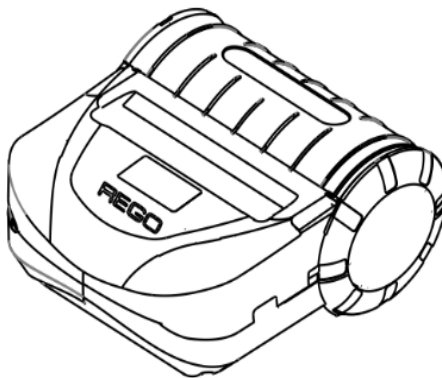


# RG-MLP80A

Mobile Label Printer



**User Manual**  
V1.00

**REGO**

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## Precautions

### About the manuals

We thank you for your use of RG-MLP80A mobile label printer.

Below is the introduction for all the manuals for RG-MLP80A, so that you will know how to use and develop it.

1. 《RG-MLP80A User Manual》 : Provide detailed hardware/physical/technical information for the printer.
2. 《REGO Thermal Printer Technical Manual》 : Provide the command information for developers.
3. 《RG-SetTools User Manual》 : Please refer to the manual to use the tool and setup the printer parameters.

### Notice:

- In order to improve the function and performance of the product, REGO reserves the right to change the software and hardware specifications in the manuals without prior notice.
- If you find any errors or omissions in the information mentioned in these manuals, please feedback to us or our dealer, and it will be highly appreciated.
- Without the prior written permission of REGO, the contents of the relevant manuals attached to this product shall not be reproduced or transmitted, transcribed, stored in a retrieval system, or translated into other languages in any form or in any manner.

### Statement

This product is Class A. In a normal environment, this product may cause radio interference. In this case, users may be required to take practical measures against interference.

## Safety Precautions

- Be sure to use the specified battery and power supply provided by our company. Otherwise it may cause fire, explosion or damage printer, meanwhile, the battery also may be damaged.
- Don't put battery into the fire, don't disassemble or heat the battery, don't be short circuit, it may cause fire, explosion or damage printer. Meanwhile, the battery also may be damaged.
- If the printer would not be used for a long time, be sure to remove the battery, otherwise the battery may leak liquid which is corrosive liquid. If improper operation causes battery leak liquid, and it pastes in the skin or clothes, please rinse it by clean water. And if pastes in the eyes, please rinse them thoroughly by clean water and see a doctor.
- Please do not open the paper case cover when it is printing or just when printing is finished, do not touch the print head with hand or body, overheat may cause scald.
- Please do not touch the print head surface and connection cables, otherwise the static electricity may damage the print head.

## Operation Precautions

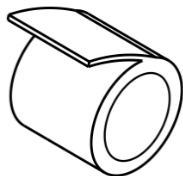
- Water or other liquid should not be spilled into the printer, also the printer should not be appeared in the rain, or else may cause printer damage.
- Please do not open the paper case cover when it is printing, otherwise the printer may work improperly.
- If printer is using Serial or USB connection to work, should not unplug the Serial or USB cable, or else some printing data may be lost. When printer is using Bluetooth connection to work, the distance of communication should be within 10 meters, and when using WIFI, the distance of communication should be within 30 meters indoors and 100 meters outdoors. Otherwise the printer doesn't print or prints abnormally.
- Too high (over 45°C) or too low (below 5°C) environment temperature and too high (over 85%) or too low (below 20%) environment humidity both effect the printing quality.
- The printer paper roll with poor quality or stored for too long time also may reduce the printing quality even damage the printer.
- Under the black mark detecting mode, the printer requires that the pre-printed black mark is accordant with the printing rule of black mark (please refer to details in Chapter 4.2), otherwise the black mark can not be detected correctly. While under the label detecting mode, the printer shall be accordant with the printing rule of label detection (please refer to details in Chapter 4.3).

- It would be better use up the power of the battery before charge up it, as it can ensure the using life of the battery. Usually the life the battery is: it only has 80% capacity after charge and discharge 500 times. The battery performance will be decreased with the increase of the charge and discharge times.

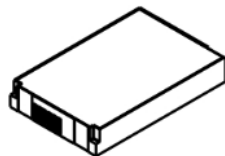
## Storage Precautions

- The printer should be placed in such an environment that the temperature is between  $-40^{\circ}\text{C}$  and  $70^{\circ}\text{C}$ , and the relative humidity is between 10% and 95%.
- Normal thermal paper, label and black mark paper can't be kept too long, if you need to keep the receipt or label for a long period, please choose long-term effective thermal paper or label. The thermal paper and label should be keep away from high temperature environment and point-blank sunshine, please store it where is away from light if it has been open.
- If the printer will be stored for a long time, please be sure to remove the battery and store it separately. Otherwise may damage the battery and printer.
- The battery shall be charged upon it stored more than 3 months, otherwise it may be damaged by self-discharging.

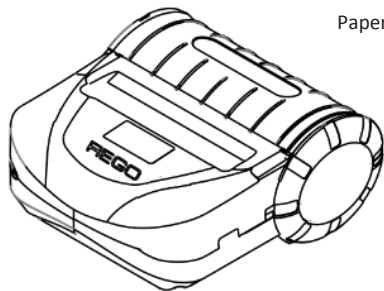
## 1. Standard Accessories



Paper Roll



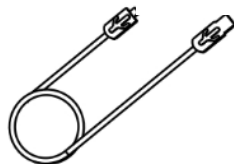
Battery



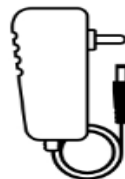
RG-MLP80A Printer



Carry case

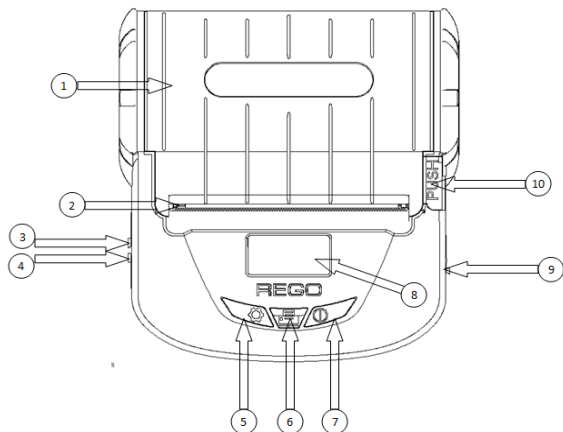


USB Cable



Power Adapter

## 2. Printer Parts List



- |                    |                  |                |         |                      |
|--------------------|------------------|----------------|---------|----------------------|
| ① Paper Case Cover | ② Paper Slot-out | ③ USB          | ④ RS232 | ⑤ Setup Button       |
| ⑥ Feeding Button   | ⑦ Power Button   | ⑧ OLED Display | ⑨ Power | ⑩ Paper Cover Switch |



### 3. OLED Display



Notice: The display content will be different from customer's different settings. Below is the meaning for each symbol:

A : printer model RG-MLP80A


N: normal thermal paper

U: upper black mark paper

D: down black mark paper

L: label paper

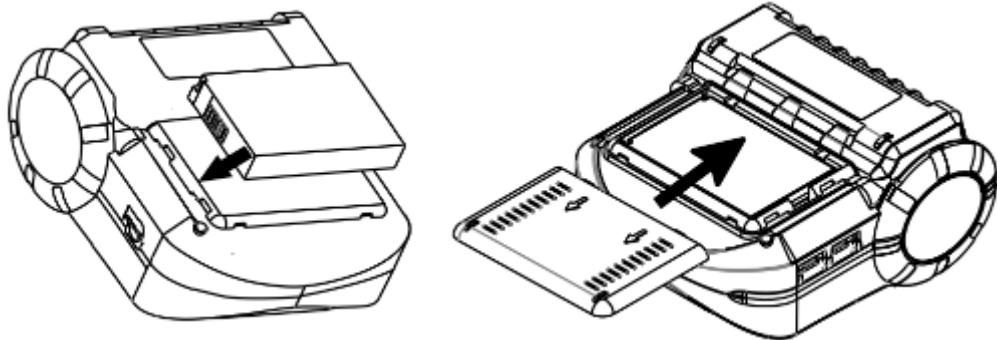
 : battery power level

 : Bluetooth connection

 : WI-FI connection

## 4. Preparation Before Use

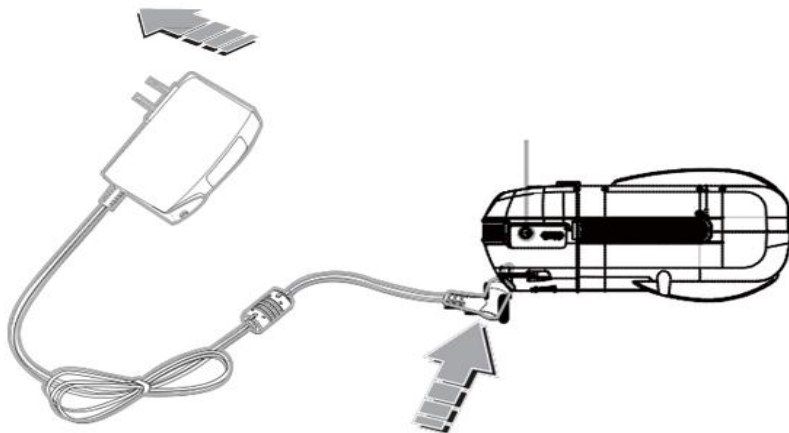
### 4.1 Battery Installation



- ① Make sure to place the battery into the battery housing in the direction of the 2 arrows
- ② Close the battery cover.

## 4.2 Battery Charge

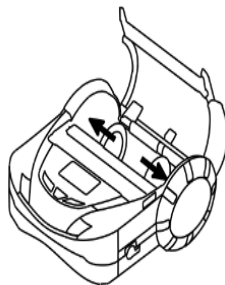
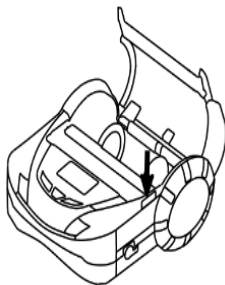
Plug the power adapter into the power outlet, and the DC side is plugged into the printer power port.



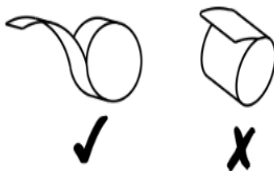
In power off status, the printer's display screen will display the charging situation, when the battery logo at upper right corner of the display disappeared, means the completion of charging.

### 4.3 Paper Installation

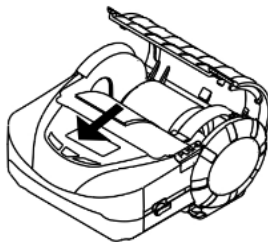
1. Press "PUSH" button, open paper case cover, and slide the two parts in the direction of arrows.



2. Pull out a part of paper and put them in the middle of the paper housing and close the paper case cover.



Paper Direction



## 5. Basic Operation

### 5.1 Power On

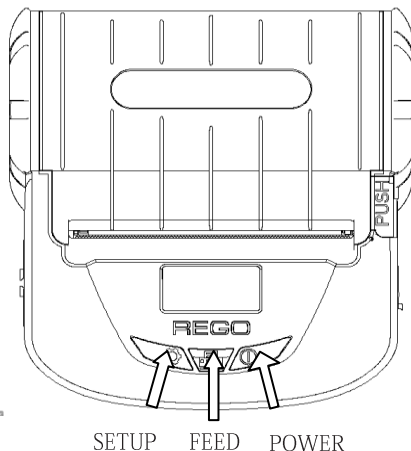
Don't release Power button about 1 second until the printer beeps 1 time, the printer is powered on.

### 5.2 Power Off

Under power on status, don't release Power button about 1 second until the printer beeps 2 times, the printer is powered off.

### 5.3 Feeding Paper

Under the normal work status and use thermal receipt paper, press **【FEED】** button, the paper feeding begins, and stop when loosen **【FEED】** button. When the printer apply to black mark paper and label paper, press **【FEED】** button, the printer begins to feed paper and stops over the position of black mark/label spacing. If the paper is not the black mark/label paper, the printer stops automatically after feeds paper for 30cm.

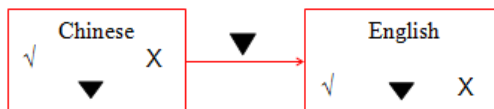


## 6. Settings

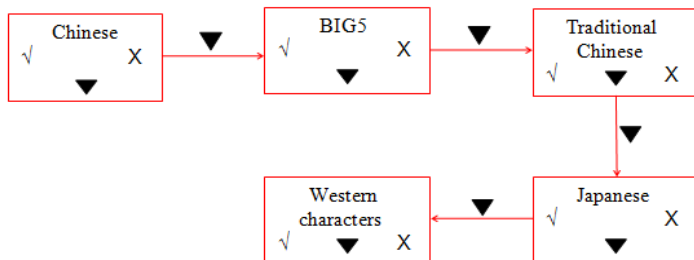
### 6.1 Basic Settings

Setup description : Long press SETUP button to make the printer enters into setup mode, choose "✓" (SETUP button) means "ok", choose "▼" (FEED button) means "Next", choose "X" (POWER button) means exit setup mode and save settings.

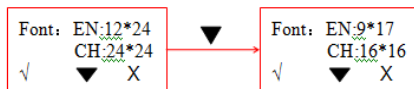
1.Display language:



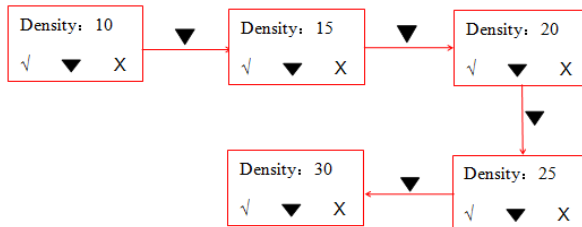
2.Printing language:



3.Font:



4.Density:

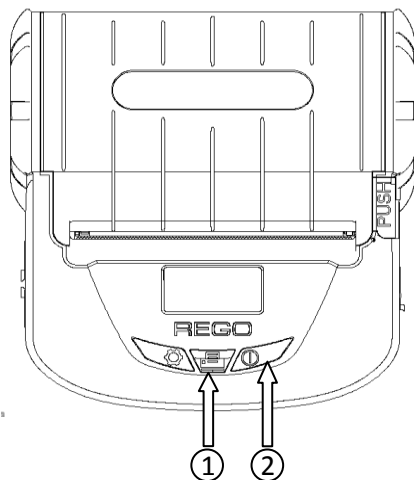


The method to set paper type, restore factory setting, paper width, auto power off, upgrade mode, Bluetooth MAC address and firmware version is same as above.

## 6.2 Self-test

After receiving the printer, user can check its current settings and status at anytime.

Do self-test as below: in power off, hold down FEED button then press POWER button. Release FEED and POWER button when you hear the printer beeps, and the current settings and status will be printed out automatically.



Press FEED Button<sup>①</sup> first, then press  
POWER button<sup>②</sup>



## 6.3 Self-test Information

```
*** Self-test ***

Boot Firmware: Ver 1.01
Main Firmware: 80A-100-1.12

Manufacturer: REGO
Model: MLP80A

Interface: RS232,USB,BT
Serial Parameter:
Baud Rate: 115200
Data bit: 8 bit
Parity: None
Handshaking: RTS/CTS

Bluetooth Parameter:
Bluetooth Ver: Dual Mode
Software Ver: 5.2.6
Device Class: 040680
Device Name: RG-MLP80A
Password: 1234
MAC Address: 00:02:5B:00:04:ED

Language: Chinese
PrintFont: 12*24
BuzzerEnable: Error ON
BlackMark: OFF
PaperSensor: Medium
PrintDirection: Normal
Command System: CPCL+ESC/POS
CodePage: CP437
PrintDensity: 10
ShutDownMode: Never
ExtRAMCapacity: 32MB
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMN
OPQRSTUVWXYZ[]_`abcdefghijklmnopqrstuvwxyz{|}~
G B 1 8 0 0 汉字库

Barcode Type:
1D: UPCA,UPCE,EAN13,EAN8,CODE39
ITF25,CODABAR,CODE93,CODE128
CODE128:

No. 123456
2D: PDF417,QR CODE,DATA Matrix
QR CODE:


Build Time:10:27:15

*** Completed ***
```

Boot Firmware: Ver 1.00

Main Firmware: 80A-100-1.10

Interface: RS232,USB,BT

Serial Parameter:

Baud Rate:115200

Parity: None

Handshaking: RTS/CTS

Bluetooth Parameter:

Bluetooth Ver: Dual Mode

Software Ver: 5.2.6

Device Name: RG-MLP80A

Password: 1234

MAC Address: 00:02:5B:00:04:A8

Language: Chinese

PrintFont: 12\*24

BuzzerEnable: Error ON

BlackMark: ON

PaperSensor: Medium

PrintDirection: Normal

Command System: CPCL+ESC/POS

CodePage: CP437

PrintDensity: 10

ShutDownMode: Never

ExtRAMCapacity: 32MB

.....

Printer information and print sample

## 7. Interface Connection

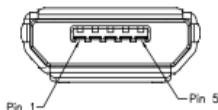
### 7.1 USB Connection

The USB socket for RG-MLP80A is the standard MICRO USB-B type, follow the USB printer class protocol.

### 7.2 Serial Connection

RG-MLP80A serial interface is compatible with RS232C. Support RTS/CTS and XON/XOFF handshaking protocol, socket model is MICRO USB-B. See picture below:

Serial interface socket pin no. Define as



Serial interface socket pin no.

Pin no.	Signal	Signal direction	Specification
1	DTR	Out	The same as RTS
2	RXD	In	Printer received the data from PC.
3	TXD	Out	The printer will be sent XON/XOFF to PC when operating the XON/XOFF handshake protocol.
4	RTS	Out	This signal reflect the printer status. SPACE indicates printer is ready, and can receive data. MARK indicates printer is busy, can receive data
GND	5	-	Signal ground

In serial connection, user can set baud rate and data structures by “RG- SetTools”. Default setting is 9600bps, 8 bits of data, data structure is no parity, and 1 stop bit.

There are 2 types of handshaking optional. 1. Hardware control, 2.X-ON / X-OFF protocol. The description of two type handshaking is as follows table:

Handshaking	Data direction	RS-232C interface signal
Hardware control	Data can be access	RTS and DTR in Space status
	Data can not be access	RTS and DTR in Mark status
X-ON/X-OFF control	Data can be access	Send X-ON 0x11 based on TXD
	Data can not be access	Send X-OFF 0x13 based on TXD

Corresponding connection relationship (Printer connects with computer DB9), see table below:

No.	MICRO USB-B	DB9
1	1	6
2	2	3
3	3	2
4	4	8
5	5	5

## 7.3 Bluetooth Connection

The devices, such as hand-held device, laptop and other handheld data terminal with Bluetooth can drive RG-MLP80A to print by Bluetooth. RG-MLP80A is compatible with Bluetooth 4.0 standard (4.0 includes 2.0, 3.0 and BLE). Power class is CLASS 2, effective communication distance is 10m. The Bluetooth of the printer belongs to the slave device. The initial name of the printer is RG-MLP80A, the initial password is '1234'; users can change the printer name and password by using RG-SetTools. Please see the details in RG-SetTools User Manual.

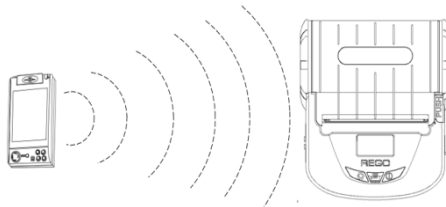
The mobile printer needs to pair with host device Bluetooth first, the pairing initiated by the master device before RG-MLP80A working.

The pairing is as follows:

1. Power on the printer
2. Host device search external Bluetooth device
3. If there are many external Bluetooth devices, choose RG-MLP80A
4. Input password: 1234
5. Finish pairing

Note:

- a. When pairing, printer must be kept power on.
- b. When the Bluetooth of printer and host device are well-paired, printer Bluetooth will not be available for other host device connection till the printer Bluetooth disconnected from the paired host device
- c. After well-pairing, there is a signal displayed beside Bluetooth mark on the display screen of the printer.



## 7.4 WI-FI Connection

The devices, such as hand-held device, laptop and other handheld data terminal with Bluetooth can drive RG-MLP80A to print by WI-FI. The WI-FI for RG-MLP80A supports AP, STA and AP+STA all in one three modes, which is much convenient to connect with other devices via net. The default WI-FI configuration for RG-MLP80A is as below:

Device name : RG-MLP80A

AP SSID: RG-MLP80A;

AP encryption mode: OPEN, NONE;

AP IP address : 192.168.1.1;

Network parameter: TCP,SERVER,9000,192.168.1.110;

Printer IP address: DHCP,0.0.0.0,0.0.0.0,0.0.0.0;

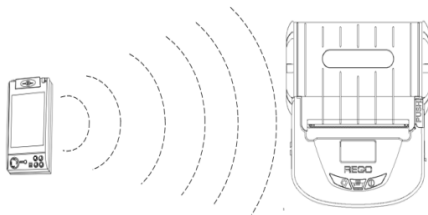
AP mode: RG-MLP80A is as a WI-FI access point, and other device is as the WI-FI information terminal to connect with the printer.

STA mode: RG-MLP80A is as the WI-FI information terminal and connect with other device via WI-FI access point.

AP+STA mode:

The STA port of RG-MLP80A can be connected with WI-FI router and connected with the server in networks via TCP. Meanwhile, the AP port for the printer is also available, mobile phone or PDA etc all can connect with this AP port to control the printer or set WI-FI.

When use WI-FI interface for first time, it requires to configure it according to Part 9.5 in details.



## 8. Specification and Features

### 8.1 Printing

Printing Method	Thermal line
Paper Type	Continuous thermal paper, black mark paper, label paper.
Paper Width	44~83mm
Paper diameter	≤50mm
Valid Printing Width	≤72mm
Resolution	8dot/mm (203dpi)
Dot/line	≤576dots
Printing Speed	≤75mm/S

Paper Thickness	60~140μm
Printing Content	Chinese : GB18030-2000 和 BIG5Chinese characters(16*16 and 24*24)
	Western : ASCII characters, Codepages, user-defined characters(12*24 and 9*17)
	1D barcode : UPCA, UPCE, EAN13, EAN8, CODE39, ITF25, CODABAR, CODE93, CODE128
	2D barcode : PDF417, QR CODE, DATA Matrix

## 8.2 Power Supply

Power Supply	DC12V, 2A power adapter or 7.4V, 2000mAh rechargeable polymer lithium battery
--------------	---

## 8.3 Interface

Interface	RS-232, USB, 4.0 Bluetooth, WI-FI
-----------	-----------------------------------

## 8.4 Physical Parameters


Dimension	131(L)×124(W)×66(H)mm
Weight	360g (excluding battery and paper)

## 8.5 Environment Parameters

Operation Temperature	0℃～50℃
Operation Humidity	20%～85%
Storage Temperature	-25℃～70℃
Storage Humidity	10%～95%



## 8.6 Other features

Paper Loading Method	Clamshell easy loading(Please refer to 4.3 Paper Installation)
Black Mark and Label Space Detection	Support
Paper Out Detection	When paper is out, there's notice displayed on the screen and the printer beeps and stop printing.
Control Command	Support ESC/POS and CPCL(Please refer to 《REGO Thermal Printer Technical Manual》 )
Power Volume	When battery power is low, it will display  on the screen of the printer.
Battery Charging	2.5 hours
Battery Duration for One Charge	Printing no less than 238m(25%print density)

## 9. WI-FI Wireless Module Setting and User guide

### 9.1 Web Management Page Description

In the first use of WI-FI interface of RG-MTP58B, users need to set the WI-FI module. Users can connect PC with AP interface of RG-MTP58B, and set it by WEB management.

The default SSID of AP interface is RG-MTP58B. IP address, user name and passwords see below:

RG-MTP58B network default setting table

Parameter	Default configuration
SSID	RG-MTP58B
IP address	192.168.1.1
Subnet mask	255.255.255.0
User name	admin
Password	admin

## 9.1.1 Open Management Page

First connect PC with RG-MTP58B by wireless LAN. SSID is RG-MTP58B.

After well-connected, open IE, and enter `http://192.168.1.1` in the address bar. In the pop-up dialog box enter the user name and password, and then "OK."



Pic. 5-1 Open management page

Then pop-up RG-MTP58B management web interface. This management web interface can support Chinese and English optional. Menu includes 9 pages, like SYSTEM INFORMATION, MODE SELECTION, STA SETTINGS, AP SETTINGS, OTHER SETTINGS, ACCOUNT MANAGEMENT, SOFTWARE UPGRADE, MODULE RESET, and RESTORE FACTORY DEFAULT SETTINGS.

## 9.1.2 System Information Page

In this page, the user can obtain the important information of current device including device serial number, firmware version, wireless networking information and related parameter settings. Also can read wireless signal strength instruction in STA mode.

中文 | English

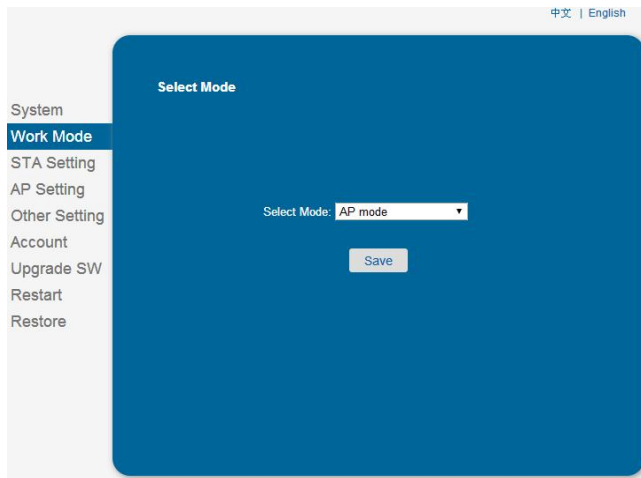
MID	RG-MTP58B
Software Version	V1.3.02
WiFi Work Mode	AP
AP mode	
SSID	RG-MTP58B
IP Address	192.168.1.1
MAC Address	ACCF232081E1
STA Mode	
Router SSID	
Signal Strength	
IP Address	
MAC Address	

Web Ver:1.0.12

Pic. 5-2 System information page

### 9.1.3 Work Mode Selection Page

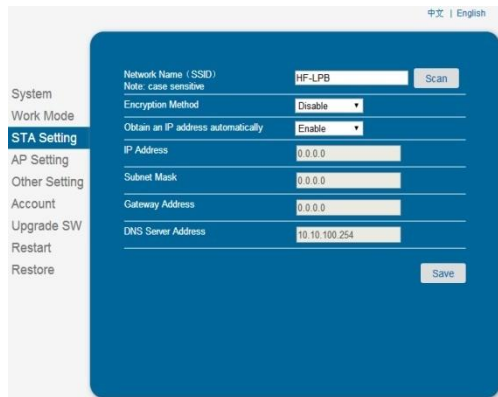
WF-FI modules of RG-MTP58B can be used as a wireless access point (AP mode) , convenient for users to configure. It can also be used as a wireless information terminal (STA mode) by connection fortune server via a wireless router. It can also be configured AP + STA mode, convenient for the user to form a flexible networking.



Pic. 5-3 Work Mode selection page

## 9.1.4 STA Settings Page

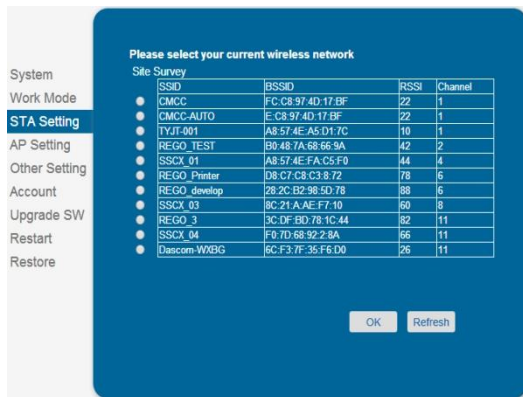
In this page, users can click on [search] button to automatically search for nearby wireless access points and connect it by setting the network parameters. It can be connected only when encrypted information is consistent with the corresponding wireless access point.



The screenshot shows the 'STA Setting' page with a sidebar menu on the left containing: System, Work Mode, STA Setting (highlighted), AP Setting, Other Setting, Account, Upgrade SW, Restart, and Restore. The main content area has a blue background and contains the following fields:

- Network Name (SSID): HF-LPB, with a 'Scan' button and a note 'Note: case sensitive'.
- Encryption Method: Disable (dropdown menu).
- Obtain an IP address automatically: Enable (dropdown menu).
- IP Address: 0.0.0.0
- Subnet Mask: 0.0.0.0
- Gateway Address: 0.0.0.0
- DNS Server Address: 10.10.100.254
- A 'Save' button is at the bottom right.

Pic. 5-4 STA settings page



The screenshot shows the 'STA Setting' page with a sidebar menu on the left containing: System, Work Mode, STA Setting (highlighted), AP Setting, Other Setting, Account, Upgrade SW, Restart, and Restore. The main content area has a blue background and contains the following elements:

- Header: Please select your current wireless network
- Section: Site Survey
- Table with 4 columns: SSID, BSSID, RSSI, and Channel.
- Buttons: OK and Refresh at the bottom right.

	SSID	BSSID	RSSI	Channel
●	CMCC	FC:C8:97:4D:17:BF	22	1
●	CMCC-AUTO	E-C8:97:4D:17:BF	22	1
●	TYJT-001	A8:57:4E:A5:D1:7C	10	1
●	REGO_TEST	B0:48:7A:68:66:9A	42	2
●	SSCX_01	A8:57:4E:FA:C5:F0	44	4
●	REGO_Printer	D8:C7:C8:C3:8:72	78	6
●	REGO_develop	28:2C:B2:98:5D:78	88	6
●	SSCX_03	8C:21:A:AE:F7:10	60	8
●	REGO_3	3C:DF:BD:78:1C:44	82	11
●	SSCX_04	F0:7D:68:92:2:8A	66	11
●	Dascom-WXBG	6C:F3:7F:35:F6:D0	26	11

Pic. 5-5 STA web search user router page

## 9.1.5 AP Settings Page

When select the printer working in AP or AP + STA mode, users need to set up wireless and network parameters on this page. Most systems support DHCP to automatically obtain IP. It is recommended to set the LAN DHCP parameter type as "Server", otherwise STA need to manually enter the appropriate network parameters

The screenshot displays the 'AP Setting' page of a device's configuration interface. On the left is a vertical sidebar with navigation options: System, Work Mode, STA Setting, AP Setting (highlighted), Other Setting, Account, Upgrade SW, Restart, and Restore. The main content area has a blue background and is divided into three sections. The top section, 'Wireless AP Setting', includes fields for Network Mode (11bgn), Network Name (SSID) (RG-MTP58B), Module MAC Address (ACCF232081E1), and Select Channel (2412MHz(channel 1)), with a 'Save' button. The middle section, 'Wireless AP Security Setting', has an Encryption Mode (Disable) field and a 'Save' button. The bottom section, 'Network Parameters Setting', includes IP Address (DHCP Gateway Setting) (192.168.1.1), Subnet Mask (255.255.255.0), and DHCP Server (Enable), with a 'Save' button. Language options '中文 | English' are in the top right corner.

Wireless AP Setting	
Network Mode	11bgn
Network Name(SSID)	RG-MTP58B
Module MAC Address	ACCF232081E1
Select Channel	2412MHz(channel 1)
Save	

Wireless AP Security Setting	
Encryption Mode	Disable
Save	

Network Parameters Setting	
IP Address (DHCP Gateway Setting)	192.168.1.1
Subnet Mask	255.255.255.0
DHCP Server	Enable
Save	

Pic. 5-6 AP settings page

## 9.1.6 Other Setting Page

RG-MTP58B printers WI-FI modules: Connect the module and the printer via the serial port, the serial port parameters can not be altered, otherwise, it can not work properly. In this page, Users simply set the device to communicate with the TCP layer protocol parameters fortune.

中文 | English

**Serial Port Parameters Setting**

Baud Rate	230400
Data Bit	8
Parity Bit	None
Stop Bit	1
CTSRTS	Enable

Save

**Network Parameters setting**

Protocol	TCP-Server
Port ID	9100
Server Address	192.168.1.114
TCP Time Out Setting	300

Save

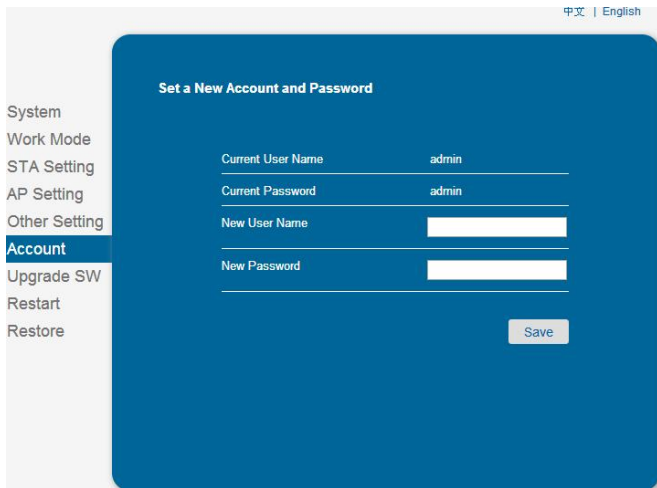
System  
Work Mode  
STA Setting  
AP Setting  
**Other Setting**  
Account  
Upgrade SW  
Restart  
Restore

Pic.. 5-7 Other settings page



## 9.1.7 Account Management Page

This page is used to set the user-device Web Server user name and password



The screenshot displays a web interface for account management. On the left is a vertical sidebar with the following menu items: System, Work Mode, STA Setting, AP Setting, Other Setting, **Account** (highlighted in blue), Upgrade SW, Restart, and Restore. The main content area has a blue background and is titled 'Set a New Account and Password'. It contains four input fields: 'Current User Name' with the value 'admin', 'Current Password' with the value 'admin', 'New User Name' (empty), and 'New Password' (empty). A 'Save' button is located at the bottom right of the form. In the top right corner of the interface, there are language options: '中文' and 'English'.

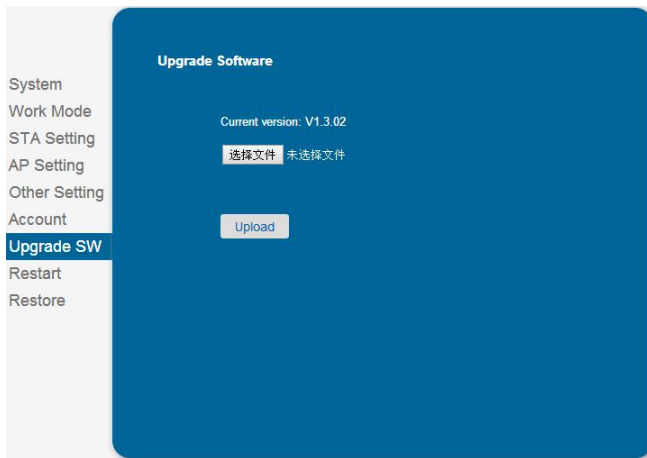
Current User Name	admin
Current Password	admin
New User Name	<input type="text"/>
New Password	<input type="password"/>

Save

Pic. 5-8 Account management page

## 9.1.8 Software Upgrade Page

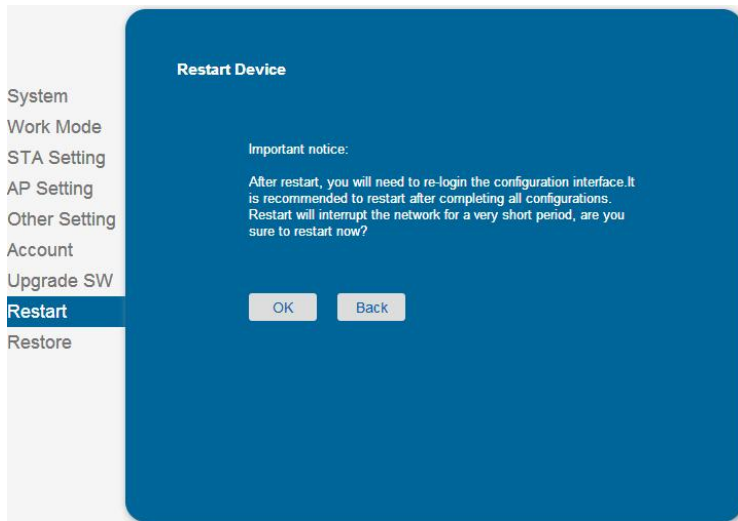
Users can update the firmware file on the local computer to upload the WI-FI modules firmware. Please consult our technical staff for detailed upload methods. If not really need to upgrade firmware, please do not arbitrarily set, or it may damage the module.



Pic. 5-9 Software upgrade page

## 9.1.9 Module Reset Page

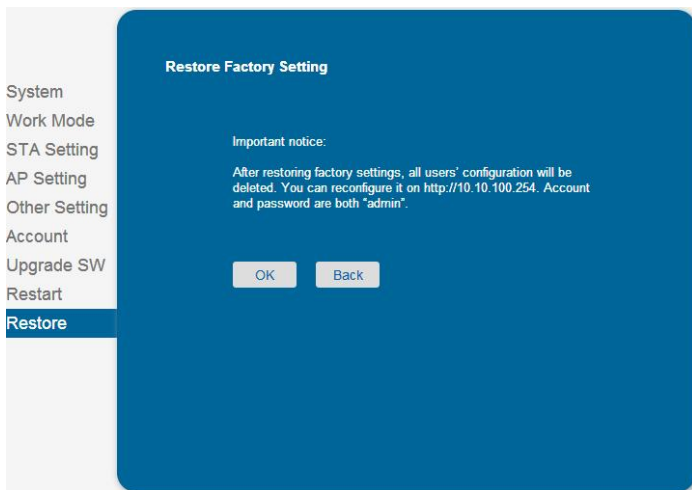
After the restart, newly saved configuration parameters will be used.



Pic. 5-10 Module reset page

## 9.1.10 Restore Factory Default Settings

After restore the factory settings, the user's former configuration will be deleted. Users can reconfigure at <http://192.168.1.1>, username and password are admin. And the system will automatically turn off STA mode wireless.



Pic.. 5-11 Restore factory default settings

## 9.2 WI-FI Interface Usage Instructions

### 9.2.1 Software Debugging Tools

You can use the following general procedure as a debugging tool for WI-FI interface (Users can also use other debugging tools)

Network debugging tool: TCPUDPDbg

### 9.2.2 Net work Connection

There are 2 kinds of connection when debugging. Users can be tested in accordance with the actual application. Use STA interface, printer and PC connected to a wireless AP respectively, shown as below:



Pic. 5-12 STA interface connection

Use AP interface, PC connected with printer AP interface, shown as below:



Pic. 5-13 AP interface connection debugging

### 9.2.3 The Initial Parameters

Printer default SSID: RG-MTP58B

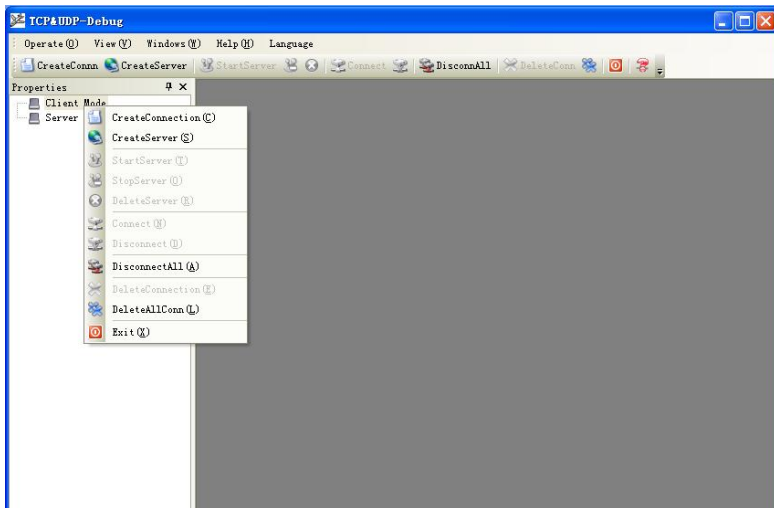
Printer default encryption: open, none

Printer default network parameters: TCP,Server,9000,192.168.1.1 ;

Printer default IP address: DHCP,0.0.0.0,0.0.0.0,0.0.0.0 ;

## 9.2.4 Printer Test

Connection shown above to open TCPUDPDbg program in PC2, create a new connection. If printer works in Server mode, users should create a client connection, or create a server mode connection.



Pic. 5-14 "TCPUDPDbg" Create connection

Then configure TCP/UDP connection parameter, default parameter shown as below

**Create Connection**

Type: TCP

DestIP: 192.168.1.115 Port: 9100

LocalPort ☐ Auto ☒ Special 48899

☐ AutoConn: Eve 0 s

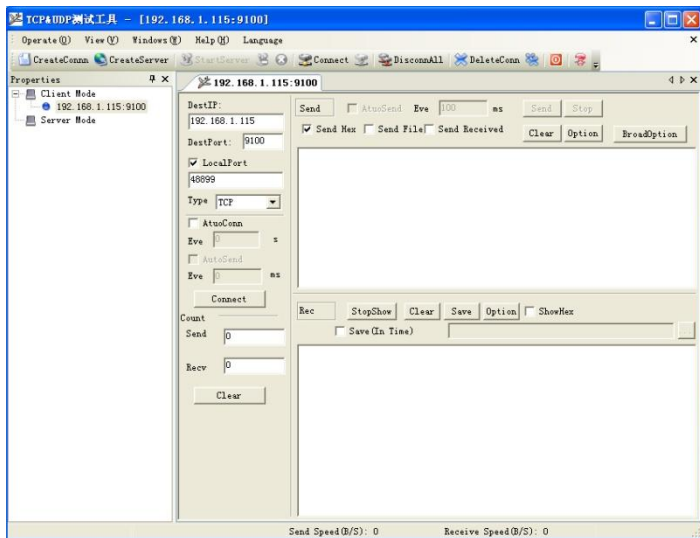
☐ Send When Conn: Eve ms

Create Cancel

Pic. 5-15“TCPUDPDbg” configuration

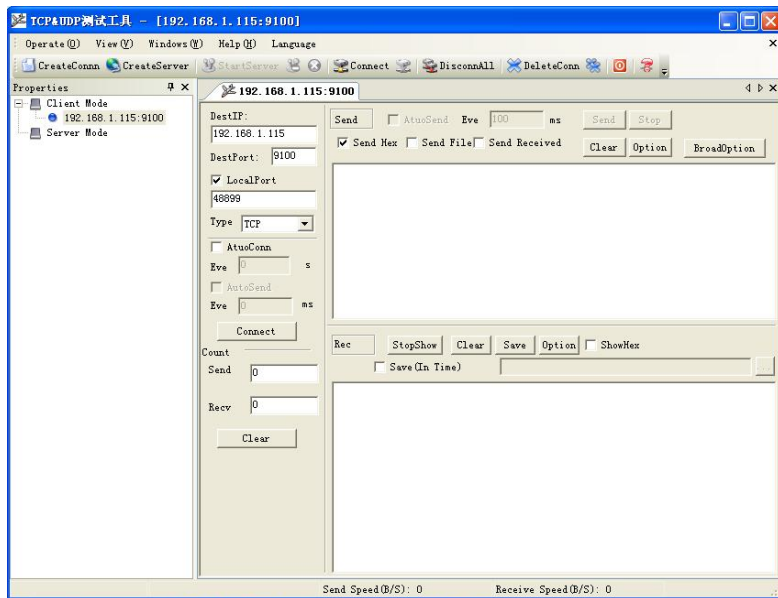


Well-configuration, click “Create”



Pic. 5-16“TCPUDPDbg” connection

Then click connection button, after well-connected, users can send data via TCPUDPDbg to printer to control the printer for printing operation.



Pic. 5-17“TCPUDPDbg”connection succeed

## 10. Appendix

### 10.1 Description of Black Mark Pre-print

If user use pre-print black mark to locate the receipt, please be sure to abide by the following black mark pre-print regulation when print the black mark paper, if not ,it will cause that the printer can not identify the black mark.

Te black mark pre-print regulations are as below:

Printing Position: As the picture above, the black mark should be printed on the right or left edge of the side of words.

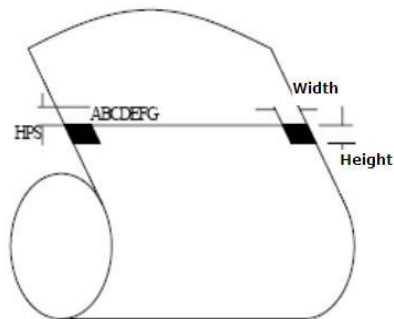
Width range:  $\text{width} \geq 7\text{mm}$

Height range:  $4\text{mm} \leq \text{height} \leq 6\text{mm}$

Reflectivity of infrared ray :  $< 10\%$  (infrared ray reflectivity of other parts of the black mark paper is  $> 65\%$ )

HPS: it is the distance between edges of black mark and loading position.

$12\text{mm} \leq \text{Hps} \leq 14\text{mm}$



## 10.2 Label Detection Description

If the user uses the label paper, please must refer to the following specification to purchase the label paper, otherwise it may lead to the label can not be identified by the printer.

Label width : 44~83mm

Label space : ≤10mm

## 10.3 Technical Manual

《REGO Thermal Printer Technical Manual》 is used to support the developers to develop the application with RG-MLP80A.

## 10.4 Printer Parameter Settings

User can use RG-SetTools by PC to setup the printer's parameters, such as language, font, print density, default codepage, printer Bluetooth name and password etc. The details please refer to RG-SetTools User Manual.

# REGO

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[www.regotek.com](http://www.regotek.com)

