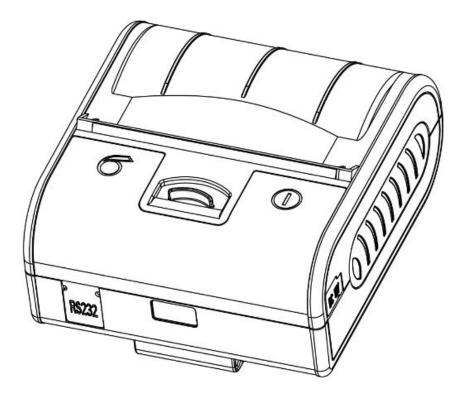
MPT-III User Manual



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Statement

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1.0 Version

Warnings :

This must be complied with in order to avoid any damage to the human body and to the equipment.

This is showing the important information and tips for the printer operating.

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Precautions

1. Safety Precautions

- 1) Be sure to use the specified battery and power source provided by our company. Connection to an improper power source may cause fire, explosion or damage to the printer.
- 2) Don't put the battery into fire or water, don't disassemble or modify the battery, don't be short circuit, otherwise may result in injury or fire or even explosion.
- 3) If the printer would not be used for a long time, be sure to take off the battery, otherwise the battery may leak liquid which is corrosive, if improper operation causes battery leak, and the liquid is spattered on the skin or clothes, please wash it with water, if spattered into the eyes, please rinse them with water thoroughly and see a doctor.
- 4) Please do not open the paper case cover when it is printing or just when printing is over, do not touch the print head with hand or body, overheat may cause scald.

2. Operation Precautions

- 1) Water or other liquid should not spill into the printer, also the printer should not be expose to the rain, or else may cause printer damage.
- 2) Please do not open the paper case cover when it is printing, otherwise the printer may work improperly.
- 3) If print with serial interface, should not unplug the interface cable in the course of printing, or else some printing data may be lost.
- 4) When print in Ir or IrDA mode, be sure the Ir window of the host equipment face rightly the Ir window of the printer, the distance should be within the range of 50cm, and the angle should be within the range of 30°.
- 5) Too high $(40^{\circ}C)$ or too low $(0^{\circ}C)$ temperature and too high (85%) or too low (20%) relative humidity both effect the print quality.
- 6) The print paper in poor quality or stored for too long time also may reduce the print quality even damage the printer.
- 7) In the black mark detecting mode, the printer requires that the preprinted black mark is accordant with the black mark specifications (details please refer to 4.2), otherwise the black mark can not be detected correctly.
- 8) Be sure to use up the power of the battery before charge it, as it can ensure the using life of the battery.

3. Storage Precautions

- 1) The printer should be placed in such an environment that the temperature is between -20℃ and 70℃, and the relative humidity is between 5% and 95%.
- 2) If the printer will be stored for a long time, pleas be sure to take out the battery, otherwise may damage the battery and printer.
- 3) Normal thermal paper can't be kept too long, if you need to keep the receipt for a long period, please choose long term effective thermal paper.
- 4) The print paper should be keep away from high temperature environment and point-blank sunshine.

4. Battery Safety Precautions

Be sure to read the user manual carefully before using the product.

Ignore the following instructions may cause battery overheating, fire, explosion, damage and / or performance, and reduced product life.

1) Do not allow water, sea water from entering or leaking into the battery. If the batteries internal safety device burn, when charging it, it may produce abnormal current and / or voltage, or



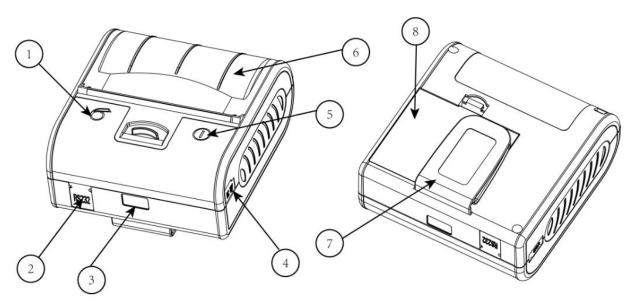
abnormal chemical reaction when charging it, then may cause the battery overheating, fire and / or explosion.

- 2) Do not use or place the battery nearby the stove or other high temperature places. Excessive heat maybe damage the resin shell and / or the insulation materials, thereby cause short-circuit inside the battery, then the battery may be overheated, burning and / or explosion.
- 3) When charging, use a specified charger. Other conditions (high temperature, high pressure / high current, using the modified battery charger, etc.) excluded here may result in over-charging the battery and abnormal current and / or voltage, cause abnormal chemical reaction, and may cause the battery overheat, light and / or explosion.
- 4) Battery clearly marks with positive and negative. When connect the battery with the charger and / or printer, be sure to verify the correct battery orientation. Reverse insertion will cause the reverse charging and may cause abnormal chemical reaction, and then may cause the battery overheat, ignite, and / or explosion.
- 5) Do not make the battery contact with the power outlet and / or car cigarette lighter socket. This may cause high pressure and excessive current, and lead to the battery overheat, burning and / or explosion.
- 6) Do not heat the battery or put the battery into fire. This may melt insulation material and/ or damage safety devices or safety equipment, then ignite electrolytic solution, and cause the battery overheat, burning and / or explosion.
- 7) Do not use the battery with contrary (+) and (-) location. In the charging process, this will cause the reverse charging and may cause abnormal chemical reaction. During use, may appear unpredictable current exception, and cause the battery overheat, ignite, and / or explosion.
- 8) Do not make the battery (+) and (-) contact with any metal. Also, do not carry along or store batteries with metal objects, such as necklaces, hair clips and so on. Battery internal short circuit may cause excessive current, and lead to the battery overheat, ignite, and / or
- explosion and the adjacent metal objects (necklaces, hairpins, etc.) may be overheating.9) Do not throw or attack the battery heavily. If internal safety device of the batteries burn, the battery
- charging may cause any abnormal current and / or voltage, and abnormal chemical reaction, and lead to the battery overheat, ignite, and / or explosion.



Chapter 1 Brief Introduction

1.1Appearance



- 1) Feed on/off and LED indicator
- 2) RS232 serial socket
- 3) Infrared ray (IR) interface
- 4) Power input
- 5) Power on/off and LED indicator
- 6) Top cover
- 7) Buckle
- 8) Li-ion battery cover

Notice: Two LED indicators are under button with different definition by red and green colors.



1.2 Accessories

Standard accessories







Li-ion batter

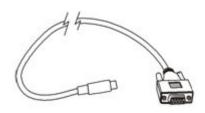
Power Adapter

Paper

Optional accessories



Leather case



Serial interface cable



Chapter 2 Specifications

2.1 Printing specifications

- Printing method: Line thermal
- Paper width: 76mm/80mm
- Valid printing width: 72 mm
- Resolution: 8 dots/mm (230 dpi)
- Dot /line: 576 dots
- Printing speed: 50~70 mm/s
- \bullet Paper thickness: 60 $\,\sim\,$ 80 μ m
- Printing content: GB18030 character set, ASCII characters, user defined characters, bar codes CODE39,CODE128, EAN13, EAN8, CODABAR, CODE93, ITF, 2D QR code ,bitmaps.

2.2 Physical specifications

- Outer dimension: 102 x 108 x50mm
- Weight: 325g (excluding paper roll)
- Paper Diameter: <a>40mm
- Interface: Original IR(RAW_IR), VIR, IrDA (IrCOMM), RS232 serial varied with different models.

2.3 Environment specifications

- Operation temperature: 0°C $\sim~40$ °C
- ullet Operation humidity: 20% $\,\sim\,$ 85%
- Storage temperature : -20 $^\circ C \sim 70 ^\circ C$
- \bullet Storage humidity: 5% $\,\sim\,$ 95%

2.4 Other specifications

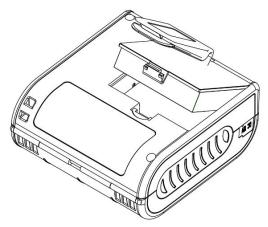
- Paper loading method: drop-in paper loading
- Black mark detection: available (More detail in 4.2 preprinting black mark specification).
- Paper end detection: when paper is out, the Mode indicator blinks.
- Print commands: ESC/POS compatible command set.
- Power supply: 1500mAh rechargeable polymer lithium battery.
- Low power alarm: when the battery power is low, the power indicator blinks and the buzzer rings 2 times to inform the user to charge printer.
- Battery full charge time: 2 to 4 hours.
- Battery duration: under 12.5% print density, at least 100 to 200 meters, under 25% print density, at least 80 to 100 meters, the standby time is over 15 days.



Chapter 3 Operation Methods

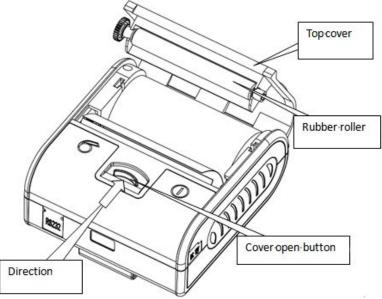
3.1 Preparation before using

3.1.1 Li-ion battery loading



- 1) Refer to the picture, put the battery in the battery slot, pls pay attention to the correct positive and negative.
- 2) Close the battery case.

3.1.2 Paper loading



Operation methods:

- 1) Pull to open the top cover.
- 2) Put the paper into the paper case, pay attention to the direction of the paper. If loaded reversely, it won't print.
- 3) Pull paper out of paper case.
- 4) Make sure paper in the center then close top cover.

3.2 Basic Function

3.2.1 Printer on

The printer is powered on by pressing the power button; the power indicator is on with red color whenever the printer is on.

Notice: when the battery is almost exhausted, the power indicator blinks with blue color, in this case, you must charge the battery by using the adapter. The method of charging the battery, please refer to 3.2.5.

3.2.2 Printer off

The printer is off after press the power button last for 2 seconds. All the indicators are off whenever the printer is off.

3.2.3 Self-test

The self-test checks the printer's current settings, status and whether the printer has any problem. Hold down the FEED button while press Power button about 3 seconds, the self-test begins. The printer is ready to receive data as soon as it completes the self-test.

3.2.4 Paper loading

When standby, press FEED button to start feeding, it will stop when feeding 50mm paper. User can change the feeding length according to software MPTTools in computer. Feeding length is 0mm, must press FEED button for continuous feeding, stop feeding once loosen button.

If there is the black mark (the detecting mark) recognized by printer on roll paper, printer will stop printing when meeting black mark. If feeding paper length is 0mm, feeding will not be effected by black marks.

3.2.5 Battery Charging

When li-ion battery runs out of power, blue LED indicator flash slowly and buzzer will give up warning. It will power off automatically when continues printing. If you want to go on, please charge it.

Charging method:

Plug in socket (220V, 50Hz) with power adapter.

Power-off charging: LED light will always indicate blue color and goes off when fully charged.

Power-on charging: LED light will keep blinking in blue color, and goes off when fully changed.

Printer could be in use when charging.

NOTES:

 Please use the manufacturers supplied battery and power adapter , otherwise cause to printer damage and battery leakage, light and/or explosion.



3.3 Interface and printing

3.3.1 Serial Interfaces

This model of printer uses DB-9 serial interface cable (one end is D model standard serial interface socket, connected to host computer, the other end is PS/2 socket, connected to printer)

3.3.2 Infrared ray (IR) & IrDA interface

MPT-III can be connected to your main device through IR, RAW-IR and IrDA can not be available at the same time. Reset the printer if it is not the model you want.

When printing through RAW-IR and IrDA, make infrared ray of main device right towards to infrared ray window of printer, distance should be less than 50mm (varies with main device), angel should be less than 30° .

3.4 LED indicator and Buzzer definition

There are one buzzer and two LED indicators to indicate the printer status. LED indicators indicate current status and buzzer indicates the changes of status.

LED indicator (blue)	LED indicator (red)	Status	Remarks
Flash quickly	Dark	Charging	Power-on charging
Continuously bright	Dark	Charging	Power-off charging
Flash slowly	Dark	Out of power	
Continuously bright	Dark	Charging end	Power-on charging end
Dark	Dark	Charging end	Power-off charging end
Dark	Bright continuously	Working	
Flash slowly	Flash slowly	Paper end	
Dark	Flash slowly	Standby	

Buzzer	Status
Once	Power on at normal conditions
Twice	Power off at normal conditions
Once	Press FEED KEY after power on
Once	Connect charger
Three times	Power-on charging end
Three times	Enter to the parameter setting mode
Three times	Download the Font library
Twice	Out of power (the printer will shut down automatically after buzzing)



3.5 The installation of printer driver 1. Double click"HPRTMPTPrinterDriver-v-1.0.1.2.exe" choose "English"and click "OK".

4	Select the language to use during the installation:		
	English		
	OK Cancel		
IPRT MPT-	II/MPT-III Printer Driver		
IPRT MPT-	II/MPT-III Printer Driver		

2. Click "Install".

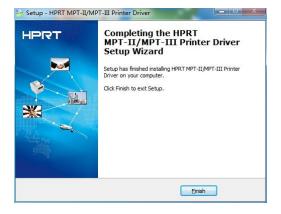
3. Choose the printer port and printer type you need and click "OK" to next step.

Setup Read Set

Setup - HPRT MPT-II/MPT-III Printer Driver	
Please wait while Setup installs HPRT MPT-II/MPT-III Printer Driver on you computer.	x 🕺
Print Port Select V1.3]
MODEL : MPT-III	
PORT: COM1:	
OK	
	Cancel

Install Cancel

4. Click "Finish" . A successful installation





Chapter 4 Other information

4.1 Printer technical manual

Pls refer to MPT-III technical manual.

4.2 Preprinted black mark specification

If user wants to locate receipt by detecting preprinted black mark, it shall accord to the following specification for the black mark, otherwise it may cause printer can't recognize the black mark. Printing position: black mark shall preprint at the left side of receipt.

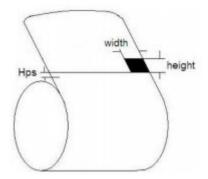
Width range: ≥7mm

Height: 4mm≤height≤6mm

Reflection rate to IR: <10% (reflection rate to the black mark on paper >65%)

Hps: Hps indicates the distance from down edge of detecting mark from beginning line.

0mm≤Hps≤1mm



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