
Desktop POS Printer

PPTII-A User Manual



Xiamen Hanin Electronic Technology Co.Ltd.

ADD: Room 305A, Angye Building, Pioneering Park,
Torch High-tech Zone, Xiamen, China 361009

Tel. : +86-(0)592-5885993

Fax: +86-(0)592-5885992

Web: www.hpirt.com

STATEMENT

This manual content may be altered without permission, and Xiamen Hanin Electronic Technology Co., Ltd. reserves the rights to make changes without notice in technology, spare parts, hardware and software of the products. If more information is needed about the products, please contact Xiamen Hanin Electronic Technology Co., Ltd. Without any written permission from the company, any section of this manual is prohibited to be copied or transferred in any form.

Copyright

This manual is printed in 2014, the copyright belongs to Xiamen Hanin Electronic Technology Co. Ltd.

Printed in China

1.1 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.

CONTENTS

STATEMENT.....	1
IMPORTANT SAFETY INSTRUCTIONS.....	3
CHAPTER1. INTRODUCTION.....	4
1.1 POS Printer Packing.....	4
1.2 Printer Components.....	5
1.3 Definition of the LED indicator.....	6
CHAPTER 2 SPECIFICATION.....	7
CHAPTER 3 OPERATION METHODS.....	9
3.1 Paper Installation.....	9
3.2 Functions use.....	9
3.2.1 Power on.....	9
3.2.2 Power off.....	9
3.2.3 Self-test.....	9
3.2.4 Paper feeding.....	10
3.2.5 Paper tearing.....	10
CHAPTER 4 PRINTER INTERFACE.....	11
4.1 RS-232 serial interface.....	11
4.1.1 Connecting RS232 interface cable.....	11
4.1.2 RS-232 serial interface.....	11
4.2 USB interface.....	11
4.2.1 Connecting USB interface cable.....	11
4.2.2 USB interface.....	12
4.3 Cash Drawer interface.....	12
4.3.1 Connecting the Cash Drawer.....	12
4.3.2 Cash Drawer interface.....	12
4.4 Power interface.....	13
4.4.1 Connecting the Power Adapter.....	13
4.4.2 Power interface.....	13
4.5 Parallel interface.....	13
4.5.1 Connecting parallel interface cable.....	13
4.5.2 Parallel interface.....	14

IMPORTANT SAFETY INSTRUCTIONS

■ **Safety warning**

- Warnings: The print head will become very hot during printing; avoid contact with the print head after printing has finished.
- Warnings: Do not touch the printer head and connector in case static damage the printer head.

■ **Instructions**

Read the following instructions thoroughly before starting up your printer.

- Place the printer on a solid and even base so that it cannot fall.
- Leave enough space around printer for operation and maintenance.
- Keep all liquids away from the printer.
- Do not expose the printer to high temperatures, direct sunlight or dust.
- Protect the printer from shock, impact and vibration.
- Ensure the printer is connected to a socket with the correct mains voltage.
- Switch off the printer power supply when won't use it for a long time.
- Do not printing when there is no paper, or it will damage printer head.
- To ensure the printing quality and reliability, suggest use the same quality or recommend paper supplier.
- Pls switch off the power supply when connect/disconnect all the ports or it will cause damage to the printer control circuit.
- Never carry out maintenance or repair work yourself. Always contact a qualified service technician.
- Keep this Operator's Manual in a place which is easily accessible at all times.

CHAPTER1. INTRODUCTION

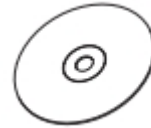
1.1 POS Printer Packing



Power Adapter



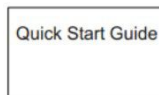
Power Line



CD



Paper Roll



Quick Start Guide



PPTII-A

Depending on the model



USB Cable



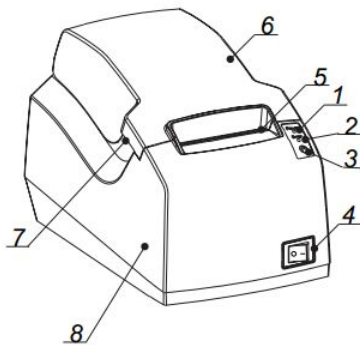
Parallel Cable



Serial cable

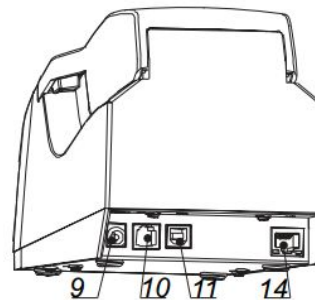
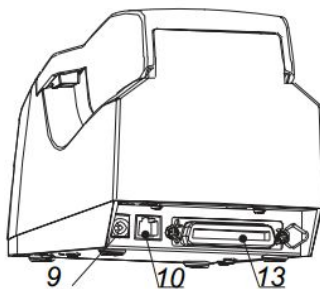
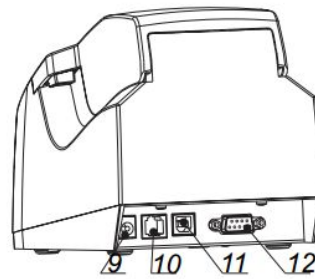
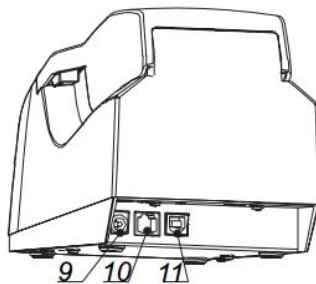
1.2 Printer Components

■ Front



- 1. Power indicator
- 2. Error indicator
- 3. [FEED] button
- 4. [POWER] button
- 5. Tear bar
- 6. Top cover
- 7. Top cover latch
- 8. Bottom cover
- 9. Power connector
- 10. Cash drawer connector
- 11. USB connector
- 12. RS232 connector
- 13. Parallel connector
- 14. Ethernet connector

■ Rear



Functions of parts:

- **Green power indicator**
Indicating power status (ON/OFF).
- **Red error indicator**
Indicating some error status. Under normal conditions, ERROR LED is always off. Under some error conditions (e.g. paper end), ERROR LED will ON.
- **Feed Button**
 - ①**Feed paper function :**
Printer will feed paper when the FEED BUTTON is pressed down under normal condition.
Printer will feed long length paper if keeps pressing down the button.
 - ②**Print self-test page**
Press down FEED button while turn on the power, the printer will print out self-test page.
- **Power switch**
“O” power is to turn off printer. “—” power is to turn on printer.

1.3 Definition of the LED indicator

LED	ON/OFF	Description
Power indication (Green)	ON	Printer is ON and ready to receive data.
	OFF	Power is off
Error indication	ON	Out of paper or Indicates a fault condition or a printer error
	OFF	The printer is an normal state

CHAPTER 2 SPECIFICATION

Table 2.1 Specification
(1/2)

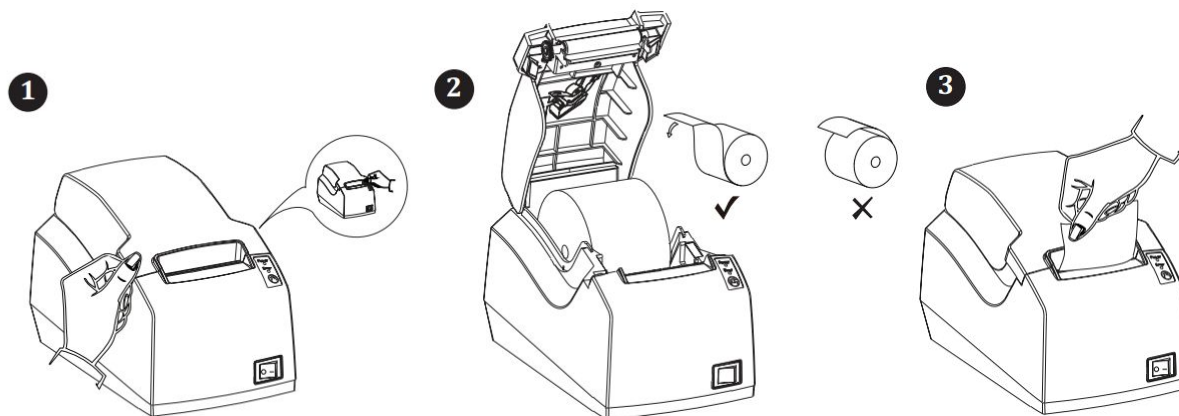
Items		Parameter
Printing	Printing method	Thermal line printing
	Resolution	203dpi
	Printing width	48mm
	Printing speed	100mm/s
	Interface(Optional)	RS232/USB/Cash drawer/Parallel/Ethernet
Page mode		Nonsupport
Memory	RAM	20K Byte
	Flash	2M Byte
Character	Chinese	GB18030
	Alphanumeric	ASC II 9×17,12×24.
	User-defined	Yes
	Codepage	[PC437 (USA: Standard Europe)], [Katakana], [PC850 (Multilingual)], [PC860 (Portuguese)], [PC863 (Canadian-French)], [PC865 (Nordic)], [PC857 (Turkish)], [PC737 (Greek)], [ISO8859-7 (Greek)], [WPC1252][PC866 (Cyrillic #2)], [PC852 (Latin 2)], [PC858 (Euro)], [KU42], [TIS11 (Thai)], [TIS18 (Thai)], [PC720], [WPC775], [PC855 (Cyrillic)], [PC862 (Hebrew)], [PC864 (Arabic)], [ISO8859-2 (Latin2)], [ISO8859-15 (Latin9)], [WPC1250], [WPC1251(Cyrillic)], [WPC1253], [WPC1254], [WPC1255], [WPC1256], [WPC1257], [WPC1258], [MIK(Cyrillic/Bulgarian)], [CP755 (East Europe, Latvian 2)], [Iran], [Iran II], [Latvian], [ISO-8859-1 (West Europe)], [ISO-8859-3(Latin 3)], [ISO-8859-4(Baltic)], [ISO-8859-5(Cyrillic)], [ISO-8859-6(Arabic)], [ISO-8859-8(Hebrew)], [ISO-8859-9(Turkish)], [PC856]
Barcode	1D	UPC-A、UPC-E、EAN8、EAN13、CODE39、ITF、CODEBAR、CODE128、CODE93
Detection	Sensors	Paper out detection
LED indicator	Power indicator	Green
	Status indicator	Red
Power supply	Input	12V ⁻ - -2A(External power adapter)
	Paper type	Thermal paper

Table 2.1 Specification(Continued)
(2/2)

Items		Parameter
Paper loading	Paper width	58mm
	Paper thickness	0.25mm Max.
	Paper roll diameter	83mm Max OD
	Paper loading	Easy loading
Command		ESC/POS
Physical characteristics	Working condition	0~40℃/20~85%RH
	Storage condition	-20~70℃/5~95%RH
	Dimension	186 (L) ×114 (W) ×128(H)mm
	Weight	930g (without paper roll)
Reliability	TPH	150km

CHAPTER 3 OPERATION METHODS

3.1 Paper Installation



1. Press the button on sides of top cover, and lift up the top cover.
2. Load the paper roll and please note correct direction of paper replacement.
3. Pull the paper roll out of chassis, close the top cover and tear the excess paper .

3.2 Functions use

3.2.1 Power on

Press the power switch “—” to power on the printer and the power indicator is green. When paper out or abnormal working, the status indicator is red.

3.2.2 Power off

Under the state of power on, Press the power switch “O” to power off the printer and LED indicator goes out.

3.2.3 Self-test

When user get the printer, you can have a self test on it to find the current setting and state.

The method of print self-test page:

- 1) Confirm that the printer is connected to power and paper roll is loaded.
- 2) Confirm that the printer is switched off.
- 3) Press down the FEED button while turning on the printer power. the printer will print out self-test page.

The printer is ready to receive data as soon as it completes the self-test.

3.2.4 Paper feeding

Printer will feed paper when the **【FEED】** button is pressed down under normal condition. Printer will feed long length paper if keeps pressing down the button.

3.2.5 Paper tearing

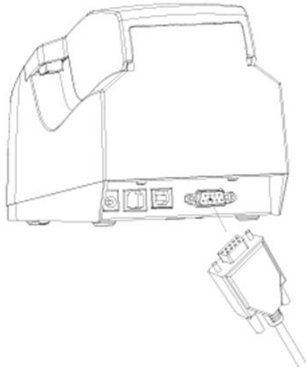
The receipt have to be tear after the printing, the PPT2A has a teeth design for convenient to tear the paper. Please pay attention to the paper tearing angel.



CHAPTER 4 PRINTER INTERFACE

4.1 RS-232 serial interface

4.1.1 Connecting RS232 interface cable



- 1) Connect the suitable interface cable with the
- 2) Correct connector to the connector of the interface board of the printer plug screws
- 3) Connect the other end of the interface cable to the host.

4.1.2 RS-232 serial interface



PIN	Name	Description
1	--	--
2	TXD	Transmit Data
3	RXD	Receive Data
4	--	--
5	GND	Ground
6	--	--
7	CTS	Clear to send
8	RTS	Request to send
9	--	--

4.2 USB interface

4.2.1 Connecting USB interface cable



- 1) Confirm the power switch is turned off.
- 2) As shown, insert the USB cable into the USB interface, and ensure they are matched.
- 3) The other end of USB interface cable should connect to the host.

4.2.2 USB interface



PIN	Name	描述
1	VBUS	+5V
2	Data -	Printer data transmit line minus
3	Data +	Printer data transmit line plus
4	--	--
5	GND	Ground

4.3 Cash Drawer interface

4.3.1 Connecting the Cash Drawer

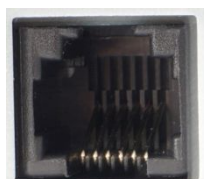


- 1) Confirm the printer power is turned off.
- 2) Insert the cash drawer cable into the cash drawer connector on the back of the printer.

❖ **Caution:**

Cash drawer interface can be connected only with a cash drawer device (Do not connect a telephone line and so on).

4.3.2 Cash Drawer interface



PIN	Name	Description
1	FG	Frame Ground
2	DRAWER1	Cash drawer 1 driving signal
3	DRSW	Cash drawer status test signal
4	VDR	Cash drawer driving power
5	DRAWER2	Cash drawer 2 driving signal
6	GND	Circuit share ground

4.4 Power interface

4.4.1 Connecting the Power Adapter

- 1) Confirm the power switch is turned off.
- 2) Insert the power cord into the power socket on the back of the printer.

Caution:

- ◆ When the printer is not in use for a long period of time, disconnect the Power adapter from the wall outlet for safety.
- ◆ 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.



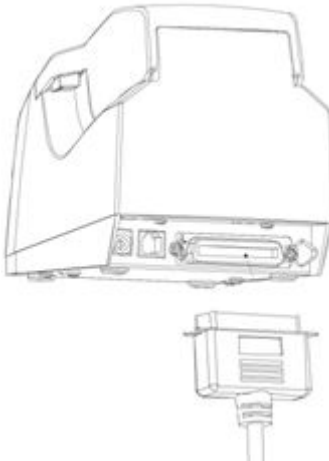
4.4.2 Power interface



12V-2A power interface

4.5 Parallel interface

4.5.1 Connecting parallel interface cable



- 1) Confirm the power switch is turned off.
- 2) Connect the suitable interface cable with the correct connector to the connector of the interface board of the printer clip springs .
- 3) Connect the other end of the interface cable to the host.

4.5.2 Parallel interface

PIN.	Source	Function
1	H	nStrobe
2	H	Data 0 (Least Significant Bit)
3	H	Data 1
4	H	Data 2
5	H	Data 3
6	H	Data 4
7	H	Data 5
8	H	Data 6
9	H	Data 7 (Most Significant Bit)
10	P	nAck
11	P	Busy
12	P	Perror
13	—	--
14	—	--
15	—	--
16		Logic Gnd
17		Chassis Gnd
18	—	--
19~30		Logic Gnd
31	—	--
32	P	nFault
33		Logic Gnd
34~35	—	--
36	—	--