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

P25II ENG Rev. 12/2023

sewoo

MOBILE PRINTER

MODEL : LK-P25II

USER'S MANUAL

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

For USA

Information to user;

Caution: The user that changes or modifications not expressly approved by the Aroot Co., 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;

Company name : Aroot USA

Address : 19700 S. VERMONT AVE. STE 200 TORRANCE, CA 90502

Tel/FAX No : +1-310-617-7401

Homepage : miniprinter.com

For Canada

This class B digital apparatus complies with Canadian ICES-003

Cet appareil num rique de la class B est conforme la norme NMB-003 du Canada

The antenna cannot be removed (and changed) by user.

NOTE

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device maynot cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

CAUTION：Radio Frequency Radiation Exposure

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body.

Use of the Made for Apple badge means that an accessory has been designed to connect specifically to the Apple product(s) identified in the badge, and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

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.

Battery Safety Precautions

Make sure to review the user manual carefully prior to product use.
Neglecting to heed the following instructions can result in battery overheating, combustion, explosion, damage and/or decline in performance and product life.

Danger

1 Do not allow water, seawater or moisture to enter or leak into the battery. If the safety mechanism within the battery becomes oxidized, the battery may overcharge with abnormal electrical current and/or voltage so that it may overheat, ignite and/or explode.

2 Do not place the battery near open flames or heating devices, such as stoves. Exposure to excessive heat may cause damage to the resin case and/or insulating materials, thus causing a short circuit within the battery that may result in battery overheating, combustion, and/or explosion.

3 Charge the battery only with the exclusive charger specified (optionally provided) by Aroot. The use of an incorrect charger may result in overheating, combustion and/or explosion of the battery.

4 Charging the battery with a modified charger may result in overheating, combustion and/or explosion of the battery by abnormal chemical reaction caused by incorrect polarity.

5 Do not directly connect the battery to an electrical power outlet not specified by Aroot. Doing so may result in overheating, combustion and/or explosion of the battery by over-current and/or over-voltage.

6 Do not heat the battery or place it near a fire. Doing so may melt insulation materials, damage the safety mechanism/equipment, and/or ignite the electrolytic solution. There is a potential risk of battery overheating, combustion, and/or explosion.

7 Always observe correct polarity when using the battery. Charging the battery with incorrect polarity may cause an abnormal chemical reaction, and discharging the battery may generate an unexpected over-current. There is a potential risk of battery overheating, combustion, and/or explosion.

8 Do not allow the battery's (+) or (-) pole to come into contact with any metal. In addition, do not carry or store the battery with metallic items, such as necklaces and hairpins. Doing so may cause a short circuit of the battery generating an over-current. There is the potential risk to overheat, ignite and/or explode the battery or overheat the metallic items, such as necklaces, hair pins etc.

9 Do not throw the battery or subject it to strong shock. If the safety mechanism in the battery is damaged, the battery may be overcharged and, consequently, an adverse chemical reaction may be generated in the battery. There is a potential risk of battery overheating, combustion, and/or explosion.

10 heavy object, such as a hammer, and take care not to step on the battery. There is a potential risk of battery overheating, combustion, and/or explosion caused by an internal short circuit.

11 Do not solder the battery directly. Doing so may melt the insulating materials and/or damage the safety mechanism or safety equipment, resulting in battery overheating, combustion, and/or explosion.

12 Do not disassemble and/or modify the battery. The battery contains safety equipment and a safety mechanism to prevent danger. There is a potential risk of overheating, combustion, and/or explosion caused by disassembly.

13 Do not charge the battery near open flames and/or under direct sunlight. Because exposure to high temperatures triggers the operation of the safety mechanism, the battery may not charge or may overcharge due to destruction of the safety mechanism. There is a potential risk of overheating, combustion, and/or explosion.

14 Do not expose the battery to high temperatures over 60 oC, and do not use or store it in a hot or humid place.

Warning

1 Do not place the battery within the reach of small children to prevent any swallowing accidents. If a small child has swallowed the battery, consult a physician immediately.

2 Do not place the battery in a microwave oven or a high pressure unit. Doing so may cause sudden overheating of the battery and/or the destruction of its seal, resulting in battery overheating, combustion, and/or explosion.

3 Do not use the battery with primary batteries like dry cells or other batteries of different capacity or type. Doing so may cause excessive discharge in use or excessive charge when charging it, resulting in an abnormal chemical reaction within the battery that can cause battery overheating, combustion, and/or explosion. There is a potential risk of overheating, combustion, and/or explosion due to adverse chemical reaction in the battery.

4 If the battery starts to emit strange smells, or if you find unusual symptoms, such as overheating, discoloration and deformation, remove the battery from the product or the charger and discontinue use of the battery. The use of the battery in abnormal status may result in battery overheating, combustion, and/or explosion.

5 If the battery is not charged during a certain time when trying to recharge, discontinue charging. There is a potential risk of overheating, combustion, and/or explosion.

6 If battery leaks its electrolyte or gives off a strange smell, keep the battery away from open flames immediately. The leaked electrolyte may catch fire. There is a potential risk of overheating, combustion, and/or explosion.

7 If the battery is leaking electrolytic solution and any of the solution enters the eyes, immediately wash out with clean water, and then consult a physician to receive treatment. Neglecting to do so can cause permanent eye injuries.

Caution

1. Do not use or leave the battery in a location exposed to high temperatures or intense direct sunlight, such as within an automobile. Doing so can cause battery overheating and/or combustion. In addition, battery performance and product life may be reduced.
2. The battery contains a safety mechanism to prevent danger. Do not use the battery in a location that is prone to static electricity (above the amount covered by the manufacturer's product warranty) that can cause damage to this safety mechanism. Damage to the safety mechanism can result in battery overheating, combustion, and/or explosion.
3. The temperature ranges for battery usage are as follows. Any usage outside of these ranges can result in battery overheating and/or damage. In addition, battery performance and product life may be reduced.
   - Charging: 0 ~ 50°C
   - Product Usage: -10 ~ 50°C
   - Storage: -20 ~ 60°C (30 days)
   - Long-Term Storage: -20 ~ 40°C (90 days)
4. Please review the exclusive charger manual carefully for charging instructions.
5. If you observe any abnormal symptom, such as strange smell and overheating, on first use after purchasing the product, contact your local dealer immediately.
6. If a child must use the battery, the child's parent or legal guardian should clearly explain the instructions from the user manual prior to use. In addition, the parent or legal guardian should periodically confirm that usage is being conducted in accordance with user manual instruction during use.
7. Store the battery in a location that is out of the reach of small children. During usage, make sure to also place the charger and/or product out of the reach of small children.
8. If the battery is leaking electrolytic solution, and the solution comes in contact with the skin or clothing, immediately wash thoroughly with clean water. Contact with skin can result in skin disorders.
9. Make sure to review the user manual and precautions carefully prior to use. In addition, after carefully reviewing the user manual and precautions, place them in a secure location for future reference when needed.
10. There is a risk of explosion when replacing with an incorrect battery. Only exchange it for another one of the same or equivalent model specified by Aroot. Insulate the used battery by attaching insulation tape to its port, and then dispose of the battery according to local regulations.
11. If using the printed side of preprinted paper, this may cause malfunction.
12. Do not use or leave the battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

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1. 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

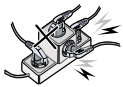
Failure to follow these instructions could result in fire, electric shock, other injuries, or property damage.

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.

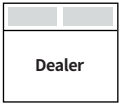
Potential risk of malfunction, electric shock, or fire. When the product needs to be repaired, please contact your reseller

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

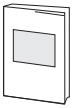
Avoid excessive shock or drops.

Potential risk of fire or property damage

2. Unpacking

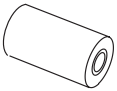
Standard

Printer



Quick Manual

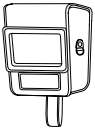
Charger (USB Cable)



Roll paper

Optional

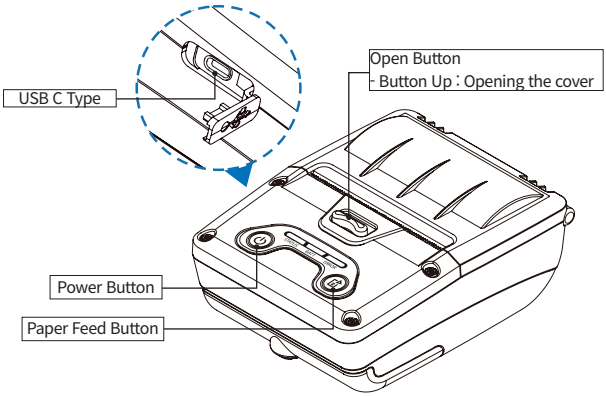
Leather Case & Shoulder Strap



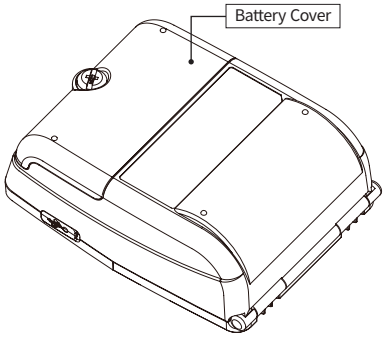
IP54 Case

3. Product overview

Front

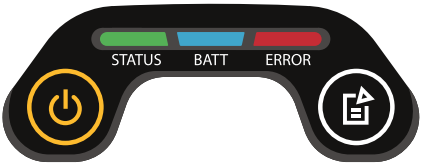


Bottom



4. Usage and Installation

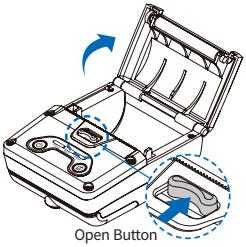
4-1. Control Panel Usage



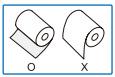
Button	Name	function
	Power Button / Stand-by Button	- This button is used to turn the printer on and off. - When the printer is off, press this button for approximately 3 seconds and the printer will power on. When you press this button while the printer is powered on, the printer will turn off. - When the printer is in power save mode, you can press the button to enter Stand-by mode.
	Paper Feed Button	- This button can be used to manually feed the paper. - Additionally, this button is also used to initiate self-tests and Hexadecimal Dumping. 01 Refer to the Self Test section of this manual for information regarding self-tests. 02 Refer to the Note in Self Test section of this manual for information regarding Hexadecimal Dumping.
BATT	Battery Charging Lamp	- When charging, the BATT LED turns on, and when charging is complete, the LED turns off.
ERROR	Error Lamp	- If the red light flashes, there is insufficient paper or the cover is open or Low Battery. (Printer Error) - In the event of a low battery level error, the error indicator flashes briefly and then automatically turned off.
STATUS	LINK/ Power Light	- POWER ON: GREEN LED ON - POWER OFF: LED OFF - The LED flashes when Bluetooth is paired.

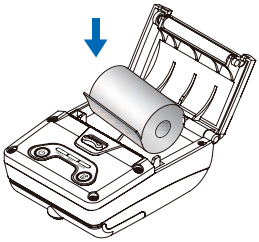
4-2. Paper Roll Installation

CAUTION
Make sure to be careful of the HOT head.



Press the Open button up to open the paper cover.

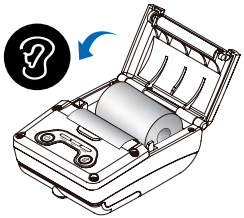




Place the paper roll as shown.
Make sure the paper is placed in the right direction.

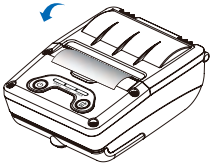
1 2
3 4

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.

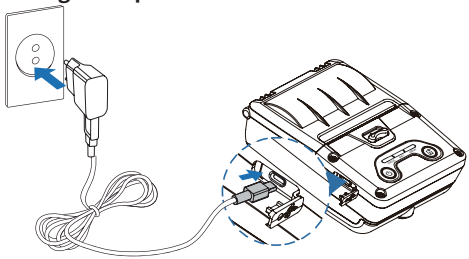
CAUTION
If the cover is not shut down completely, the printer may not work properly.



Tear off the additional paper using tear bar.

4-3. Charging Battery

How to charge with power cord

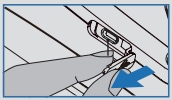


1 Make sure the printer is turned off.

2 After opening the DC JACK cover, connect the DC JACK to the printer.

3 Plug the power cord into the electrical outlet.

CAUTION



After opening the DC cover, pull the cover slightly.
Be careful not to pull too hard.

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 When charging is completed, the power is automatically turned off.

04 The printer does not work when only connected to the charger.

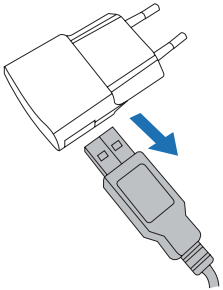
05 The battery needs to be installed to operate the printer.

06 While charging, do not turn on the power.

07 Do not operate the printer while charging the battery.

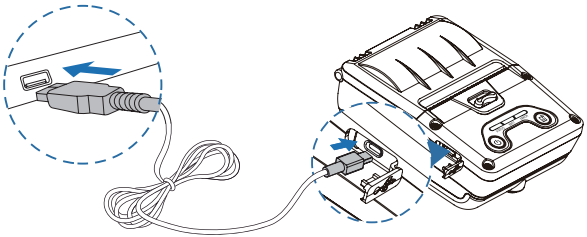
08 Do not connect the charger while the printer is operating.

How to charge with PC



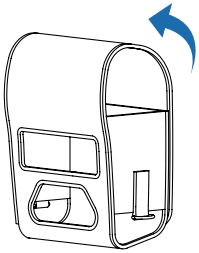
Disconnect the USB cable from the power cord adapter.

1
2

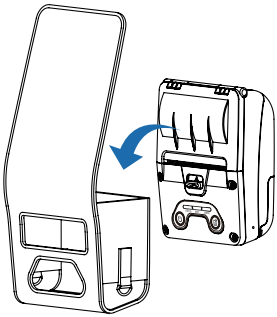


Connect the USB cable to the PC to charge the printer.

4-4. Leather Case Usage *Optional*

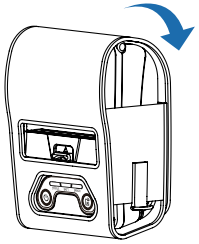


Open the leather case.

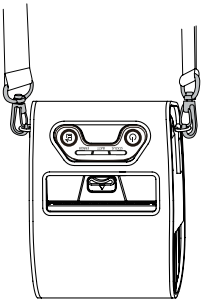


Place the printer into the leather case.

1 2
3 4

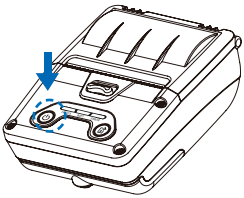


Close the cover and press down on the Velcro.

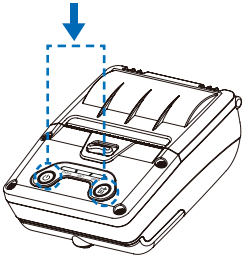


Connect the shoulder strap to leather case rings.

4-6. Self Test

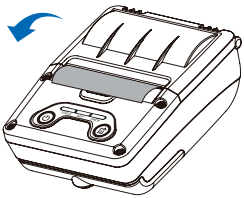


Turn off the power by pressing the power button for approximately 3 seconds.



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

1 2 3



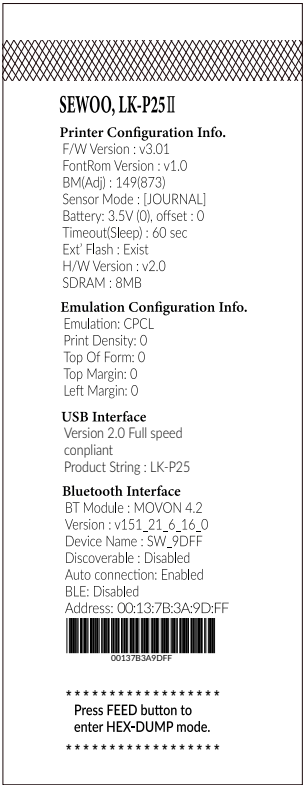
The self-test will print.

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



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.

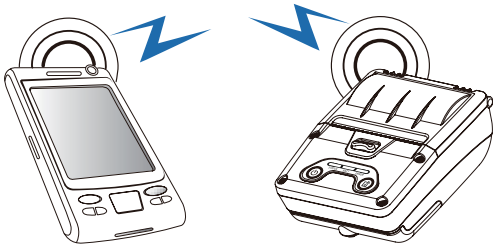
※ **Motor protection from being overheated**

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

5. Peripheral Connection

This product can communicat with oher devices via Bluetooth or a communication cable.

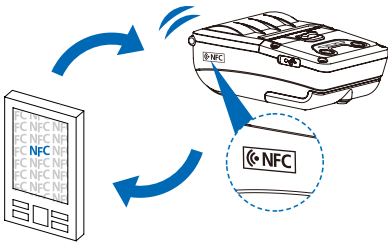
5-1. Bluetooth Connection *Optional*



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.

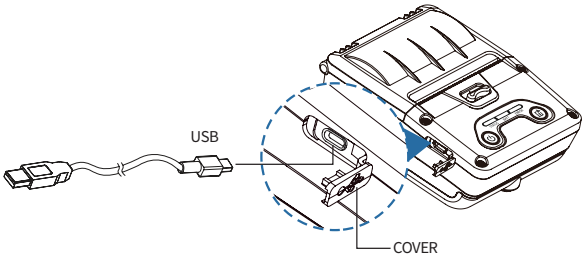
3 You can easy pairing with Bluetooth using NFC tag.



NOTE

- This model supports numeric comparison function.
- Please refer to the configuration manual for details.

5-2. Interface Cabel Connection



1 Flip over the connector cover anf connect USB cabel to the printer connerctor.

NOTE

Only use cables included with the printer.(USB)

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

6. 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.

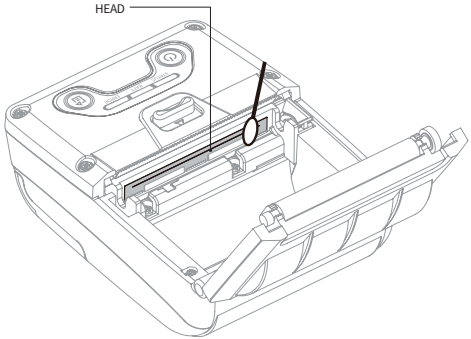
NOTE

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.



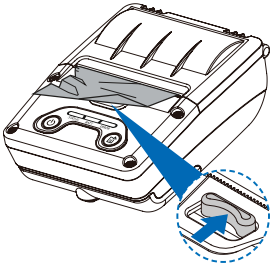
1 Use an applicator swab moistened with an alcohol solution to clean the printhead and remove any dust.

2 Once the cleaning is completed, wait a few minutes before inserting the paper roll into the printer.

Preventing Overheating

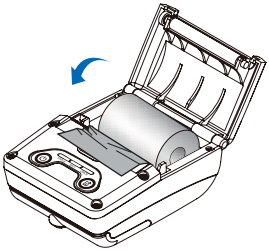
To prevent the motor from overheating, stop the printer for at least 30 seconds after continuously printing 1.5 meters.

7. JAM Error



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

CAUTION
Make sure to be careful of the HOT head.

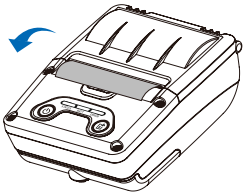


Please remove the paper.

1 2
3

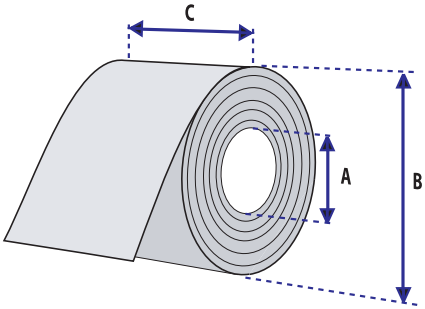
NOTE
Please make sure you hear the closing sound of the upper cover.

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.

8. Roll Media Specification



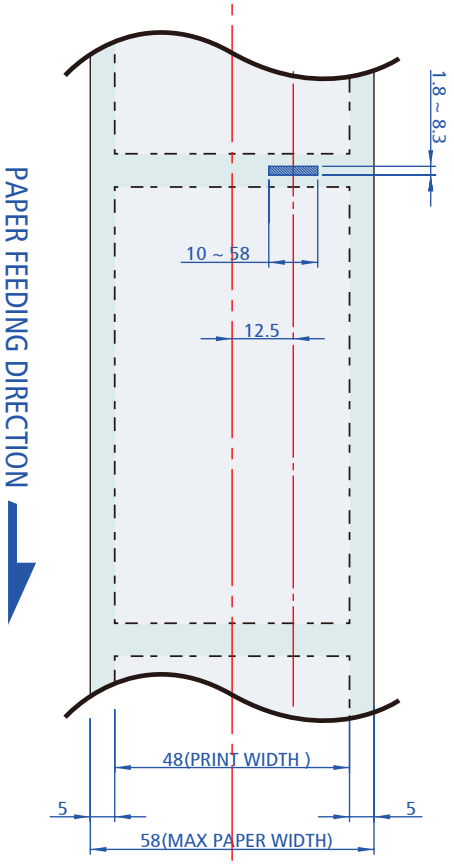
Core	
Diameter (A)	12.5 mm
Roll	
Max.Diameter (B)	40 mm
Max.Media Width (C)	58 mm
Min.Media Thickness	0.06 mm

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.

9. Black Mark


1.8 ~ 8.3
10 ~ 58
12.5
PAPER FEEDING DIRECTION
48(PRINT WIDTH)
5
5
58(MAX PAPER WIDTH)

10. Printer Specification

Printing Method		Direct Thermal
Printing Speed		Max. 80mm/s
Resolution		203 DPI
Character		FontA(12x24), FontB(9x17), 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), Font1~8
Barcode	1D	UPC-A, UPC-E, EAN-8, Code39, ITF, Codabar, Code93, Code128, EAN-13,Code128
	2D	QR, PDF417, Maxicode, Datamatrix
Emulation		ESC/POS, CPCL, ZPL Command Compatible
Driver		Windows Driver(XP ~, Server2003 ~), Window CE & Mobile Driver & SDK (CE 4.2~, Mobile 5.0~), Linux Driver, Mac Driver, OPOS Driver, JavaPOS Driver, iOS SDK, Android(6.0 ~) SDK
Sensor		Paper end, Cover open, Black mark
Paper	Paper type	Thermal paper
	Width	Max. 58 mm
	Thickness	0.06 mm
	Roll Max Diameter	Max. 40 mm
	Roll Core	12.5 mm ± 0.5 mm
Interface	Standard	USB, Bluetooth Smart Ready(Bluetooth4.2+BLE), NFC Tag
Battery Charger	Input	AC100 ~ 240V, 50 / 60Hz
	Output	5V, 1A

Battery	Battery type	Li-ion
	Output	3.6V, 3250mAh
	Charging time	Adaptor : 4 Hrs / USB : 6 Hrs
Size		79 x 44.4 x 103.2 [W x D x H (mm)]
Weight		189g (with battery)
Temperature	Operation	-10 ~ 50°C
	Storage	-20 ~ 60°C
Humidity	Operation	10 ~ 80%
	Storage	10 ~ 90%

QR Page

11. Utilities

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

No.	Name	Description
1	PrinterGear	This is an integrated utility that you can manage your printer with below tasks - Printer Configuration Settings - Wireless-Lan Settings - Font(Bitmap/TrueType) Download - Printing service - Document management - FW Download - Maintenance ※ Please refer to PrinterGear Manual for detailed information.
2	LabelMaker(CPCL)	This program is for label form design and designed label printing.
3	Android Utility (Sewoo M_Utility) (ESC/POS)	It is a utility app that prints text, barcodes, images, etc. through Bluetooth and able to printer settings etc.

12. 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.