POS80 Thermal Printer

User's Manual



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1 Introduction

1.1 Brief introduction

POS80 is a thermal POS printer with auto-cutter. It has good printing quality, high printing speed and high stability, which is widely used in POS system, food service industry and many other fields.

POS80 connects other devices via USB, parallel, serial, Ethernet port, WiFi or Bluetooth. It offers drivers for WINDOWS, LINUX and MAC operating systems.

The supported operating systems are as below: WINDOWS XP WINDOWS 7 32/64 WINDOWS 8 UBUNTU 12.04 32/64 UBUNTU 14.04 32/64 MAC OS

1.2 Main features

- 1) With auto-cutter
- 2) Low noise and high printing speed
- 3) Easy paper loading
- 4) Easily use and maintain
- 5) Support mark paper and continuous paper printing
- 6) Compatible with many kinds of paper width
- 7) With cash drawer interface
- 8) Optional communication interfaces(Such as USB, parallel, serial, Ethernet)
- 9) Optional Wireless communication function(Wi-Fi or Bluetooth, just for special models)

2 Specification

2.1 Specification

Ite	em	Parameter		
Printing method		Thermal printing		
	Resolution	203DPI, 8 dots/mm		
	Printing width	72mm(576 dots)		
Printing parameter	Printing speed	Max: 250 mm/s		
	Interfaces	Standard: cash drawer /USB interface Optional: serial/parallel/Ethernet ports Optional Wireless Communication: Wi-Fi or Bluetooth		
Page mode	/	Support(Optional)		
Command set	/	ESC/POS compatible commands		
	RAM	4MB(POS80x/POS81x/POS82x)/8MB(POS83x), receive buffer area 1M bytes		
Storage	FLASH	4MB(POS80x/POS81x/POS82x)/8MB(POS83x), NV bitmap 64K bytes		
	Chinese	GB18030 24×24		
	Words, figures	ASCII 9×17,12×24		
	User-defined	Support		
characters	Code pages	Optional international character sets 45 TRADITIONAL CHINESE CHINESE CP437 [U.S.A., Standard Europe] Katakana CP850 [Multilingual] CP860 [Portuguese] CP863 [Canadian-French] CP865 [Nordic] WCP1251 [Cyrillic] CP866 Cyrillic #2 MIK[Cyrillic /Bulgarian] CP755 [East Europe, Latvian 2] Iran CP862 [Hebrew] WCP1252 Latin I WCP1253 [Greek] CP858 Multilingual Latin I +Euro) Iran II Latvian CP864 [Arabic] ISO-8859-1 [West Europe] CP737 [Greek] WCP1257 [Baltic] Thai		

		CP720[Arabic]
		CP855
		CP857[Turkish]
		WCP1250[Central Europe]
		CP775
		WCP1254[Turkish]
		WCP1255[Hebrew] WCP1256[Arabic]
		WCP1256[Arabic] WCP1258[Vietnam]
		ISO-8859-2[Latin 2]
		ISO-8859-2[Latin 2] ISO-8859-3[Latin 3]
		ISO-8859-4[Baltic]
		ISO-8859-5[Cyrillic]
		ISO-8859-6[Arabic]
		ISO-8859-7[Greek]
		ISO-8859-8[Hebrew]
		ISO-8859-9[Turkish]
		ISO-8859-15 [Latin 3]
		Thai2
		CP856
		Supports different density dots and images printings
Chart	/	Supports grating bitmap printing
Chart	/	Supports download bitmap printing, every bitmap size should less
		than 64K, and the total capacity of download bitmap is 64K.
	1D	UPC-A、UPC-E、EAN-8、EAN13、CODE39、ITF、CODEBAR、
Bar codes		CODE128、CODE93
	2D	QR Code、 PDF417(POS83x/POS82x support)
Detection function	Sensor	Paper out, cover opened, paper will be lack(optional),un-take out
Detection function	561501	printed paper(optional)
	Power indicator	Green
LED indicator	Paper out indicator	Red
	Error indicator	Red
	Туре	Standard thermal receipt paper
	Width	79.5±0.5mm
Paper Requirement	Thickness	0.056~0.1mm
	Diameter	80mm(Max)
	Paper loading	Easy paper loading
	Paper cutting	Manual or automatically cut paper
Physical	Operating	-10°C ~ 50°C, 25% ~ 80%RH
characteristics	condition	
enaldeteristics	Storage condition	-40°C ~70°C, ≤93%RH (40°C)
	Outline dimension	196.4mm×145mm×152mm (L×W×H)
	Weight	1.1Kg
	TPH life	50km
Reliability	Cutter life	1,000,000 times
	Motor life	360,000 hours
		Windows (WIN7/WIN8/WIN10/Vista/XP/2000)
Software function	Driver procedure	Ubuntu 12.04 32/64, Ubuntu 14.04 32/64 MAC

Dowor Supply	Printer	Input: 12VDC/3A(POS80x), 24VDC/2A(POS81x/POS82x/POS83x)
Power Supply	Power Adapter	Input: 100-240VAC, 50/60Hz, 1.5A

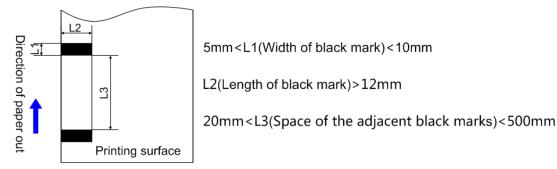
2.2 Printing material requirements

2.2.1 Paper parameters

- 1) Paper type: thermal receipt paper/thermal black mark paper
- 2) Paper width:79.5±0.5 mm
- 3) Paper roll diameter: 80 mm (Max.)
- 4) Paper thickness: $0.065 \sim 0.10$ mm

2.2.2 Mark paper parameters

Black mark imprint position is on the front side of the receipt when using mark paper. The black mark reflectivity is no more than 15%, the other parts of paper reflectivity should be more than 85%. There are not any patterns in black mark area, such as ad, and the mark size shall be satisfied with requirements as below:



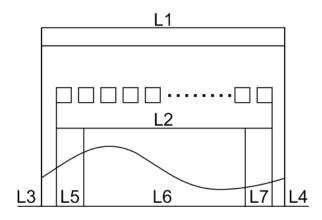
2.2.3 Paper using attention

A Note:

- 1) Please use good quality paper, otherwise, it will effect printing quality and even reduce printer head life.
- 2) Don't make the paper stick on axis.
- 3) Paper will be fading out or reduced thermal sensitivity if it is polluted by chemical or oil, which will affect printing effects.
- 4) Don't use nail or hard things to clash printing paper, otherwise, it will be fade out.
- 5) Paper will be fading out if the environment temperature exceeds 70°C. So please take note the temperature, humidity and illumination effects.

2.3 Printing and paper cutting position

2.3.1 Printing position



L1-Paper storehouse's width: 82±0.5mm

L2-Effective printing width: 80mm

L3-Distance between print head to paper storehouse's left edge (fixed width): 3 ± 0.3 mm

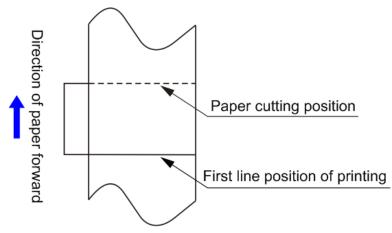
L4-Distance between print head to paper storehouse's right edge (fixed width): 3 ± 0.3 mm

L5-Left margin: Default is 4mm

L6-Printing area width: it is set by commands (refer to programming manual). Default is 72mm.

L7-Right margin: Default is 4mm.

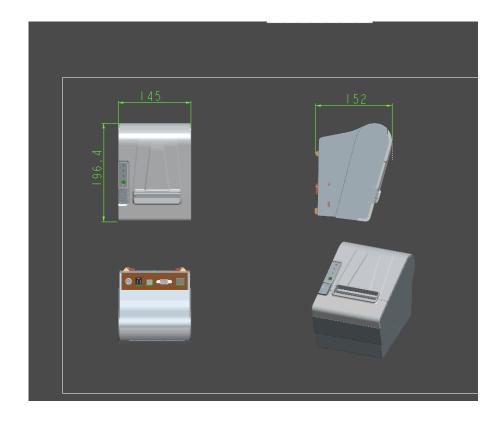
2.3.2 Paper cutting position

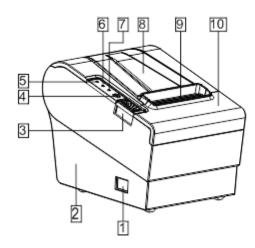


The distance between print head to cutter: 12.5mm

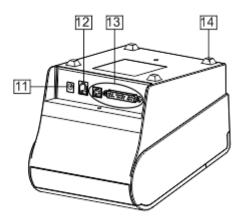
3 Appearance and components

3.1 Appearance and components





- Power switch
 Bottom of printer
- Baper cover's opening button
- 4 Feed button
- 5 Power indicator(Green)
- 6 Error indicator (Red)
- 7 Paper out indicator(Red)



- 8 Paper bin cover
- 9 Mouth of paper out
- 10 Cover of cutter
- 11 Input power socket
- 12 Cash Drawer port(12V/24V)
- 13 Communication ports
- 14 Non-slip foot pad

Function instruction of components

1) Power switch

Press "O" side to power off, press "I" side to power on.

2) Power indicator(green)

The indicator is on when power on, and it is off when power off.

3) Error indicator (Red)

Error indicator is on when it detects error. Such as: paper out, upper cover is open and cutter is stocked.

4) Paper indicator(red)

Paper out indicator is on when it detects the paper is out. Please put a new paper roll to printer inside then.

3.2 Indicator and buzzer instruction

1) Function instruction of indicators and buzzer

Name	Status	Instruction
Dower indicator (Dower)	On	Printer is power on
Power indicator (Power)	Off	Printer is power off
Emonin diaston (Emon)	On	Printer is in error status
Error indicator (Error)	Off	Printer is in normal status
Paper out indicator	On	Printer is in paper out status
(Paper)	Off	Printer is in normal status

Description	Power Indicator	Error Indicator	Paper Indicator	Buzzer
Open printer cover	On	On	On	It rings 6 times by 1.5s.
Paper is enough	On	Off	Off	Silent
Paper out	On	On	On	It rings 3 times by 1.5s.

M Note: Printer detects printer head temperature via thermal resistance. It will cut off print head power and stop printing if print head is overheat. The print head protection temperature is 80°C.

4 Printer installation

4.1 Open the package

Please make sure everything is in good status when you open the package. Otherwise, please contact the distributor in time.

4.2 Requirements of installation position

- 1) Put the printer on a stably place.
- 2) Let the printer far away from water, fire, and sunlight.
- 3) Avoid to put it on oscillatory and impassive place.
- 4) Make sure to connect printer with ground safety

4.3 Connect to power adapter

- 1) Make sure the printer is power off.
- 2) Connect power adapter's DC output plug to the printer.
- 3) Connect power adapter's AC input plug to a power outlet.
- 4) Please be careful to operate correctly when plug out the plug of power cord to avoid damage.



4.4 Connect Communication cables

- 1) Make sure the printer is power off.
- 2) Connect communication cable to the printer's port, and fix it with plug lag spike (or snap spring).
- 3) Connect communication cable to the other side host.

4.5 Connect to cash drawer

- 1) Make sure the printer is power off.
- 2) Connect cash drawer to cash drawer port behind the printer.
- A Warning: The Voltage of cash drawer port is 12V or 24V(same as the input voltage). (It cannot connect

to telephone cable.)

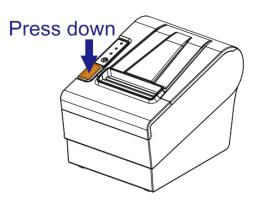
4.6 Paper roll loading

4.6.1 Printing paper type confirmation

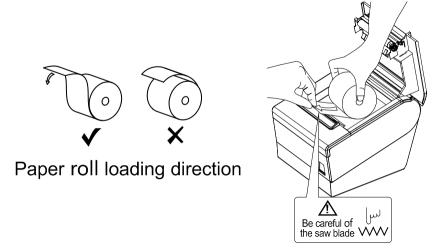
You can load paper roll to print after connecting power adapter and communication cables. Please make sure the printing paper type before printing. The default paper type is continuous thermal receipt paper.

4.6.2 Loading or change paper roll

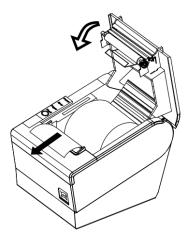
- 1) Power off the printer.
- 2) Slide or press paper roll storehouse button, and then open storehouse cover.



3) Draw out paper roll tap, and load paper roll as below.



4) Draw out a printing paper, and leave some on the paper out month, then close the storehouse cover.



 \triangle Warning: Please make sure the paper roll in tense status, if not, it maybe cause paper jam or other problems.

5) The status after paper loading



4.7 Printing self-test page

1) Make sure the printer loaded paper roll correctly.

2) Press down [FEED] button and hold on, then power on the printer, the printer will print a self-test page.

4.8 Set Ethernet port IP Address

The printer's Ethernet IP address can be set directly via printer inserted web setting page. The operation steps are as below:

1. Connect printer and PC in a same Ethernet LAN.

2. Print a printer self-test page to get printer recent IP address (self-test page printing operation method refers to "4.7 printer self-test" instruction):

You can find the printer's IP address is same as 192.168.1.87 in self-test page "IP address: 192.168.1.87"

- 3. Set network card IP address in PC and printer IP address as different IP address in the same network segment.(Such as 192.168.1.xxx, xxx is a number among 1 to 254);
- 4. Please enter address "http://printer IP address" in browse of PC after making sure that printer connects with Ethernet.(e.g.: If printer IP address is "192.168.1.87", please enter "http://192.168.1.87"), then press Enter

key,open Ethernet port setting page in browser as below:

Ethernet port configura	/192.168.1.172/ .ti ×	▲ ■
	Ethernet W	/ebConfig Version 1.00
Interface Status Printer Status	Configure Interface	E Settings for the Ethernet Interface .
<u>Configure Interface</u>	IP Add	ress: DHCP Client: Fixed IP Address: Device IP Address 192.168.1.87 Subnet Mask 255.255.255.0 Gateway Address 192.168.1.1
Reboot		Restore Default Save Exit

5. Click "Configure Interface" link in the left side, then enter the modified target IP and click "save" button to save setting. Click "Reboot" button to reset printer if you want the setting to take effect.

6. Enter the new IP address as the above step 4 procedure, and re-open printer Ethernet port setting web page, then click "Printer Status" link in the left side. And click "Printer Test Page" button to print self-test page, and check the IP Address contents in the self-test page is right or not.

5 Interface pin definitions

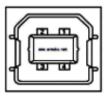
The printer has a cash drawer driver interface and many kinds of communication interfaces: parallel, serial (RS-232), USB and Ethernet ports. USB port and cash drawer interfaces are standard interfaces, and it has Ethernet, serial and parallel ports as optional.

5.1 Parallel interface pin definition (DB25M)

1	13
•	•)
14	25

Number	Signal	Function	Number	Signal	Function
1	/STROBE	Gate. Low level is	10	/ACK	Confirm. Low level is effective
		effective			
2	DATA0	Data bit is 0	11	BUSY	Busy
3	DATA1	Data bit is 1	12	PE	Paper out
4	DATA2	Data bit is 2	13	SEL	Choose
5	DATA3	Data bit is 3	14	/AUTOFEED	Change line automatically. Low
					level is effective
6	DATA4	Data bit is 4	15	/ERROR	Error. Low level is effective
7	DATA5	Data bit is 5	16	/INIT	Initialize. Low level is effective
8	DATA6	Data bit is 6	17	/SELIN	Choose input. Low level is
					effective
9	DATA7	Data bit is 7	18-25	GND	Ground wire

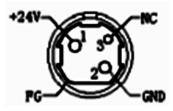
5.2 USB interface pin definition (standard B type female base)



1) Pin definition

Pin Number	Signal name	Typical wire color
1	VBUS	Red
2	D-	White
3	D+	Green
4	GND	Black

5.3 Power interface pin definition (MPC-3-001B)



1) Pin definition

Pin number	Signal name
1	+24V
2	GND
3	N.C
SHELL	F.G

5.4 Cash drawer interface pin definition (RJ11-6P6C)



- Electrical specification Driver voltage: DC24V Driver current: Max. 0.8A (within 510ms) Cash drawer status tests signal: "L" = 0~0.5 V; "H" = 3~5 V
- 2) Cash drawer interface socket uses RJ-11 6P type connector;

3) Interface signal definition

Pin number	Signal	function
1	FG	Printer cover
2	DRAWER 1	Cash drawer 1 driver signal
3	DRSW	Cash drawer status detection signal
4	VDR	Cash drawer driver power
5	DRAWER 2	Cash drawer 2 driver signal
6	GND	Common ground circuit

A Notes:

1) Prohibit socket with power to pull out communication wire plug.

2) Please avoid to parallel with strong power when wring communication cables av 通讯线布线时应避免和强电并行;

3) Communication cables use with shielded cables.

5.5 Serial port pin definition (DB9F)

Printer serial port is compatible with RS-232, the interface socket is DB9 female socket.

User can check interface setting status via printing setting self-test page. Printer default serial interface is set as: baud rate 19200bps, 8 bit data bits, no parity,1 bit stop bit, and the handshakes method is DTR/DSR.

Pin number	Definition
1	CD
2	TD
3	RD
4	DSR
5	GND
6	DTR
7	CTS
8	RTS
9	RI

5.6 Ethernet interface pin definition (RJ45)

Pin number	Definition
1	TX+
2	TX-
3	RX+
4	n/c
5	n/c
6	RX-
7	n/c
8	n/c

6 Faults handling

Please refer to the methods as below when printer can't work normally. Please contact your supplier directly if it still can't work normally.

6.1 Printer does not work

Problems	Probably reasons	Solutions
The Power indicator is not light.	Printer is not power on.	Power on printer
Printer does not work	Printer switch is not on.	Press down the "O" side of printer button
	PCB is damaged	Contact with agents or factory directly

6.2 Indicator error and buzzer warning

Problems	Probably reasons	Solutions
Paper indicator is on constantly Buzzer warns	Paper maybe out	Load a new paper roll
Paper out indicator light is on constantly Error indicator is on constantly Buzzer warns	Paper roll warehouse cover maybe lit up	Close paper roll warehouse cover correctly
Error indicator is blinking Buzzer warns	Print head is overheated	Power off printer power, and wait that print head temperature returns normal.
	Voltage is too high	Use assigned voltage to print
	Voltage is too low	Use assigned voltage to print

6.3 Problems when it is printing

Problems	Probably reasons	Solutions
Color strips occur on	Paper maybe out	Load a new paper roll.
the paper		
Printing is not clear or	Paper roll loading incorrectly	Check paper roll loading correctly or not
have dirty spots	Paper can't meet the requirements	Use the recommended thermal paper
	Print head or printer rubber roller is dirty	Clean print head or printer rubber roller
	Printing density sets too light	Increase printing density to satisfy the requirements.
Paper can output normally	Paper jam	Open upper cover or check paper feed channel to get to know paper jam.
Vertical printing contents get lost	Print head or printer rubber roller is dirty	Clean print head or printer rubber roller
	Print head error	Contact supplier or factory directly

6.4 Problems when cutting paper

Problems	Probably reasons	Solutions
Cutter blocked or cutter does not returned back.	Cutter is worn or cannot cut paper completely	Change cutter
	Turbine and worm are worn	Change turbine and worm
does not returned back.	Motor is burned-out	Change motor
	Too many paper scraps	Eliminate scraps between all the spare parts.
Cutting paper is not so good.	Cutter month is worn or paper is too thick	Change cutter
	The head piece is overheated	Reduce driver head piece heating power
Paper jam	Driver moves too fast	Adjust the printing speed to allowable specification of TPH.
	Paper feeds position is not right	Put in the paper channel between rubber covered roller and TPH to Make paper parallel with it

6.5 Paper jam and cutter retraction troubles removal

Please power off if it is paper jam, and eliminate paper jam in correct method.

- 1. Press the paper cover and open it to eliminate paper jam. Then re-install paper roll to power on.
- 2. Please use the method as below if step 1 cannot open paper cover:

AWarning: Do not open the paper roll warehouse cover forcibly when you cannot open it normally if it is paper jam, which to avoid damaging the printer.

- 1) Make sure the printer power is off.
- 2) Take off the cutter adjusting cover in forward direction as photo.
- 3) Adjust paper-cutter to make the cutter set back to print mechanism completely as photo direction.
- 4) Open paper cover and eliminate paper jam.
- 5) Install cutter adjusting cover vertically down.
- 6) Re-loading paper, close the paper cover and then power on.

