

THERMAL RECEIPT PRINTER

DC3R1, DC3R3 & DC3RW



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1. SHORT INTRODUCTION

The DC3R series is the latest addition to DCode industry-leading POS/Receipt printer series. Designed for use in variety of environments, DC3R Series offers more speed, features and reliability than ever before.

The latest in POS and retail technology, DC3R Series printer is a fast and efficient way to handle your cashiering needs.

These printers are suitable for any business need, streamlining your workflow, saving you time and money.

FEATURES

- Fast and versatile printing up to 260mm/second.
- Same fast print speed for both text and graphics.
- Ease-of-use features including drop-in paper loading, autocutter and status LEDs.
- OS support for Microsoft® Windows , Mac, Android and Linux.
- Low power consumption.
- Handles 80 or 58mm paper roll sizes.
- Improved cover design protects against foreign objects.
- Support QR Code and PDF417

2- APPEARANCE AND COMPONENTS

Front View

1- TOP COVER

2- PAPER EXIT WAY

3- FEED BUTTON

4- PAPER INDICATORE LED

5- ERROR INDICATOR LED

6- POWER INDICATOR LED

7- POWER SWITCH BUTTON

8- CUTTUR COVER

9- TOP COVER OPEN SWITCH



1- POWER ADAPTER CONNECTER

2- RJ 11 INTERFACE

3- ETHERNET INTERFACE

4- SERIAL INTERFACE

5- USB INTERFACE



Interior View

- 1- PLATEN ROLLER**
- 2- THERMAL PAPER SLOT**
- 3- PRINthead AND CUTTER**



3. TECHNICAL SPECIFICATION

1/2

Printing method	Direct thermal
Paper width	79.5±0.5mm
Print width	72mm
Column capacity	576 dots/line or 512 dots/line
Printing speed	260 mm/s
Interface	USB+Serial+Ethernet+Wifi +BT
Line spacing	3.75mm(Adjustable by commands)
Column number	80mm paper: Font A - 42 columns or 48 columns/Font B - 56 columns or 64 columns/ Simplified/Traditional Chinese - 21 columns or 24 columns
Character size	ANK, Font A: 1.5×3.0mm(12×24 dots) Font B: 1.1×2.1mm(9×17 dots) Simplified/Traditional Chinese:3.0×3.0mm(24×24 dots)
Cutter	
Auto cutter	Partial
Barcode Character	
Extension character sheet	PC437(Standard Europe) / Katakana / PC850(Multilingual) / PC860(Portugal) / PC863(Canadian) / PC865(Nordic) / West Europe / Greek / Hebrew / East Europe / Iran/WPC1252 / PC866(Cyrillic#2) / PC852(Latin2) / PC858 / IranII / Latvian / Arabic / PT151(1251)
1D Barcode	UPC-A/UPC-E/JAN13(EAN13)/JAN8(EAN8)/CODE39/ITF/CODABAR/CODE93/CODE128
2D Barcode	QR CODE / PDF417

3. TECHNICAL SPECIFICATION

2/2

Power	
Power adaptor	AC 100~240V, 50 ~ 60Hz
Printer Input	DC 24V/2.5A
Cash drawer	DC 24V/1A
Physical characteristics	
Weight	1.01 Kg
Dimensions	192*145.2*146.3mm(D*W*H)
Environmental Requirements	
Work environment	Temperature (0 ~ 45°C) humidity(10 ~ 80%)
Storage environment	Temperature(-10 ~ 60°C) humidity(10 ~ 90%)
Reliability	
Cutter life	1.5 million cuts
Printer head life	150Km
Software	
Emulation	ESC/POS
Driver	Windows/JPOS/Linux/OPOS/Android/Mac
Utility	Windows & Linux test Utility
SDK	iOS, Android, Windows

4. HOW TO LOAD MEDIA (THERMAL PAPER)

Follow the below step to load thermal paper -

- 1- Open the top cover by pressing the 'Top cover open switch'.**
- 2- Place a Thermal Paper Roll in the 'Thermal Paper Slot' with the ink-coated side facing the print head.**
- 3- Close the 'Top Cover' of the printer.**



5. BUTTON, LED INDICATOR AND FUNCTION

1. **FEED BUTTON** – This button is used to feed paper manually, to print self test page and to reset the printer.
2. **POWER SWITCH BUTTON** – This button is used to ON the printer.
3. **PAPER INDICATOR LED** – This LED indicates the thermal paper status. If Blue and Red are on means lack of paper.
4. **ERROR INDICATOR LED** – This LED indicates error like out of paper, Cutter error etc.
5. **POWER INDICATOR LED** – If Blue LED is on means printer is ON.

6. PRINTING SELF TEST PAGE AND RESET DEFAULT

Follow the below step to print out a self test page -

- 1- Connect the power adapter with printer and make sure the thermal paper is loaded.**
- 2- Press and hold the Feed button and turn On the printer by pressing power button. Release the Feed button after 2 second.**
- 3- A test page will print out. It will print internal settings of printer.**



Follow the below step to reset printer -

- 1- Connect the power adapter with printer.**
- 2- Press and hold the Feed button and turn On the printer by pressing power button. Release the Feed button after 20 second.**
- 3- Printer configuration will be restored to default.**

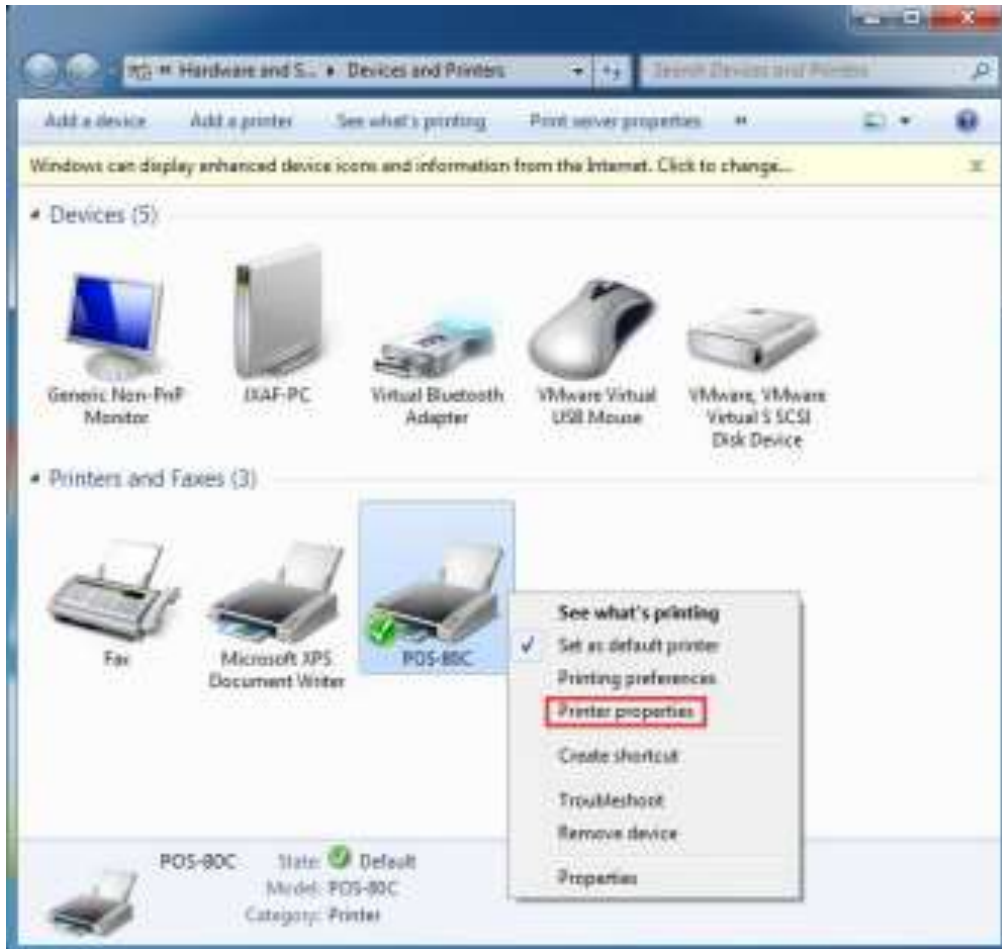
Follow the below step to use the printer-

- 1. Download the driver from link - <https://dcodeinternational.com/downloads/>**
- 2. Connect the power adapter and USB cable, Install the driver in PC same like other printer's driver.**
- 3. Go to 'Devices and Printers' and give a test print from 'Driver Icon' to make sure that driver is installed properly.**
- 4. Now right click on 'Driver Icon' and click on 'printing preferences'- Advance – select here paper setup from 'Paper Size' Option. In most cases you can select ' 80(72.1) X 297 mm'.**
- 5. Now go to you Application and make a bill or any other matter which you want to print and give print command by selecting 'POS-80C' printer.**

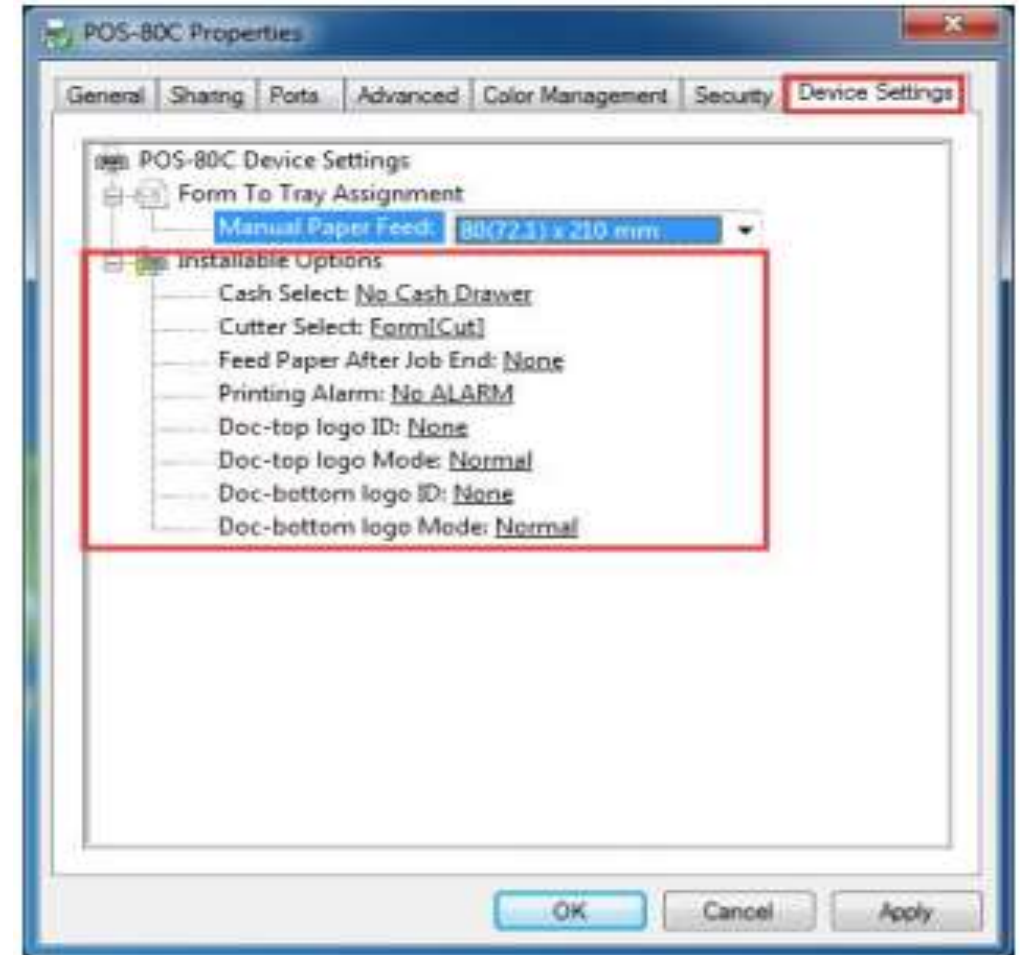
In most of application you need to add printer first in your app setting so do accordingly.

8. SETTINGS OF THE PRINTER DRIVER

- 1- Right click on Printer Driver's icon that has already been installed and then click "Printer Properties".
- 2- Now Click "Device Settings", from here you can set up printer according your own needs.



1



2

8. PRINTER TOOL

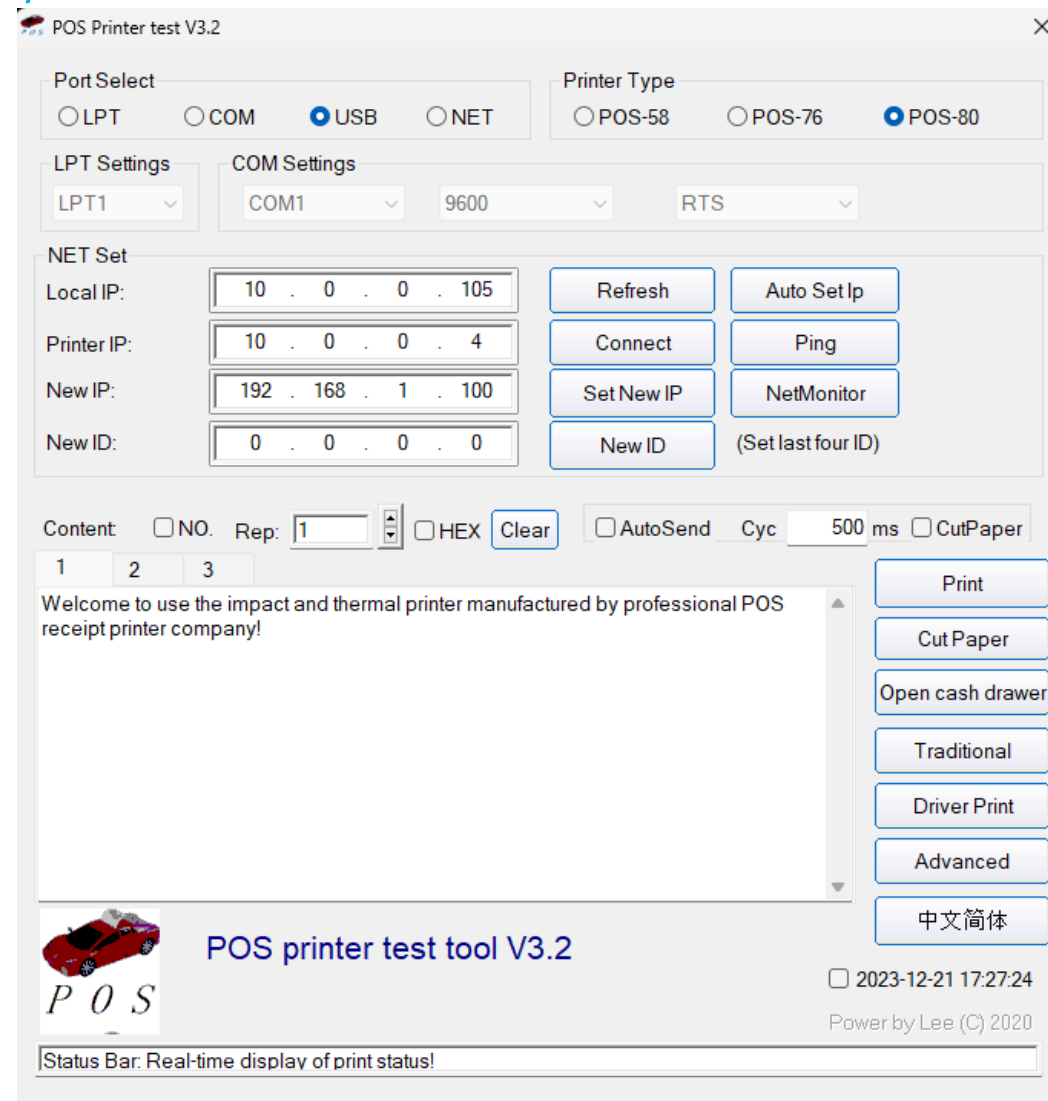
The name of Printer Tool is “POS PRINTER TEST” and you can set many printer parameter with the help of this tool like configure IP Address, Wi Fi Connectivity, Bluetooth configuration and many more.

Download link - <https://dcodeinternational.com/downloads/>

To Start POS PRINTER TEST-

Double click on POS Printer Test icon  POS Printer Test to start the application.

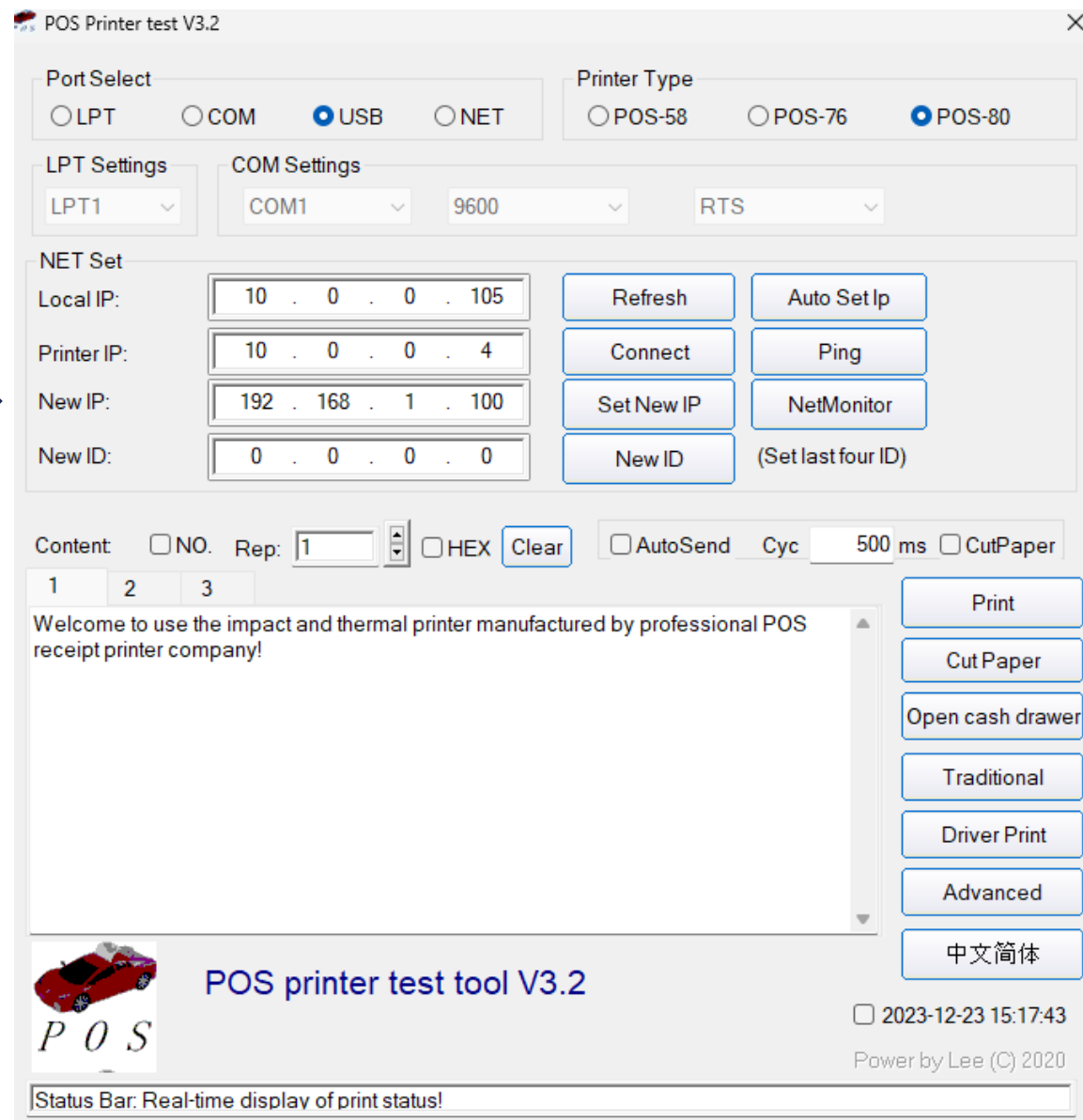
You will find there Interface, Printer type, Printer IP details, Printer Function , printer setup etc.



The screenshot shows the 'POS Printer test V3.2' application window. It features a 'Port Select' section with radio buttons for LPT, COM, USB (selected), and NET. The 'Printer Type' section has radio buttons for POS-58, POS-76, and POS-80 (selected). Below these are 'LPT Settings' (LPT1 selected) and 'COM Settings' (COM1 selected, 9600 baud rate, RTS selected). The 'NET Set' section includes fields for Local IP (10.0.0.105), Printer IP (10.0.0.4), New IP (192.168.1.100), and New ID (0.0.0.0), along with buttons for Refresh, Auto Set Ip, Connect, Ping, Set New IP, NetMonitor, and New ID. A 'Content' section has checkboxes for NO. (selected), Rep: 1, HEX (selected), Clear, AutoSend, Cyc: 500 ms, and CutPaper. A large text area displays 'Welcome to use the impact and thermal printer manufactured by professional POS receipt printer company!'. On the right, there are buttons for Print, Cut Paper, Open cash drawer, Traditional, Driver Print, Advanced, and 中文简体. The bottom status bar shows 'Status Bar: Real-time display of print status!'.

Configuring IP Address through POS Printer Test Tool

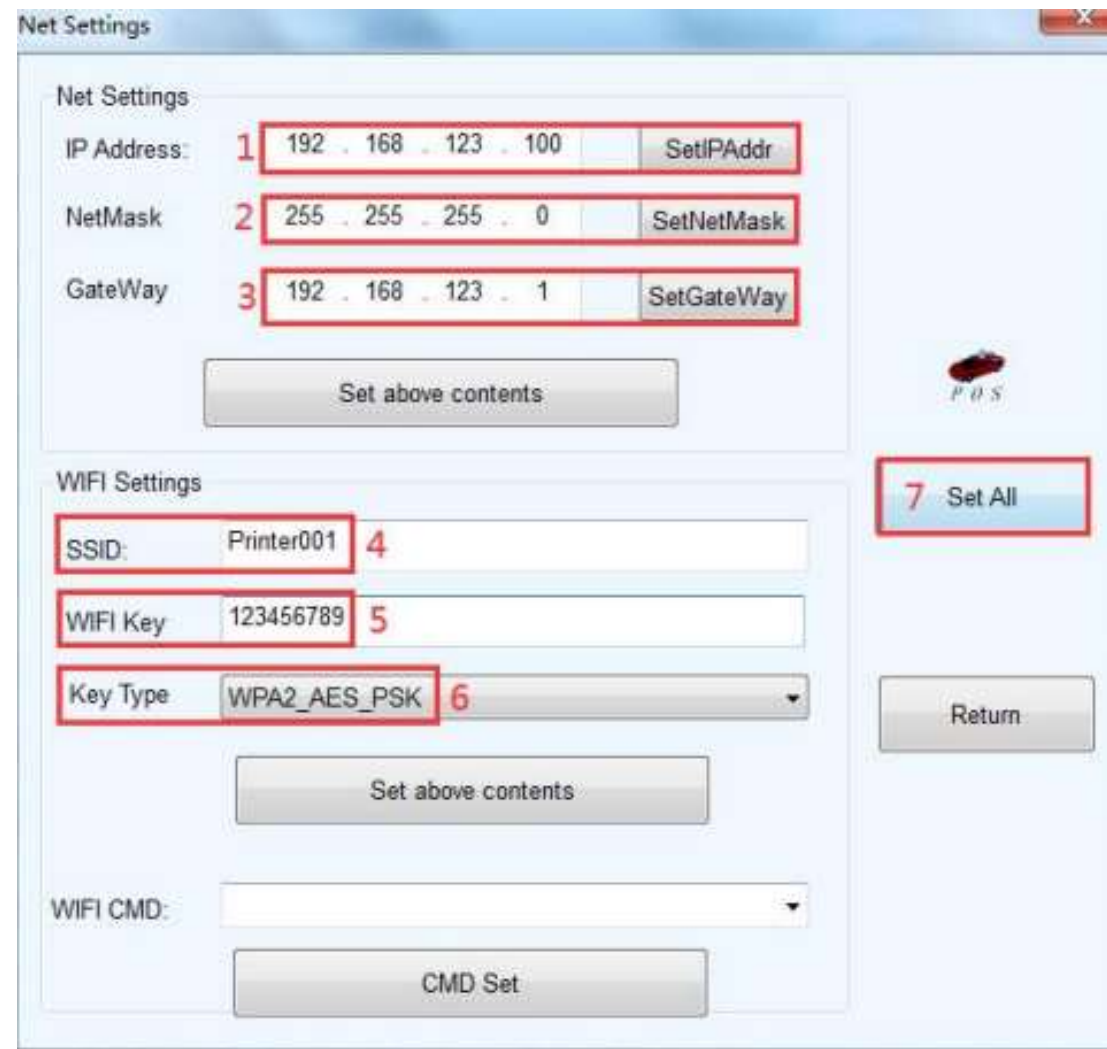
1. Connect the USB cable between the computer and the printer.
2. Turn on the printer power.
3. Open POS Printer Test Tool and set interface. (The default setting is USB).
4. Enter the IP address according your network range in "New IP" Column and click "Set New IP" button to complete the IP setting.



The screenshot shows the 'POS Printer test V3.2' application window. At the top, there are two sections: 'Port Select' with radio buttons for LPT, COM, USB (selected), and NET; and 'Printer Type' with radio buttons for POS-58, POS-76, and POS-80 (selected). Below these are 'LPT Settings' (LPT1 selected) and 'COM Settings' (COM1, 9600, RTS). The 'NET Set' section contains four IP address input fields: 'Local IP' (10.0.0.105), 'Printer IP' (10.0.0.4), 'New IP' (192.168.1.100), and 'New ID' (0.0.0.0). To the right of these fields are buttons for 'Refresh', 'Auto Set Ip', 'Connect', 'Ping', 'Set New IP', 'NetMonitor', 'New ID', and '(Set last four ID)'. Below the IP settings is a 'Content' section with checkboxes for 'NO.' and 'HEX', a 'Rep' field set to 1, a 'Clear' button, and checkboxes for 'AutoSend', 'Cyc' (500 ms), and 'CutPaper'. A large text area displays a welcome message: 'Welcome to use the impact and thermal printer manufactured by professional POS receipt printer company!'. To the right of this area are buttons for 'Print', 'Cut Paper', 'Open cash drawer', 'Traditional', 'Driver Print', 'Advanced', and '中文简体'. At the bottom, there is a logo for 'POS', the title 'POS printer test tool V3.2', a timestamp '2023-12-23 15:17:43', the text 'Power by Lee (C) 2020', and a status bar that reads 'Status Bar: Real-time display of print status!'.

Configuring Wi Fi Connection through POS Printer Test Tool

1. Connect the USB cable between the computer and the printer.
2. Turn on the printer power.
3. Open POS Printer Test Tool and set interface. (The default setting is USB).
4. Click on “Advance” option then click on “Set Net” in Net setting.
5. Now Enter one IP Address, Subnet Mask and Default Gateway Of your router range.
6. Enter your Wi Fi SSID Name, Password and Security Type.
7. Now click on “Set All” option to complete the settings.



Net Settings

IP Address: 1 192 . 168 . 123 . 100 SetIPAddr

NetMask 2 255 . 255 . 255 . 0 SetNetMask

GateWay 3 192 . 168 . 123 . 1 SetGateWay

Set above contents

WiFi Settings

SSID: Printer001 4

WiFi Key 123456789 5

Key Type WPA2_AES_PSK 6

Set above contents

WIFI CMD:

CMD Set

Return

7 Set All

Configuring the Bluetooth Name and Password of Printer through POS Printer Test Tool

1. Connect the USB cable between the computer and the printer.
2. Turn on the printer power.
3. Open POS Printer Test Tool and set interface. (The default setting is USB).
4. Click on “Advance” option then click on “Set Bluetooth” in Net setting.
5. Now Enter the Bluetooth Name and Password according your choice. (Default BT Name is ‘Printer001’ and Password is ‘123456’).
6. Now click on “Set ” option to complete the settings.

Bluetooth Settings

settings

BT NAME: 1 Printer001 ☒

BT PINKEY: 2 123456 ☒

BT USER ☐

3

Set

9. TROUBLESHOOTINGS (FAQ)

PROBLEM	POSSIBLE CAUSE	SOLUTION
<ul style="list-style-type: none">If printer is not Getting On	<ul style="list-style-type: none">The power Adapter is not properly connected.Power Button may be Off.	<ul style="list-style-type: none">Plug the power Adapter in printer and Power socketOn the power button of printer.
<ul style="list-style-type: none">Paper Jam issue	<ul style="list-style-type: none">Paper is loaded incorrectlyPaper may stuck with cutter	<ul style="list-style-type: none">Reload paper and Restart printerOpen the Cutter cover and move the white gear so that cutter could move his initial position. Remove the jammed paper and close cutter cover.
<ul style="list-style-type: none">Blank Paper Printing.	<ul style="list-style-type: none">Paper is loaded incorrectly.	<ul style="list-style-type: none">Please load the paper correctly. (Ink-coated side facing the print head)
<ul style="list-style-type: none">Poor Print Quality	<ul style="list-style-type: none">Media is loaded incorrectlyDust or adhesive on the print head.Print density is not set properly.	<ul style="list-style-type: none">Reload / change the media Roll.Clean the print head and platen roller.Adjust the print density.
<ul style="list-style-type: none">No any printout while giving print command.	<ul style="list-style-type: none">Printer may be off.USB Cable not connected properly.USB Cable may be damage.Wrong port selected in driver.Pending documents in printer driver	<ul style="list-style-type: none">Do power on of printer.Re-connect USB cableCheck with another USB cableSelect correct port in Printer driver.Clear the pending documents from printer driver.

10. MAINTENANCE & CAUTIONS

1. **Timely clean the print head to avoid poorer print quality and extend Print head life.**
2. **Perform a routine cleaning of platen roller and Cutter.**
3. **Please make sure power off when maintaining printer.**
4. **Do not touch or scratch printing head surface and platen roller.**
5. **Be sure to install your printer on a stable surface and prevent it from vibration and impact.**
6. **Do not use and store in locations subject to high temperature, humidity or pollution level.**
7. **Do not print without paper, it may damage platen roller and print head.**
8. **Quality paper roll is recommended for premium printing and product maintenance.**
9. **Be sure the turn the printer off when plugging and unplugging.**
10. **Avoid water or other materials like metal get into the intern of printer. If it happens, unplug the AC power cord immediately.**

