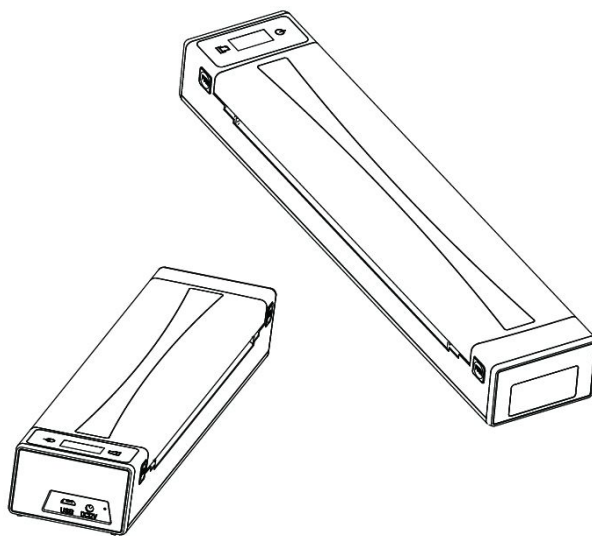

Mobile Thermal Transfer Printer

User Manual **MPT8/MPT8E**



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Printed in China

1.9 Version

Warnings :



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



This shows the important information and tips for the printer operating.

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MANUAL INFORMATION

This user manual contains basic information for product usage as well as for emergency measures that may be required.

※ The following separate manuals provide more detailed content on various technological issues and areas.

1.Windows Driver Manual

This manual provides information on the installation instructions and main functions of the Windows Driver.

2.Printer Utility Tool Manual

This manual provides information on the usage of software for function selection of this product, operating condition modification, etc.

3.Programming Manual

This manual provides information on label printer commands.

4.Bluetooth Manual

This manual describes how to connect terminals (PDAs, PCs, etc.) with Bluetooth functionality.

IMPORTANT SAFETY INSTRUCTIONS

In using the present appliance, please keep the following safety regulations in order to prevent any hazard or material damage.

1.Safety Precautions

- 1) Be sure to use the specified battery and power charger provided by our company,connection to an improper power charger 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 with Bluetooth interface, the communication distance should be within 10 meters, otherwise the printer doesn't print or prints rubbish codes.
- 5) Too high(40℃)or too low(0℃) 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.

3.Storage Precautions

- 1) The printer should be placed in such an environment that the temperature is between -20℃ and 60℃, 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 select long term effective thermal paper. (NOTE:thermal printer)
- 4) The print paper should be keep away from high temperature environment and point-blank sunshine.(NOTE:thermal printer)

4. Battery Safety Precautions

- 1) Ignore the following instructions may cause battery overheating, fire, explosion, damage and/or performance, and reduced product life.
- 2) 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.
- 3) 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.
- 4) 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.
- 5) 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.
- 6) 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.
- 7) 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.
- 8) 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.
- 9) 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.
- 10) 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.

5.Other Precautions

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6.WEEE (Waste Electrical and Electric Equipment)



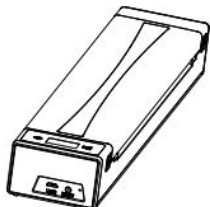
This mark shown on the product or its literature indicates that the corresponding item should not be discarded at the end of its working life with other household waste. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate marked items from other types of waste and recycle them responsibly to promote the sustained reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office for details of where and how they can conduct environmentally safe recycling of such items. Commercial users should contact their suppliers and check the terms and conditions of purchase contracts. This product should not be combined with other commercial waste for disposal.

Caution: This appliance is a Class A product, it might create radio interference in life. Under this condition, users could take effective measures to handle it.

CHAPTER 1 INTRODUCTION

1.1 Packing List

■ Standard Accessories



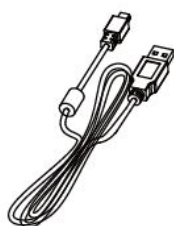
Printer



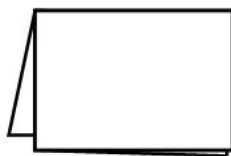
Power Adapter



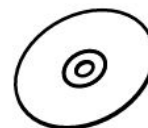
Power Cord



USB Cable



Quick Start Guide



CD

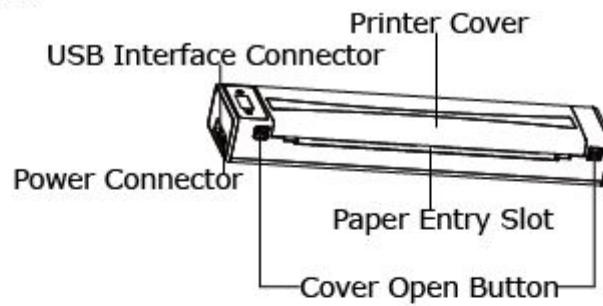


Ribbon

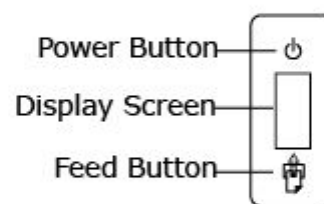
Note: the AC Adapter and Power Cord vary by local or region.

1.2 Appearance and Component

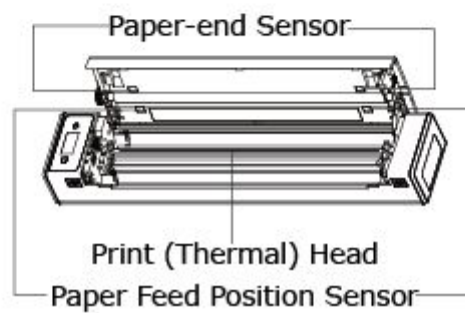
■ Front



■ Control Panel



■ Insight



■ Touch Type Buttons

1) 【Power】 Button Function Description

① Power on function

Long touch 【POWER】 button, printer will power on.

② Get into the menu mode function

When printer is already powered on, long touch the 【POWER】 button to enter main menu.

③ Select function

After entering menu mode, Short touch【POWER】button to switch/scroll to different menus or numbers(0~9).

④ Return function

After entering menu mode,long touch 【POWER】 button can cancel the current sub-menu setting and return to last level menu.After returning to the last level menu,long touch 【POWER】 button can exit menu mode and return to icon interface.

2) 【FEED】 Button Function Description

① Feed paper function

Printer will feed paper when the 【FEED】 button is touched down under normal condition.

② Confirm function

After entering menu mode,select menu items by touching 【POWER】 button and ensure enter the menu item by touching 【FEED】 button.

③ Move cursor function

After entering menu mode,move cursor by touching 【FEED】 button.Then enter number by touching 【POWER】 button.

3) Display Screen

Display menus and icons.

4) Cover Open Button

You can open cover by touching the left and right buttons simultaneously.

5) Paper Out Detection Sensor

To detect if paper is existing or not.

6) Paper Feed Positioning Detection Sensor

The two paper feed positioning detection sensors work together to detect if paper feed in parallel.

CHAPTER 2 SPECIFICATION

Table 2-1 General Specification

(1/2)

Type		MPT8	MPT8E
Item		Parameter	
Printing Parameter	Print Method	Thermal-transfer (standard), Direct thermal (optional)	
	Resolution	203dpi (8dots/mm)	305dpi (12dots/mm)
	Printing Width	198mm	
	Print Speed	Max.20mm/s	
	Interface	USB, Bluetooth	
	Darkness	Adjustable from level 0 to level 4	
Power Saving	Sleep Mode	YES	
Memory	RAM	16Mb	
	Flash	32Mb	
Fonts	Alphanumeric	ASC II 12×24	36 dot matrix of non-monospace font
	Chinese	GBK 24×24	GBK 36×36
	User-defined	YES	
	Code Page	46	
Graphics		Support varied density bitmap as and download bitmap printing. Max size of each bitmap is 40K, the total size of bitmap is 128k.	
Barcode	1D	UPC-A、UPC-E、EAN8、EAN13、CODE39、ITF、CODEBAR、CODE128、CODE93	
Detection	Sensors	Paper out detection, paper feed positioning detection, cover open detection, ribbon detection, TPH temperature detection.	
Power supply	Power Adapter	12V $\overline{\text{---}}$ 1.5A(External power adapter)	
	Battery	2800mAh 7.4V rechargeable Li-ion battery	
Paper	Type	A4 copy paper, thermal fax paper(optional)	
	Width	210mm	
	Thickness	0.06~0.09mm	
	Load	Automatic feed(A4 paper)	

Table 2-1 (Continued)

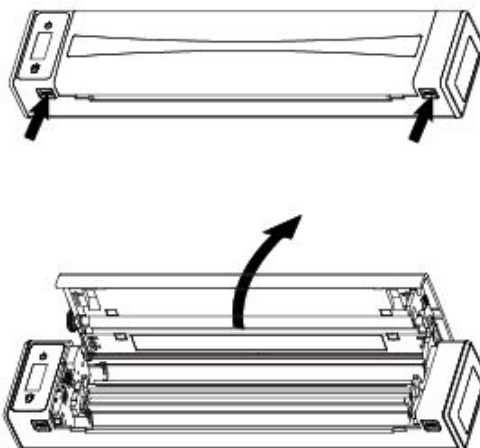
(2/2)

Item		Parameter
Ribbons		Max. Diameter $\leq \phi 14.5\text{mm}$
Physical Specification	Operating Condition	0℃～40℃， 20%～85%RH
	Storage Condition	-20℃～60℃， 5%～95%RH
	Dimensions	310.5(L)×63(W)×38.5(H)mm
	Weight	797.5g(include ribbon)
Accessories		USB cable, serial cable
Software	Emulation	ESC/POS
	Driver	Windows XP/Vista/7/8/10
	SDK	WinCE, Win Mobile, Android, iOS

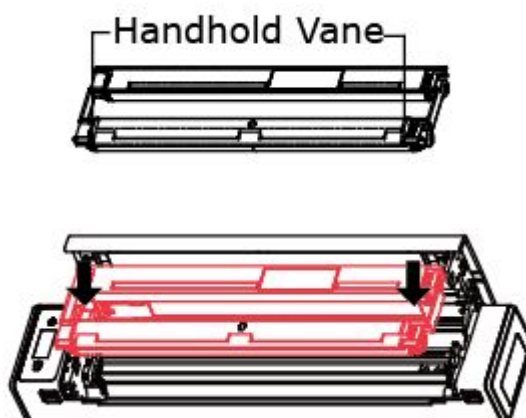
CHAPTER 3 INSTALLATION & USAGE

3.1 Ribbon Loading

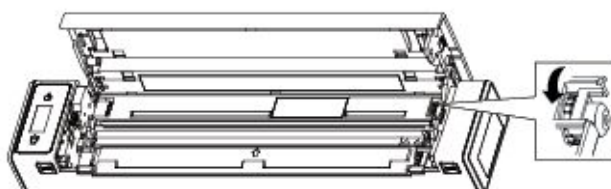
1. Press the left and right cover open buttons with both hands simultaneously and lift the printer cover.



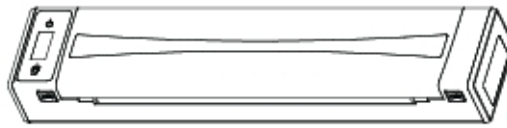
2. Hold the left and right ribbon's handhold vanes, then insert the ribbon as shown and push the ribbon down until it clicks.



3. Rewind the ribbon feed mechanism to make it smooth.

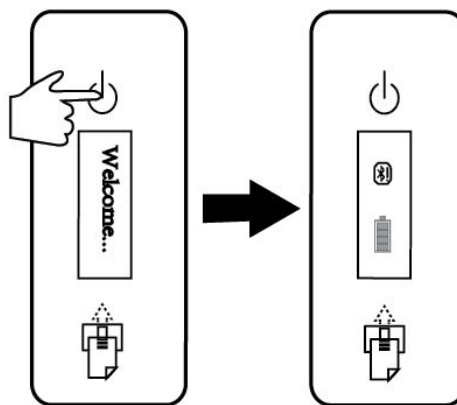


4. Close the printer cover.

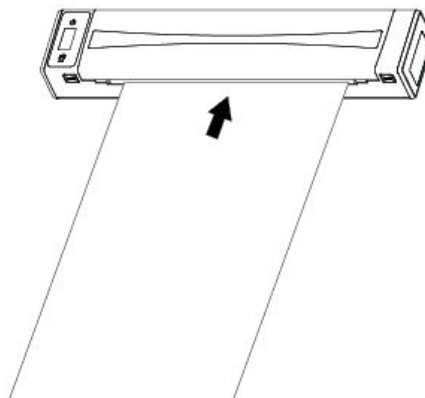


3.2 Loading Media

1. Make sure the ribbon is properly loaded and the cover of the printer is closed.
2. Turn the printer power on.
Long touch power button for about 2 seconds.



3. Put the paper into the paper entry slot in parallel.
Printer will feed a distance automatically after it detect the paper.
A buzzer will sound once when a paper is successfully loaded, otherwise the operation is wrong.



3.3 Removing Media

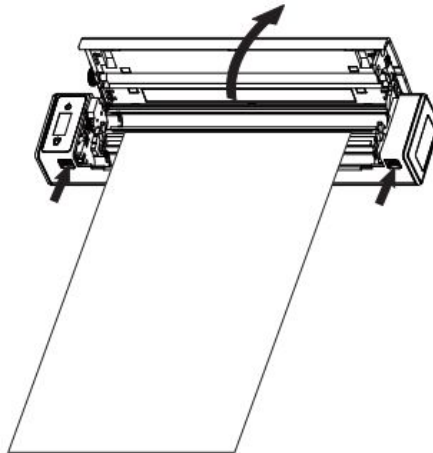


Caution:

Do not under any circumstances pull the paper out forcefully while the printer cover is closed, otherwise may cause damage.

Please remove the paper according to follow steps:

1. Open the printer cover.
2. Pull the media out of printer in either direction.
3. Close the printer cover.
4. Insert a new sheet of media and print again.



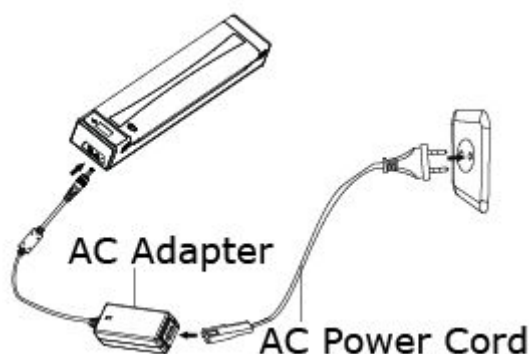
3.4 Battery Charging

Printer's battery is rechargeable Li-polymer battery. Although printer use automatic sleep and automatically wake up technology to save power, please turn the power off after using it. It's the best way to save power.

After a certain time, battery will run out. Then printer should be charged otherwise the printer will not be able to work normally.

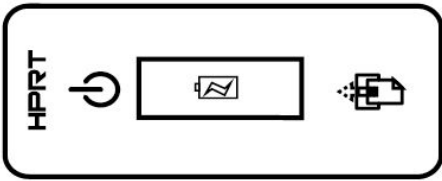
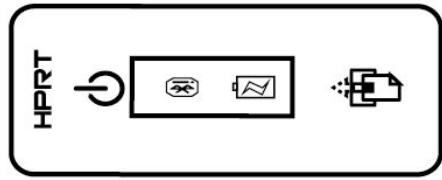
When Li-polymer battery runs out of power, battery icon on LED screen will blink LED indicator flash. It will power off automatically when continues printing. After that alarm signal, printer can still work for a while, but can't ensure the work time. If you want to go on, please charge it in time.

Please connect the power supply according to follow steps:



1. Connect the power cord to the adapter.
2. Connect the adapter to the power connector of the printer.
3. Plug the power cord into a power outlet.

NOTE: Battery charging status shown as follows:

Display Screen	Sate of Charge
	Power-off charging
	Power-on charging

NOTE: Please use the manufacturers power charger, otherwise cause printer damage and danger our company will not take any responsibility.

WARNING: If battery is not in use for a long time, please remove it after fully charged, and then it should be recharged every 3 months, when power is low, battery should be charged in time. If the printer automatically power down because of low power, be sure to charge the battery in 45 days. Otherwise, it will cause permanent damage to the battery.

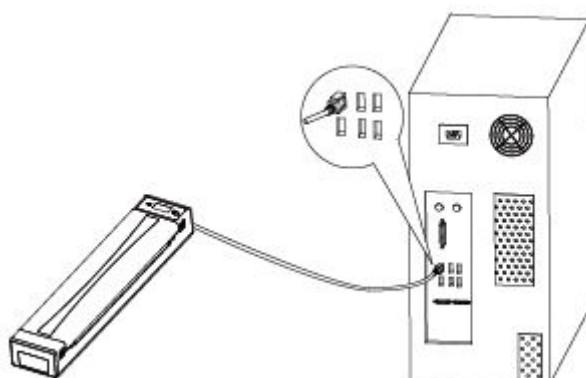
3.5 Peripheral Connection

3.5.1 USB Connection

Connection interface cable as below.

Our printer support communication interface standard as below.

--Micro USB cable



3.5.2 Bluetooth Connection

PDA with Bluetooth interface, laptop and other information terminals can drive the mobile thermal printer MPT8/MPT8E.

Instructions as follows:

1. Power on printer.
2. Main device search for outer Bluetooth devices.
3. If there are some outer Bluetooth devices, select MPT8/MPT8E.
4. Enter password "0000".
5. Finish matching.

Detailed pairing methods, please refer to main devices Bluetooth Names.



Note: In pairing, mobile thermal printer MPT8/MPT8E must be turn on.



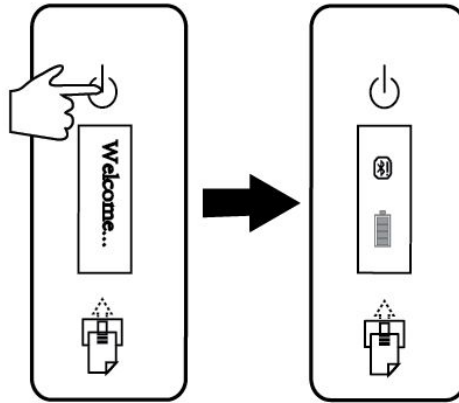
Note: When pairing, do not set many printers on, otherwise it can't figure out which one succeeds in pairing.

After pairing, main devices with virtual Bluetooth interface (SMARTPHONE, POCKET PC, PALM, NOTEBOOK) can drive mobile thermal printer MPT8/MPT8E to printer through such virtual Bluetooth interface.

3.6 Basic Function

3.6.1 Power On

Long touch POWER button, then release the button, printer will power on with below indications.

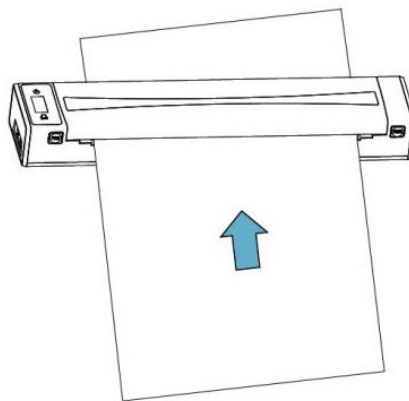



3.6.2 Power Off

When printer is power on, long touch POWER button to enter menu mode, then enter first level menu by long touch FEED button. Touch POWER button to select "power off" option in first level menu, and touch FEED button until the screen is dark.

3.6.3 Feed Paper

Turn on the printer. Put the paper into the paper mouth in parallel. Printer will feed a distance automatically after it detect the paper. After that if you hear a beep from buzzer, this suggests that the position is correct and printer is ready to print, otherwise the operation is wrong.



 After the paper located, if you want to take out paper, please press the left and right PUSH buttons simultaneously, then open the cover. Don't take out paper forcibly, otherwise it may cause damage. (Refer to 3.3 Removing Media)

3.6.4 Self Test

Enter menu mode↻secondary menu↻Load Paper and Test, more details in 3.7 menu Operation.

Look for Bluetooth setting, printer character and other information from self-test.


3.6.5 Hibernation

To save power and prolong use time, MPT8/MPT8E use automatic sleep and automatically wake up technology. After turning on the printer, if there are not any operations in standby time, printer will enter standby mode and you can hear a beep from buzzer then screen extinct. If there are not any operations in sleep time, printer will power off automatically.

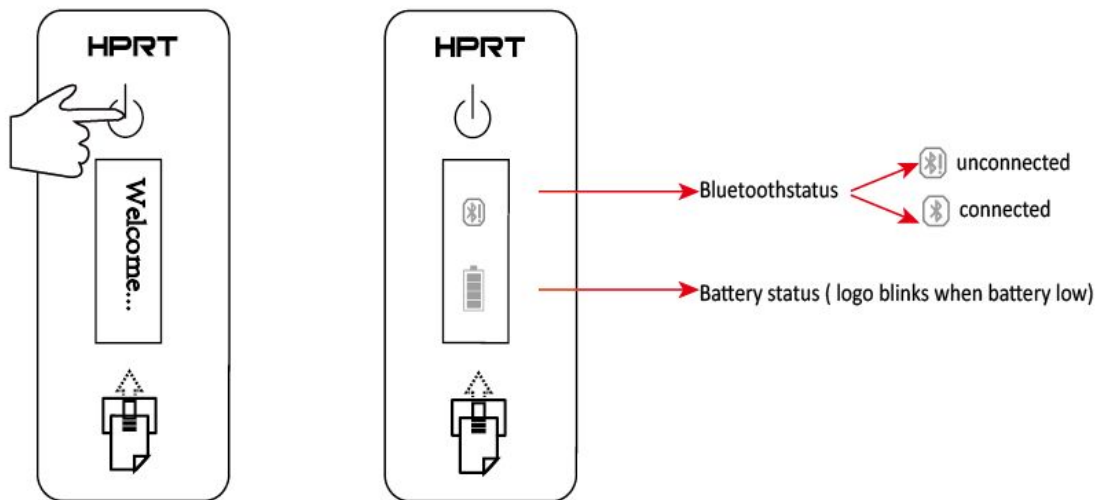
After printer entering into standby mode, power consumption will greatly reduce and don't have any influence on the use. Printer will wake up automatically when it receive data and don't need manual intervention.

3.7 Menu Operation

Main Menu	Second Level Menu	Third Level Menu	Description
Power-Off	--	--	Press and hold the FEED button, printer will power off.
Self Test	Load Paper and Test	--	Press the FEED button and then you can print self-test.
Setting	Darkness	Darkness: 2	Press the POWER button and you can change the data bit setting, press the FEED button to confirm.
	Bluetooth PIN	Bluetooth Password: 0000	Press the FEED button to move cursor and press the POWER button you can change the data bit setting, press the POWER button to confirm
	Bluetooth ID	--	Press FEED button show Bluetooth ID is 8C: DE: 52: 90: 6C: 04 (Different from printers).
	Standby Timer	Standby (min): 0002	Press the FEED button to move cursor and press the POWER button you can change the data bit setting, hold the Feed button to confirm.
	Paper Type	Paper Type 0-Fax 1-A4 1	Press the POWER button you can change the data bit setting, press the FEED button to confirm.
	Language	Select language 0-EN 1-CH 1	Press the POWER button you can change the data bit setting, press the FEED button to confirm.
	Reset to DEF	Apply? 0-N 1-Y 0	Press the POWER button you can change the data bit setting, press the FEED button to confirm.
	Back		Press the FEED button you can go back to main menu.
Factory Mode	Factory setting items.		
Exit	Press the FEED button you go back to icon menu.		

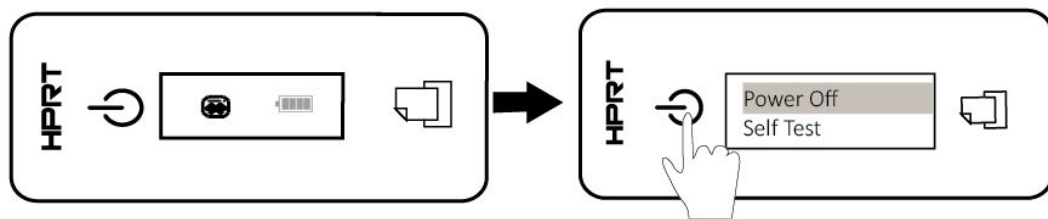
 **NOTE:** When you enter the menu mode, whatever the location, you can press and hold POWER button to cancel the current configuration and go to next higher level. If you press and hold POWER button you can exit menu mode and go back to icon menu.

1. Long touch POWER button, printer will power on with below indications.

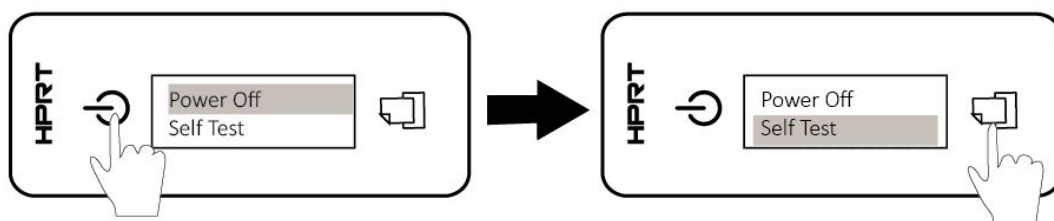


2. When the printer is off, press and hold the POWER button to menu mode then release the button the display screen will show main menu:

(main menu include 5 items: Power Off, Self Test, Setting, Factory Mode, Back)



3. Press the POWER button once to select main item, press the FEED button again to confirm .



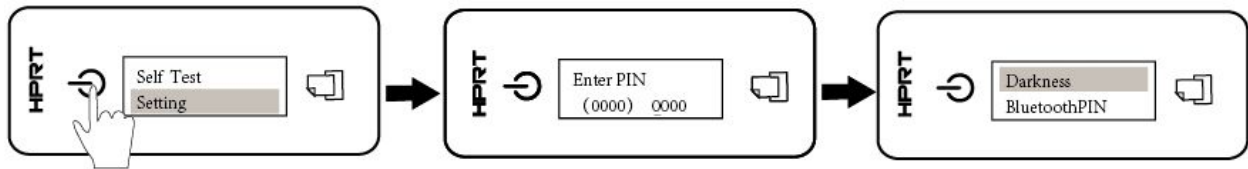
1) When you select the “**Power Off**” of the first level menu, press the FEED button to confirm ,the printer will power off.

2) When you select the “**Back**” of the first level menu, press the FEED button to confirm, the printer will exit menu mode, go back to icon mode.

3) When you select the “**Setting**” of the first level menu, press the FEED button to confirm, the printer’s display screen will show “Please enter password:(XXXX) XXXX”, you can go to the second level menu after you enter the tip password (XXXX).

4) When you select the **"Self Test"** of the first level menu, press the FEED button to confirm, the printer's display screen will show "Please put the paper", if the printer detect the paper it will show "Please press confirm button to print", after that press FEED button that the printer will print self-test page.

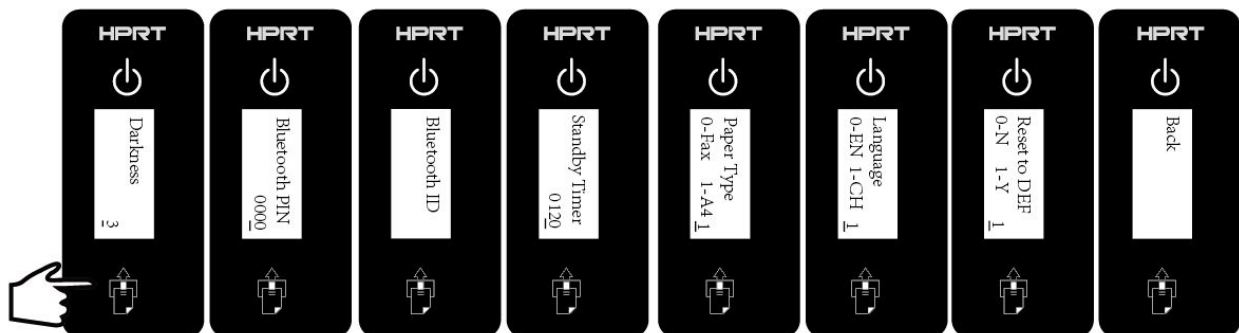
(System menu' sub-menu include 8 items: Darkness, Bluetooth PIN, Bluetooth ID, Standby Timer , Paper Type, Language, Reset to DEF, Back)



Enter password method:

Press FEED button to move the cursor (" _"), when cursor is in position, press POWER button to select number from 0 to 9. After inputting tip password (XXXX), press and hold the FEED button go to the second level menu.

When enter the second level menu of "System Menu", display screen show as below:



(Fax-thermal paper; A4-regular A4 paper; EN-English; CH-Chinese; N-no; Y=yes)

You can press POWER button once to select items of the second menu level, and press FEED button once to enter that item. Use POWER button to move cursor, and press POWER button to select number. Press the FEED button to save and back to second menu level.

① When you select **"Darkness"** item, press the POWER button and you can change the data bit setting from 0~9, press the FEED button to save and exit.

② When you select **"Bluetooth PIN"** item, press the POWER button and you can change the data bit setting from 0~9, press the FEED button to save and exit.

③ When you select **"Bluetooth ID"** item, press FEED button show Bluetooth ID.

④ When you select "**Standby Timer**" item, press the FEED button to move cursor and press the POWER button you can change the data bit setting from 0 to 9, press the FEED button to save and exit.

⑤ When you select "**Paper Type**" item, 0 means Fax , 1 means A4(or A4 copy paper), press the POWER button you can change the data bit setting, press the FEED button to save and exit.

Switch of MPT8/MPT8E's thermal print and A4 print

Switching mode:Menu—Setting—Paper Type—A4/Fax(thermal paper)

The difference between two ways:

1. A4 Mode with Paper deflection detection, every time feed paper from paper mouth make sure the cover is closed. Fax Mode without Paper deflection detection,you can feed paper directly then closed the cover.
2. Under the Fax Mode ribbon motor can't be started, this mode without Carbon ribbon detection.
3. Under two modes 0x0c's command is different: A4 Mode mean let the paper out of the printer; Fax Mode mean feeding 20 mm.

⑥ When you select "**Language**" item(Only menu language), 0 means EN (English), 1 means CH(Chinese), press the POWER button you can change the data bit setting, press the FEED button to save and exit.

⑦ When you select "**Reset Factory Mode**" item, 0 means No, 1 means Yes. Press the POWER button you can change the data bit setting, press the FEED button to confirm and exit.

⑧ When you select "**Back**" item, press the FEED button you can go back to main menu.

4. When you select the "Factory settings" of the main menu you will go to factory setting items.











5. When you finished the parameter settings of the second level menu, select "Back". After back to main menu, you can select "Back" or long press POWER button to go to icon mode.

3.8 Buzzer Description

 **NOTE:** After entering menu mode, all alarm sound from buzzer is closed, buzzer is used to remind key operation.

Buzzer		Description
Long	Short	
-	1	Keys operation
-	1	Power on
	1	Cover open
-	1	Power off
-	1	Limit switch position is correct/Automatically feed
-	2	Enter Standby mode

3.9 Icon Description

Icon	Description	Icon	Description	Icon	Description	Icon	Description
	Unconnected Bluetooth		Paper out		Charging		Thermal.Transfer Ribbons(NOTE:Reserved)
	Connected Bluetooth		Two bars of battery		Power button		Icon flashing Low battery
	Full four bars of battery		Feed button				

3.10 Test Print

3.10.1 Print Self Test

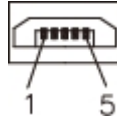
The self-test Program can be useful in identifying your printer's configuration and to ensure that your printer is working properly, it also can be used during the initial install. (For more detail, Please refer to 3.6.4 Self Test)

3.10.2 Print by Using Windows Driver Program

1. Installing Windows driver program. Please refer to the <Windows driver program manual> of CD to understanding the install program.
2. Setting window driver program's port as used port.
3. Using window driver program's function to print the test page.

CHAPTER 4 INTERFACE

4.1 USB Interface



Pin No.	Signal Name
1	VBUS
2	D-
3	D+
4	ID
5	GND

CHAPTER 5 CLEAN PRINTER

5.1 Cleaning Head

Printing quality might be degraded by dust, foreign substance, adhesive substance, or other pollution materials stuck in the printer head or inside the printer.

When dirty, clean the print head as follows:

※NOTE:

1. Make sure to turn the printer power off prior to cleaning.
2. Open the paper cover and ribbon assembly, and remove the paper and ribbon.
3. As the print head gets very hot during printing, if intending to clean the print head, turn the printer power off and wait approximately 2~3 minute before commencement.
4. Use the cleaning pen to clean the head. When cleaning the print head, take care not to touch the heated portion of the print head. Printer Head is susceptible to damage from static electricity, etc.
5. Take care not to allow the print head to become scratched and/or damaged in any way.

5.2 Cleaning Sensor, Platen and Paper Path

※ Clean the parts when there is a degradation of performance in printing quality or paper detection.

- 1) Open the paper cover and ribbon assembly, and remove the paper and ribbon.
- 2) Remove any dust or foreign substance using dry cloth or cotton swab.
- 3) Soak the cloth or cotton swab in alcohol for medical use and use it to remove adhesive foreign substances or other pollution materials.
- 4) After cleaning the parts, do not use the printer until the alcohol evaporates completely (1~2 min) and the printer has completely dried.