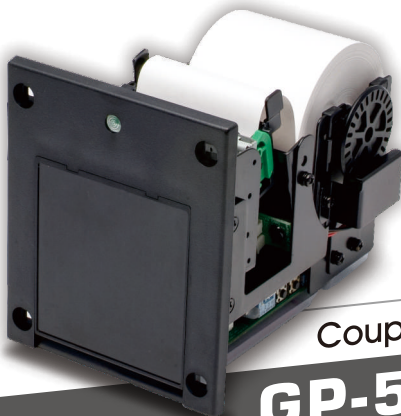




Coupon Printer

**GP-58DR**

Installation Guide

International Currency Technologies Corp.

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# **1. Introduction**

The GP-58DR has a built-in real time clock for the ticket time stamping. Its excellent reporting system provides daily and summary transaction reports. The GP-58DR stores up to 365 days of daily reports, and the reports can be deleted if no longer needed.

Both coupon and receipt are customizable. The downloadable design provides the flexibility to use the customized ticket formats and logos in an easy way. Using the GP-58DR software tools, the designed format can be saved for later use.

## **1-1. Feature**

- Full / partial cut function.
- User-friendly multiple interfaces.
- Easy installation and low maintenance.
- Fast printing speed.
- 12V DC power consumption available.
- Support 56mm paper rolls.
- Supports QR code generation and printing.(For Gaming)

## **2. Specifications**

### ***General***

|                              |                                                                                                                       |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Power Source</b>          | 12V DC (10.8~13.2 VDC)                                                                                                |
| <b>I/O Level</b>             | DC 0V~12V<br>5mA~130mA                                                                                                |
| <b>Paper Width</b>           | 56 ±0.5mm                                                                                                             |
| <b>Paper Roll Diameter</b>   | 65 ±0.5mm                                                                                                             |
| <b>Interface</b>             | RS232(ICT Protocol)<br>Pot of Gold<br>Pulse                                                                           |
| <b>Power Consumption</b>     | Standby : 0.06A<br>Operation : 1.85A, 24W<br>Maximum : 6A                                                             |
| <b>Operation Environment</b> | Operation Temperature : 0°C~+50°C<br>Storage Temperature : -20°C~+60°C<br>Humidity : 30 %~85 %RH<br>(no condensation) |
| <b>Weight</b>                | Approx. 700g                                                                                                          |
| <b>Installation</b>          | Indoor                                                                                                                |

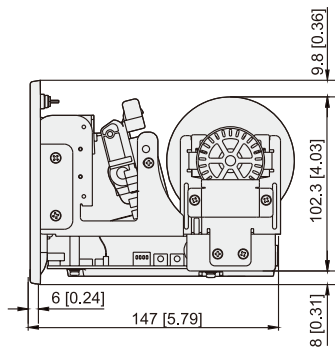
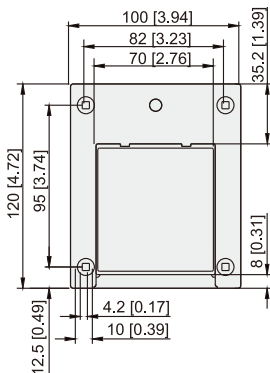
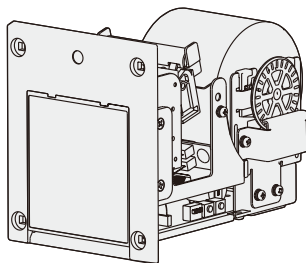
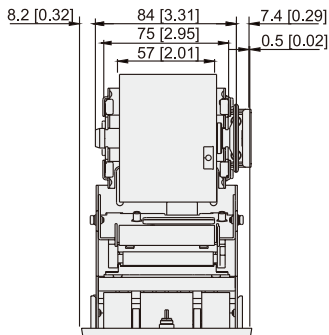
### ***Cutter***

|                  |                   |
|------------------|-------------------|
| <b>Thickness</b> | Max. 0.12mm       |
| <b>Life Time</b> | Max. 500,000/time |
| <b>Time</b>      | Max. 1 sec/time   |

### ***Print head***

|                   |           |
|-------------------|-----------|
| <b>Life</b>       | 30KM      |
| <b>Resolution</b> | 8 dots/mm |
| <b>Speed</b>      | 40mm/Sec  |

### 3. Dimension



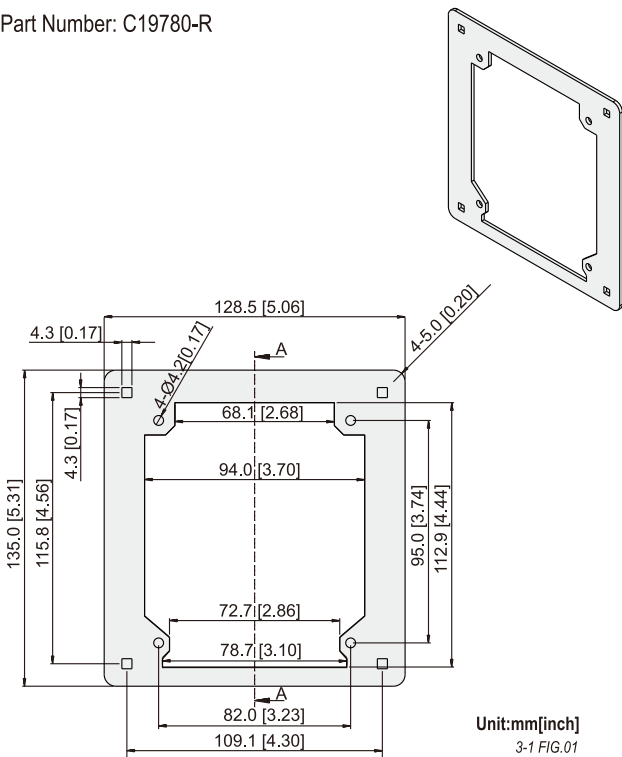
Unit:mm[inch]

3 FIG.01

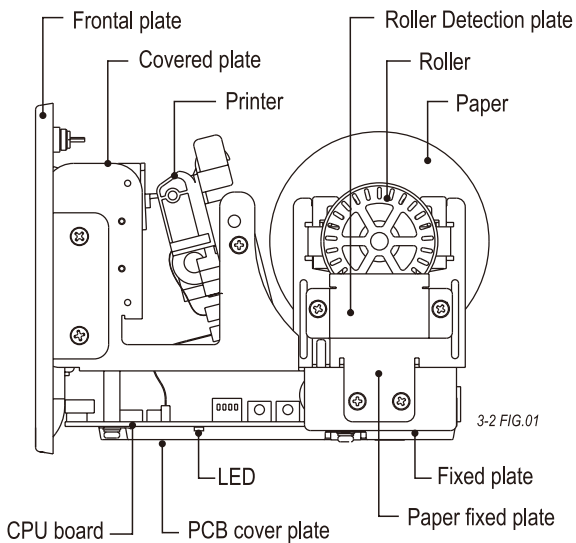
### 3-1. Metal Frame (Optional)

For VMC bezel which is larger than GP58DR bezel.

Part Number: C19780-R



## 3-2. Component Names



## 4. Hardware Setup

### 4-1. Connection

Please refer to the pictures and tables on the following pages for information about the function of each of the connector pins.



#### CN7 C/A & B/A

|                    |                                     |
|--------------------|-------------------------------------|
| PIN 1- Red.....    | +12V DC                             |
| PIN 2- Black.....  | GND                                 |
| PIN 3- Brown.....  | Coin in signal, Input, Open Collect |
| PIN 4- Orange..... | Note in signal. Input, Open Collect |
| PIN 5- Yellow..... | Payout Trigger, Input, Open Collect |
| PIN 6- Green.....  | Ticket Out, Output, Open Collect    |
| PIN 7- Blue.....   | Error output, Output, Open Collect  |

#### CN2 Serial Interface

|                                 |
|---------------------------------|
| PIN 1- GND                      |
| PIN 2- TXD2, Output, TTL Level. |
| PIN 3- RXD2, Input, TTL Level.  |
| PIN 4- PROGRAM                  |
| PIN 5- /RESET                   |
| PIN 6- VCC (+5V DC)             |
| PIN 7- RXD1, Input, TTL Level.  |
| PIN 8- TXD1, Output, TTL Level. |



**Do not use RS232 and USB simultaneity.**

## 4-2. DIP Switch Setup

(a) Pulse/RS232 mode:



4-2 TABLE 01

| Interface               | Function    | SW1 | SW2 | SW3  | SW4 |
|-------------------------|-------------|-----|-----|------|-----|
| <b>Pulse/<br/>RS232</b> | Part Cut    | OFF |     | N.A. | OFF |
|                         | Full Cut    | ON  |     |      |     |
|                         | 38400/N/8/1 |     | OFF |      |     |
|                         | 9600/N/8/1  |     | ON  |      |     |

(b) POG mode:

4-2 TABLE 02

| Interface  | Function      | SW1  | SW2 | SW3 | SW4 |
|------------|---------------|------|-----|-----|-----|
| <b>POG</b> | N.A.          | N.A. |     |     | ON  |
|            | 2400/N/8/1    |      | OFF |     |     |
|            | 9600/N/8/1    |      | ON  |     |     |
|            | POS-A 、 POS-F |      |     | OFF |     |
|            | POS-I         |      |     | ON  |     |

## 4-3. Button Key

(only work in Pulse/RS232 mode)



4-3 TABLE 01

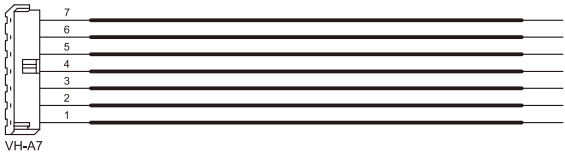
| Interface               | Function                  | KEY1          | KEY2          | SW4 |
|-------------------------|---------------------------|---------------|---------------|-----|
| <b>Pulse/<br/>RS232</b> | Print Daily Report        | Short Pressed |               | OFF |
|                         | Print Printer Information | Long Pressed  |               |     |
|                         | Paper Forward             |               | Short Pressed |     |

## 4-4. Harness application

4-4 TABLE.01

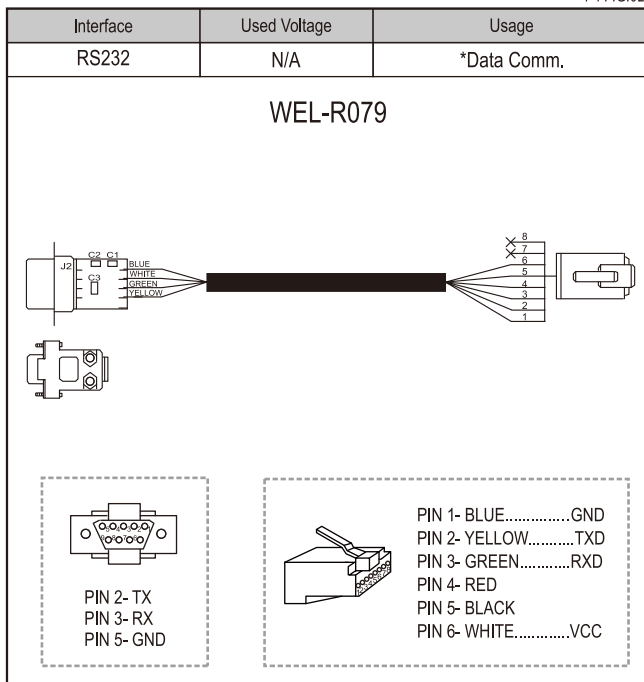
| Interface            | Used Voltage | Usage               | Harness       | Page |
|----------------------|--------------|---------------------|---------------|------|
| <b>Pulse/ Hopper</b> | 12V DC       | Power & *Data Comm. | WEL-R082      | 10   |
| <b>RS232</b>         | N/A          | *Data Comm.         | WEL-R079      | 11   |
| <b>POG</b>           | N/A          | *Data Comm.         | 5RTP-00580P0B | 12   |

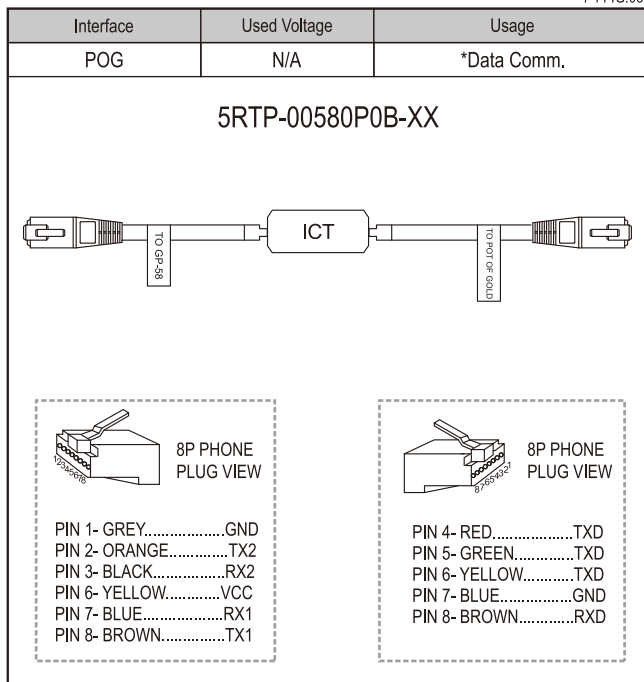
4-4 FIG.01

| Interface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Used Voltage | Usage               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------|
| Pulse/ Hopper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 12V DC       | Power & *Data Comm. |
| <p style="text-align: center;"><b>WEL-R082</b></p>  <p style="text-align: center;">VH-A7</p> <div style="border: 1px dashed black; padding: 10px; margin-top: 20px;"> <p>PIN 1- RED.....+12VDC<br/>             PIN 2- BLACK.....GND<br/>             PIN 3- BROWN.....COIN _IN TRIGGER<br/>             PIN 4- ORANGE.....NOTE _IN TRIGGER<br/>             PIN 5- YELLOW.....PAYOUT TRIGGER<br/>             PIN 6- GREEN.....TICKET_OUT<br/>             PIN 7- BLUE.....ERROR_OUT</p> </div> |              |                     |



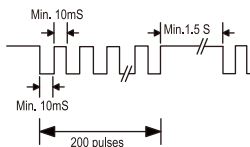
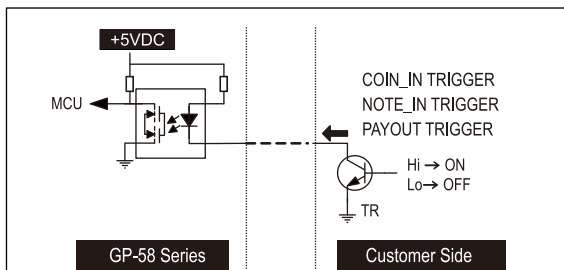
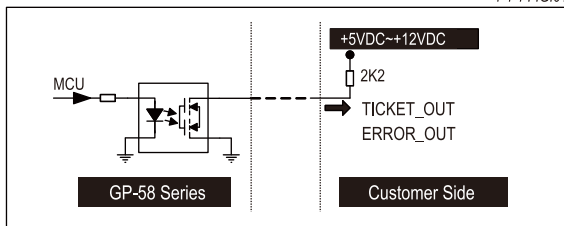
PIN3~PIN5 Normal Input Voltage: HI DC 5V~12V.  
 Trigger Level Voltage: Low 0V (GND) Output Current Max. 5mA.  
 PIN6~PIN7 Normal Floating.  
 Output Signal: Low 0V (GND) Input Current Max. 130mA.





## 4-4-1. I/O Circuit

4-4-1 FIG.01



Ex.

A user sends 200 pulses (trigger signal) to GP-58, afterward, GP-58 detect a Hi level and if this continues longer than 1.5 seconds, then GP-58 will print out "200" amount on ticket.

## 4-5. Setup Procedures

### General Setup:

Step 1. Connect WEL-R082 to CN7 on PCB.

Step 2. Install paper roll into paper roll container on machine, paper roll is required to be setup according to the same direction of raster. (Please refer to Chapter 6.)

Step 3. **For RS-232 or Coupon/ Receipt Format Setup:**

Connect WEL-R079 to PC COM port and CN2 on machine.  
(Page 11, 4-4 FIG.02)

Step 4. Turn power on and install paper roll properly, the machine will automatically detect the paper (Approx. 2 seconds) and roll the paper into the printing module.

If the installation of the paper roll is correct, the machine is ready for printing.

Working light on the machine's bezel will be on.

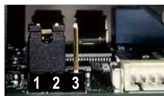
(Please connect the wires as Page 16, 4-5 FIG.01)

Step 5. JP1 is for battery setting.

Switch between enable and disable for battery setting.

#### Battery Enable.

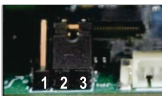
1,2 PIN Short



**\*Default setting is Enable.**

#### Battery Disable.

2,3 PIN Short



## Pot of Gold Setup:

Step 1. Connect WEL-R082 to CN7 on PCB.

Step 2. Install paper roll into paper roll container on machine, paper roll is required to be setup according to the same direction of raster. (Please refer to Chapter 6.)

Step 3. Connect 5RTP-00580P0B-xx to VMC and CN2 on machine.  
(Page 12, 4-4 FIG.03)

Step 4. Turn power on and install paper roll properly, the machine will automatically detect the paper (Approx. 2 seconds) and roll the paper into the printing module.

If the installation of the paper roll is correct, the machine is ready for printing.

Working light on the machine's bezel will be on.

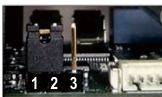
(Page 17, 4-5 FIG.02)

Step 5. JP1 is for battery setting.

Switch between enable and disable for battery setting.

### Battery Enable.

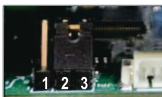
1,2 PIN Short

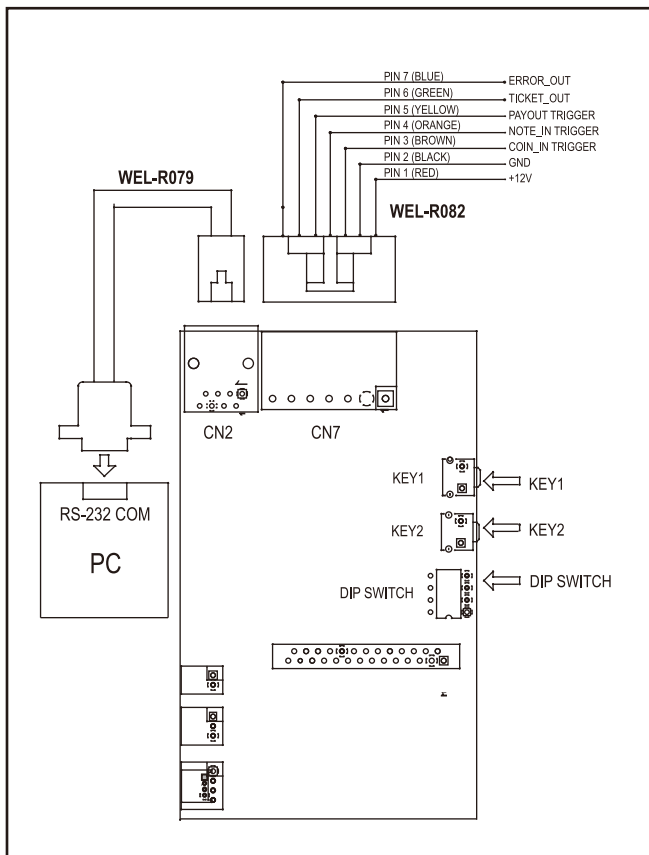


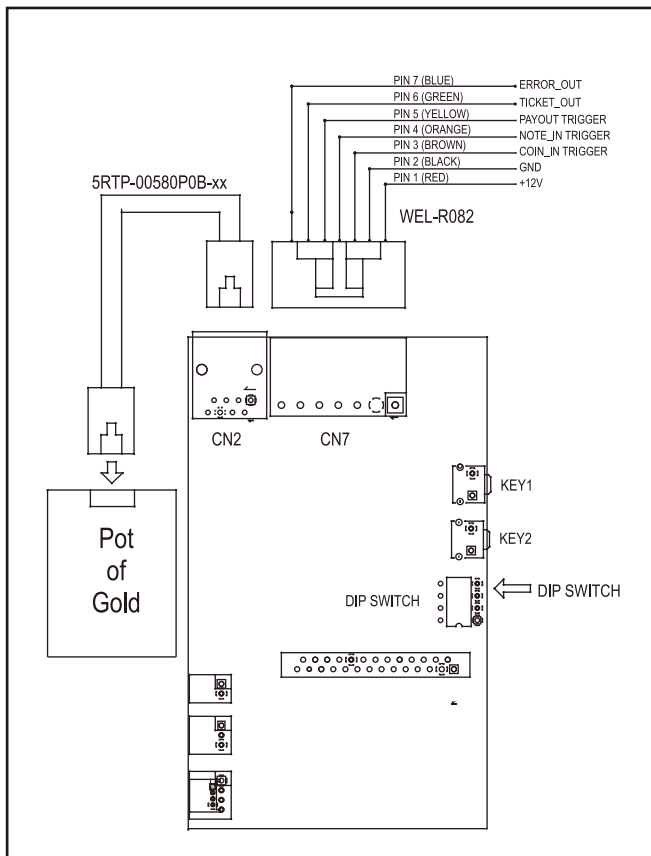
\*Default setting is Enable.

### Battery Disable.

2,3 PIN Short







## **5. Software Setup**

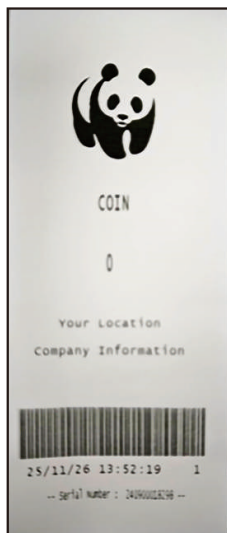
### **5-1. Coupon & Receipt Setup**

The GP-58DR can print two different types of tickets, each for a different purpose:

A coupon indicates the payout points for the player.

A receipt is provided to the player when s/he inserts coins or bills into the C/A or B/A.

The format of the coupon and receipt can be designed and changed by yourself and then upload it into machine by using GP-58DR Tools utility.



5-1 FIG.01

## 5-2. GP-58DR Tools

Please visit ICT web site <http://www.ictgroup.com.tw> to download the Tool.

### DOWNLOAD AREA

---

Download Area »

Client Area »

Contact Support »

Technical Enquiry »

#### Select Search

---

Please select a product to check the available files, choosing among operating manuals and product sheets, firmware and software, datasets and drivers. If you don't find what you are looking for, please contact us using the Request Form.

GP-58XR ▾

User's Tool ▾

English ▾

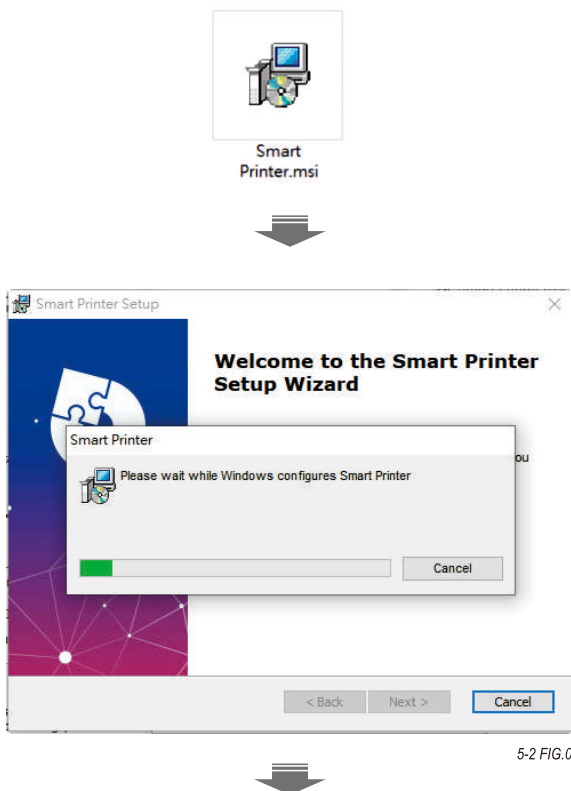
All ▾

SUBMIT ➤

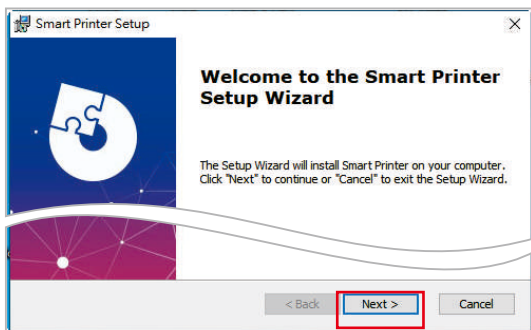
### Printer Tool.

Before Setup Printer Tool , Please select appropriate Windows OS.  
Printer support: Windows 7, Windows 10, Windows 11.

Step 1. Double click the msi install file as shown below:

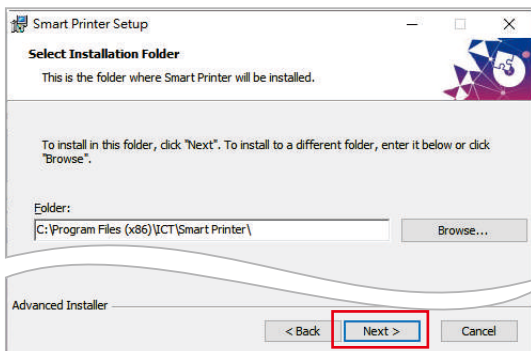


Step 2. Click “**Next**” button and start to install “**Smart Printer**” tool.



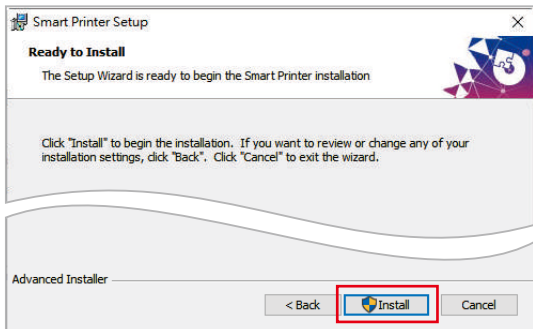
5-2 FIG.03

Step 3. Check and confirm the install path and click the “**Next**” button.



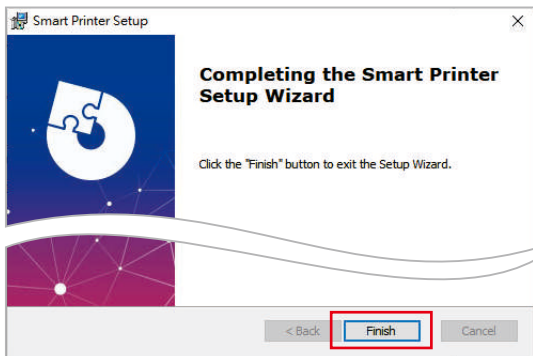
5-2 FIG.04

Step 4. Click the “**Install**” button.



5-2 FIG.05

Step 5. Smart Printer tool is installed completely and click the “**Finish**” button to exit the install process.



5-2 FIG.06

## Printer configure Setting and Print Ticket for GP-58 DR.

Step 6. Open the “**Smart Printer**” tool.

Method 1:

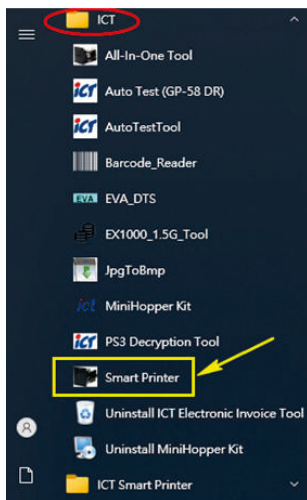
Double Click



from Desktop.

Method 2:

One Click



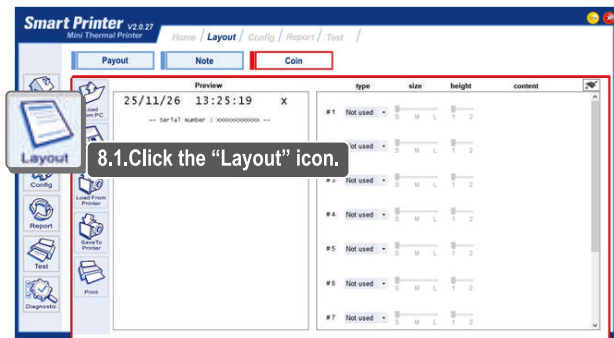
from Start menu.

- Step 7. Select a **COM port** to connect GP-58 DR and PC.  
Check the Information of GP-58 DR (Click the “**Home**” icon)



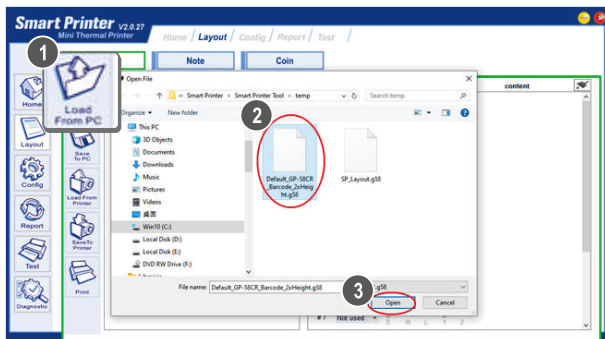
5-2 FIG.07

- Step 8. Load and set the default print script from PC.



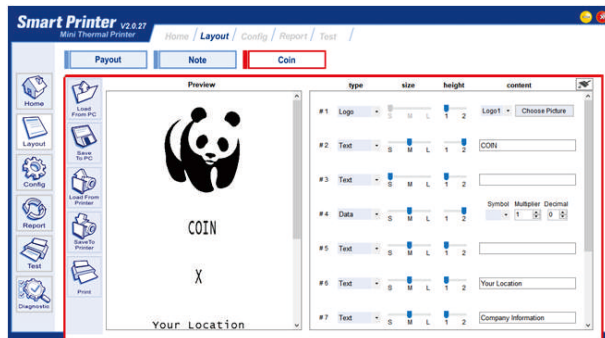
5-2 FIG.08

8.2. Click the “Load From PC” icon and select the default script file (File extension is g58) to load the default Logo and Texts.



5-2 FIG.08-1

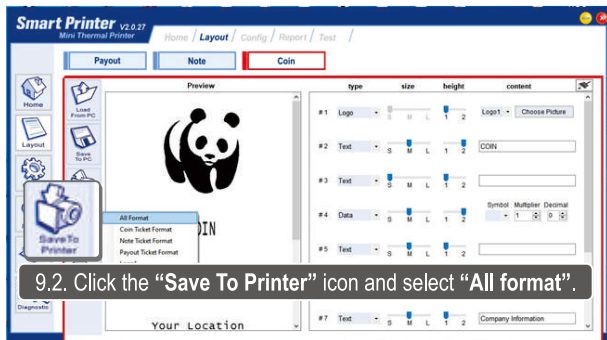
8.3. Load and show the default Logo and Texts.



5-2 FIG.08-2

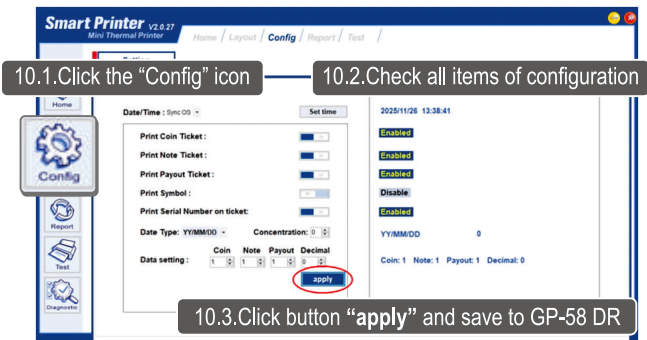
Step 9. Save the default print script to GP-58 DR.

9.1. Check and confirm the print script.



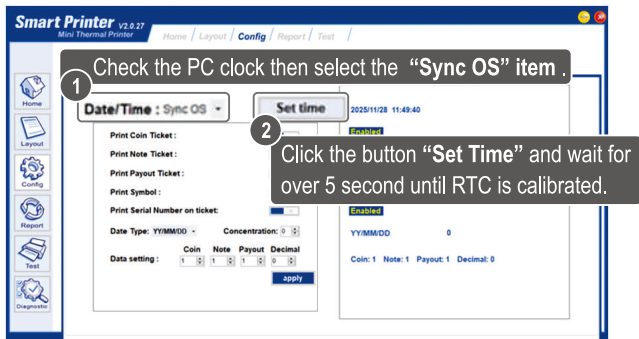
5-2 FIG.09

Step 10. Set the print configuration for GP-58 DR.



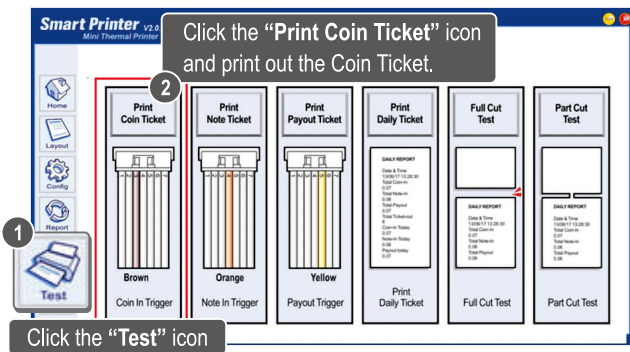
5-2 FIG.10

## Step 11. RTC calibration for GP-58 DR.



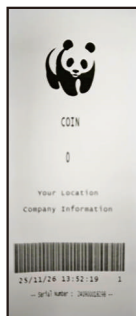
5-2 FIG.11

## Step 12. Print Test for GP-58 DR.



5-2 FIG.12

## 12-1. Print Coin Ticket.



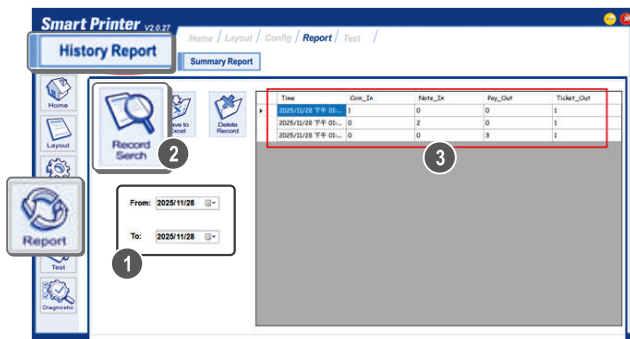
5-1 FIG.12-1

## Step 13. Daily History Report for GP-58 DR

Click the “**Report**” icon and “**History Report**” tab.

Select and set the Start Data & End Date of History Report.

Input the tracking period then Click the “**Record Search**” icon it will Report the transaction records on the right side.

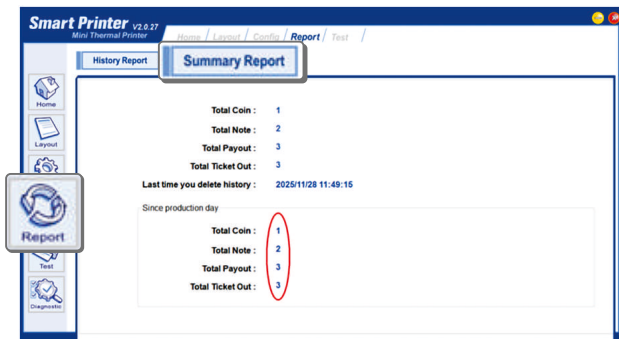


5-2 FIG.13

Step 14. Summary Report for GP-58 DR.

Click the “**Report**” icon and “**Summary Report**” tab.

Summary Report are shown on the lower side.



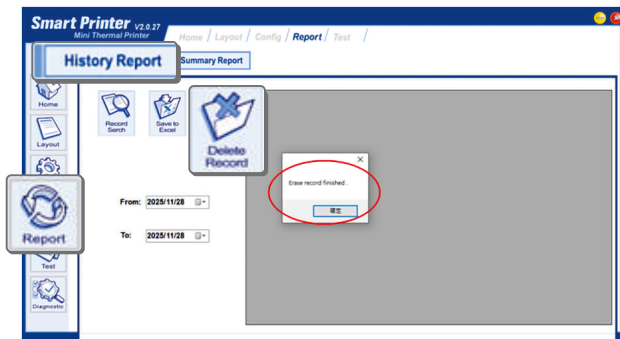
5-2 FIG.14



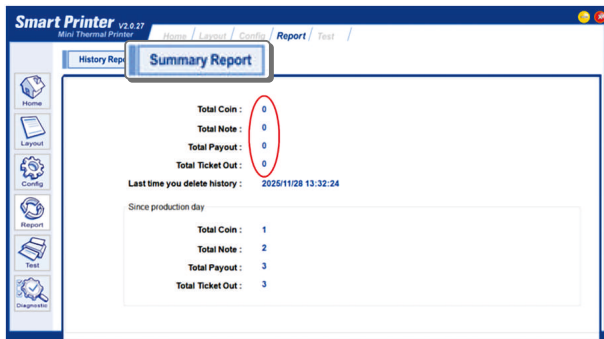
Step 15. Delete History Report for GP-58 DR.

Click the “**Report**” icon and “**History Report**” tab.

Click the “**Delete Record**” icon.



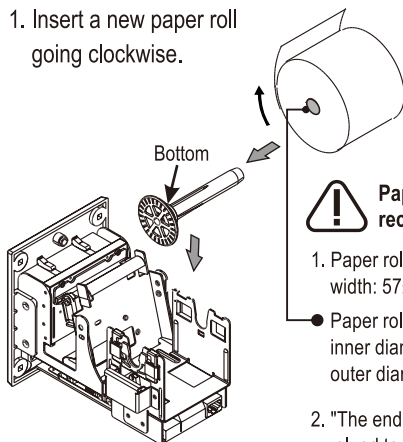
5-2 FIG.15



5-2 FIG.15-1

## 6. How to replace a new paper roll?

1. Insert a new paper roll going clockwise.



6 FIG.01



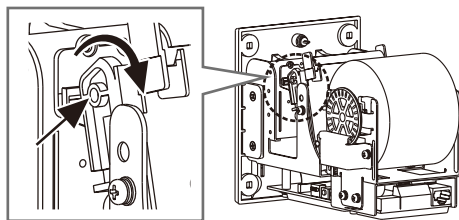
### Paper Roll Purchase recommendation

1. Paper roll size  
width:  $57 \pm 1\text{mm}$ , diameter:  $80 \pm 2\text{mm}$
- Paper roll core  
inner diameter:  $13 \pm 0.5\text{mm}$ ,  
outer diameter:  $20.4 \pm 1\text{mm}$
2. "The end of the paper" needs to be  
glued to "the paper roll core".



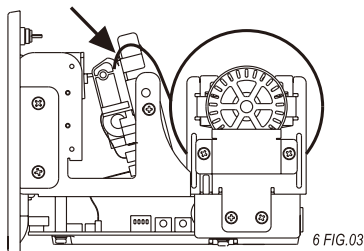
Please push paper roll to the bottom while installing.

2. Push the printer lever clockwise.

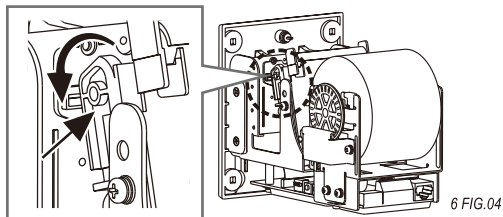


6 FIG.02

3. When Detector Sensor automatically detect paper, installation completes.



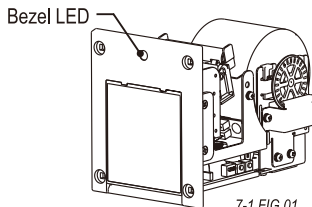
4. Push the printer lever back counterclockwise.



| Maintenance Notice                                                                  |                                                        |
|-------------------------------------------------------------------------------------|--------------------------------------------------------|
|  | Recommended Mild, non-abrasive, soap water.            |
|                                                                                     | DO NOT USE Organic solvent , Alcohol, Volatile liquid. |

## 7. Troubleshooting

### 7-1. Bezel LED Error



7-1 FIG.01

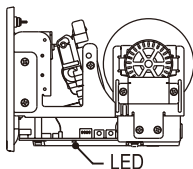
7-1 TABLE 01

| Message Light | Status            | Solution              |
|---------------|-------------------|-----------------------|
| Green Flash   | Low paper warning | Refill new paper roll |



**If the error can not be solved after corrective actions or it recurs, please contact ICT for technical support.**

## 7-2. LED Error



7-2 FIG.01

7-2 TABLE 01

| Message Light                  | Status                                         | Solution                                                                                      |
|--------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Red</b>                     | Check Sum error.                               | 1. Re-download program.<br>2. Contact with retailer.                                          |
| <b>Red flash<br/>1 time</b>    | Thermal head no paper.                         | Re-feed paper into the Thermal head.                                                          |
| <b>Red flash<br/>2 time</b>    | Paper Cutter abnormal.                         | 1. To make sure paper path jam-free.<br>2. Check cutter cable connection.                     |
| <b>Red flash<br/>3 time</b>    | 1. Out of paper.<br>2. Raster sensor abnormal. | 1. Refill new paper roll.<br>2. Contact the retailer.                                         |
| <b>Red flash<br/>4 time</b>    | Thermal head over heat.                        | Contact the retailer.                                                                         |
| <b>Red flash<br/>5 time</b>    | Thermal head heating over time.                | Contact the retailer.                                                                         |
| <b>Red flash<br/>6 time</b>    | Raster count abnormal .                        | 1. Confirm the roller clicked into the plate.<br>2. Check roller detection sensor connection. |
| <b>Blue</b>                    | Printer power up - Boot1.                      |                                                                                               |
| <b>Purple</b>                  | Printer power up - Boot2.                      |                                                                                               |
| <b>Blue flash</b>              | Firmware upgrading.                            |                                                                                               |
| <b>Yellow flash<br/>2 time</b> | Incorrect RTC Date.                            | 1. Check the JP1 jumper switch to enable.<br>2. Reset date and time of RTC using tool.        |



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