

# MODEL WSP-R240

(2inch Mobile Printer)

Rev. 6.5



Operating Manual

All specifications are subjected to change without notice

## ■ Copyright

**WSP-R240** 2inch mobile printer operator's manual.  
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## ■ Caution

Some semiconductor devices are easily damaged by static electricity. You should turn the printer "OFF", before you connect or removed the cable on the rear side, in order to guard the printer against the static electricity.

If the printer is damaged by the static electricity, you should turn the printer "OFF".

## ■ Notice

The contents of this manual are subject to change without notice.

## ■ Introduction

The **WSP-R240** is suitable designed for use with a growing variety of mobile devices. Bluetooth/Serial interfaces make the WSP-R240 the perfect comrade for applications such as point of transaction warehousing, distribution, point of sales, hospitality, gaming and healthcare.

The general features of **WSP-R240** printer are as follows:

- ▶ Pocket size (79.5 X 114.3 X 43.5mm)
- ▶ Light weight (201g) for true mobility.
- ▶ Very silent printing thru direct thermal printing method.
- ▶ High speed(100mm/sec, MAX)
- ▶ High resolution(203dpi : 8dots/mm)
- ▶ UART(RS-232C or TTL), Bluetooth V5.2 Interface
- ▶ Intuitive LED's indicate Power(on/off), Error, Bluetooth status, Battery status
- ▶ Support Magnetic Stripe Reader [option].
- ▶ Support text and graphic printing.
- ▶ Easier paper loading by CLAMSHELL design.
- ▶ One touch paper cover
- ▶ Printer door open & Paper-out sensor
- ▶ Easier maintenance with self-diagnostics.
- ▶ In field programming – Update Firmware, Download Fonts and Logos
- ▶ Microsoft Windows/Windows CE, Linux, Android, iOS compatible
- ▶ Free fall: 1.5M
- ▶ Flow control : Software (XON/XOFF)

※ Hardware flow control not supported in printer.

## ■ Operating Precautions

Please follow the precautions below to enjoy and maintain the full performance of the printer.

### ► Using the Printer

- Be careful not to drop or bump the printer on a hard surface.
- Do not install the printer in direct sunlight or such areas.

Suitable environment for the use of the printer is as follows:

- ◆ Operating temperature: -10°C to 50°C
- ◆ Relative humidity : 30% to 80%

- Do not install the printer near devices that generate strong electromagnetic fields such as a copy machine.
- Do not open the platen cover during printing .
- Do not remove or reinstall the communication cable during printing or transmission.
- Do not touch the connectors of the communication during printing.
- Switch the POWER OFF when not in use.
- Do not use other solvent.
- The AC adapter, the battery charger and the battery pack may become warm when in use. This is normal and is not a malfunction.
- When the battery pack is used at low temperature, the length of time the printer can be used may be shortened.

### ► Thermal Paper Handling

- Store the thermal paper in a cool, dry and dark place.
- Do not rub the paper with hard object.
- Do not leave the paper with hard object.
- Do not allow plastic film, erasers, or adhesive tape to touch the paper for long periods.
- Do not stack the thermal paper with diazo copies immediately after copying or wet-type copies.
- Do not use chemical glue.
- Always use the clean thermal paper.

**Federal Communications Commission  
Radio Frequency Interference Statement**

FCC ID : QDDWSP-R240W

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.

**CAUTION:** Changes or modifications not expressly approved by the party 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.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.

This Device has been evaluated to comply with RF exposure requirement for general use limit in portable condition. It is safe to be used in sold condition.

**CE WARNING**

- Changes and modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- It is desirable that it be installed and operated with at least 20cm or more between the radiator and person's body(excluding extremities hand, wrists, feet, and ankles)

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# 1. Outline

## 1.1. Model classifications

<b>WSP-R240</b>	(      )	(      )	
			<b>Model</b>
			<b>Interface</b>
			A1:UART/Bluetooth
			<b>Power</b>
			None : DC 8.4V

## 1.2 Symbol

	<b>Standby symbol</b> IEC 5009, the standby symbol(line partially within a broken circle), Indicates a sleep mode or low power state.
	<b>Direct current symbol</b> This symbol is found on many electronic devices that either require or produce direct current.

### 1.3. Product Part Number System

Model name / Interface Spec.	
S40	<b>Wired</b>
SC30	A RS-232C
W25	B TTL
.	C USB
.	D RS-485
.	E Parallel
	Z None
	<b>Wireless</b>
	1 Bluetooth
	2 IrDA
	0 None

Example) 1. Porti-S40 UART/Bluetooth Part No. ⇒ S40/A1  
2. Porti-SC30 Bluetooth Only Part No. ⇒ SC30/Z1

Note) The above table is the interface format which is supported.  
But some of the interfaces are not supported according to the product  
and please contact us, if you have any questions regarding the interface.

## 1.4. Specifications.

Item	Specification
<b>Printing method</b>	Direct thermal line printing
<b>Character size</b>	- Font Size A: 12X24 / Font Size B: 9X24 / Font Size C: 8X16 - KOR: 24X24(16X24) / CHN, JPN: 24X24
<b>Characters per line</b>	- Font A: 32cpl / Font B: 42cpl / Font C: 48cpl - KOR, CHN, JPN: 16cpl
<b>Optional Characters</b>	Alphanumeric:95, Extended Graphics:128X50 pages, International:10, Simplified/Traditional Chinese, Japanese, Korean(optional)
<b>Resolution</b>	203dpi, 8dots/mm
<b>Print width</b>	2-inch (48mm, 384dots)
<b>Printing speed</b>	100mm / sec (MAX)
<b>Dimensions</b>	79.5 X 114.3 X 43.5mm 79.5 X 118.2 X 43.5mm (MSR Model)
<b>Weight (w/o paper)</b>	201g / 217g (MSR model)
<b>Interface</b>	UART(RS-232C or TTL), Bluetooth V5.2
<b>Paper supplied</b>	Thermal roll paper, Label roll (58mm wide, 40Ø)
<b>Barcode supplied</b>	1-dimension: UPC-A, UPC-E, EAN-8, EAN-13, CODE-39, CODE-93, CODE-128, ITF, CODABAR 2-dimension: PDF417, Micro PDF417, Truncated PDF417, QR-CODE, DATA Matrix, Maxicode Etc: GS1 databar
<b>Driver</b>	Microsoft Windows, Linux
<b>H/W spec.</b>	MCU: RX-32bit, RAM: 128M bit, FLASH: 64M bit
<b>Receive buffer size</b>	1M bytes
<b>Sensor</b>	Support Cover open, Paper, Label
<b>MSR (option)</b>	Triple tracks (1&2&3 Tracks Reading) *Supports 3DES & AES encryption

(Continue...)

Item	Specification	
<b>Battery</b>	Rechargeable 7.4V DC , 1150mAh (Li-ion)	
<b>Battery duration</b>	1 hour continuous printing	
<b>Battery Charger</b>	Input (100~240V AC, 50~60Hz) Output(8.4VDC/0.8A), 4hours full charge time	
<b>Environment Conditions</b>	Temperature (operating)	0°C ~ 45°C (Charging) -10°C ~ 50°C (Discharging)
	* Under 0°C , density mode "high" is recommended.	
	Temperature (storage)	-20°C ~ 70°C (storage)
	Humidity	30% - 80% (operating) 10% - 90% (storage)
<b>MCBF (Mean Cycle Between failure)</b>	Mechanical	37,000,000 lines
	Head	Approximately 50 Km

&lt; Table 1 &gt;

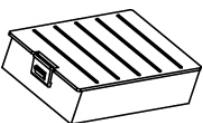
## 2. Setting up the printer

### 2.1. Printer & Accessories

Your printer box should include these items. If any items are damaged or missing, please contact your dealer for assistance.



WSP-R240



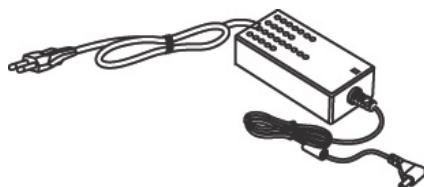
Battery Pack



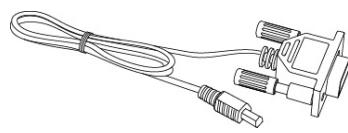
Thermal roll paper



Belt Clip

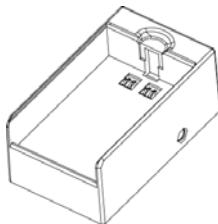


Battery charger



Communication cable

#### ▼ OPTIONAL



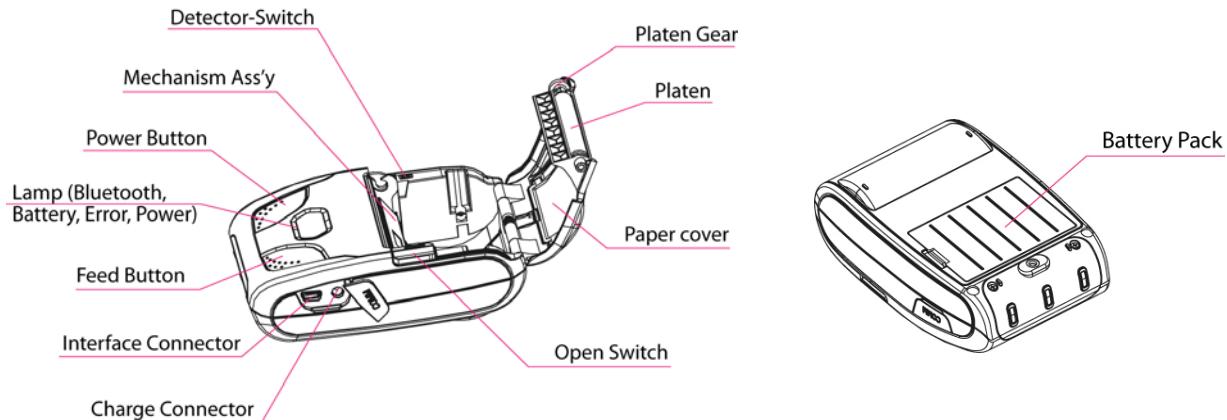
External Battery Cradle



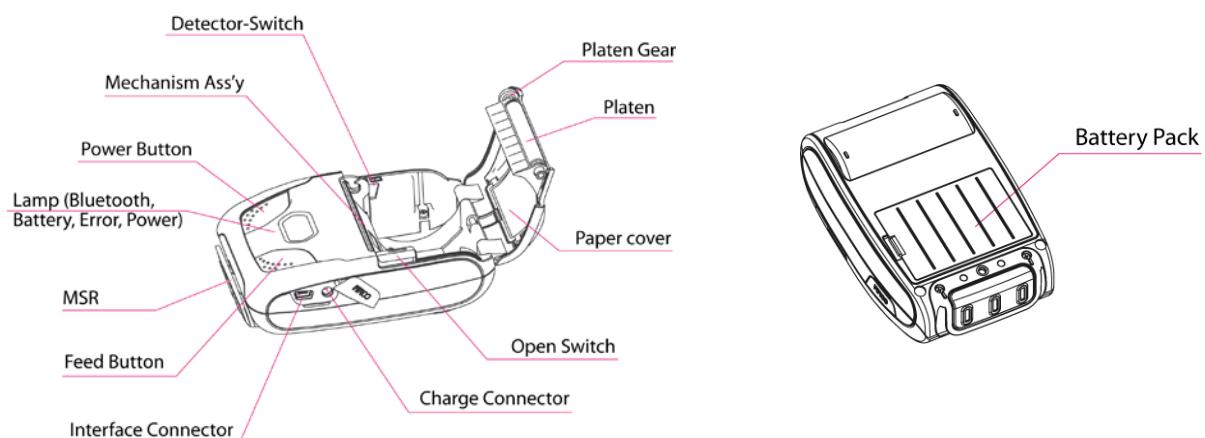
MSR

## 2.2. Printer Features

### ► Part Name

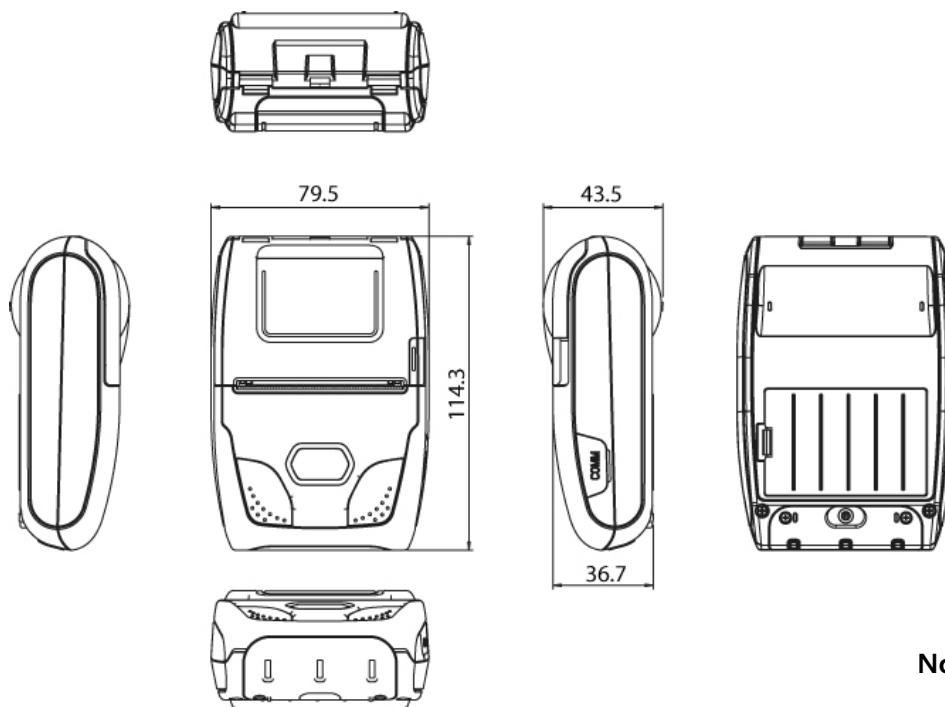


None MSR Model

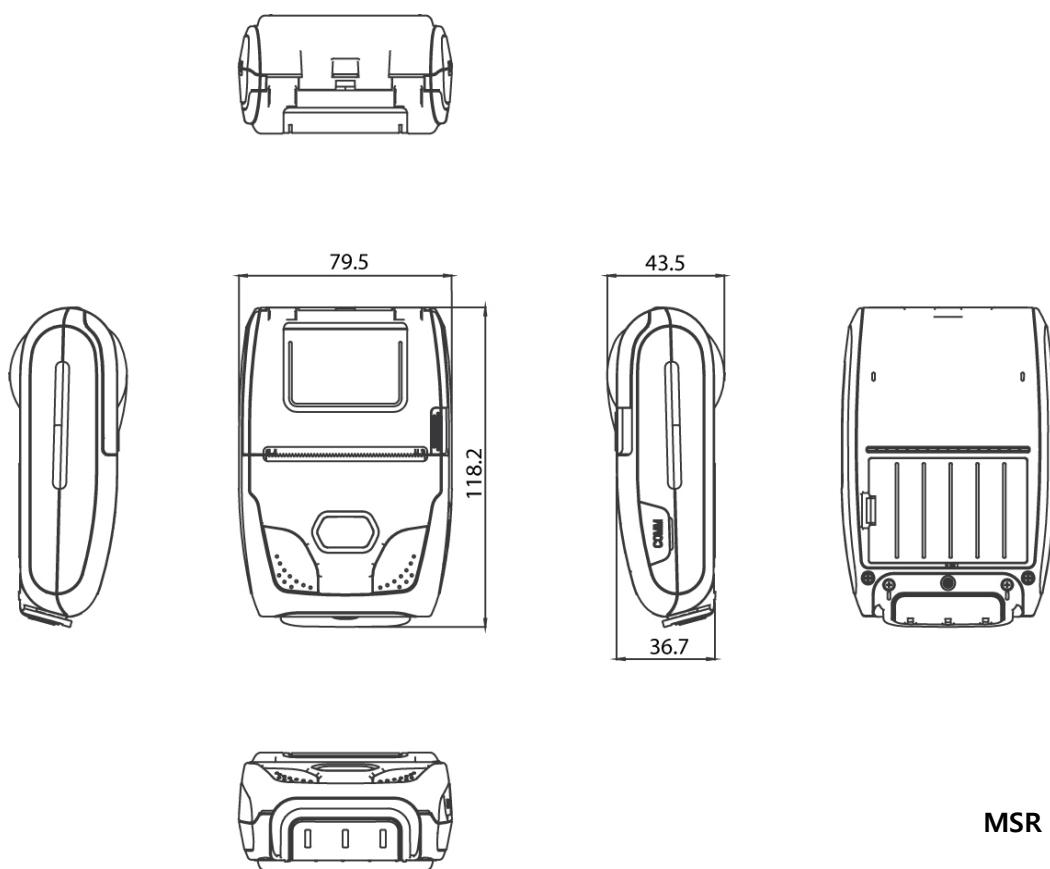


MSR Model

► Dimensions [Unit : mm]



None MSR Model



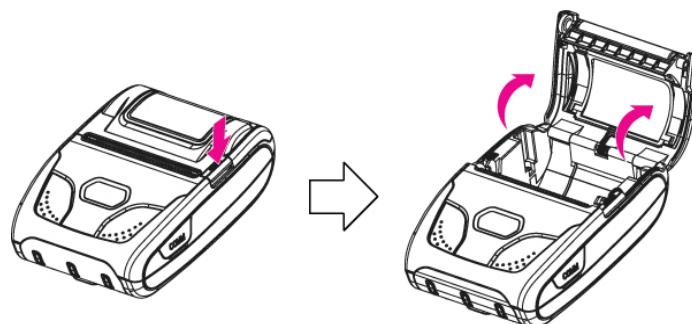
MSR Model

## 2.3. Replacing the paper roll

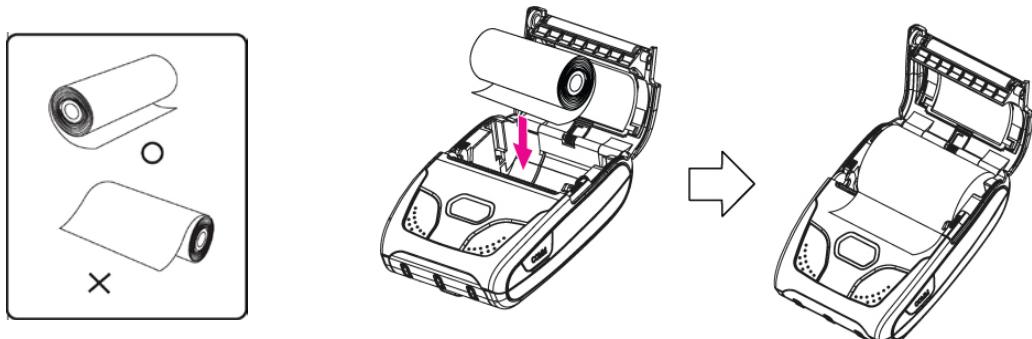
**Note** : Be sure to use paper rolls that meet the specifications.

Do not use paper rolls that have the paper glued to the core because the printer can not detect the paper end correctly.

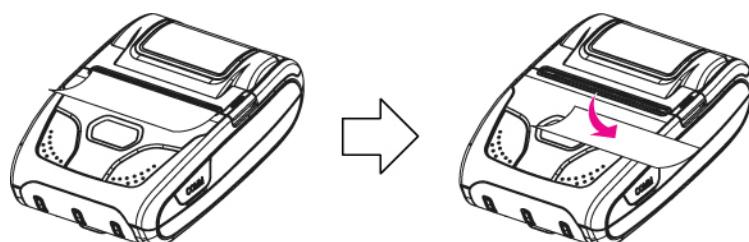
1. Make sure that the printer is not receiving data; otherwise, data may be lost.
2. Open the paper cover as the "One-Touch" way by pressing the button in the arrow direction like the picture.



3. Insert the paper roll as shown.



4. Tear the excess paper off using the edge of paper door as a tear bar.



## 2.4. Power supply

### 2.4.1. Internal power supply

The following specification is requested for Power supply.

Battery Charger : DC 8.4V/0.8A

Avoid using power supply which its power capacity of power current is extremely high.

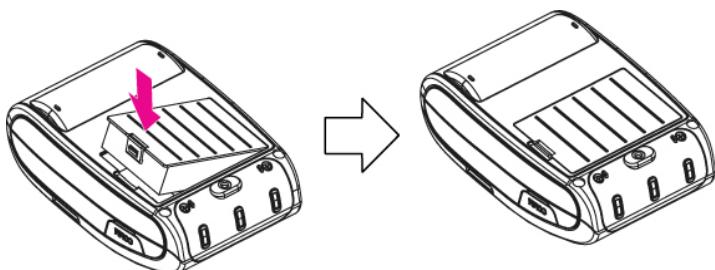
### 2.4.2. Installing the Battery

#### Warning :

- Before installing or removing the battery pack, ensure the printer is OFF.
- If the printer is not used for long period of time, remove the battery pack from the printer.
- Risk of explosion if battery is replaced by an incorrect type.  
Dispose of used batteries according to the instructions.
- Batteries are provided not being charged. Please charge the battery before use.

① To install battery pack, proceed as follows:

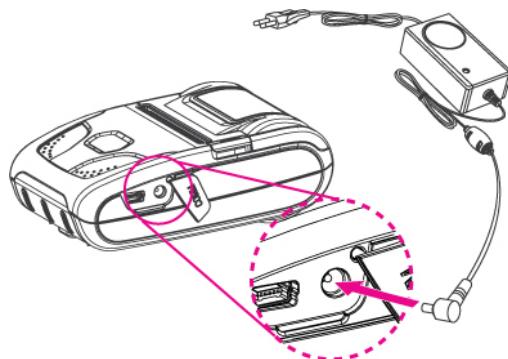
-Insert the Battery Connector in the direction of the arrow.



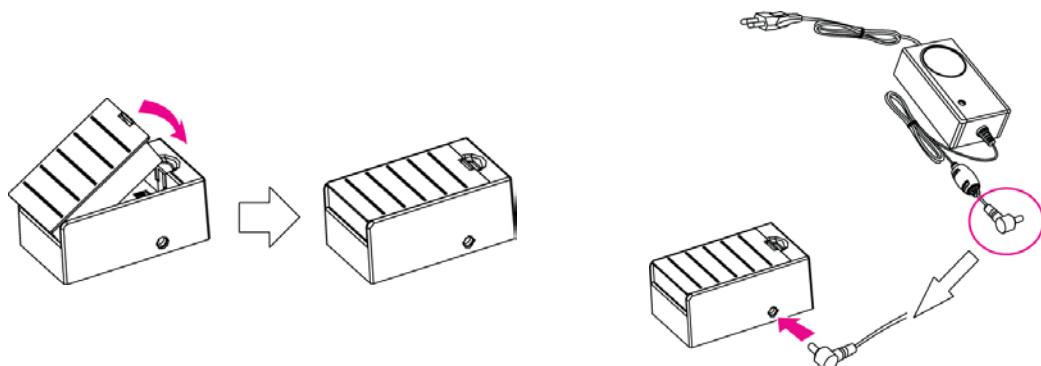
② To remove battery pack, proceed the above order reverse.

### 2.4.3. Recharging the battery

For recharging the battery pack, install the battery pack in the printer.  
Insert the Battery Charger to the charge connector of the printer.



Insert the Battery charger adaptor to the charge connector of the **External Battery Cradle**.



**NOTE :**

- While charging the printer, turn off the printer power.
- Do not remove the battery during charging.
- The battery is consumable parts and when purchasing, compared to the use hour is gradually decreases. (Warranty 6 month)
- If the printer is not used for a long time, unplug the power cord from the printer and outlet.
- The recharging time depends on the voltage level and ambient temperature of the battery.  
Normally, it takes about 4 hours to recharge a battery pack.
- You must use only the supplied adapter.
- Red Lamp : charging the battery.  
Green Lamp : charging is finished.

## 2.5. Set operation mode

In keeping on pressing the Feed and Power button simultaneously until after the **ERROR lamp** blinks 5 times, the printer comes out at the circumstance to change the printer mode.  
(refer to Table 2)

\*\* Only the printer which support iOS Bluetooth interface comes out at the circumstance to change the printer mode. (Bluetooth Mode or Boluetooth(iAP) Mode).

**\*\* Manipulation methods :**

1. Press Feed and Power buttons simultaneously until the **ERROR lamp** blinks 5 times and then keep pressing two buttons for 2 Seconds.
2. After the printer beeps twice, the Bluetooth mode is changed and it will print the result of change.
3. The changed mode can be checked in the printout.

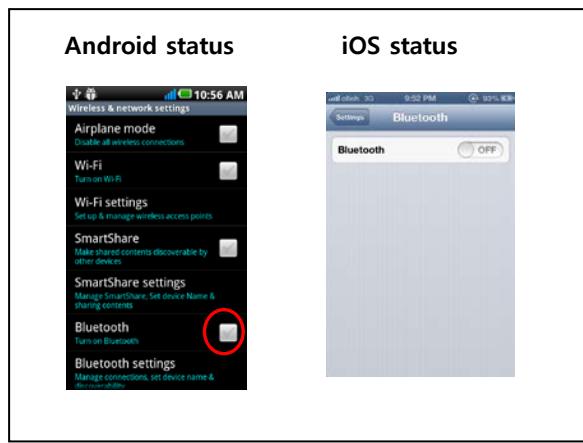
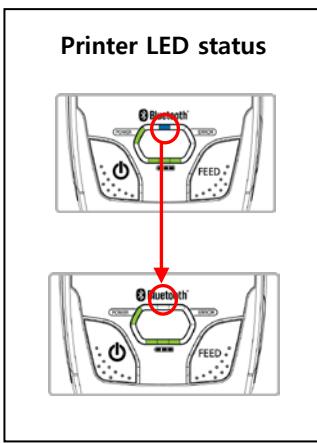
Example ) If the printer is in Bluetooth Mode → Bluetooth(iAP) Mode

\*\* If you want to change the Bluetooth Mode of printer, you need to disconnect the Bluetooth function of the current paired Smartphone.

**\*\* Methods :**

1. Turn off the Bluetooth function of the current paired Smartphone.  
(Blue LED is off.)
2. Change the printer mode.

(Additionally, we want to recommend you to rest(OFF→ON) the printer and change mode.)



- **POWER button** : use for changing OPTION status. (**Error Lamp**)
- **FEED button** : use for changing MODE status. (**Power Lamp**)

[Example] The defaults of the printer are :

RS-232C / 9600 bps / 8 data bit / No parity / 1 stop bit / Density low / Mark use / Sensor low / Power down 5 minute

If a user wants to modify the defaults with

**Bluetooth / 57600 bps / 7 data bit / Odd parity / 2 stop bit / Density high / Mark no use / Sensor medium1 / Power down no use**

- ▶ Press FEED & POWER Button during the **Error Lamp** flickers 5 times.  
→ You will see the **Power Lamp** and the **Error Lamp** flickers once.  
→ Press the **POWER Button** twice and the **Error Lamp** flickers 3 times.  
And then, interface mode has set to **Bluetooth** mode.
- ▶ When you press **FEED button** once again, **Power Lamp** flickers twice and the **Error Lamp** flickers once.  
→ Press **POWER Button** 3 times, **Error Lamp** flickers 4 times.  
And then, baudrate has set to **57,600 bps**.
- ▶ When you press **FEED button** once again, **Power Lamp** flickers 3 times and the **Error Lamp** flickers twice.  
→ Press **POWER Button** once, **Error Lamp** flickers once.  
And then Data Bit has set to **7 data bit**.
- ▶ When you press **FEED Button** once again, **Power Lamp** flickers 4 times and the **Error Lamp** flickers once.  
→ Press **POWER Button** once, **Error Lamp** flickers twice.  
And then the Parity bit has set to **Odd parity bit**.
- ▶ When you press **FEED Button** once again, **Power Lamp** flickers 5 times and **Error Lamp** flickers once.  
→ Press **POWER Button** once, **Error Lamp** flickers twice.  
And then the density has set to **2 stop bit**.
- ▶ When you press **FEED Button** once again, **Power Lamp** flickers 6 times and **Error Lamp** flickers once.  
→ Press **POWER Button** twice, **Error Lamp** flickers 3 times.  
And then the density has set to **Density high**.

- ▶ When you press **FEED Button** once again, **Power Lamp** flickers 7 times and **Error Lamp** flickers twice.
  - Press **POWER Button** once, **Error Lamp** flickers once  
And then the mark has set to **Mark no use**.
- ▶ When you press **FEED Button** once again, **Power Lamp** flickers 8 times and **Error Lamp** flickers once.
  - Press **POWER Button** once, **Error Lamp** flickers twice  
And then the sensor has set to **Sensor medium1**.
- ▶ When you press **FEED Button** once again, **Power Lamp** flickers 9 times and **Error Lamp** flickers five times.
  - Press **POWER Button** once, **Error Lamp** flickers once  
And then the power down has set to **Power down no use**.

If all the mode have set, press the **POWER Button** and the **FEED Button** at the same time after then release the buttons at the same time.

The printer will print out the mode status which has modified.

**(Bluetooth / 57600 bps / 7 data bit / Odd parity / 2 stop bit / Density high /  
Mark no use / Sensor medium1 / Power down no use)**

If the status is not correct, please try it again according to the procedure.

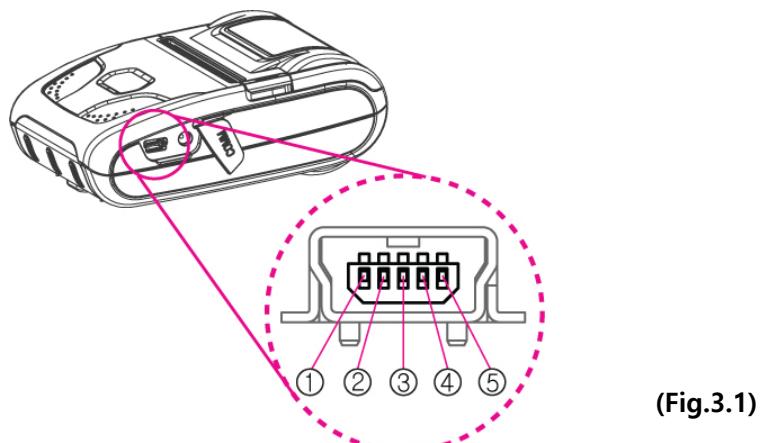
MODE	POWER Lamp (Green)	ERROR Lamp (Red)	Option
Communication Port	1	1	RS-232C
		2	RS-232C(Pro)
		3	Bluetooth
		4	Bluetooth(Pro)
		5	Bluetooth(iAP)
Baud Rate	2	1	9600 bps
		2	19200 bps
		3	38400 bps
		4	57600 bps
		5	115200 bps
Data Bit	3	1	7 Data bit
		2	8 Data bit
Parity	4	1	No Parity
		2	Odd Parity
		3	Even Parity
Stop bit	5	1	1 stop bit
		2	2 stop bit
Density	6	1	Density Low
		2	Density Medium
		3	Density High
Mark	7	1	No use
		2	Use
Sensor	8	1	Low
		2	Medium1
		3	Medium2
		4	High
Power Down	9	1	No use
		2	1 minute
		3	2 minute
		4	3 minute
		5	4 minute
		6	5 minute

&lt; Table 2 &gt;

Notice : Bluetooth(iAP) is the mode which is used in iPod, iPhone and iPad Whole aspect.

## 3. Interface

### 3.1. UART(RS-232C or TTL)



The WSP-R240 printer has a UART(RS-232C or TTL) interface and is connected by means of a 5 pin mini USB socket. In the following table, the signals present on the Mini- USB socket are listed:

Pin No.	Name	Direction	Function
1	TxD	Output	Transmit Data
2	RxD	Input	Receive Data
3	GND	-	Ground
4	NC	-	-
5	GND	-	Ground

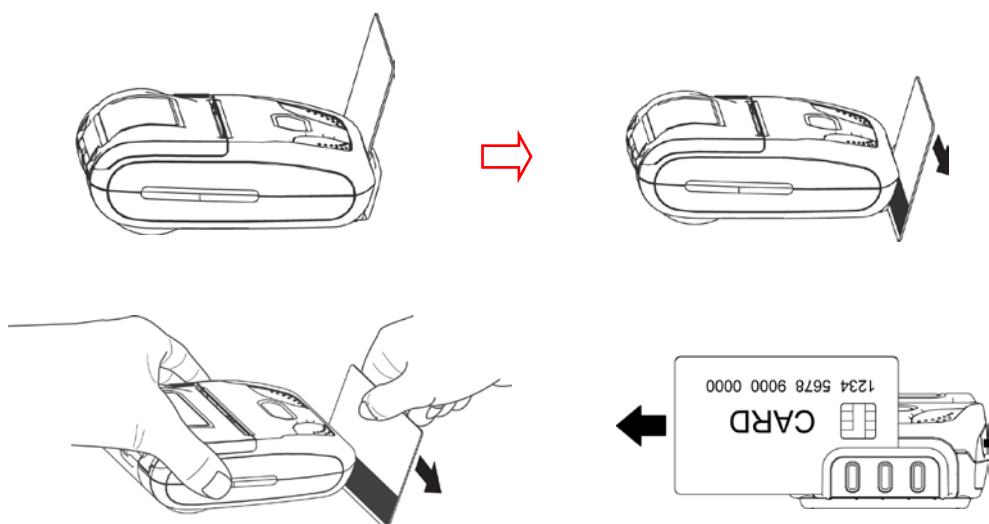
**NOTE :**

- If you connect the printer interface cable is converted to UART mode.
- When data receiving, when it removes the communication cable, it loses a data.

### 3.2. Bluetooth

Category	Specification
Bluetooth Spec.	Bluetooth V5.2 / Class2 (10m)
Frequency band	2402~2480 MHz
Protocol	L2CAP, RFCOMM, SDP
Profile	GAP, SDAP, SPP, GATT

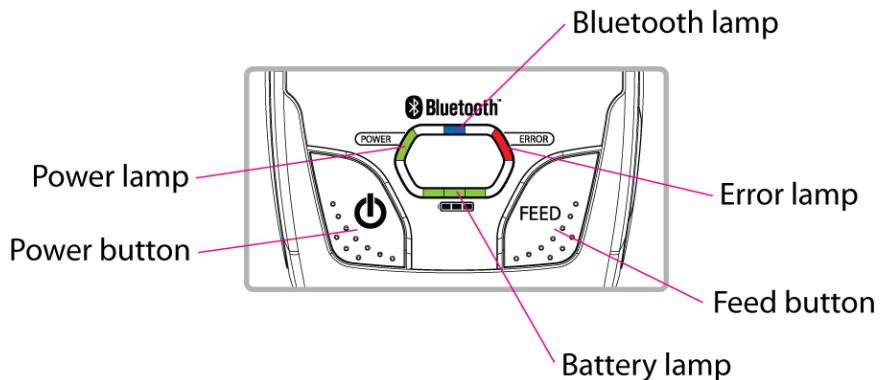
### 3.3. Read a magnetic stripe card (option)



- ▶ Check the direction of the magnetic stripe and read the card.
- ▶ Holding the card as shown above,  
please pass at a steady speed (check the direction of the arrow).
- ▶ When the card reading is successful, buzzer sound one time.  
If it fails, buzzer sounds three times.

## 4. Using the printer

### 4.1. Control panel



(Fig.4.1)

#### ► Button

##### - **FEED Button:**

When the printer is on, paper can be feed manually by pressing and holding the FEED button for more than one second.

##### - **POWER Button:**

- ① When of 5 or more seconds presses and power comes to on or off.
- ② After pressing the POWER and the FEED button simultaneously, if the ERROR lamp 5 turn signals POWER button is converted with MODE functions.

: In keeping on pressing the **Feed and Power button** simultaneously until after the **ERROR lamp** blinks 5 times, the printer comes out at the circumstance to change the printer mode.  
(Refer to **2.6. Set operation mode** for details about mode conversion)

#### ► LAMP

- **Power** : Printer is ON and ready to receive data.

(**GREEN**)

- **Error** : Indicates a fault condition or a printer error.  
(**RED**) (details: no paper, paper cover opened. etc.)

- **Bluetooth** : Indicates a Bluetooth connection status.  
(**BLUE**)

- **Battery Power** : These lamps(**Green**) indicated the battery power remaining.  
(**GREEN**) The battery gain in quantity and these lamps are on the decrease.  
If so, you must recharge the battery by using the battery charger.

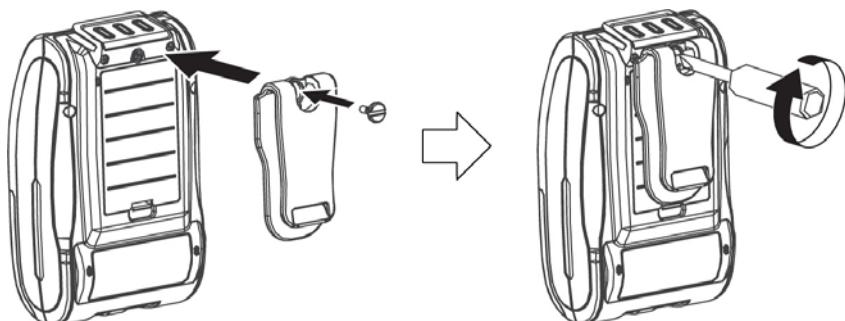
## 4.2. The self test

Self-Test prints out the current setting value of printer. The way of self-test is as follows.

1. Insert proper paper into the printer.
2. Power on while pressing feed button to start self-test.
3. Printer will print out the current status. (F/W version and set contents)
4. And then pattern of characters will be printed out.
5. Self-test will be finished automatically and turned to the standby status.

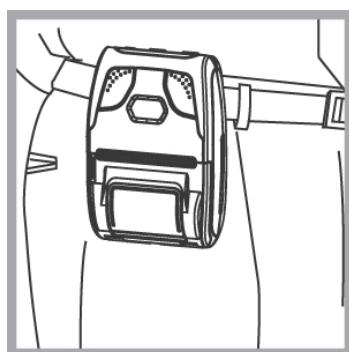
※ In case printer does not work properly, please contact Woosim customer service center.

## 4.3. Using the Belt clip



Following the instruction of the arrow, please put the belt clip in the hole and turn and fix the screw to the right by using a thing like a screw driver.

Afterward, you can use it like the picture below



## 5. Consumable Parts

### 5.1. Recommended paper

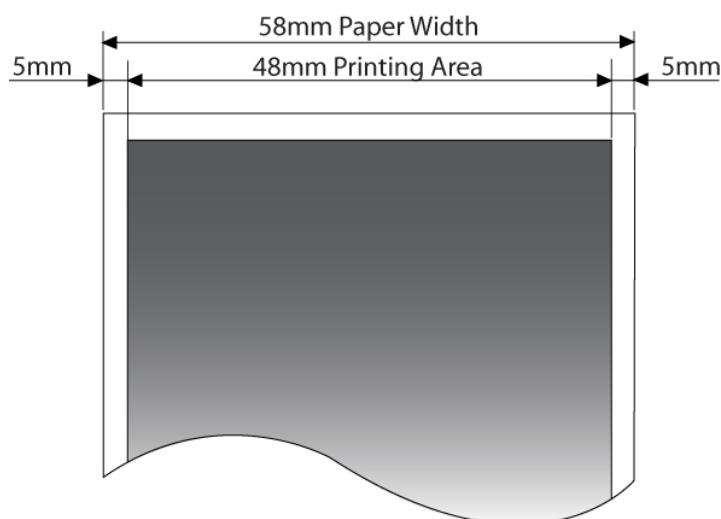
Type	: Thermal Paper
Paper width	: 58mm
Paper thickness	: $60 \pm 5 \mu\text{m}$
Outer diameter	: Ø40mm or less
Recording side	: Outside of roll



#### Cautions

1. Do not paste the paper to the core. And the roll paper which has Near end mark printing on its near end is recommended.
2. Chemicals or oil may change the color of paper, or printed Characters may fade.
3. Change of paper color starts from approx 70 °C.  
Pay attention to heat, humidity and sun light.
4. Color of paper may be changed by being scratched by nail or hard metal, etc

### 5.2. Printing position



## 6. Revision History

Date	Version	Comments
Mar. 03. 2011	1.0	Initialize
May. 03. 2011	2.0	Weight Change (215.3g -> 217g)
Jan. 20. 2012	3.0	p18 : Bluetooth(iAP) Mode option Added (only iPod, iPhone, iPad use) Sensor option -> AUTO delete
May. 10. 2012	4.0	p16 : Bluetooth Mode or Boluetooth(iAP) Mode setting additional
Jul. 17. 2012	5.0	p3 : ▶ One touch paper cover ▶ Printer door open & Paper-out sensor Added. p8 : H/W Spec. change
Aug. 08. 2013	6.0	p3 : ▶ High speed( <u>80 -&gt; 100mm/sec</u> , MAX) : p8 same ▶ Free fall : <u>1.5 -&gt; 2M</u> drop resistance ▶ Agency Approvals modify P8 : General Spec. update p10 : Printer accessories modify p11-12 : MSR model figure additional p16 : Set operation mode modify
Oct. 20. 2014	6.1	p3 : ▶ Free fall : <u>2 -&gt; 1.5M</u> p21 : UART Pin spec modify Add contents of the note P25 : Add 4.3 Using belt clip
Jul. 01. 2016	6.2	p3,9,23 Bluetooth spec. update : Ver2.1+ EDR → Ver3.0 p3 Agency Approvals update p5 Additional CE warning p7 Additional Symbol(standby, DC current) p10 Battery capacity modify : 1200 → 1130 p15 Additional battery warnings p22 Interface modify (USB part delete) p23 3.3 Read a magnetic stripe card(option) update p26 4.3 Using the belt clip image update
May. 17. 2017	6.3	Change page layout (B5→A4) * Delete address
Feb. 12. 2020	6.4	p11-12 : Battery charger update(SHE)
Sep. 20. 2022	6.5	M3X → M3W

## 7. Regulatory Statement

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 may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

### ISED Radiation Exposure Statement (For Canada)

This equipment complies with ISED radiation exposure limits set forth for an Uncontrolled environment.

### Avis d'industrie canada

(Pour le Canada)

Cet appareil est conforme aux limites d'exposition aux rayonnements d'Industrie Canada pour un environnement non contrôlé.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

REMARQUE : LE FABRICANT N'EST PAS RESPONSABLE DES INTERFÉRENCES RADIOÉLECTRIQUES CAUSÉES PAR DES MODIFICATIONS NON AUTORISÉES APPORTÉES À CET APPAREIL. DE TELLES MODIFICATIONS POURRAIENT ANNULER L'AUTORISATION ACCORDÉE À L'UTILISATEUR DE FAIRE FONCTIONNER L'APPAREIL.