PP-6906 Series
THERMAL PRINTER
USER'S MANUAL

Rev.: Original



FCC Notes:

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the user's manual, may cause interference to radio communications. It has been tested and found to comply with limits for a Class A digital device pursuant to subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference which case the user at his/her expense will be required to take whatever measures to correct the interference.

CE manufacturer's Declaration of Conformity
(EC Council Directive 89/336/EEC of 3 May 1989)

This product has been designed and manufactured in accordance with the International Standards EN50081-1/01.92 and EN50082-1/01.92 following the provisions of the Electro Magnetic Compatibility Directive of the European Communities as of May 1989

Warranty Limits:

Warranty terminates automatically when any person other than the authorized technicians opens the machine. The user should consult his/her dealer for the problem having happened. Warranty voids if the user does not follow the instructions in application of this merchandise. The manufacturer is by no means responsible for any damage or hazard caused by improper application.

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P/N: 19780902010

GETTING STARTED

CONGRATULATION

You have made a very wise decision by purchasing the easy loading; low noise; high resolution; light weight; high reliability and high performance thermal printer PP-6906 series of Posiflex products. This series of printers has been elegantly designed for a Point-Of-Sale, kitchen & kiosk application. The manufacturer of this printer not only wishes to take this opportunity to congratulate your smart investment on buying this printer but also likes to express the wishes for your prosperous future by using it.

PRODUCT BRIEFING

The PP-6906 series printer, a cloud thermal printer, works with a thermal sensitive paper in form of a paper roll at a width of 80 mm (standard) or 58 mm (optional). The cloud thermal printer is designed for web-base applications installed in various mobile devices, such as smart phones and tablet PCs that work in Android, iOS, and Microsoft Windows Mobile systems and operate in WLAN mode. Thus, mobile devices can exchange data in XML format with the printer. These printers serve the stand-alone desktop application as well as the application within a Posiflex integrated POS system equally perfect.

PP-6906 series supports 2 types of interface inputs and is also provided with a USB port. The standard model of PP-6906 is designed with a USB interface, a LAN interface, and a Wi-Fi interface (optional). The PP-6906 series is already POSReady and Win 7 compliance.

The PP-6906 series supports a guillotine-type auto cutter for paper partial/full cut and a manual cut mechanism. The PP-6906 series also supports user's company's LOGO downloading for superior performance. It even supports some enhanced capability for reminder function to persons around. It can be used to drive an optional **kitchen bell** for such reminder function in noisy environment. This printer also supports various kinds of power systems in different countries by changing the power cord type. It offers outstandingly high printing speed. This series makes beeping sound as response to Paper End or Paper Near End signals. 20-plus code pages are supported in the standard model for application convenience.

Warning:

1. Do NOT install the PP-6906 in an environment of heavy dust for preventing the printer's thermal head of printer from being scratched, by the particles of dust, and preventing the plastic gear of printer from being worn out.

2. Do NOT use any recycled thermal sensitive paper roll for preventing the thermal head of printer from being scratched by the impurity of recycled paper.

To keep long the service life of PP-6906, it is preferred to follow our suggestions.

Further, the PP-6906 should be regularly maintained for its quality and performance. Thus, you are suggested to:

- ✓ clean the thermal head;
- ✓ clear the paper trash ; and
- ✓ clear dust from the gear.

UNPACKING

The following items are what you may find when carefully unpacking the carton of the PP-6906 series printer. If there is any discrepancy or problem, contact your dealer immediately. **Be sure to save the packing materials in case the printer needs to be shipped at some point in the future**.

1). Printer unit
2). Thermal sensitive paper roll of 80 mm width
3). One piece of spacer plate for the paper roll of 58mm width
4). Power adaptor + power cord (depending on a specific country or region)
5). User's Manual

OPTIONS

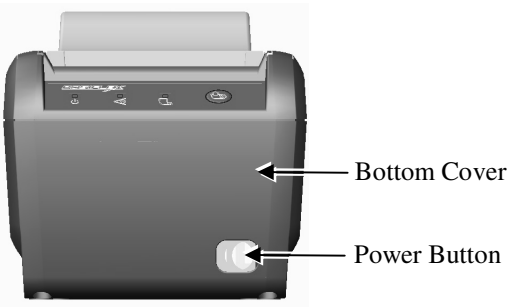
- Kitchen bell (Alarm type KL-100 or buzzer type KZ-200)
- Cash drawer
- Pole display
- Wall mount kit
- Language to add to the standard model: Japanese Kanji, Korean, Simplified Chinese or Traditional Chinese

Tour of the PP-6906

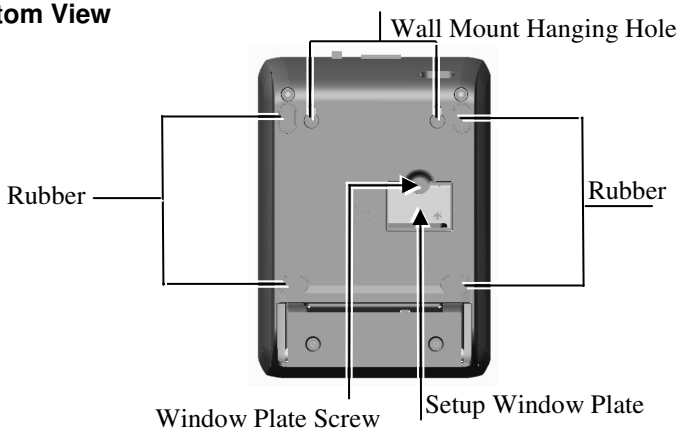
Top View



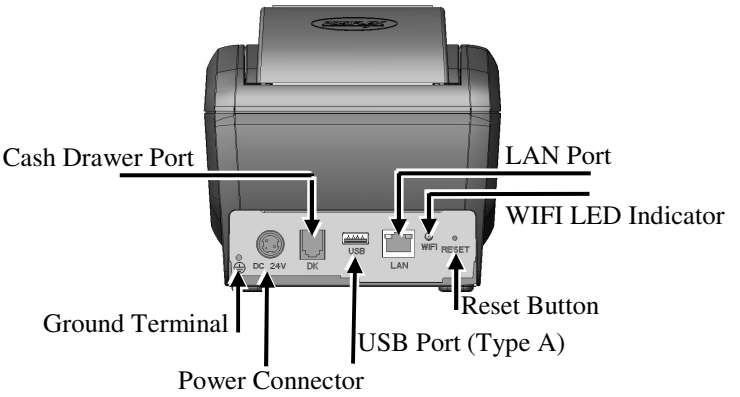
Front View



Bottom View



Rear View



INDICATORS

- Power LED: green
- Error LED: red (brief lit indicating that printer's busy)
- Paper Out LED: red

QUICK START-UP

LOADING A PAPER ROLL

1. Press down the hood release button to release the paper cover.



2. Raise the released paper cover manually and drop the thermal paper roll inside the printer as shown in the right figure.



3. Close the paper cover and make the tail of the paper roll come out of the track between the hood and the top cover. Excessive paper will be cut off automatically when the printer is powered ON.

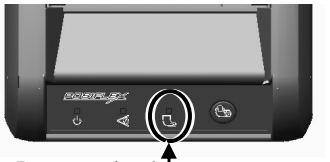


4. If you want to use a paper roll of 58mm width, install the spacer plate in the compartment of the printer, as shown in the right figure, and then load the paper roll of 58mm width into the partition at the left side of the plate.



When to Replace Paper Roll

When the printer gives a paper out signal or a red line appears on the thermal sensitive paper, it is time to replace the paper roll. Do not wait till the print engine is dragging the paper roll at the very end. Remove the leftover and replace the old paper roll with a new paper roll as guided above to prevent the printer from excessive paper dust and lower the possibility of consequent paper jam.



CONNECTION

USB Connection (to Posiflex Pole Display)

The USB port of PP-6906 is a host interface to a Posiflex POS display only, such as PD26UE.

LAN Connection

The LAN connector is an 8-PIN RJ45 type modular connector. Please use a LAN cable of CAT 5 of a proper length to connect the LAN connector on the printer to a LAN hub as appropriate. Please also note that, to enable the LAN interface of the printer, open the setup window plate and adjust the **DIP switch position 2 to OFF, leaving the rest unchanged as factory default setting.**

Do not connect a peripheral device (cash drawer) to this port! The LAN port is 10/100 base-T compliant.

Wi-Fi Connection

To make a host terminal, such as a Android Smart Phone or Tablet, wirelessly connect to the PP-6906, please set the network segment of the host terminal to that of PP-6906, 192.168.192.XXX (1 ~ 254), in which its Network prefix length is 24; for example, the default IP address of the PP-6906 is 192.168.192.***168***, so the IP address of the host terminal should be set to 192.168.192.***169*** or the like, and its Network prefix length is likewise 24. Then, adjust the hardware DIP switch position 2 to ON, leaving the rest unchanged as factory default setting. In the aspect of Wi-Fi connection to an Android Smart Phone, a tablet PC and the like, the PP-6906 can work in infra mode only and connects to wireless devices through an access point; thus, after the network segment of the host terminal is set and the hardware DIP switch position 2 is adjusted to ON, the host terminal wirelessly connects to the PP-6906.

Peripheral Connection

The peripheral controller is a 6-pin RJ11 type modular jack. With use of a Posiflex cash drawer cable (21863018010) coming with a cash drawer, this peripheral port can control the Posiflex cash drawer. If a Posiflex special split cable (21863023800) is used instead, this port can control two cash drawers of the above models.

When the printer is used as a kitchen printer, please use this port for kitchen bell connection instead.

Power Connection

The power connector is a 3-pin jack to which a Posiflex power adaptor is inserted. Either a Posiflex power adaptor or a printer power cable connecting from a Posiflex POS system can be connected to the power connector to supply power to this printer. During insertion of the power plug, be sure to hear a click to obtain a firm contact and lock.

Power On

When all the above cable connections are made correctly, you may connect your power adaptor to the wall outlet. Make sure that the type of power cord meets the local power conditions. Now the printer is ready for power on.

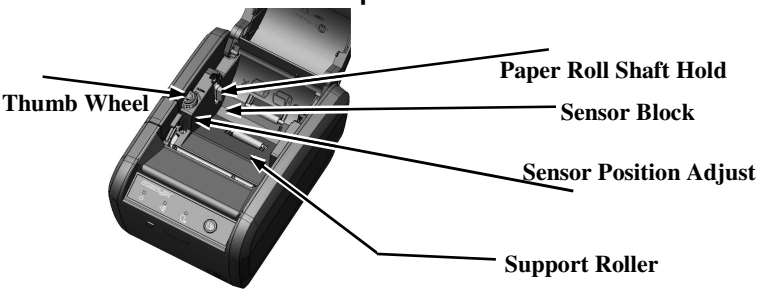
Self Test



Press and hold down the feed button while powering on the printer. The printer will then perform a self-test. A slip of self-test result paper is printed as a reference sample as shown in the right figure. The sample slip will indicate the present printer status and settings. If the feed button is pressed at this moment, a font table will be printed in page mode again for PP-6906 and the PP-6906 will show IP information, MAC address and the like in this test sample slip. To exit the test printing, please power the printer off and on again.

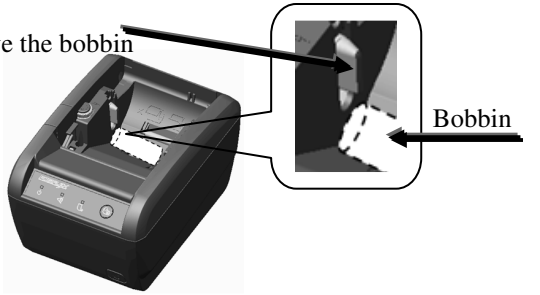
SPECIAL ADJUSTMENT OF PAPER ROLL SENSOR

Near-End Sensor for Paper Roll



The near-end sensor for paper roll in the printer is able to have the printer work with a paper roll of several bobbin sizes. Please refer to the figure shown above for the paper roll compartment in which there are a plastic thumb wheel for bobbin-size adjustment, and a sensor block on the wall. Turn the thumb wheel to adjust the proper position of sensor block. When the printer is placed on a flat desk and the paper roll in the compartment is exhausted, the near-end sensor block ejects and stays above the bobbin of paper roll and thus stays active, as shown below.

Near-end sensor block above the bobbin



Accordingly, when the printer is placed horizontally instead of being hanged vertically on the wall, the printer's near-end sensor block functions and the sensor position adjust can be used by users for the activity of sensor block.

The outer diameter of paper roll bobbin is between 18 and 24 mm, which is acceptable.

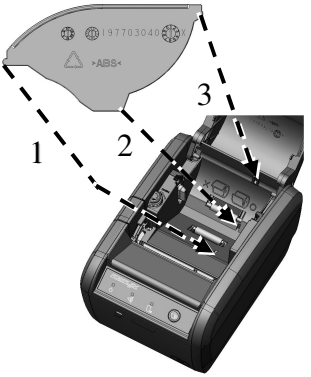
Spacer Plate Installation for Paper Roll of 58mm Width

The application of 58mm-width paper roll in this printer can be achieved through adoption of a spacer plate and an internal DIP switch setting. For more detailed setting guide, please refer to the last topic of this manual for the DIP switch setting.

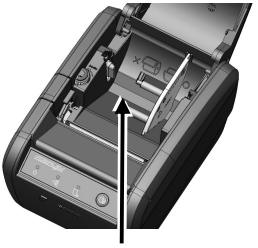
Before installing the 58mm-width paper roll, please refer to the figure shown at the right for mounting the spacer plate to the paper roll compartment of the printer.

Note that the smooth side is toward the paper roll.

Insert the noted corners of the spacer plate into the 3 dents inside the paper roll compartment as arrowed in numeric order.



Then the 58mm-width paper roll compartment is formed.



58mm-width Compartment

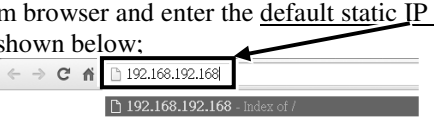
CONFIGURATION OF LAN and Wi-Fi PRINTER

Web-based POS Printer Manager in LAN and Wi-Fi Modes

The default static IP address for the PP-6906 is 192.168.192.168 and the default listen port is 9100. For the first time, to configure the PP-6906 through the web manager, even if your PP-6906 is a Wi-Fi model, you must still follow the steps below:

1. use a LAN cable of CAT 5 of a proper length to connect the LAN connector on the printer to a LAN hub to which your desktop or laptop PC as a host terminal is also connected;
2. adjust the DIP switch position 2 to OFF, leaving the rest unchanged as factory default setting;
3. set the network segment of the host terminal to that of PP-6906, 192.168.192.XXX (1 ~ 254) except 192.168.192.168, in which the subnet mask of host terminal is 255.255.255.0;
4. press the power button of PP-6906 to make the printer operate;

5. open a random browser and enter the default static IP address of the PP-6906, as shown below;



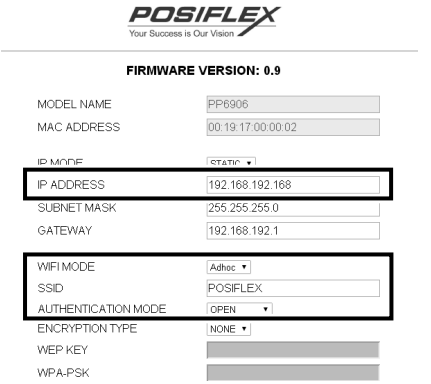
6. select and click “config html”;



7. no password is required in default. If you want a password for security, set a new password and replace the old password with the new one after entering web manager;



8. in default condition, reading from the configuration page of the manager, your PP-6906’s IP ADDRESS is 192.168.192.168, the default WIFI MODE is Adhoc, the printer’s default SSID is POSIFLEX, and the default AUTHENTICATION MODE is open;



9. completing in setting up the PP-6906, click the SAVE button; and



10. after waiting 30 seconds, you will be led back to the configuration page on which you will see the parameters that have been changed.

If you want the PP-6906 to operate in WLAN mode, follow the steps below:

1. adjust the DIP switch position 2 to ON, leaving the rest unchanged as factory default setting; and
2. through the Microsoft zero configuration tool on you host terminal, locate the wireless printer of which the SSID is POSIFLEX, and click Connect.

Be aware, however, DHCP is supported in LAN connection only.

This web-based manager can be used to manage multiple PP-6906 printers in the same local area network segment under the Windows operating system as long as there is no conflicting IP address in the network. This manager allows users to assign a different device name to each LAN printer for easy recognition. You can also check each of the MAC addresses listed in this manager against the MAC address label you can find on the bottom of each printer.

PP-6906 that is connected through TCP/IP in the way like a directly connected local printer can be used with a random PC connected in the same local area network segment. So, through the web manager, all commands applicable to the LAN or WiFi mode can work on PP-6906 in the same way, as PP-6906 must be configured upon the TCP/IP communication protocol with the IP address of the printer.

When doing settings through the tablet PC or Smart Phone for the PP-6906 working in infra mode, please set the same network segment of the host terminal to that of PP-6906, 192.168.192.XXX (1~254). The Wi-Fi mode for the PP-6906 is infra mode that can be searched by the wireless device manager of the host terminal. Note that PP-6906 Wi-Fi module will reboot automatically right after being changed or upgraded. Finally set the host terminal back to original mode.

LAN / WI-FI Reset

As the setup for the PP-6906 can be set freely, if the changes are not well registered, some troubles could be made. In PP-6906, there is a “RESET” button near the Wi-Fi indicating lamp on the rear side of the printer. To reset the LAN / Wi-Fi conditions, press down and hold the RESET button for at least 10 seconds by using a ball-pen tip or straightened end of paper clip. Then, the WIFI indicating lamp next to the reset button blinks several times after the 9th second at which you press and hold the reset button. When the LAN / Wi-Fi module is successfully reset, the LAN / Wi-Fi parameters return to the defaults. The LAN re-configuration parameters of the PP-6906 can be viewed through the self-test printout.

OPERATION GUIDE

MAINTENANCE GUIDELINE

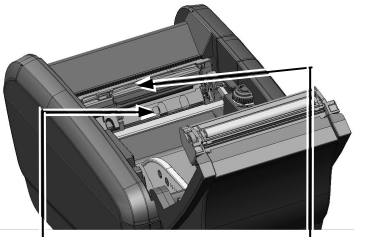
- Always turn off the power before opening the cover.
- Do NOT touch the areas around the print head and motor that become very hot during and just after printing.
- When handling the interior of the printer, please pay attention to each sharp edge of the metal parts to avoid accidents of injury.

GENERAL CLEANING

Please use soft hairbrush or compressed air to clear away dust or paper scraps accumulated inside the printer. Also check the area of the auto-cutter regularly.

PRINT HEAD CLEANING

The print head is located underneath the roll paper passage at the exit. You can clean the thermal sensitive elements of the print head and paper roll sensor gently by using a cotton swab moistened with isopropyl alcohol solvent.



NOTE: Never do this when the print head is still hot.
Do not touch the thermal sensitive elements of the print head.
Do not scratch the thermal sensitive elements of the print head.

Before putting back the paper roll for printing, there must be NOT alcohol solvent remaining.

TROUBLE SHOOTING

This section gives solutions to some printer problems you may have.

General Problems

No LED lights up on control panel when the printer is powered on – Make sure that the power supply cables are correctly plugged into the printer and the power plug of the adaptor is plugged into the power outlet. Make sure that power is supplied to the power outlet. If the outlet is controlled by a switch or timer, try to use another outlet.

Printing Problems

Nothing can be printed with ERROR LED flashing – Most possible cause for the flashing Error LED is that the printer has been printing for quite a period of time and the temperature of print head becomes too high. After few minutes under normal ventilation, the print head should be able to cool down and the Error LED will stop flashing. Printing will resume after the print head cools down. If this is not the case, contact a qualified service person.

Nothing can be printed with ERROR LED ON – Check the Paper Out LED. If it is ON, most probably either the paper roll is not installed or the paper roll is at or near the end. Install a new paper roll. If the Paper Out LED is OFF, please check if the print hood is properly closed. There are 2 internal check points inside the printer to assure the locking of the hood for a decent printing. Therefore any dislocation of the hood may cause an error status and inhibition of printing. **Press down the hood in the middle of the opening** when closing it till it audibly clicks into place. If both situations are not the cause, please try to pull the hood lock forward. If the top hood does not release automatically, **check for paper jam** described below.

If there is no paper jam and the print head is not overheated, power off the printer and wait for half a minute and then power it back on. If the problem still remains, contact a qualified service person.

Nothing can be printed with ERROR LED OFF – Try to run self-test according to previous chapter to check if the printer itself works properly. If the self-test passes, check the following:

1). Check the connection of the interface cable between the printer and the computer. Also make sure that this cable meets the specification required for both the printer and the computer.

2). Check the printer data communication settings. The printer settings can be found easily on the self-test printout.

If the problem remains or the self-test fails, contact your dealer or a qualified service person.

Poor printing quality – Contaminants like paper scraps and dusts on the thermal print head can lower the print quality drastically. Clean the print head as described in the previous section. Also print density should be regulated thru switch settings.

Paper Jam Problems

Paper is jammed inside the printer – Push down the hood release button and then the top paper cover can be released and opened. Remove the jammed paper and reinstall the paper roll. Close the paper cover properly and firmly for operation.

If paper jam is caused in the auto cutter, the top hood will be locked. However, in most of the situations the cutter will retract automatically when the hood release button is released, please re-close the hood and try opening it again.

Never apply force to open the top hood. Please also clear away any containments accumulated in the cutter track above the thermal sensitive elements.

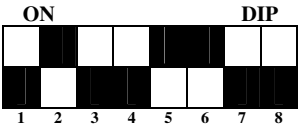
USEFUL TIPS

- Please note that only those qualified technicians may adjust several jumpers for some technical settings. Please visit our web site *http://www.posiflex.com* or *http://www.posiflex.com.tw* for details of the technical information such as driver installation, DIP switch settings and command sets etc., if required.
- Place the printer on a sturdy, level surface.
- Choose a place that is well ventilated and free of excessive dust, smoke or fume.
- Do not put the printer under direct sunlight or near a heater.
- Ideal room temperature in printing condition is from 5ºC to 40ºC. Ideal humidity in operation condition is from 20% to 85% RH (no condensation).
- Do not set any liquid or drinks such as coffee on the printer case.
- Do not touch any metal part to avoid possible electrostatic damage.
- Do not touch the areas around the print head and motor during or right after printing. It can be very hot.
- Do not allow the cut receipt to slide back into the cutter during the operation. This would lead to multiple cutting at the lower edge of a receipt and the multiple cut thin slips tend to cause mechanical malfunction.
- Use a grounded AC power outlet with only the power cord and power adaptor furnished with the printer.
- Do not use a power outlet of a circuit shared with any equipment that uses a lot of power or causes great electrical noises, such as a copier, electric motors or a coffee maker.
- Do not use thermal sensitive paper containing Sodium (Na+), Potassium (K+) and Chlorine (Cl-) ions that can harm the thermal sensitive elements of the print head.

- If the surface of thermal sensitive paper is scratched with a hard object such as a nail, the paper may become discolored.
- If thermal sensitive paper touches diazzo copy paper immediately after copying, the printed surface may be discolored.
- Use only water paste, starch paste, polyvinyl paste or CMC paste when gluing thermal sensitive paper.
- If thermal sensitive paper touches anything containing phthalic acid ester plasticizer for a long time, the image formation ability may be reduced or the printed image may fade.
- Use of volatile organic solvents such as alcohol, ester and ketone or some adhesive tapes on thermal paper can cause discoloration.
- Thermal sensitive paper must not be stored with the printed surfaces against each other as the prints may be transferred between the surfaces.
- Since the paper roll is highly thermal sensitive, please keep it in a dark place that is between 20% and 65% RH when not installed in the printer. Avoid extended exposure to direct light. Use only products made from polyethylene, polypropylene or polyester for storage of the thermal sensitive paper.

FURTHER TECHNICAL INFORMATION

PRINTER SETUP



There are two different ways to set up PP-6906. The first way of setup is implemented through the hardware DIP Switch on the bottom of printer for setting up functions such as baud rate, paper width and others. The second one is implemented through a software utility to adjust the switch, such as printer density and other functions. These switch settings are described below.

Setup through Hardware DIP Switch

On the bottom cover of the PP-6906 series thermal sensitive printer, there is a screwed metal plate for setup window. In this window, there is an 8-position DIP switch for printer setup. Please use a proper tool to change the switch setting, if necessary. The functions of each position may evolve with the revisions of the firmware. The information below applies to the latest version to the date of print of this manual.

Hardware DIP Switch Position Behavior Table

Switch position	ON	OFF
1	Download MCU – RX	**Download MCU – ARM (Default)**
2	**WiFi interface (Default)**	LAN interface
3	Paper cutting after cover return – disable	**paper cutting after cover return – enable (Default)**
4	Full paper cutting enable	**Full paper cutting disable (Default)**
5	Busy condition disable	**Busy condition enable (Default)**
6	Cutting without paper feed before paper cutting	**Normal cutting before paper cutting (Default)**
7	Auto cutter disable	**Auto cutter enable (Default)**
8	Firmware update mode enable	**Firmware update mode disable (Default)**

Switch position 8 defines the firmware update mode. If the printer needs to update the firmware, please set the switch position 8 to the "ON" position. In order to operate perfectly, set the switch position 8 to "OFF" when the printer does not need to update the firmware or operates in normal condition.

Setup through software switch:

Another method of setting up PP-6906 series is implemented through the software switch setting, which means that software utility must be used for setup of other functions. Please visit our web site *http://www.posiflex.com/up/Download/downlaod* to download the **PP-6906 software switch utility.** Software switches are divided into **SW1, SW2**, **SW3 and SW4**. These settings are described below.

After downloading the **PP-6906 software switch utility**, refer to the Help file in the utility folder for the details before operating the software switch setup.

Position Behavior Table for Software Switch 2

Switch position	ON	OFF (Default)
1	Software Switch Selection	
	Enable software switch setup [1]	**Enable hardware DIP switch setup**
2	Paper width – 58mm	**Paper width – 80mm**

Switch position	ON	OFF (Default)
3	Print width allowable – 576 dots	**Print width allowable – 512 dots**
4	Paper feed back disable	**Paper feed back enable**
5	Raster bitmap printing – line print	**Raster bitmap printing – batch print**
6	Parity check – EVEN	**Parity check – NONE**
7	Handshaking – XON/XOFF	**Handshaking – DTR/DSR**
8	<CR> Auto line feed enable	**<CR> Auto line feed disable**

Note: 1. Software switch setup will be valid instead of hardware DIP switch setup.

Position Behavior Table for Software Switch 3

Switch position	ON	OFF
1	UPOS write disable	**UPOS write disable (Default)**
2	Beep sound after paper cutting – enable	**Beep sound after paper cutting – disable (Default)**
3 4 5	Print density switch (*Refer to the setting guide made below for the details.*)	
6	Print speed – 200mm/s	**Print speed – 170mm/s (Default)**
7	Thai font mode – 3 pass	**Thai font mode – 1 pass (Default)**
8	Cover open message enable	**Cover open message disable (Default)**

Effect of switch positions 3, 4, and 5 on Print Density is defined below:

SW3 Pos.3	**OFF**	ON	OFF	ON
SW3 Pos.4	**OFF**	OFF	ON	ON
SW3 Pos.5	**OFF**	OFF	OFF	OFF
Print Density (%)	**100 (Default)**	110	120	130

Since papers are different in quality, please regulate the print density and printing speed to obtain the satisfaction of printing quality.

Position Behavior Table for Software Switch 4

Switch position	ON	OFF
1	Print speed of 120mm/s – enable	**Print speed of 120mm/s – disable (Default)**
2	Reduction of barcode height	

Switch position	ON	OFF
3		
4	Reduction of line space	
5	(*Refer to the setting guide made below for the details.*)	
6	Reduction of line feed	
7	(*Refer to the setting guide made below for the details.*)	
8	(Reserved)	

Users may save paper by reduction of barcode height of the original size. Please refer to the following table to change the switch settings.

Effect of positions 2 and 3 on reduction of barcode height is defined as shown below:

SW4 Pos. 2	**OFF**	ON	OFF	ON
SW4 Pos. 3	**OFF**	OFF	ON	ON
Reduction of barcode height	**Disabled (Default)**	25% reduced	50% reduced	75% reduced

Reduction of line space is designed for users to reduce the space between every two lines in every single paragraph. For the settings of positions 4 and 5 of software switch 4, please refer to the table as shown below before regulating the percentage of reduction of the line space.

Effect of positions 4 and 5 on reduction of line space is defined as shown below:

SW4 Pos. 4	**OFF**	ON	OFF	ON
SW4 Pos. 5	**OFF**	OFF	ON	ON
Reduction of line space	**Disabled (Default)**	25% reduced	50% reduced	75% reduced

Reduction of line feed set through positions 6 and 7 of software switch 4 is designed for users to reduce the line feed of paper coming out of the printer each time in three particular percentages which are 25%, 50% and 75%. Please refer to the following table to adjust switch positions 6 and 7.
Effect of positions 6 & 7 on Line Feed Reduce as shown below:

SW4 Pos. 6	**OFF**	ON	OFF	ON
SW4 Pos. 7	**OFF**	OFF	ON	ON
Reduction of line feed	**Disabled (Default)**	25% reduced	50% reduced	75% reduced

Please reboot the printer after the switch settings are done.

SPECIFICATIONS

PRINTER UNIT

ITEM	DESCRIPTION
Communication	LAN / WLAN_IEEE 802.11 b/g (optional)
Effective paper width	80 or 58 +0/-1 mm (max.)
Paper spacing plate size	80 or 58 mm paper width
paper guide adaptor	80 & 58mm
Print width	64 mm (512 dots / line) / 72 mm (576 dots / line)
Print resolution	8 dots / mm, 512 (default) or 576 (max.) dots / line
Printing speed	170 mm / sec. (default) / 200 mm / sec.
Input buffer	6K
Cutting capability	Auto cutting and additional manual cutting
LED indicators	Power : Green; Error : Red; Paper Out : Red
Interface	CR port x1 / USB port x 1 / LAN port x1
Input power type	DC
Input voltage	24 V + / - 5 %
Temperature Range	Operation temp.: 0°C ~ +40°C Storage temp.: -20°C ~ +60°C Printing temp.: +5°C ~ +40°C
Humidity range	Operation: 20%RH ~ 85%RH, non-condensing / 35%RH above for auto cutter Storage: 5%RH ~ 90%RH, non-condensing (paper excluded)
Dimension (mm)	148 (W) x 205 (D) x 143 (H)
Weight	1.2 Kg net

PAPER ROLL

PAPER TYPE	DESCRIPTION
Outer diameter	83 mm max.
Inner diameter	12 + 1 / - 0 mm
Paper thickness	60 ~ 80 um

POWER ADAPTOR

ITEM	REQUIREMENT
Input voltage	100 V AC ~ 240 V AC
Input frequency	50 ~ 60 HZ
Output voltage	+ 24 V DC
Output power	60 W
EMI standards	VDE – A, FCC – A, VCCI – A