80MM Thermal Receipt Printer
User Manual

Please read this manual carefully before using it, and keep it for future reference.

80MM Thermal Receipt Printer User Manual

About this manual

Thank you for your purchase of our company's 80MM thermal printer.

This manual can help you learn to use this product. Please read this manual before use, and safekeeping, so that all the use of this product can read it.

Note

Due to our constant efforts to improve and upgrade the product's function and performance, our company reserves the right to change the hardware and software specifications in the manual without prior notice.

If you find any errors or missions in the contents of this manual, please tell us or our agent, thank you very much.

Without the prior written permission of our company, the contents of the relevant manual attached to the product shall not be reproduced, transmitted, transcribed, stored, etc.

Statement

This product is type A product, may cause the radio interference in the living environment, in this case, the user need to protect the interference with effective protection measures.

Safety tips

●Do not disassemble the printer personally, Please read this manual before use.

●The printer should be installed in a solid place to avoid vibration or impact damage to the printer.

●Do not store and use the printer in the environment of high temperature, high humidity, and heavy pollution.

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●The power adapter of the printer should be connected to the grounding socket, should be avoided to connected to the same socket with large motor or other can lead to voltage fluctuation equipments, or may lead abnormal to printer and even damage to the printer.

●Please use the standard power adapter to the printer.

●When plug connection line, please make sure the printer power is closed.

●When the printer is printing, please do not open the paper cover, otherwise it may cause unexpected situation, and even damage the printer.

●After printing, print head is still at high temperature, Please do not touch, to avoid burn.

●Please do not use dissolved substances, such as: benzene, thinner or alcohol wipe to clean the printer casing. At the same time, please do not use corrosive chemicals and detergent to contact printer. To avoid damage to the printer.

●Please use our company approved or regular factory produced printing paper, otherwise it may lead to poor print quality, and even damage the printer core.

●Thermal printing paper printing letter save time is related to thermal printing paper quality, if you want to print the long-term preservation bills, please choose a long-term thermal paper.

●The printer is only suitable for using in the altitude below 2000M.

●The printer is only suitable for use in non tropical climates.

Application Area:

●Electronic cash register POS system printing

●Electronic transfer system printing

●Sports, postal, civil aviation bill printing

●Query, service system bill printing

●Catering industry bill printing

●Tax bill printing

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Package:

- ●Printer   1PC
- ●Standard power adapter (including power line)   1SET
- ●Paper roll   1ROLL
- ●Data line   1PC
- ●User manual   1PC
- ●Driver CD   1PC

Printer Features：

- ●300 mm / second ultra high-speed printing, improve the printing efficiency
- ●Excellent waterproof, anti - oil, anti-dust structure design
- ●Support wall hanging function, meet the special environment printing
- ●Movable baffle design, support 80MM, 58MM different width of the paper roll printing
- ●Support 80MM large diameter roll
- ●Support kitchen printing and Internet printing
- ●Support printer monitoring function, to avoid losing bills
- ●Using 100M Ethernet, connect printer faster, to avoid losing bills
- ●Recover printing after netwok disconnection,to avoid losing bills
- ●2048K super input buffer,to avoid losing bills
- ●Support LOGO Graphical download and print
- ●Support 1D,2D bar code printing
- ●Support order come remind and error alarm
- ●Support Multi language printing
- ●Optional Rich interface:
  USB,Internet(100M),COM,WIFI,Bluetooth(Optional combination)
- ●Compatible with ESC/POS print instruction mode
- ●Support Windows, Linux, Android and IOS system printing

Printer Parameters:

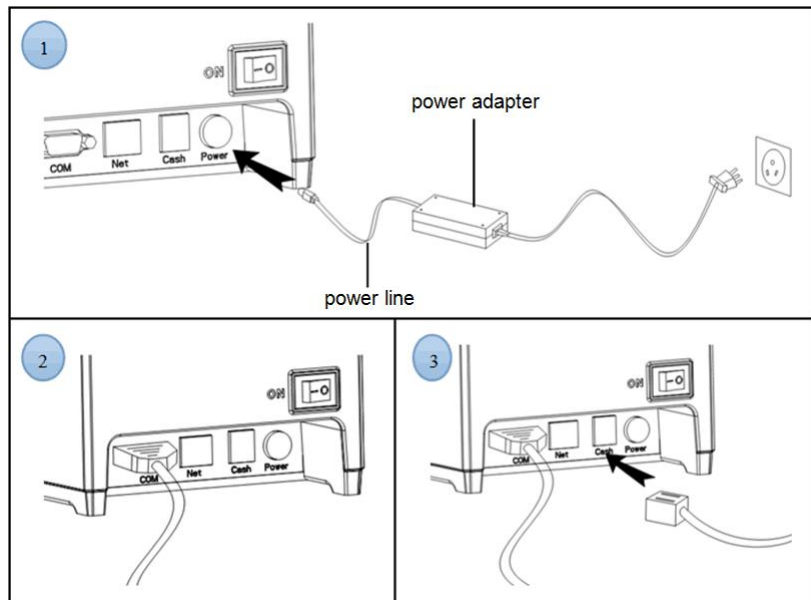| Item		Parameters
Print parameters	Printing Method	Thermal Line
	Printing width	72mm
	Resolution	576/512 Dots/Line (8dots/mm,203dpi)
	Print speed	300mm/Second
	Interface Optional	USB,COM,Ethernet(100M),WIFI,Bluetooth(Optional combination)
	Line Spacing	3.75mm （Can adjust line spacing by command）
	Line No.	FontA-48Lines FontB-64Lines Simple or traditional Chinese-24 lines
	Character	Standard GB18030 simplified / traditional Chinese Fonts
	Character Size	ANK character, Font A:1.5×3.0mm（12×24 dots）; Font B:1.1×2.1mm(9×17dots) Simplified/Traditional Chinese 3.0×3.0mm(24×24 dots)
Barcode Character	Extended character set	PC437,Katakana,PC850,PC860,PC863, PC865,West europe,Greek,Hebrew, East Europe, Iran,WPC1252,PC866, PC852,PC858,IranII,Latvian,Arabic,PT1 51,1251,PC737,WPC,1257,Thai, Vietnam,PC864,PC1001,(Latvian),(PC1 001),(PT151,1251),(WPC1257), (PC864), (Vietnam),(Thai)

	Bar code	1D bar code：UPC-A/UPC-E/JAN13(EAN13)/JAN8(EAN8)/CODE39/ITF/CODABAR/CODE93/CODE128 2D barcode：QRCODE
Graphics printing	Graphics printing	Supports bitmap download and print
Cutter	Cutter Function	Full cut/Half cut
Paper	Type	Thermal
	Width	79.5±0.5mm
	Diameter	≤80mm
	Feed method	Easy feed(Clameshell feed)
Print commands	Commands	ESC/POS
Power	Power Adaptor	Input：AC 100V-240V,50～60Hz Output：DC 24V/2.5A
	Cash Drawer output	DC 24V/1A
Buffer	Input Buffer	2048K bytes
	NV Flash	256K bytes
physical characteristics	Weight	1.2KG
	Dimension	186*145*133(MM)
Environment	Working	Temp:5~45℃,Humidity:10~80%
	Storage	Temp:-10~50 ℃ ,Humidity:10~90%(No dew)
Reliability parameter	Print Head Life	100KM（print density≤12.5）
	Cutter Life	1000,000times
Software	Supported System	Android,IOS,Linux,Win2000,Win2003,WinXP,Win7,Win8,Win8.1,Win10

Printer connection:

1 connect the power adapter cable to the printer power supply interface.

2 connect the data cable to the printer's interface.

3 the cashier drawer cable connected with printer interface .
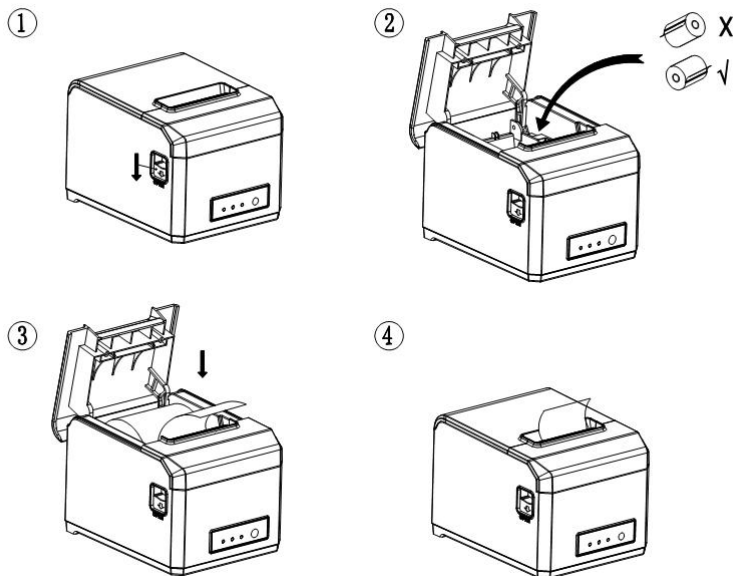

Install the print paper

80MM series thermal printer using 58MM thermal paper, using easy paper structure, convenient to install paper.

1 Pressing down the cover open button, open the printer cover

2 Put thermal print paper in the paper holder according to the pic below

3 Pull a little paper out of the warehouse

4 tear excess printing paper

Note: take care of the roll direction, if reverse direction, the content won't be print out.

Switch, key name, indicator and function
1 power switch

The switch can turned on and off the printer power supply.

2 (feed) key (FEED)

Press the button can feed, if keep on press this button will continued to feed.

3 (short paper) light (Paper)

This indicator and the Error lamp flashing at the same time indicates that the printer is short of paper, this indicator and the Error lamp off means the printer has paper.

4 (power) lamp (power)

The indicator light on indicates that the printer is connected to the power supply, this light off indicates that the printer power is off.

5 (error) light (Error)

When the printer is missing paper, print head overheating, the lid is not closed well etc., the indicator lights will flashing.
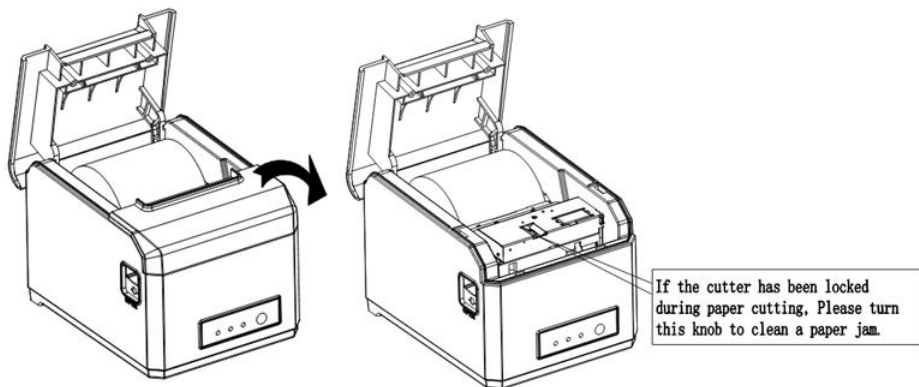
Self test

Printer self-test method is as follow: when the printer connected to the power adapter, press (feed) key and open the printer power at the same time, released the button key after approximately 3-5 seconds, printers will print a self test page.

Cutter stuck maintenance

Solution 1:Press the power switch to turn off the printer power, restart, let the cutter back.

Solution 2:Open the printer cover, rotating the printing head cutting knife gear, let the cutter return to its initial position, open the cover and install paper roll then can print normally.

If the cutter has been locked during paper cutting, Please turn this knob to clean a paper jam.

Note: do not force open the cover,as to avoid unrecoverable damage to the print head and the cutter.

Printer driver

80MM series thermal printer driver mode has two kinds, one is using the port for directly drive printing, one is in stall driver in Windows system to print.

1.port direct drive

In this way, do not need to install the driver, only need to output the character (instructions and data) directly to a port, and to achieve character conversion of print by internal printer hard character library , using port directly drive, make the print control more convenient.
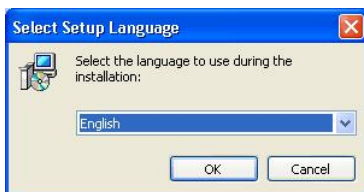
If you use port direct drive mode, you need to use the print command set to control the printer's printing, 58MM series thermal printer has been integrated within the ESC/POS instruction set.

2.Install driver in windows system

To install the driver in CD in windows, you only need to call the driver in the program to achieved print. In this way, in fact there is a Windows driver to turn the character into a graphic dot matrix way to print.
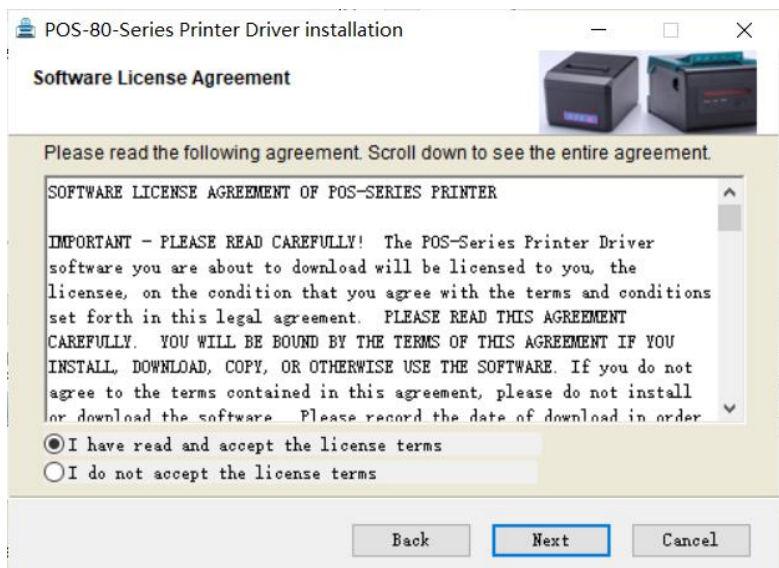
Windows driver installation steps and instructions:

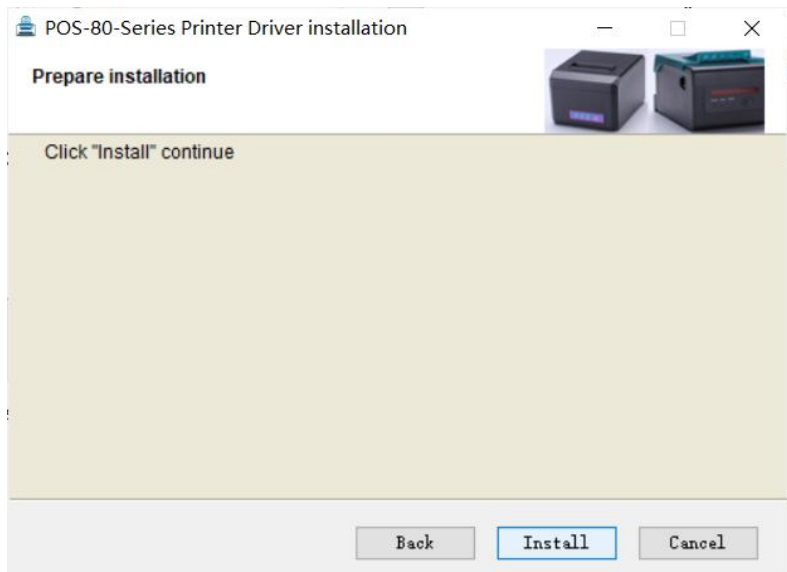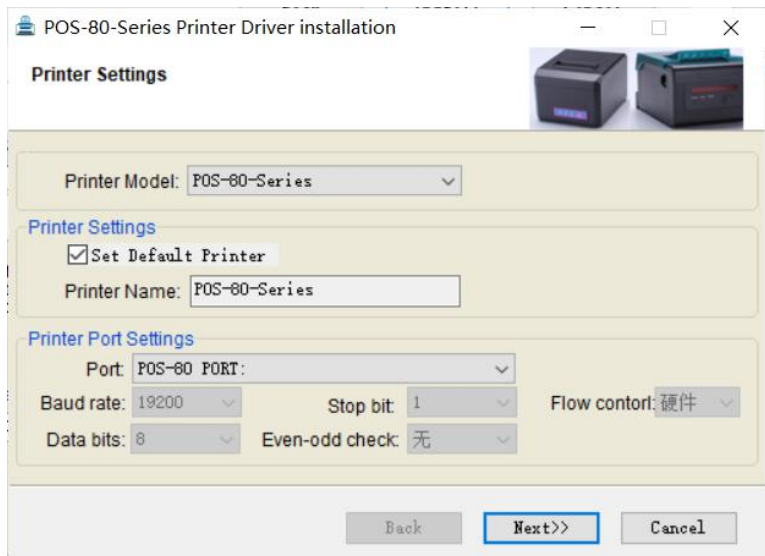2.1 Double click the driver setup POS-80-Series.exe , click "ok"

2.2 Click the "next"
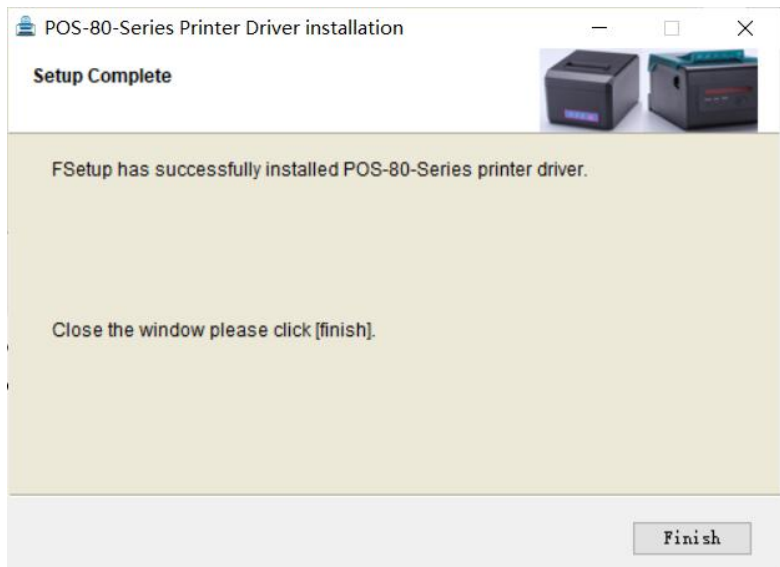
2.3 Select "I accept this Agreement", click "next"

2.4 Click "install"

2.5 Select the corresponding port(if you want to use with USB, you can choose the default port) and click "Next"

2.6 Click "Finish" to complete the driver installation

Printer Repair and maintenance

1. printer external and warehouse cleaning: please use a wet cloth gently wipe the printer surface and internal paper warehouse.

2. Printer core clean: printer core must be clean on time, especially the quality of printing is decline, cleaning methods are as follows: put cotton dipped in anhydrous alcohol and gently wipe the printer core ceramic parts as shown in the picture below until clean enough.

3.If find water inside printer, Please immediately disconnect the printer power, and dry the printer naturally.

Failure Analysis:

Failure phenomenon	Failure cause	Solution
Printer paper and Error indicator flashing at same time,and make a Di... beep sound	Printer lack of paper	Install paper correctly
Printer error flashing and make a Di...beep sound	1.The printer head is too hot 2. The flip not closed well	1.Open the cover and dissipate heat fully then go on printing. 2. Cover the flip well
When the printer prints only paper run but not print	Print paper install reverse	Please install the print paper for a opposite direction
The printer print fuzzy	The print head not clean for a long time	Put cotton dipped in anhydrous alcohol and gently wipe the printer core ceramic parts until clean enough
	The character colour in thermal paper no good	Please choose high quality thermal paper
There is no response of printer	The power adaptor not connected	Please check power adaptor is connected well or not,power switch is turn on or not
Printer can self test, but can not print online	Driver port selection error	Please select the correct print driver port based on the actual connection port
Printer serial port does not print or print garbled	Bit rate slection error	Please set the COM baud rate accoridng to the COM info on self page