






**Mobile Printer CMP-20**  
**Utility Manual (V1.74)**



**CITIZEN SYSTEMS JAPAN CO.,LTD.**



## 1. Startup screen


CITIZEN CMP-20 Printer Utility 1.74



**Serial Port Configure Settings**  
Port : COM1  
BaudRate : 115200  
Data Bits : 8  
Parity : NONE  
Stop Bits : 1  
Flow Control : DTR/DSR  
 Open Port  Close Port  
 Save Serial Port Configuration


**Bluetooth Settings**  
**PIN Code Information**  
PIN Code :   
 Save Bluetooth PIN Code  
**Discoverable Mode Information**  
☐ ON ☐ OFF  
 Save Discoverable Mode


**Bluetooth device name**  
Name :   
 Read bluetooth name  
 Save bluetooth name



**iOS auto connection Settings**  
 Enable auto connection  
 Disable auto connection


**Power Save Mode**  
 Minute  Save Power Save Mode

**Code Page Setting**  
Code Page :   
 Save Code Page  Print Code Page

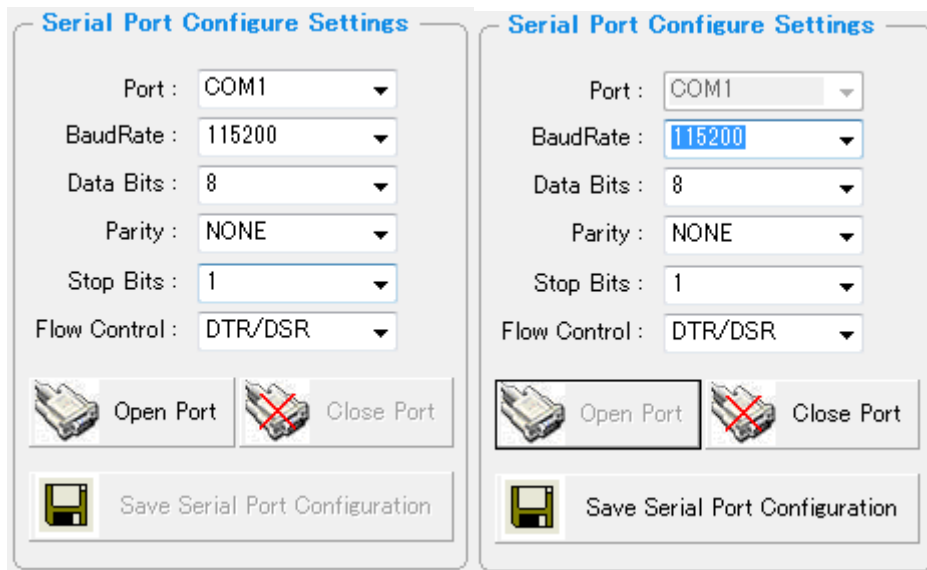
**Density Setting**  
Density :   
Density Value :  [ 0 ~ 32 ]  
 Save Density

**Wi-Fi Settings**  
 Start Wi-Fi Settings

**Label Media Settings**  
 Set Black mark  Set Continuous

 Exit

## 2. Printer Connection Settings with PC



Serial Port Configure Settings

Port : COM1

BaudRate : 115200

Data Bits : 8

Parity : NONE

Stop Bits : 1

Flow Control : DTR/DSR

Open Port Close Port

Save Serial Port Configuration

You can connect the printer to PC by Serial (COM1 – COM9) or USB port.

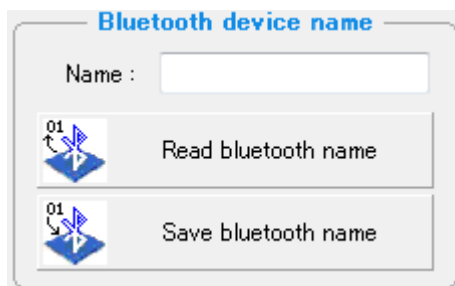
When you use Serial Port, you have to check the Baud Rate setting between the printer & PC.

Once the printer is connected with PC via serial interface, you can change the BaudRate setting of the printer and you can save the changed BaudRate to the printer by 'Save Serial Port Configuration'.

You can disconnect printer from the PC by clicking 'Close Port'.

## 3. Bluetooth interface settings

### 3-1. PIN Code Information



Bluetooth device name

Name :

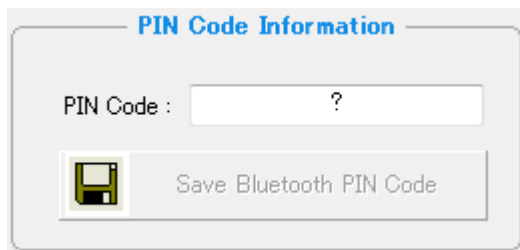
Read bluetooth name

Save bluetooth name

If the printer supports Auto connection setting of Bluetooth to iOS device and you want to disable the function or change back to enable the function, press Disable/Enable buttons.

This does not work for the model which does not support Auto connection function.

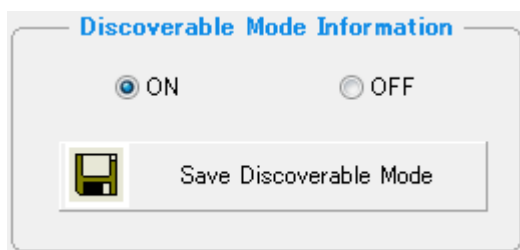
### 3-2. PIN Code Information



The dialog box is titled "PIN Code Information". It contains a label "PIN Code :" followed by a text input field with a question mark. Below this is a button with a floppy disk icon and the text "Save Bluetooth PIN Code".

You can register Bluetooth PIN Code by inputting PIN Code and execute "Save Bluetooth PIN Code"

### 3-3. Discoverable Mode Information



The dialog box is titled "Discoverable Mode Information". It features two radio buttons: "ON" (which is selected) and "OFF". Below the radio buttons is a button with a floppy disk icon and the text "Save Discoverable Mode".

When you set "Discoverable Mode" as ON, the printer can be detected by other Bluetooth devices (PDA, Smart Phone...) and when you set it as "Off", the printer can not be detected by other devices.

### 3-4. Auto Connection Settings



The dialog box is titled "Auto connection Settings". It contains two buttons: "Enable auto connection" with a Bluetooth icon and a checkmark, and "Disable auto connection" with a Bluetooth icon and a red X.


If the printer supports Auto connection setting of Bluetooth to iOS device and you want to disable the function or change back to enable the function, press Disbale/Enable buttons.

This does not work for the model which does not support Auto connection function.

## 4. Power Save Mode

You can set the power save mode like “No Power Save”, “Power Save Mode” & “Power Off Mode” and you can set the waiting time to Power Save Mode.

**Power Save Mode**  
None Power Save ? Minute  Save Power Save Mode


**Power Save Mode**  
Power Save Mode 15 Minute  Save Power Save Mode

**Power Save Mode**  
Power Off Mode 30 Minute  Save Power Save Mode

To get back from power save mode, you need to send few bytes of dummy data like null to the printer.



Mode	Description
No Power Save	Do not use Power Save Mode
Power Save Mode	After the fixed time passes without working, the printer goes into Power Save Mode automatically.
Power Off Mode	After the fixed time passes without working, the printer power becomes off automatically.

## 5 Density

**Density Setting**  
Density : DENSITY [0]  
 Save Density

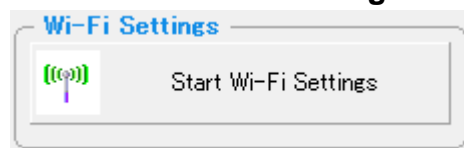
Print density can be set in 5 grades between -1 to +3.

## 6 Codepage

**Code Page Setting**  
Code Page : CP\_437  Save Code Page  Print Code Page

You can choose codepage and print the codepage data here.

## 7. Wi-Fi Interface setting screen



After Executing Utility, please click 'Start Wi-Fi Settings'.

Wi-Fi Settings Dialog

**Port and Wi-Fi Information**

**Port Information**

Port : COM1      BaudRate : 115200  
Data Bits : 8      Parity : NONE  
Stop Bits : 1      Flow Control : DTR/DSR

**Wi-Fi Information**

MAC address :      SSID :      IP : . . .  
NetMask : . . .      Gateway : . . .  
DNS : . . .

Wi-Fi Mode :      Wi-Fi Channel :      Wi-Fi Encryption :      Wi-Fi Authentication :      Using KEY ID : KEY ID 1      TCP Port Number :     

Progress :      KEY ID 1 :      KEY ID 2 :      KEY ID 3 :      KEY ID 4 :     

**WPA Authentication**

WPA Authentication :      WPA Encryption :      WPA Key :      WPA Key is characters of 8 ~ 64 length.

Buttons: Open Port, Close Port, Get Wi-Fi Information, Load file, Save Wi-Fi Information, Save file, Exit

## 7-1. Port Information

**Port and Wi-Fi Information**

**Port Information**

Port : COM1  
Data Bits : COM1  
Stop Bits : COM2  
COM3  
COM4  
COM5  
COM6  
COM7  
COM8  
COM9  
USB  
Wi-Fi  
IP :  
MAC address :  
SS :  
BaudRate : 115200  
Parity : NONE  
Flow Control : DTR/DSR

**Wi-Fi Information**

Open Port  
Get Wi-Fi Information

You can connect the printer to PC by Serial (COM1 – COM9), USB port or Wi-Fi..

**Port Information**

Port : COM1  
BaudRate : 19200  
Data Bits : 8  
Parity : NONE  
Stop Bits : 1  
Flow Control : DTR/DSR

If you use Serial Port, you have to check the BaudRate setting between the printer & PC.

**Port Information**

Port : Wi-Fi

Wi-Fi Search... Save...

If you choose WiFi , press “Wi-Fi Search” and choose the MAC address of the printer in the right box.  
(Remarks: WiFi interface is only to get the information and cannot be used for changing setting.)

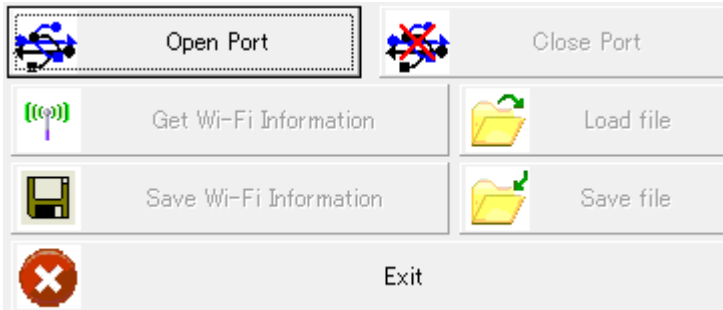
## 7-2. Wi-Fi setting configuration

Press “Open Port”.

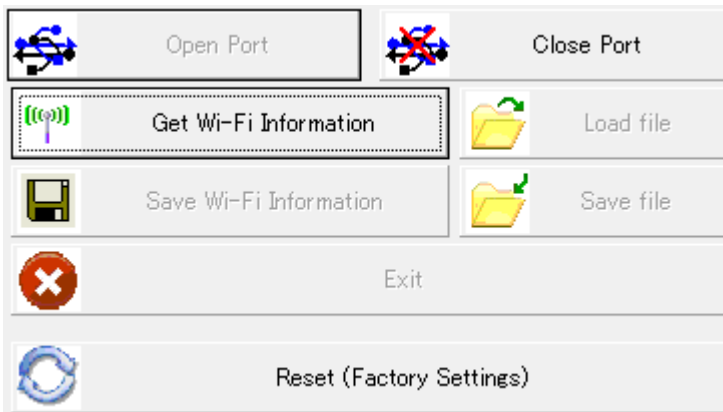
Pic B means that printer and PC is connected.

(Press “Close Port” when you want to close the connection.)

When you click ‘Get Wi-Fi Information’, you can see current Wi-Fi information of the printer.



Pic. A



Pic. B

## Example of loaded setting

Wi-Fi Settings Dialog

**Port and Wi-Fi Information**


**Port Information**

Port : USB BaudRate : 19200  
Data Bits : 8 Parity : NONE  
Stop Bits : 1 Flow Control : DTR/DSR

**Wi-Fi Information**

MAC address : 00:30:f9:09:45:50  
SSID : 000D0B1A4004  
IP : 192.168.3.111  
NetMask : 255.255.255.0  
Gateway : 192.168.3.1  
DNS : 0.0.0.0

Wi-Fi Mode : infrastructure  
Wi-Fi Channel : 1 Auto  
Wi-Fi Encryption : 40 Bit  
Wi-Fi Authentication : Open System  
Using KEY ID : KEY ID 1  
TCP Port Number : 9100

Progress : 

KEY ID 1 : 54321EDCBA HEX  
KEY ID 2 : 0000000000 HEX  
KEY ID 3 : 0000000000 HEX  
KEY ID 4 : 0000000000 HEX

**WPA Authentication**

WPA Authentication : None Use WPA Encryption : None Use  
WPA Key :   
WPA Key is characters of 8 ~ 64 length.

Buttons: Open Port, Close Port, Get Wi-Fi Information, Load file, Save Wi-Fi Information, Save file, Exit, Reset (Factory Settings), DHCP Settings

After making necessary setting changes, press “Save Wi-Fi Information”. Then changed setting is saved in the printer.

Wi-Fi setting can be initialized by “Reset” in Pic B and recycle the power.

### 7-3. Wi-Fi Information

You can set SSID, IP, Net Mask, Gateway and DNS value according to your network environment.

And you can configure

- Wi-Fi Mode (AdHoc or Infrastructure)
- Wi-Fi Channel
- Wi-Fi Encryption mode
- Wi-Fi Authentication mode
- Using KEY ID

If you want to use DHCP for IP address solution, choose DHCP.

Default port to use Wi-Fi communication is 9100. If you want to change the port, enter here.

TCP Port Number :

### 7-4. WPA Authentication

Our printer supports WPA PSK(TKIP) or WPA2 PSK(AES).