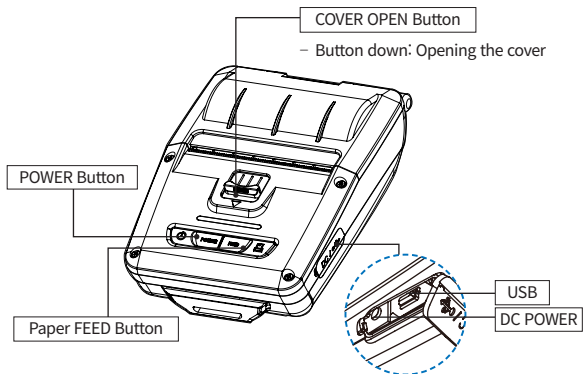
Paper Guide



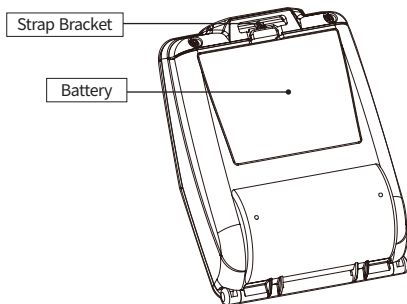
Battery Cradle  
(Charging Cradle)

## 2. Product overview

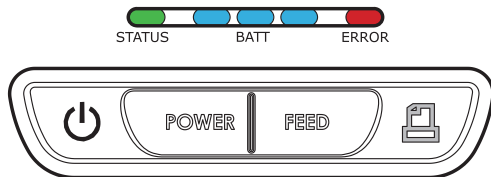
### Front



### Rear



### 3. Control panel usage



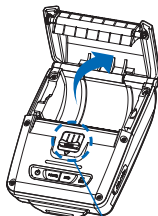
Button	Name	function
	Power Button	<ul style="list-style-type: none"> <li>- This button is used to turn the printer on and off.</li> <li>- When the printer is off, press this button for approximately 3 seconds and the printer will power on. When you press this button while the printer is powered on, the printer will turn off.</li> </ul>
	Paper Feed Button	<ul style="list-style-type: none"> <li>- This button can be used to manually feed the paper.</li> <li>- Additionally, this button is also used to initiate self-tests and Hexadecimal Dumping.</li> <li>01 Refer to the Self Test section of this manual for information regarding self-tests.</li> <li>02 Refer to the Note in Self Test section of this manual for information regarding Hexadecimal Dumping.</li> </ul>
	Battery Status Lamp	<ul style="list-style-type: none"> <li>- If the Batt LED is lit, the battery is fully charged.</li> <li>- If you can hear a beeping sound and LED light is turned off, the battery is at the lowest level.</li> <li>- If the battery is not charged at all, the printer turns off automatically.</li> </ul>
	Error Lamp	<ul style="list-style-type: none"> <li>- If the red light is turned on, there is no paper or the paper cover is open.</li> </ul>
	LINK/Power Light	<ul style="list-style-type: none"> <li>- LINK: LED BLINK</li> <li>- POWER ON: GREEN LED ON</li> <li>- POWER OFF: LED OFF</li> </ul>

## 4. Paper Installation



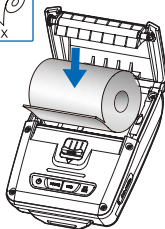
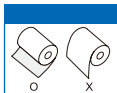
### CAUTION

Make sure to be careful of the HOT head



COVER OPEN BUTTON

Press the COVER OPEN BUTTON down to open the paper cover.

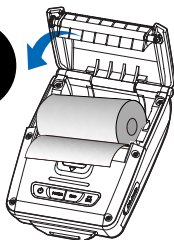


Place the paper roll as shown. Make sure the paper is placed in the right direction.



### CAUTION

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

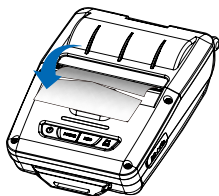


Pull a short length of paper out of the printer and close the cover.



### CAUTION

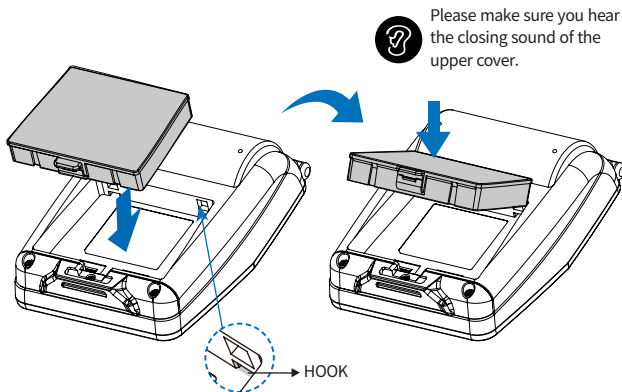
If the cover is not shut down completely, the printer may not work properly



Please tear the paper down.

## 5. Battery

### 5-1. Battery Installation



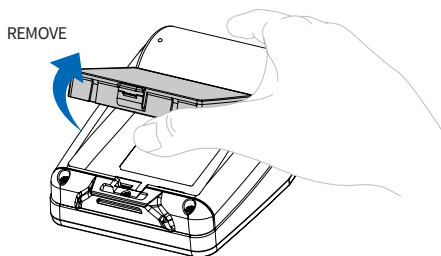
- 1 Align battery hook as shown in the picture.
- 2 Push the battery into the printer until it locks in place.

**✓ NOTE**

As the battery is not charged at the time of your purchase, charge the battery prior to using the printer.

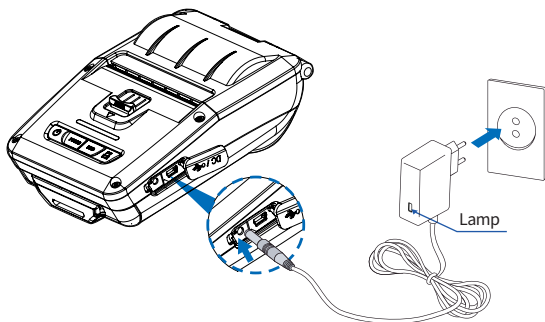
## 5-2. Battery Removal

---



Remove the battery as shown.

### 5-3. Battery Charging



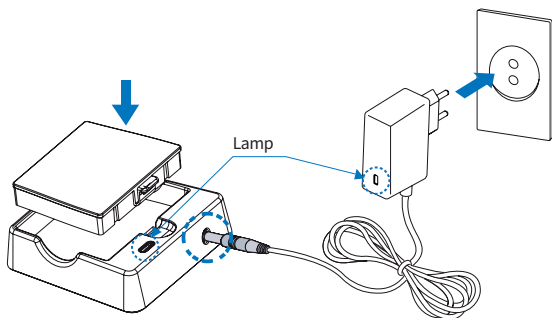
- 1 Make sure the printer is turned off.
- 2 After opening the DC JACK cover, connect the DC JACK to the printer.
- 3 Plug the power cord into the electrical outlet.

Status	charging	charging complete
Charging Lamp	Red	Green

#### ✓ NOTE

- 01 If the charger provided by the manufacturer is not used, the printer can be damaged, and the manufacturer is not liable for the consequential damage.
- 02 Before removing the battery, make sure that power is turned off.
- 03 The printer does not work when only connected to the charger.
- 04 The battery needs to be installed to operate the printer.
- 05 While charging, do not turn on the power.
- 06 Do not operate the printer while charging the battery.
- 07 Do not connect the charger while the printer is operating.

## 5-4. Charging Cradle Optional



- 1 Insert the battery into the battery charger as shown above.
- 2 Connect the DC JACK to the electrical outlet.
- 3 Plug the power cord into the electrical outlet.
- 4 Once the charging is completed, remove the battery from the charger.

### The charging status LED

Status	charging	charging complete
Charging Lamp	Red	Green

#### ✓ NOTE

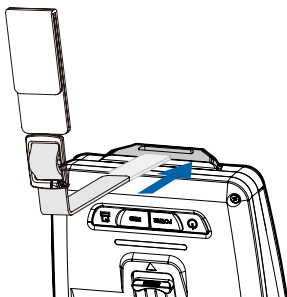
In the case the battery is not inserted properly, the red LED will blink. Remove and reinsert the battery.



## 6. Belt Strap

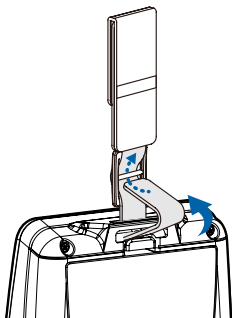


Prepare the belt strap.

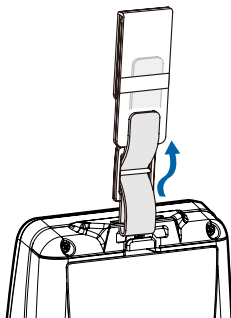


Put the strap into the strap bracket hole as shown.

1 2  
3 4

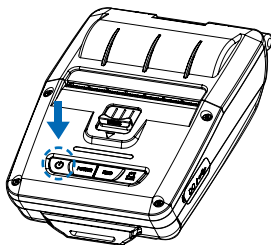


Turn the strap and printer over and put the strap into the hook as shown.

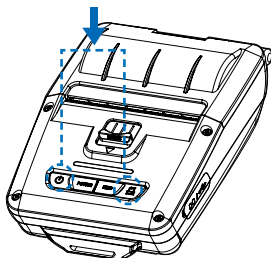


Adjust the strap length for the user's convenience.

## 7. Self Test

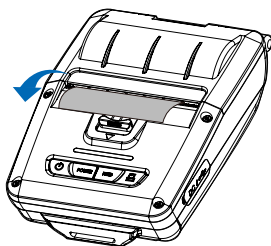


Turn off the power by pressing the power button for approximately 3 seconds.



While you are holding the FEED button, press the power button.

1 2  
3



The self-test will print.

### ✓ NOTE

- 01 To enter hex dump mode, press the FEED button once more.
- 02 If the FEED button is not pressed, the self-test will automatically finish after 3 seconds.

## Self-Test Printout Sample



### SEWOO, LK-P34L

#### Printer Configuration Info.

F/W Version: v1.00  
FontRom Version : v1.4  
BM (Adj): 146(242)  
Sensor Mode: [JOURBAL]  
Battery: 7.8V (780), offset: 0  
Timeout (Sleep): 60 sec  
Ext' Flash: Exist  
H/W Version: v3.0  
SDRAM: 8MB  
Linerless: Disabled

#### Emulation Configuration Info.

Emulation: CPCL  
Print Density: 0  
Top Of Form: 0  
Top Margin: 0  
Left Margin: 0

#### USB Interface

Version 2.0 Full speed  
compliant  
Product String: LK-P34L

#### Bluetooth Interface

Version: v151\_32\_2\_11\_0  
Device Name: Mobile Printer  
Discoverable: Enabled  
Numeric comparison: Disabled  
Auto connection: Enabled  
BLE: Enabled  
Address: 00:13:7B:3A:77:87



00137B3A7787

\*\*\*\*\*

Press FEED button to  
enter HEX-DUMP mode.

\*\*\*\*\*

Upon initial installation or for troubleshooting, you can run the diagnostic test to get information about:

- Firmware version, emulation, codepage, sensor settings, interface settings, etc.

If no issues are found with the diagnostic test, examine other devices and software.

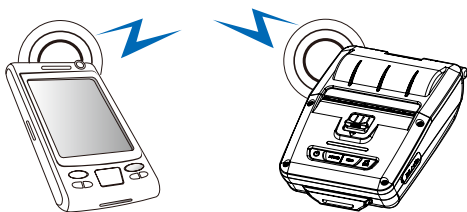
The diagnostic test is working independently of devices and software.

#### ※ Motor protection from being overheated

To prevent the motor from overheating, stop the printer for at least 30 seconds after continuously printing 1.5 meters.

## 8. Peripheral Connection

This product can communicate with other devices via Bluetooth, Wi-Fi, or a communication cable.



### 8-1. Bluetooth Connection

---

- 1 The Printer can be connected to devices equipped with Bluetooth communication capabilities (PDAs, PCs, etc.).
- 2 Use the Bluetooth connection function supported by your device to connect to the printer.

**✓ NOTE**

- This model supports Numeric Comparison function.
- Please refer to the configuration manual for details.

### 8-2. Wi-Fi Connection

---

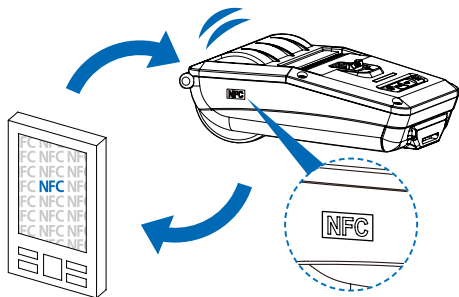
- 1 The Printer can be connected to devices equipped with Wi-Fi communication capabilities (PDAs, PCs, etc.).
- 2 Use the Wi-Fi connection function supported by the device to connect to the printer.

**✓ NOTE**

- Please refer to the configuration manual for details.

### 8-3. NFC Connection

The printer can be connected to devices equipped with NFC communication capabilities.

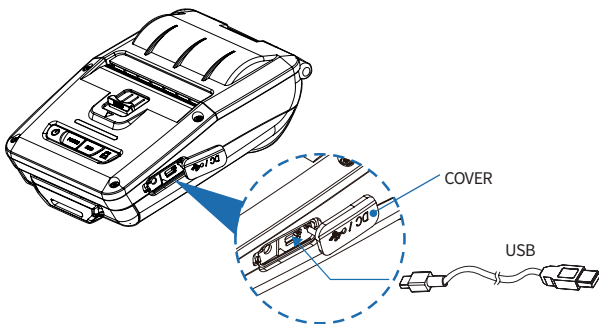


Use the NFC connection function supported by the device to connect to the printer.

**✓ NOTE**

- Please refer to the configuration manual for details.
- NFC is only compatible with Bluetooth.

## 8-4. Interface Cable Connection



- 1 Flip over the connector cover and connect USB cable to the printer connector.

**✓ NOTE**

Only use cables included with the printer. (USB)

- 2 Connect the interface cable to the USB port of the device (PDA, PC, etc.).

## 9. Cleaning the Printer

If the interior of the printer is dusty, printing quality can be reduced.

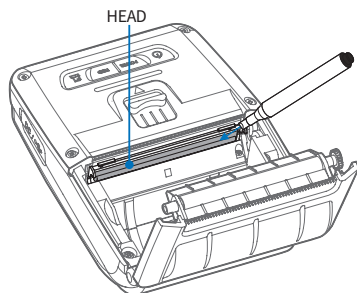
In this case, follow the instructions below to clean the printer.

### ✓ 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.
- 05 When using a linerless paper, clean regularly at least once after using 4~5 rolls or a week (Cleaning cycle may vary depending on usage.)

### 9-1. Print-Head Cleaning

---

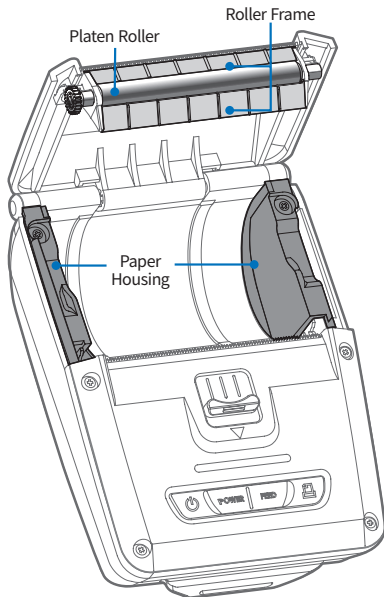


- 1 Use the cleaning pen to clean the head of the printer.
- 2 Once the cleaning is completed, wait a few minutes before inserting the paper roll into the printer.

## 9-2. Platen Roller Cleaning

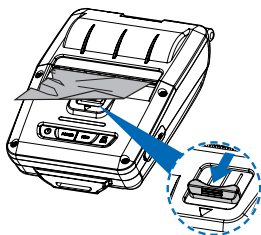
---

- 1 Use a cleaning pen to clean the rollers.
- 2 Turn the platen roller with your finger to clean the entire surface.
- 3 When using a linerless paper, wipe the surrounding parts that touch the surface of the paper.





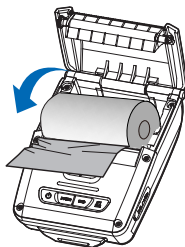
## 10. JAM Error



When you face with a paper jam error, please press the button down to open the printer cover.



**CAUTION**  
Make sure to be careful of the HOT head.



Please remove the paper.

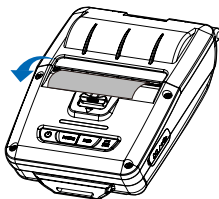
1 2  
3



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

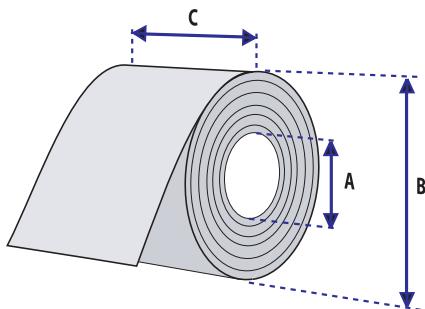


**NOTE**  
If the cover is not shut down completely, the printer may not work properly



After removing, close the cover. The printer will work normally.

## 11. Roll Media Specification

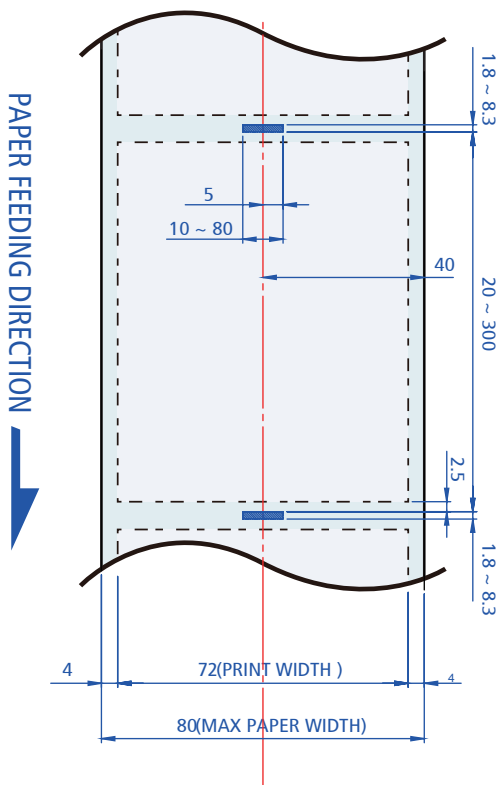


Core	
Diameter (A)	12.5 mm
Roll	
Max.Diameter (B)	50 mm
Max.Media Width (C)	80 mm
Min.Media Thickness	0.06 mm



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.

## 12. Black Mark



## 13. Printer Specification

Printing Method		Direct Thermal
Printing Speed		Max. 100 mm/s
Resolution		203 DPI
Character		Font A(12×24), Font B(9×17), Asian Font(KOR,JPN,CHN-GB2312,CHN-Big5), Font0/1/2/4/5/6/7, Resident TTF, Downloadable TTF, FontA~H, FontGS, Resident TTF(Font0), Font 1~8
Barcode	ESC/POS	- 1D : EAN-8, EAN-13, Code39, ITF, UPC-A, UPC-E, Codabar, Code93, Code128 - 2D : QR, PDF417
	CPCL	- 1D : LUPC-A(+2,+5), UPC-E(+2, +5), EAN13(+2, +5), EAN8(+2,+5), Code39 etc. (CPCL) - 2D : QR, PDF417, MicroPDF417, Maxicode, Datamatrix, Aztec, TLC39, RSS14
	ZPL	- 1D : Code11, ITF, Code39, Planet, EAN-8, UPC-E, Code93, Code128 etc. (ZPLII) - 2D : QR, PDF417, MicroPDF417, Maxicode, Datamatrix, Aztec, TLC39, RSS14
Emulation		ESC/POS, CPCL, ZPL Command compatible
Driver		Windows Driver(10, 2012, 8, 7, 2008, VISTA, 2003, XP, 32bit & 64bit), Window CE & Mobile Driver & SDK(CE 4.2~, Mobile 5.0~), Linux Driver, Mac Driver, OPOS Driver, JavaPOS Driver, iOS SDK, Android(2.1~) SDK, Blackberry SDK, Symbian
Sensor		Black mark, Paper end

Paper	Paper type	Thermal Receipt/ Label/ Linerless
	Width	Max. 80 mm(Paper Guide: 59 mm)
	Thickness	0.06 ~ 0.09 mm
	Roll Max Diameter	Max. 50 mm
	Roll Core	12.5 mm
Interface	Common	USB
	LK-P34LW	Wi-Fi(802.11a/b/g/n )
	LK-P34LW	Bluetooth Smart ready(Bluetooth 4.2+BLE)
Battery Charger	Input	AC 100 ~ 240 V, 50/60 Hz
	Output	8.4 V , 800 ~ 1400 mA
Battery	Type	Li-ion
	Output	7.4 V, 2000 mAh
	Charging time	3Hrs (77Hrs stand-by)
Size (W x H x D)		107.5 x 56 x 145 mm
IP		IP54
Weight		390 g(with Battery)
Temperature	Operation	-10 ~ 50°C
	Storage	-20 ~ 60°C
Humidity	Operation	10 ~ 80%
	Storage	10 ~ 90%

PATENT



## 14. Utilities

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

No.	Name	Description
1	Configuration Tool	This is a utility that allows you to set printers by interface. Detailed settings such as Wi-Fi, Ethernet, and COM ports can be configured.
2	Download Tool(F/W)	Printer F/W and Font Download are available, and BT, Wi-Fi module F/W Download is supported. – P22, 20II can download ICR F/W. – BT/Wi-Fi Download function is not supported for P400, P21, P25. – P400 supports SD Card Download function instead of Font Download.
3	NVUpload (ESC/POS)	With NVUpload running on Windows OS, you can upload and remove the bmp file as Logo in the printer's flash memory, and print test is possible.
4	Bitmap Font Download(CPCL)	It is a utility that allows you to change Windows Fonts stored on your PC into Bitmap Fonts for use on the printer.
5	LabelMaker(CPCL)	This program is for label form design and designed label printing.
6	Android Utility (Sewoo M_Utility) (ESC/POS)	It is a utility app that prints text, barcodes, images, etc. through Bluetooth and Wi-Fi communication, and able to printer settings.

## 15. 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 Mobile printer in Windows OS.
2	Linux Driver	This is the Cups Driver used to print a Mobile printer in the Linux environment.
3	OPOS Driver (ESC/POS)	This is a driver that controls Mobile printers using the OPOS standard. It can be used after initial setting(Mobile Printer&MSR) using the setting tool.
4	JavaPOS Driver (ESC/POS)	JavaPOS driver is an interface standard for POS software written in Java, and can be used in Mobile Printer when printing a receipt.
5	Mac Driver	This is the Cups Driver used to print a Mobile printer in the Mac OS environment.
6	Android Plugin (Sewoo Print Service Plugin) (ESC/POS)	This is a print service plug-in that allows you to print documents, images, and web pages without installing additional apps.
7	Windows SDK	This is library for communication and data output with Mobile printer in Windows OS.
8	Android SDK	This is library for communication and data output with Mobile printers in Android OS.
9	iOS SDK	This is library for communication and data output with Mobile printers in iOS.