# **Thermal Receipt Printer Operating Manual**

# **TP100**



Use only approved consumables.

Any problems or faults caused by the use of similar products will void the warranty.

#### Safety Warning:

In order to operate our printer correctly and prevent any danger or damage, please be sure to follow instructions while operating our products:





# Notice

Electronic products such as printers are susceptible to static damage.

To avoid this kind of damage, please power off the printer before connecting or switching off behind cable. Once static damage happens, please contact the nearest maintenance center.

# **Product Introduction**

TP100 printer is compatible with electronic instrument, such as ECR, POS, cash register, receipt bill, computer peripheral equipment etc.

## Main Features of the Printer:

- 1. High Speed: 250mm/s.
- 2.Low noise thermal printing.

3.Support Parallel port, CENTRONIC, and Serial Port (RS\_232).

4.Data buffer built-in (Able to receive printer data while printing).

5.Equip with circuit driving peripheral to control external device such as cash box.

6.Command support ESC/POS、 select different printing density, i.e. adjust dial switch.

7.Support NV bitmap download and printing.

- TP100 features NV bitmap download Flash 64kb.
- \*\*Read the manual carefully before usage.

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## **Chapter 1. Printer Setup and Operating**

## **Contents in the Package**

Check below items, Please contact the dealer for any breakdown or absent.

TP100	Power Adaptor	Power Cable
0		C.
Paper Roll	CD	Communication Cable

Note: The packing style above is subject to change without notice. If you have any questions please contact your local dealer.

# **Connect Cable**

TP100 printer comes with the USB cable in addition to the selected interface cable upon purchasing.



If connecting to ECR, POS or computer is prefered, please use the cable provided in printer or request it from the place of purchase.

# Load and Replace Paper Roll

Press the Button to Open Paper Roll Cover

Remove the used paper roll to replace with a new roll



1. Load the paper roll as shown in the image below:



2. Make sure the paper roll is loaded in the correct direction.



**Correct Direction** 



**Wrong Direction** 

**3.**Pull out the roll paper to the bottom front of the printer and then close the cover as shown in image below.



4.Tear off extra paper roll as showed in below image Use Auto-cutter or cutter point of machine



Paper Roll Specification	Manufacturer
HPK-110	Hansol patech Co.,Ltd
AF50KS-E	JUJO Paper Co.,Ltd
TF-50KS-E	Nippon Paper Industries Co.,Ltd
PD-160R	New Oji Paper Mfg,Co.,Ltd
F3TP100	Kansaki Specialty Papers,Inc.

#### **Paper Roll Recommendation**

Improper paper roll may lead to critical fault on printer head and shortened the machine life span. Thus be sure to use the recommended paper roll. Any issue caused by using other branded paper roll will void the warranty, even during the warranty period.

## **Connect to Computer (PC-POS)**

Connect to the provided cable as shown in the image below.

1 Connect the other end of parallel cable to printer port on the computer.

2 Connect the other end of parallel cable to the printer port of computer.



Connect to TP100



Connect to Computer

### **Connect to Cash Drawer**

#### Connect cash drawer cable to cash drawer port which is behind the printer



Use 12-24V/1A power supply cash drawer, which is also compatible with printer. The improper cash drawer will cause damage both to the cash drawer and the printer.

Do not connect cash drawer port to the telephone line.It may cause failure condition on telephone line and printer.

Cash drawer cable connection.

## **Connect to Power**

**1.**Make sure the power is unplugged and the printer is powered off before connecting the power cord. **2.**Connect to power



Power Cable

**3.**Turn on the power switch on the printer side to connect to the power supply.



# **Printer Control Panel**

### **Control Board**

O	Power light-Light appears when connected to the power supply.
ERROR	<ul> <li>Error light-Light appears under the following condition:</li> <li>1. Printer overheats</li> <li>2. Receipt Paper Low</li> <li>3. Roll Paper Cover and/or cutter replacement error</li> </ul>
PAPER	Low Receipt Paper Light-Light appears when the receipt paper roll is low and/or wrong replacement of the paper.
FEED	Feed key-Press feed key to generate a length of paper.

# **Setting Printer Mode**

TP100 printer is initially setup with default value. However, the default printer mode can be reconfigured to satisfy customer's needs through the DIP switch, which is located at the bottom of the printer.

#### The function of DIP switch setting as follows:

Switch	Function		(on)		(off)	
1	cutter		No cutter		With cutter	
2	Buzzing prompt	t	Open buzzing prompt		Close buzzing prompt	
3	Printing density		High density		Regular density	
4	24 bytes mode		No Chinese Character		With Chinese Character	
5	Character per line		42		48	
6	Select cash box		Open cash box		Close cash box	
7-8	Transmission rate (apply for serial interfac		ce) (refer to )	below information)		
Transmission rate (bps) SW-7		SW-8				
-bytes/s						
38400 ON		ON				
115200 OFF		ON				
9600 ON		ON	OFF			
19200 OFF		OFF	OFF			

### **Chapter 2. Printer Management**

### **Self-Checking Function**

The Self-Checking Function allows the user to identify if the printer is operating normally. If the printer is detected with failure condition, please contact the distributor.

#### **Self-Checking Process :**

- Self-checking Procedure:
  - 1. Make sure the printer is powered off
  - 2. Press FEED button and switch on the power supply while the FEED button still pressed.
  - 3. The Self-Checking list should be printing the printer is brought to power.
- Self-Checking function printers out bytes, part of Chinese character set, command mode, interface type, local printer dial-up switch setting printer setting,..., etc, sequentially.
- For the printer equip with auto-cutter, the auto-cutter spontaneously cuts the receipt paper immediately after finish printing.
- The printer automatically goes into data receipt mode after finish self-checking process.

## **Printer Maintenance**

Maintaining the printer regularly is a necessary step to sustain the printer quality as the residual paper wool got collected through the thermal slice.

Maintaining the Printer with the following steps:

- 1. Open the paper roll cover and remove the receipt paper roll if necessary.
- 2. Use the alcohol swab to clean the thermal slice printer head
- 3. Slight damp a swab and gentle wipe through the roller and the paperchecking sensor
- 4. Reload the paper roll into the printer and closed the paper roll cover.

## **Fix Paper Jam**

The error light appears and flashes with warning prompt when paper jam happens.



# **Chapter 3. Appendix and Product Specification**

# Specification

	Printing Method	Thermal Line		
	Resolution	203X203dpi(8dots/mm)		
	Paper Width	79.5±0.5mm		
	Printing Width	72mm		
	Printing Character	ASCII Font A: 12X24		
Printing Property		ASCII Font A: 9X24		
		Character 12X24		
	Printer Density	512dot/line or 576dot/line		
	Printing Speed	250mm/s		
	NV bitmap Flash	64kb		
	Receipt Buffer	8kb		
Note: Printer speed	d changes as the as the combination	on of the data transmission speed and control		
command varies.				
	Input Voltage	AC 100~240V		
Power Adaptor	Rate	50/60Hz		
i ower ruuptor	Output Voltage	DC 24V, 2.5A		
	Operating Temperature	0∼45°C		
	Storage Temperature	-10~50°C		
Environment	Operating Humidity	10-TP100%		
	Storage Humidity	10-90%		
_	Thermal Mechanism	15, 000, 000 lines		
		10×105 (~100km)		
Life Span	Auto-cutter	1, 000, 000cuts		
	MCBF	60, 000, 000 line		