



# Pacific Image RapidScan One Reader (Non-sterile)

## User Manual

2021



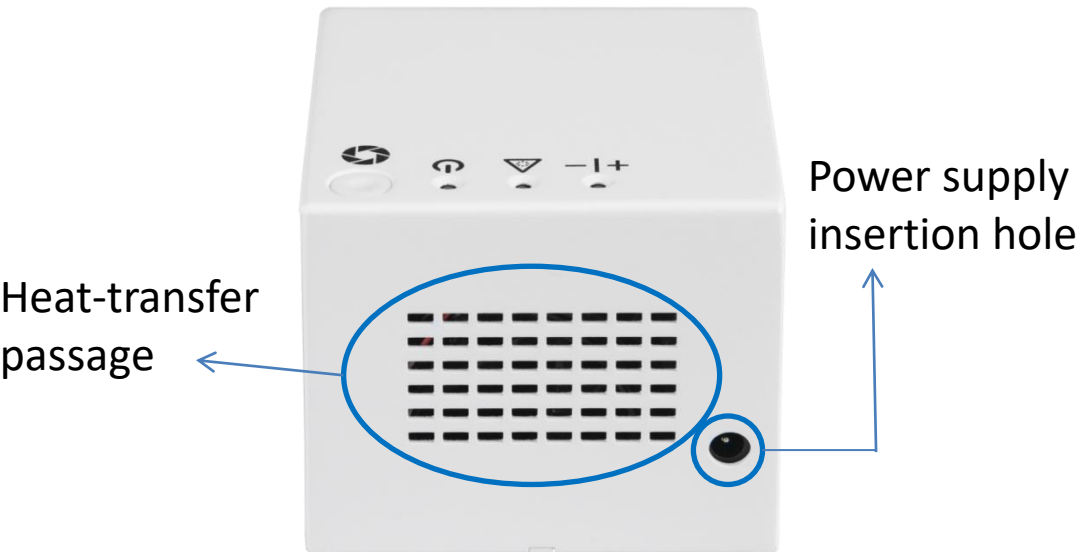
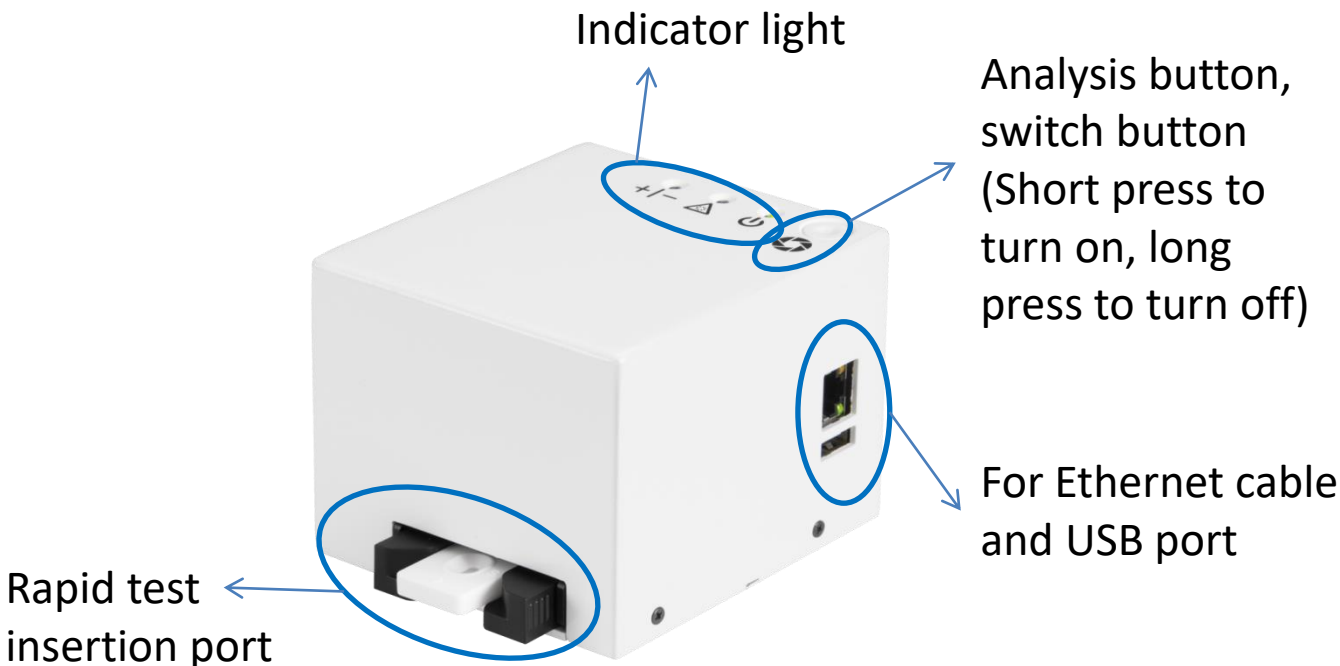
Product Name	Pacific Image RapidScan One Reader (Non-sterile)
Purpose of Usage	Use the instrument to objectively read the C or T line of the rapid test.
Principle	Reflectance
Intended Use	Pacific Image RapidScan One Reader (Non-sterile) uses the principle of reflectance to analyze the C & T line displayed on the rapid test inserted into the instrument, and then determine whether the test item result is positive or negative.
Side Effects or Complications	None
Contraindications	None
Warnings and Precautions	<ol style="list-style-type: none"><li>1. This product is not waterproof. Do not get wet.</li><li>2. If the product is dropped severely, it will damage the electronic parts. Please use it with care.</li></ol>

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# **Product Introduction**

# Appearance Introduction



# Non-exclusive match

- We need to communicate and cooperate with the rapid test manufacturer about the reader in advance, and the manufacturer will define the criteria of the image value after the experiment, and then set the cut-off value and the judgment standard of negative and positive.
- Therefore, it can be interpreted as long as the above content is set. There is no specific rapid test for this reader.
- The rapid test manufacturer which is cooperating with us now for example is like 瑞凌庚 (幽門螺旋桿菌快篩)。

# Instructions

- There are two ways to use: stand-alone operation & mobile device connection operation (more detailed instructions will be given after page 9.)
- For stand-alone operation, you can easily use the button to analyze the reading value, and use the indicator light on the surface to determine whether the sample is positive or negative.
- The mobile device connection operation is to transmit a WiFi signal through the reader and connect the mobile device, and then you can log in to the internal screen of the machine through a browser for more advanced operations.

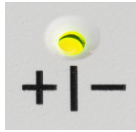
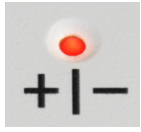
# Software description & working principle

- It is necessary for the rapid test manufacturer to use software to set the detection range of the C line and T line, and conduct experiments through the cooperation of both parties; after the experiment, the results are converted into data settings in the reader, and then the threshold for judging negative and positive is defined.
- The software itself has the function of analyzing and processing images, and the interpretation time is about 7 to 15 seconds; when the user presses the analysis button, the reader will shoot the image of the rapid test, and analyze the C line in the reading range according to the manufacturer's settings Line and T-line values are compared to the threshold to give a positive or negative result.



# **Stand-alone operation**

# Indicator light



Orange light: positive (+)

Green light: negative (-)

Flashing orange light:  
invalid result

Flashing red light: UV-C disinfection

No light: UV-C off

Turn on for 3 seconds when the analysis is complete, and turn on for 3 seconds when the rapid test is taken out.

Tap once to start the analysis.



When it is turned on,  
the orange light flashes.  
When it is standing by,  
the green light shows.

When the light flashes  
green,  
analysis is in progress.



Put in the rapid test.

(There is a sensor inside. If the rapid  
test cannot be detected, the device  
will not display any result lights.)

# **Mobile device connection operation**

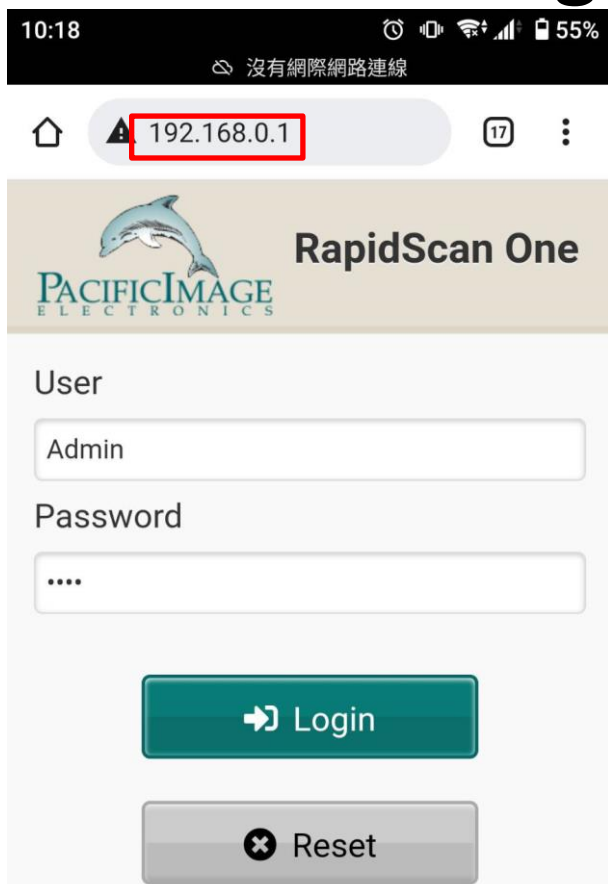
# Connect Reader to mobile device via Wi-Fi



Turn on the Wi-Fi of your mobile device and find "RS\_One\_xxxxxxx", which is the SSID of RapidScan One. (No password required when connecting to Wi-Fi)

If you encounter any difficulties, please contact your provider.

## Connect to the Web UI through a browser



Open the browser (Chrome, IE or Safari), and enter 192.168.0.1 in the URL bar. (This method is called AP Mode, see page 15 for details.)

Your browser will connect to the login page.

Please enter:


User: Admin

Password: 0000


(Other users can also be added in the future)

Press login to enter the homepage.


# Home Page



RS\_ONE\_21...



Test Profile


001@05 


Note:

Admin

Sample No.

004

 Run Test

 Set Delay

Last Test--2021/09/23-09:26:52

User:Admin / Battery: None

**System**  
For system settings

**Test Profile**  
Select product information from this section.

**Information**  
The inspector (the account name used when logging in and cannot be changed) and sample No. (can be changed)

**Run Test**  
Press the button to get instant results.

**Set Delay**  
Use the button to delay the image capture time.  
(See the dialog box at the bottom left.)

Run Test Analysis in \_\_ (1-100) Minutes. Please enter a number between 1-100.  
If delay time is 1 minute 30 seconds please enter 1.5.

1

OK

Cancel

After using the set delay, the dialog on the left will be displayed; at first, the preset minutes of the file will be displayed, but you can still set 1 to 100 minutes according to your needs.

# Home Page

001@05

Note:

Admin


Sample No.

002

Run Test

Set Delay

Last Test--2021/09/29-10:20:58

Sample No.	Image	Result	Raw data
001		N-	C:2309 T1:42

User:Admin / Battery: None

## Time

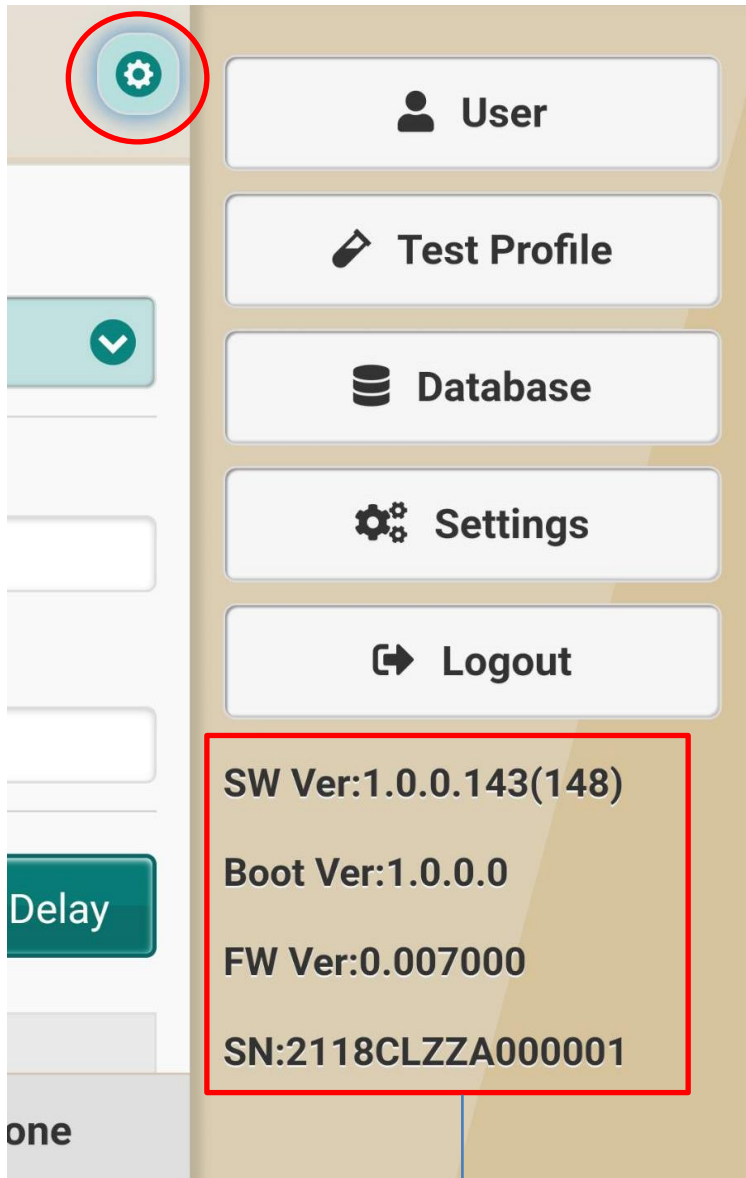
Date/time of the most recent test

Click the picture to enlarge the image.

## Test Result

1. C line value
2. T line value (T2, T3 line... etc.)
3. Result: value or statement  
(positive or negative)
4. Image captured by the reader

# System



## Click the gear wheel

### User

Manage user accounts

### Test Profile

Add or delete product information

### Database

Test results are sorted by date/time

### Settings

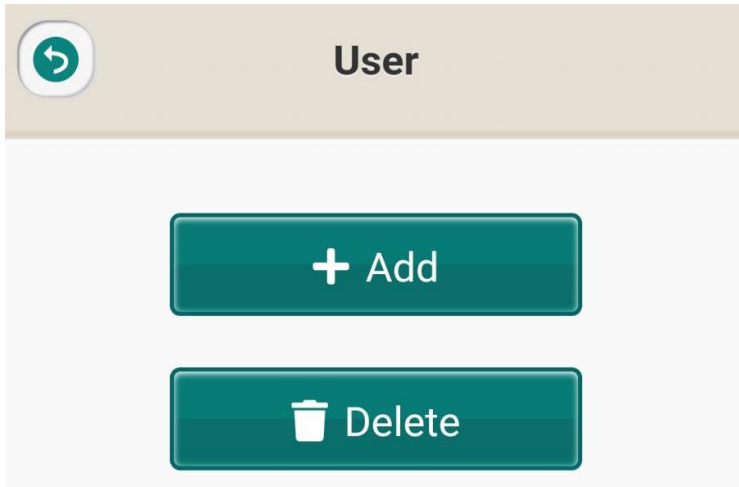
Management system settings

### Logout

Log out of current account

This is the serial number of the software and firmware version.

# System: User

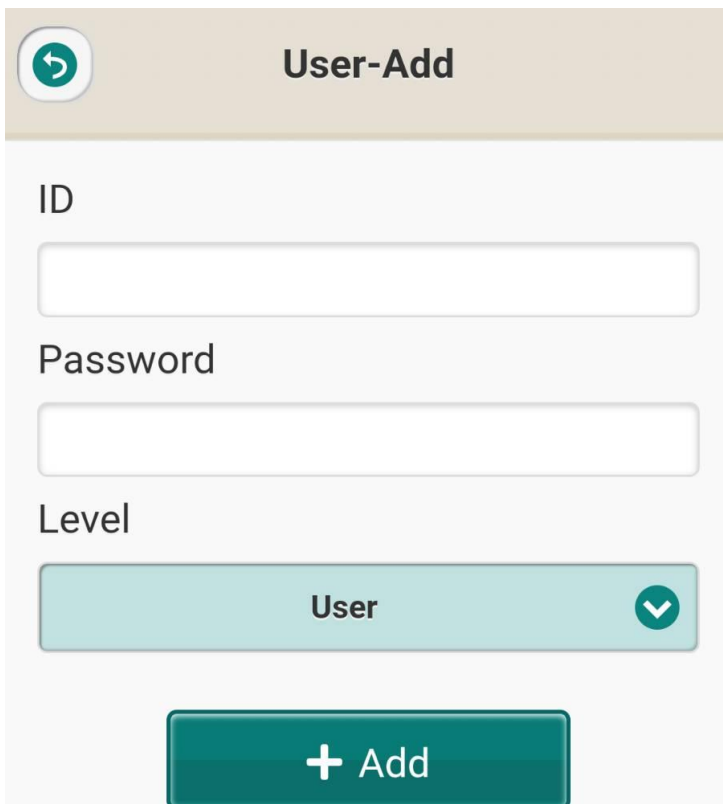


The screenshot shows a mobile application interface for user management. At the top, there is a header bar with a circular icon containing a right-pointing arrow and the text 'User'. Below the header, there are two large, teal-colored buttons. The first button contains a white plus sign followed by the text '+ Add'. The second button contains a white trash can icon followed by the text 'Delete'.

## User

Admin users can add/remove user accounts in this section.

# System: User-Add



The screenshot shows a mobile application interface for adding a new user. At the top, there is a header bar with a circular icon containing a right-pointing arrow and the text 'User-Add'. Below the header, there are three input fields: 'ID', 'Password', and 'Level'. The 'ID' and 'Password' fields are simple text inputs. The 'Level' field is a dropdown menu with a teal background and a white arrow pointing down. Below the input fields, there is a large, teal-colored button with a white plus sign and the text '+ Add'.

## User-Add

Set ID/password and various levels of users. Only Admin can use this function.

Provide 3 authorization levels (from low to high):

User

User-all

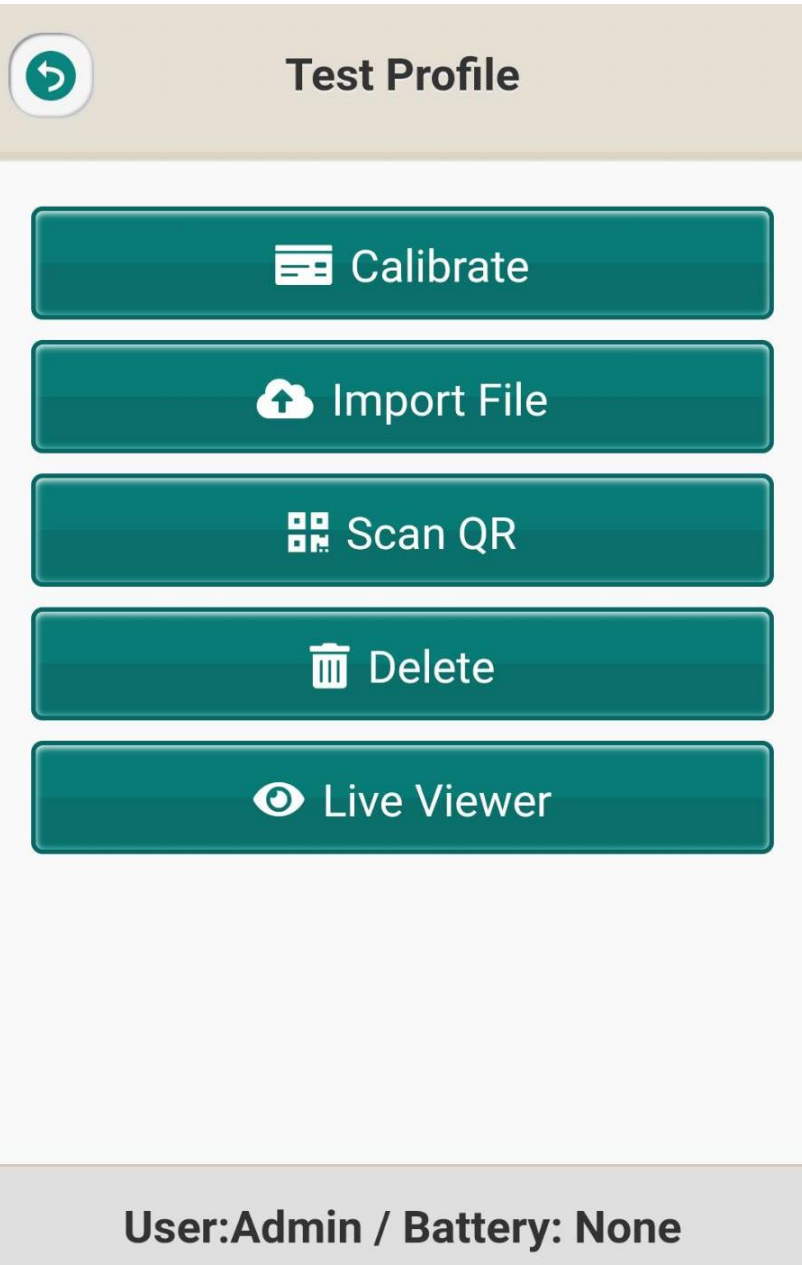
Admin



# User Management

- Rapid Test View software has permission management function, which enables users of different levels to obtain different test results.
- **ADMIN**
  - ADMIN is the user's management level: he/she can view all test results.
  - ADMIN can add/delete/edit USER-ALL and USER level users
  - Only ADMIN can change the ID/password of USER-ALL and USER level users
- **USER-ALL**
  - USER-ALL is the leader of the team: he/she can see the test results of all USER.
- **USER**
  - USER can only see the test results of his own samples.

# System: Test Profile



## Calibrate

Insert blank rapid test for calibration

## Import File

Add product information

## Scan QR

Scan QR code



## Delete

Delete product information


## Live Viewer



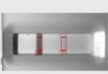
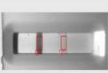
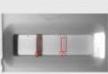
Only the administrator (Admin) can preview the current screen.

# System: Database

**Database**

Date

2021-07-27

Sample No.	Image	Result	Raw data
005		P+	C:1109 T1:4858
004		P+	C:4868 T1:652
003		P+	C:4854 T1:646
002		P+	C:4876 T1:660
001		P+	C:4845 T1:644

User:Admin / Battery: None

## Database

Record all test results information; users can select date/time to find test results.

## Please select export mode

Download

USB

Cancel

Click the button pointed by the red circle, you can choose to download the test data to your mobile device or USB disk.

Click on the picture to enlarge the picture.

Scroll down to see more test results (if more than 1 page)

# System: Settings-Network (AP Mode)

Settings-Network...

Name

RS\_ONE\_2118001

☒ AP

Segment

0

Channel

8

☐ Client

User:Admin / Battery: None

In AP mode, One acts as the host, which can establish a connection via WiFi and use the webpage to operate.

Admin level users can change the SSID of the reader here.

Do not change the settings here.

After setting, open the browser and enter the URL 192.168.0.1, then you can jump to the web page for manipulation.

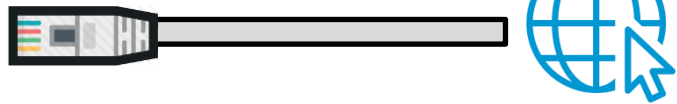
# System: Settings-Network (Client Mode)

Client Mode allows users to connect to the Internet for more diverse operations during connecting to the reader.

The prerequisite for successfully establishing a connection is that **the mobile device & the reader must be in the same Internet domain.**



Use a network cable to connect to the Internet.



(Plug into the Internet line will automatically switch to Client mode, otherwise it will be AP mode.)



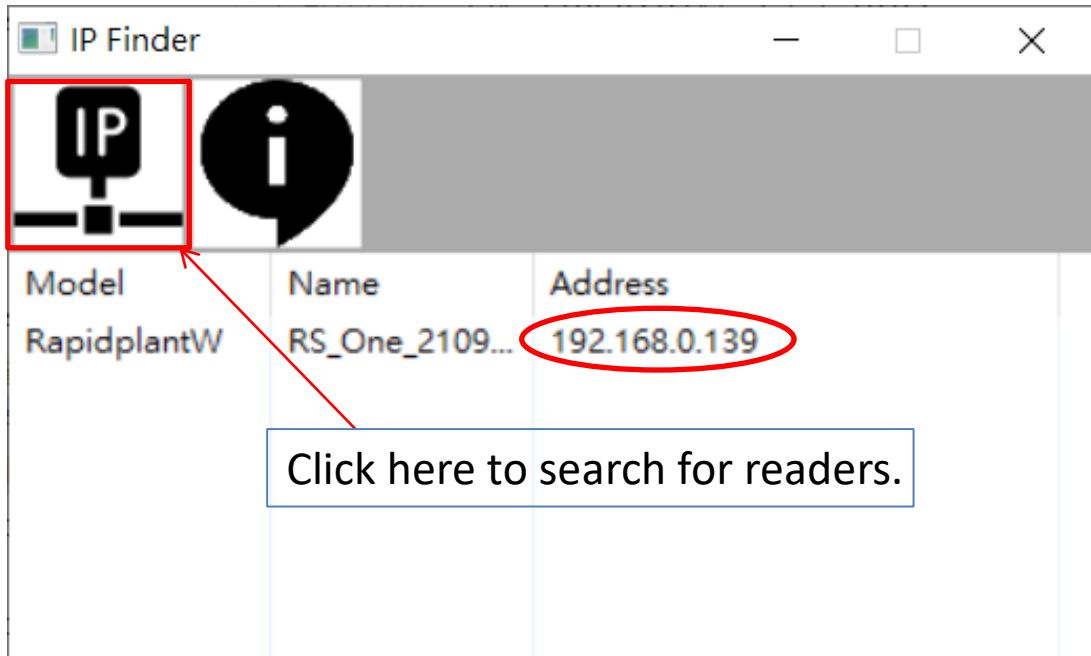
Using a network cable  
or  
using Wifi connection  
to connect to the same Internet domain.



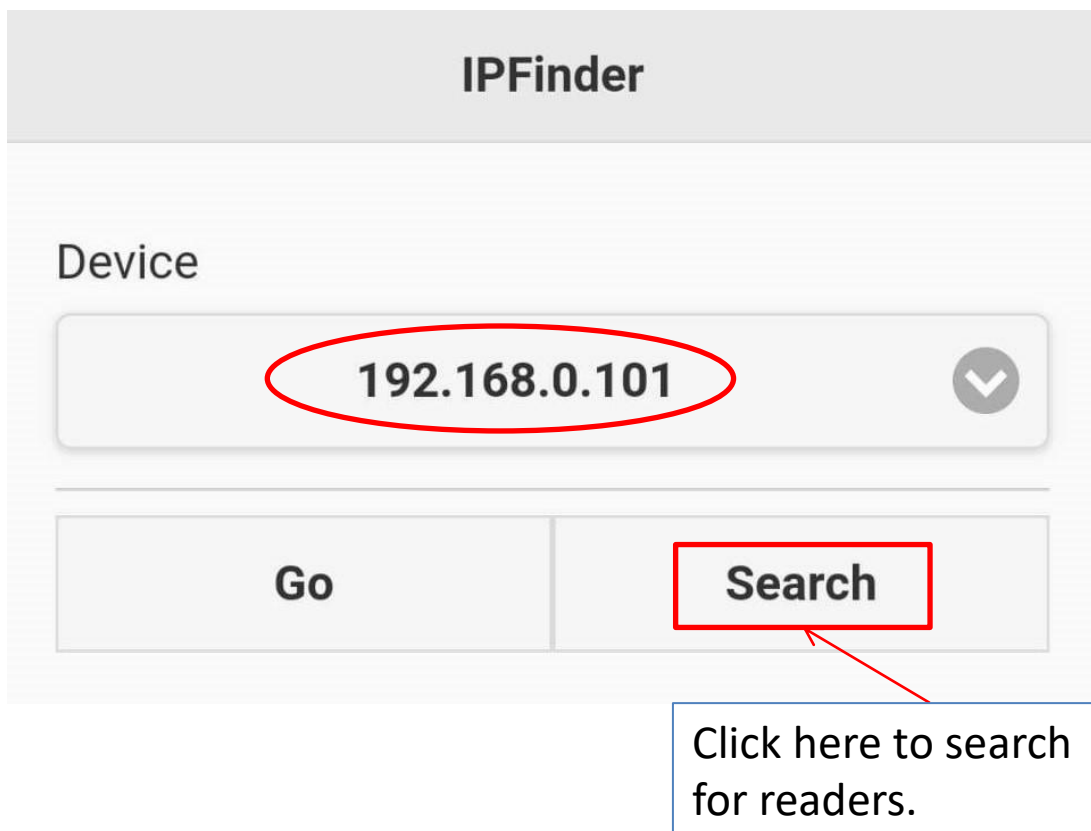
Using Wifi connection  
to connect to the same Internet domain.

# IP Finder

PC :



Cell-phones :



# IP Finder

Continued from the picture description on page 18:

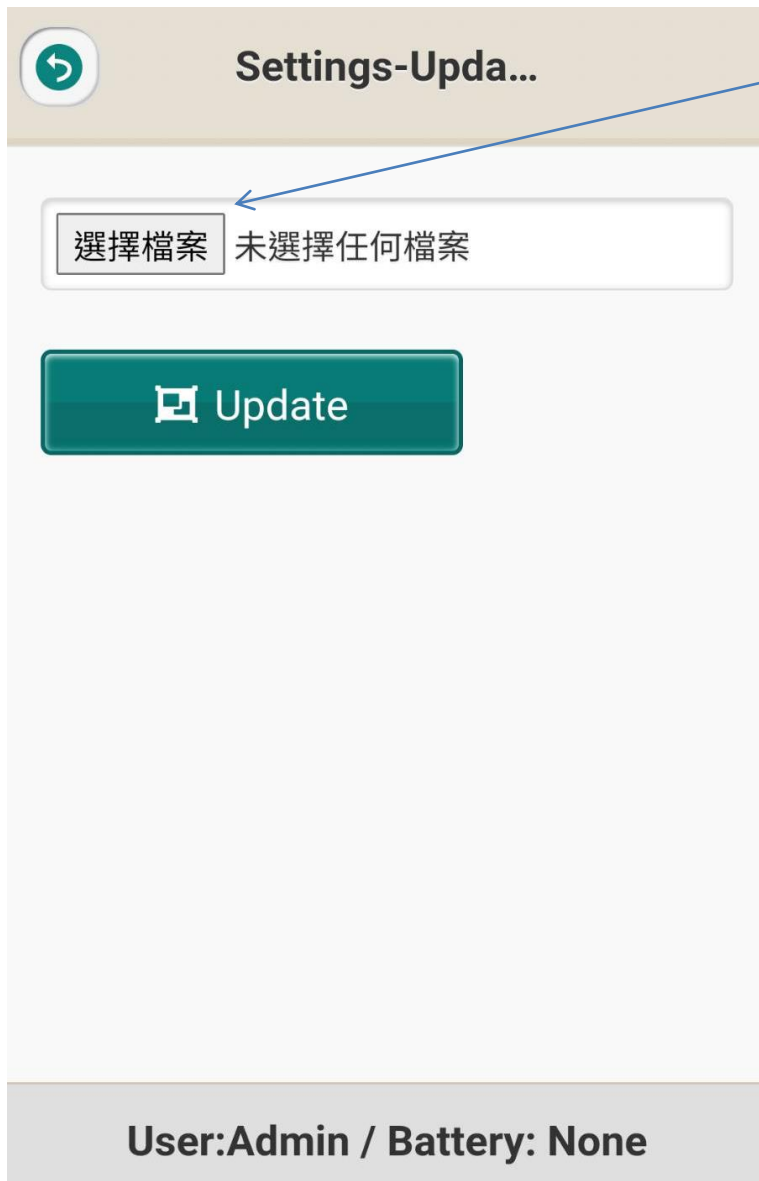
After establishing the Client Mode network connection, use the IP Finder of your computer or mobile phone to find the IP address. The result will be displayed in the red circle, and the user can log in to the URL.

Alternative method:

If IP Finder does not work properly:

Before the reader is restarted, insert a USB disk into the USB port. After the reader is turned on, the reader will automatically enter a file named "ip". After you click on it, you can know the connected URL. Use the browser to enter the IP address to log in to the page to operate the reader.


# System: Update Firmware



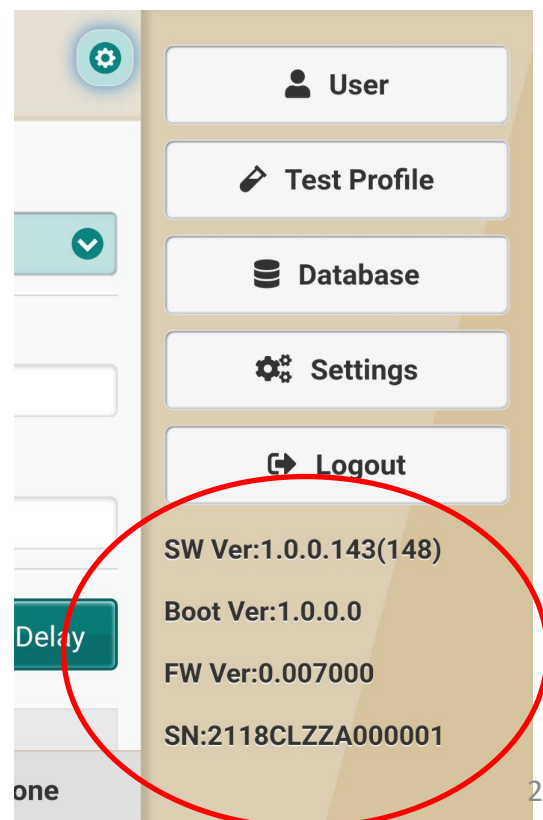
## Select File

Click this button to open a new firmware file.

## Update

After selecting the file, click Update. The system will display the update completion dialog, then return to the main screen and click  to confirm whether the version is wrong.

(If there are any updates, users will be notified separately)





# System: Information

Company/Lab Name

PIE

Company/Lab Address

7F, No. 239, Sec. 1, Datong Rd.

Company/Lab TEL

+886 (2) 86921800

Test Pro

Note:

Admin

Sample

002

Ru

Last Tes

Use

## Lab information

You can fill in the company/laboratory name, address, phone number and other information.

Specification	110 x 90 x 82 mm ( L x W x H ) · 750g
Store, use or shipping environmental conditions	10 - 30°C · Maximum humidity 70% non-condensing
Preparation before use	It can be used after connecting the power supply.
Company Information	Name : Pacific Image Electronics Address : 7F., No 239, Sec. 1, Datong Rd., Xizhi Dist., New Taipei 221, Taiwan (R.O.C.)
Manufacturer Information	Name : AsiaGen Corporation GMP Plant-1 Address : 4F., No. 1, Nanke 3rd Rd., Xinshi Dist., Tainan City, Taiwan (R.O.C.)

**Made in Taiwan**

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