InnoSpectra Corporation

ISC Android SDK User's Guide

Jan.12, 2022

RISE

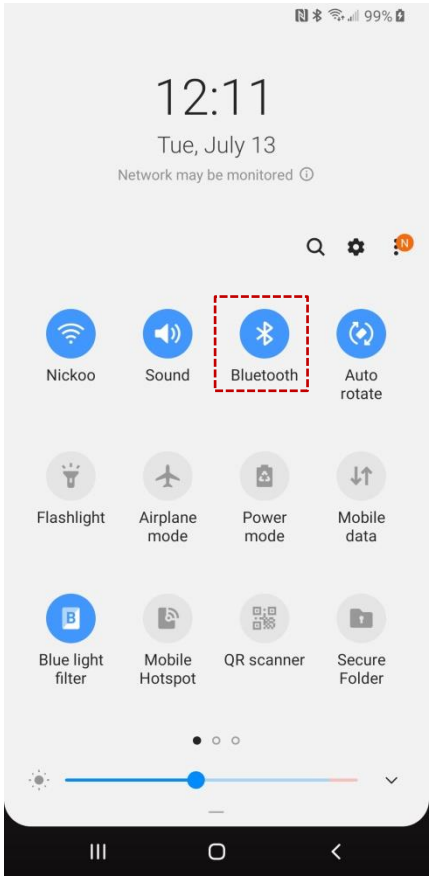
Responsibility Innovation Superiority Entrepreneurship

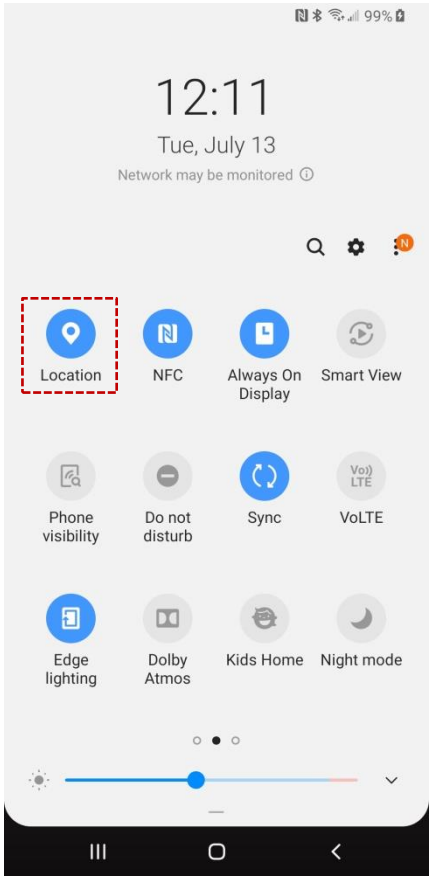
Contents

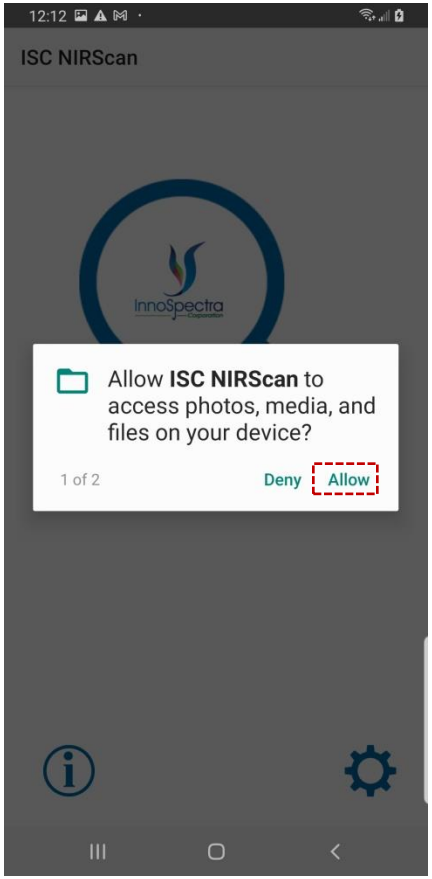
Notice

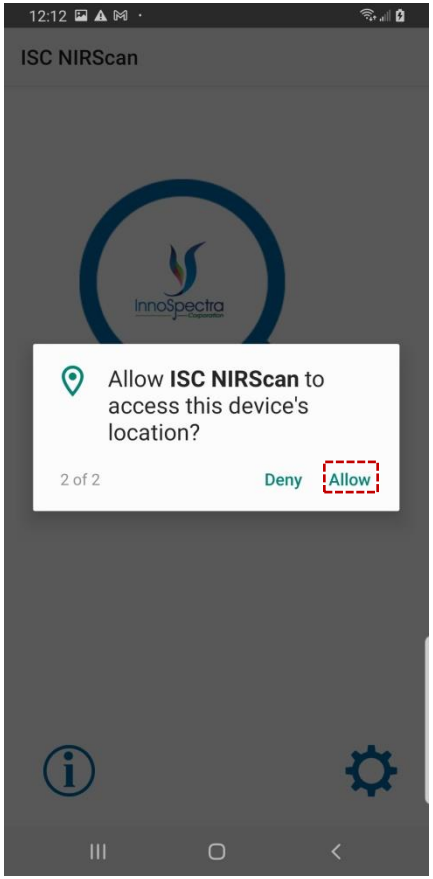
Notice

- User should open the Bluetooth and might need to open location due to the different phone's manufacture's requirements.
- When open app, should permit to save the graph, media, file, and location.



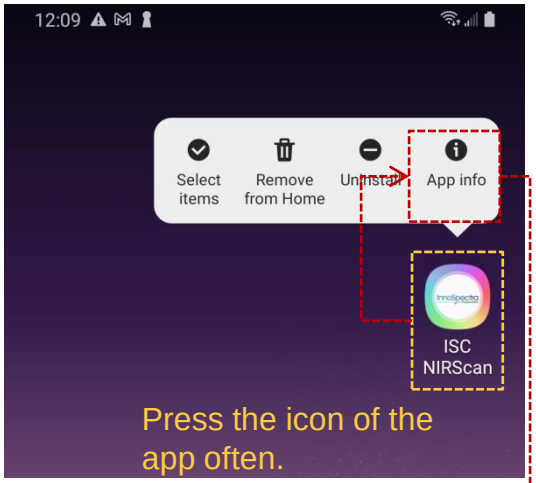


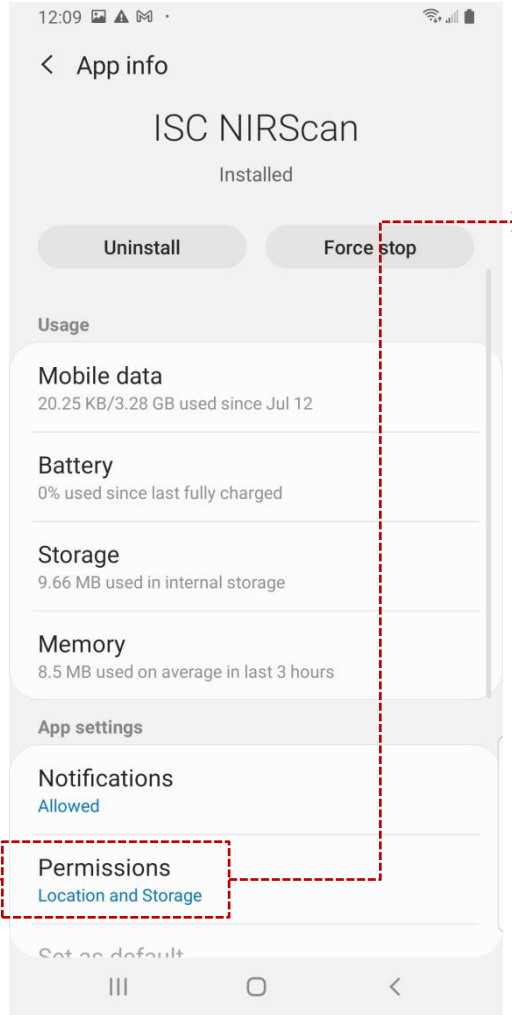


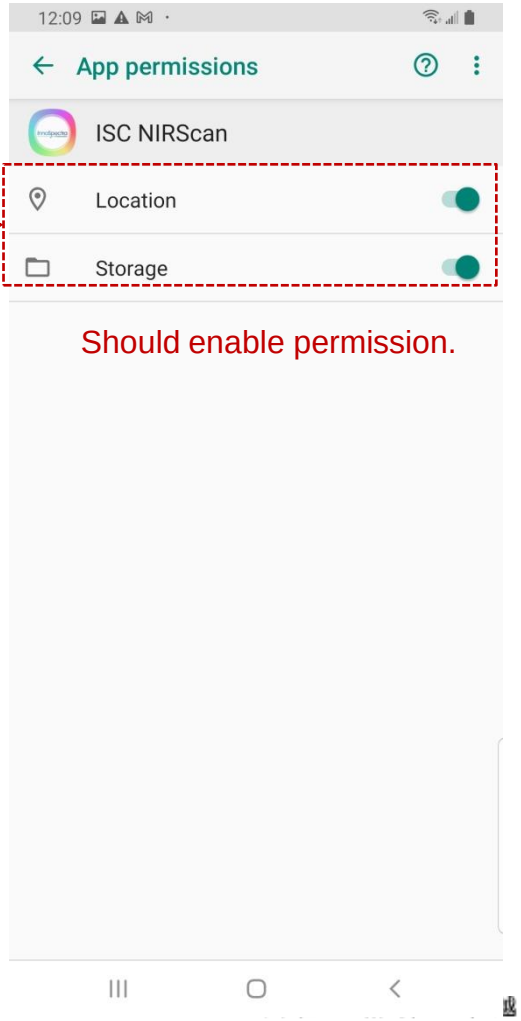


Notice

- If the device still cannot be found, it is necessary to confirm whether the APP has an allowable permission location.

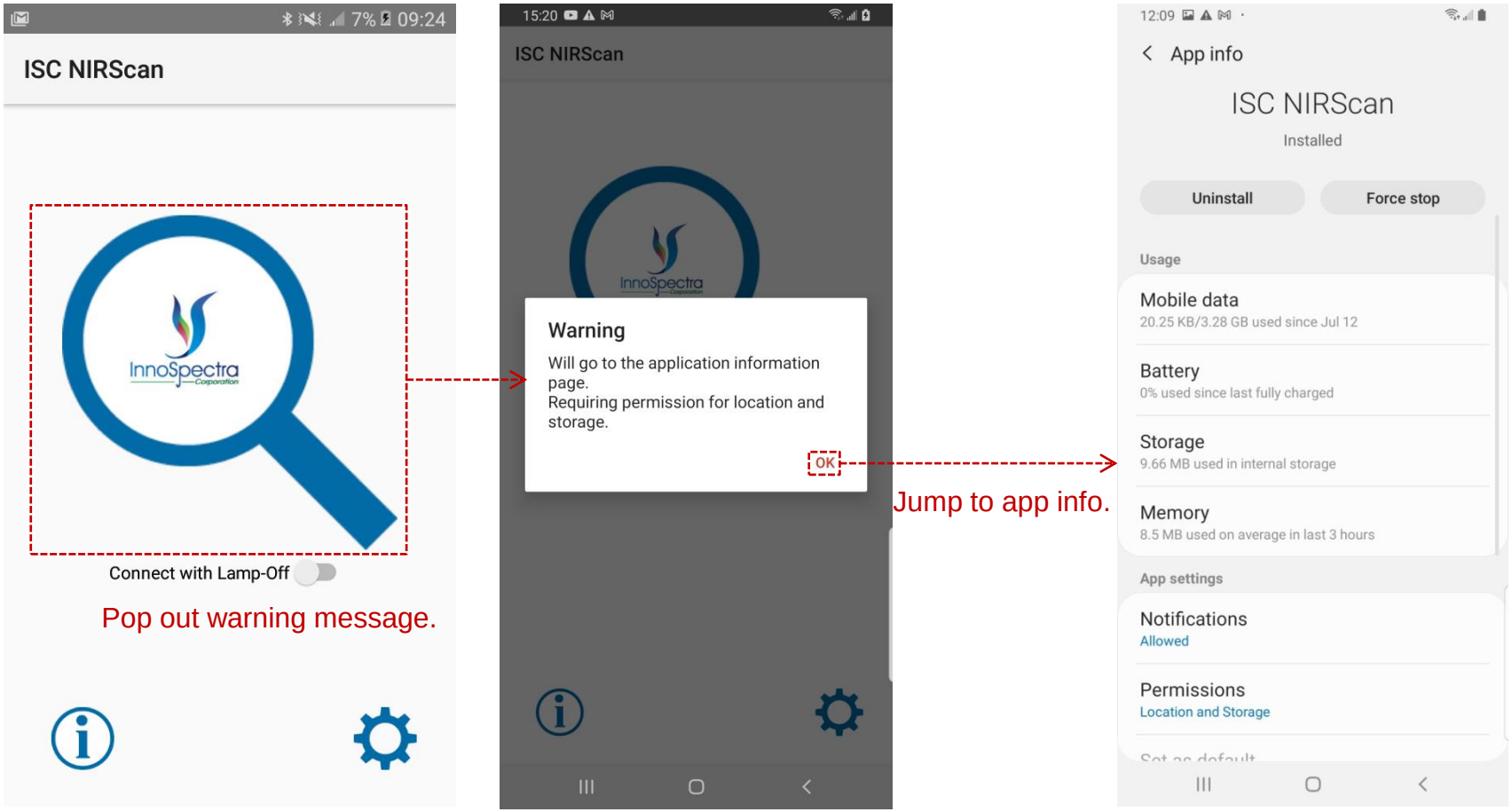






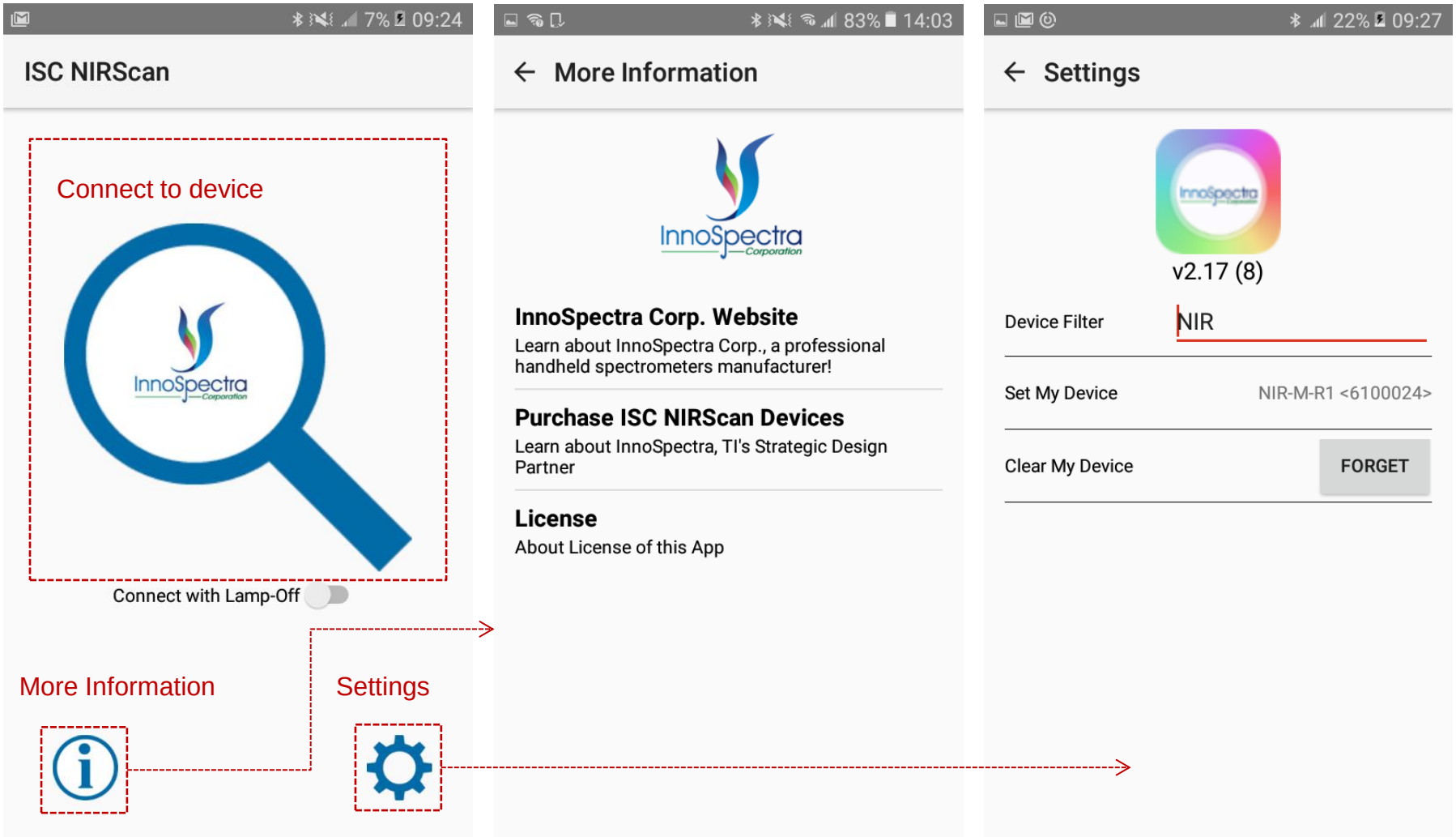
Notice

- If the user does not allow the location or storage permissions, the connected deice will pop out warning message. After press ok will automatically jump to app info page. User must manually open the location and storage permissions to use the APP (Note: Can see previous page).



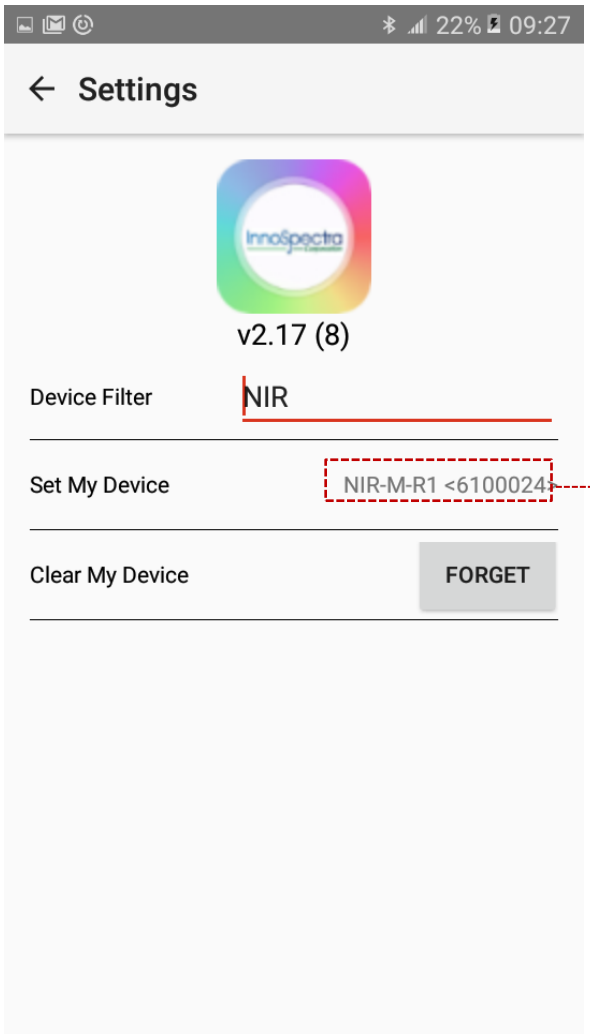
INTRODUCTION

Main Page

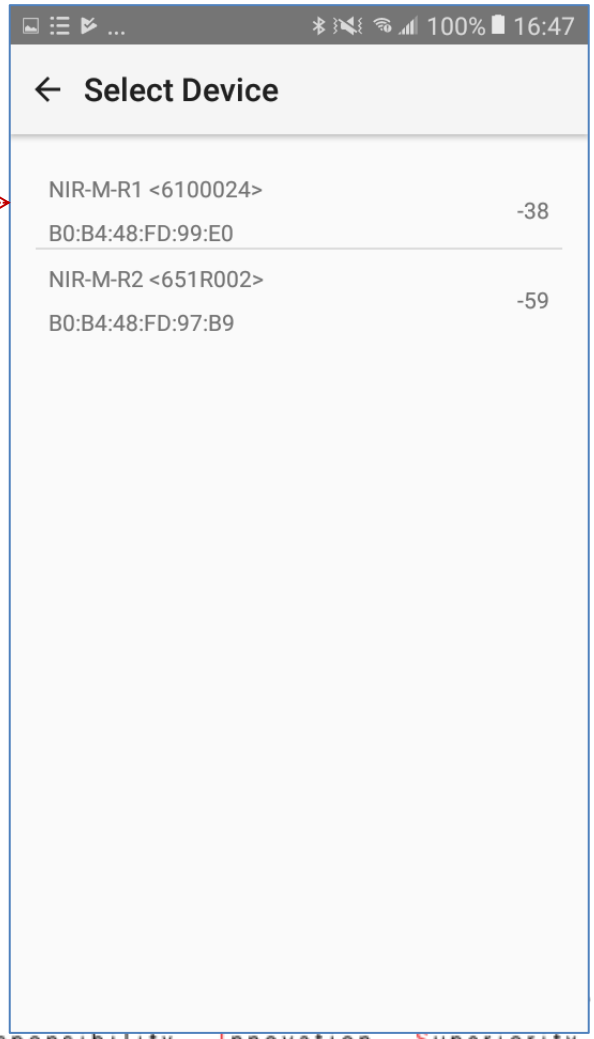

7% 09:24
ISC NIRScan
Connect to device
InnoSpectra Corporation
Connect with Lamp-Off
More Information
Settings
83% 14:03
More Information
InnoSpectra Corporation
InnoSpectra Corp. Website
Learn about InnoSpectra Corp., a professional handheld spectrometers manufacturer!
Purchase ISC NIRScan Devices
Learn about InnoSpectra, TI's Strategic Design Partner
License
About License of this App
22% 09:27
Settings
v2.17 (8)
Device Filter
NIR
Set My Device
NIR-M-R1 <6100024>
Clear My Device
FORGET

Select the device

- First user should go to setting page from main page and select the device.
- User can set the device filter to search the device.

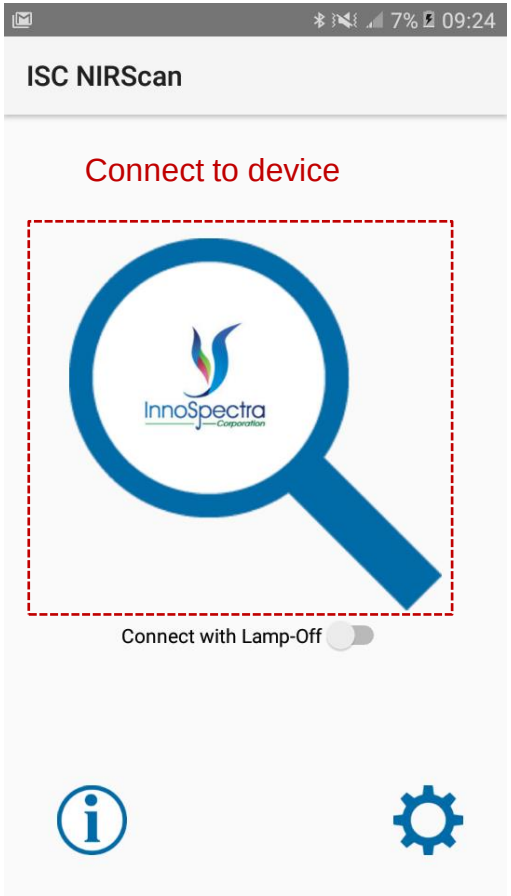


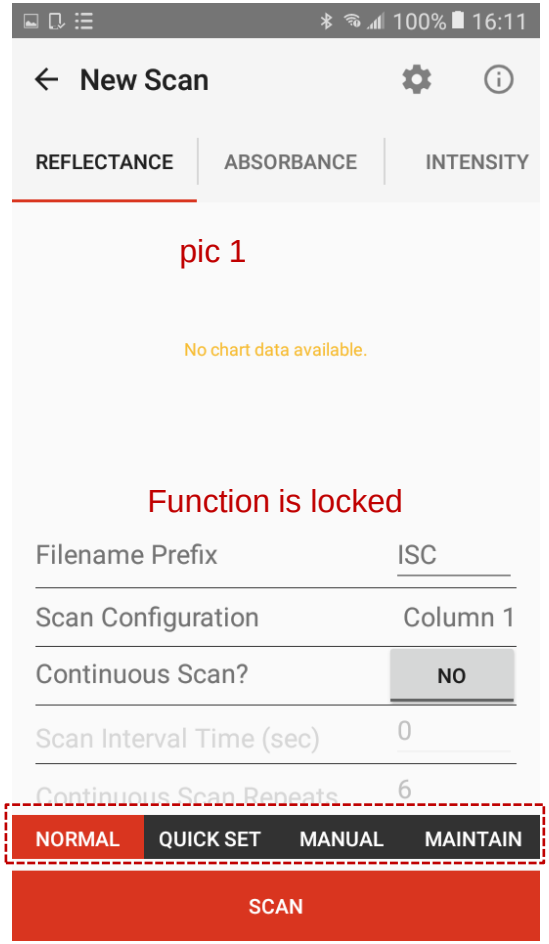
Press to select device

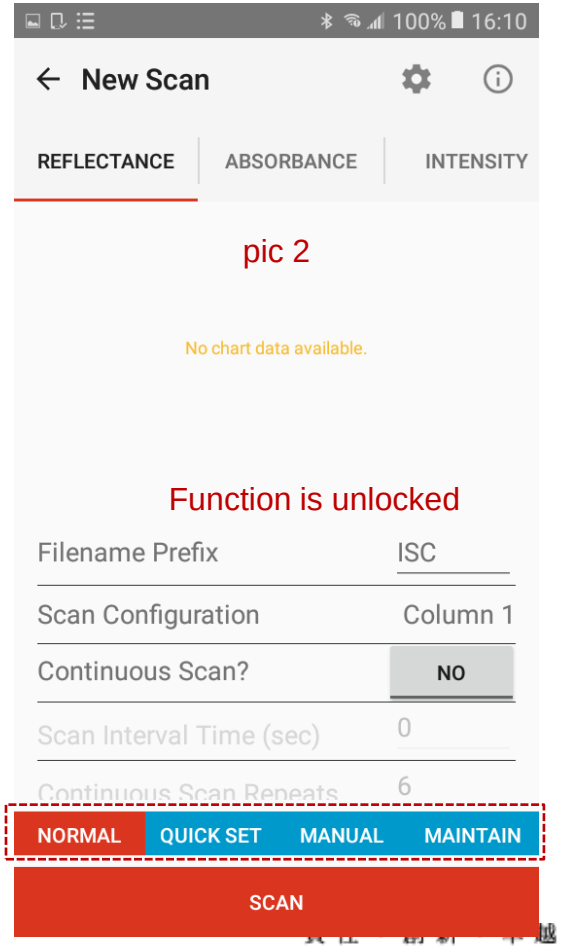


Connect to Device

- Second, user can press connect to device from the main page then go to the scan page.
- There are two scan pages. If function is locked user will see pic 1. If function is unlocked, user will see pic 2.

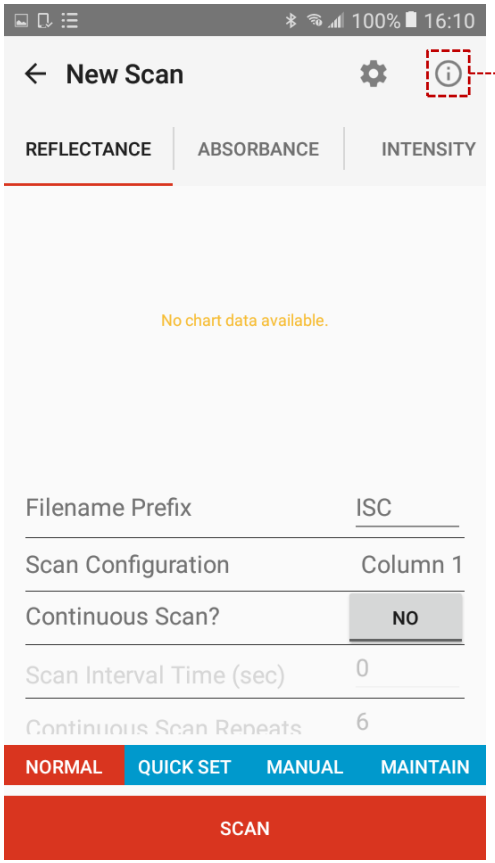


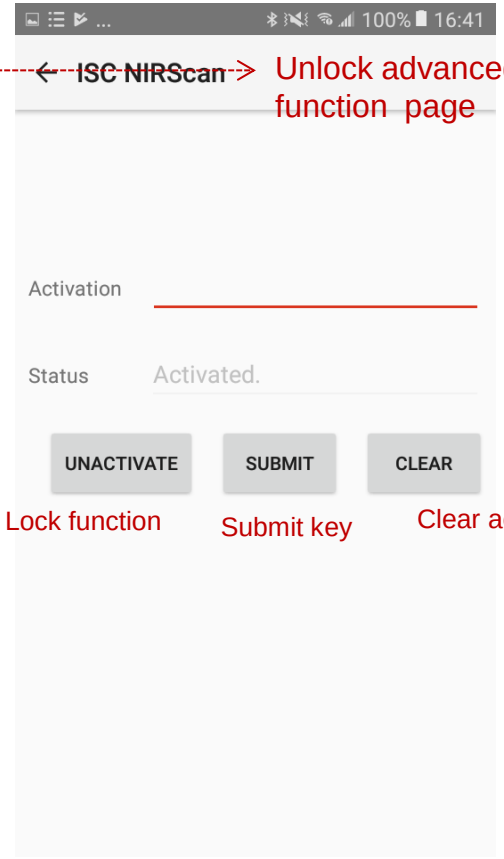




Unlock Advanced Function Page

- User can input key in activation filed then press submit. If advanced function is unlocked, the status will show “Activated”. If advanced function is locked, the status will show function is locked.
- User press “UNACTIVATE” button. The function will lock and the status will show function is locked.
- User press “CLEAR” button. The activation field will clear.





Unlock advanced function page

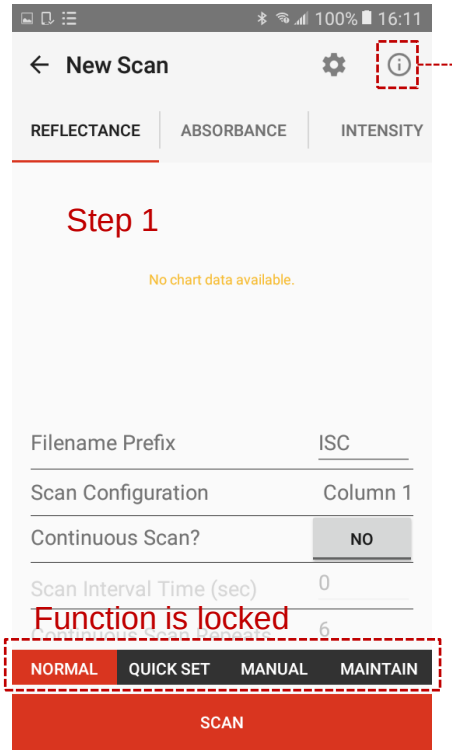
Lock function

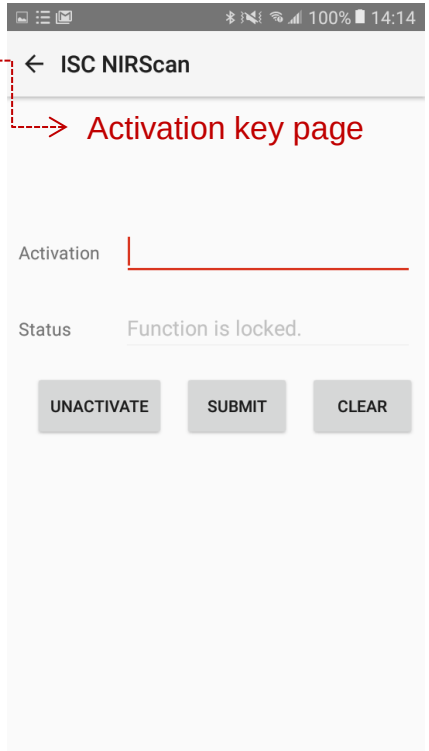
Submit key

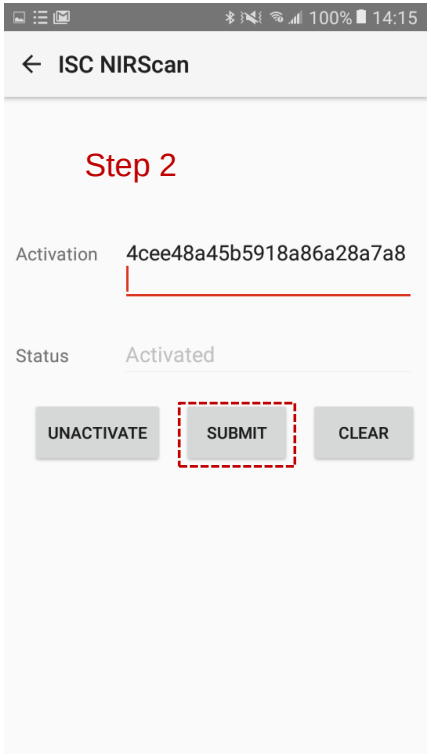
Clear activation field

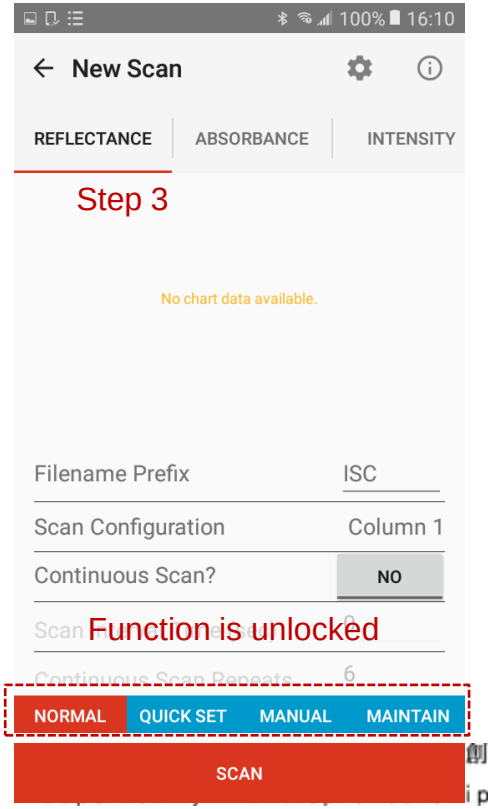
How to Unlock Advanced Function

- Step 1: Press button to go to activation key page. User can see the status is “Function is locked” .
- Step 2: Input key then press “SUBMIT”. The status will change to “Activated” when user input correct key.
- Step3: Back to scan page. The function will unlock.



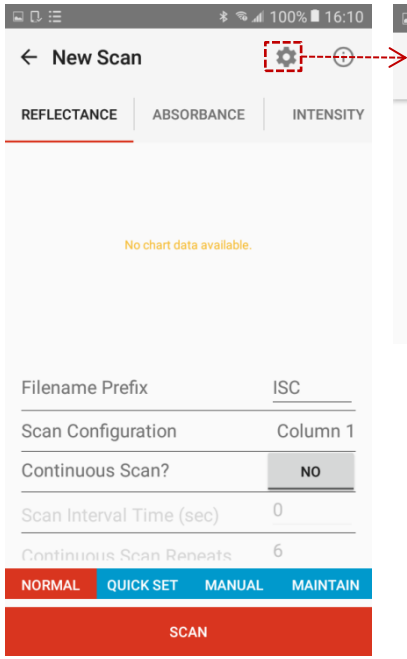


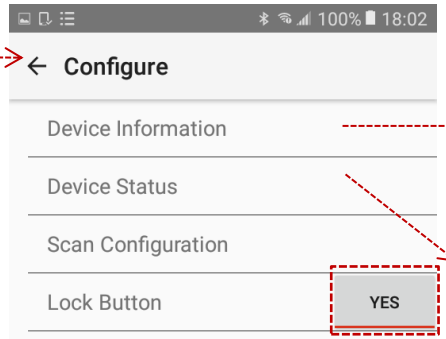




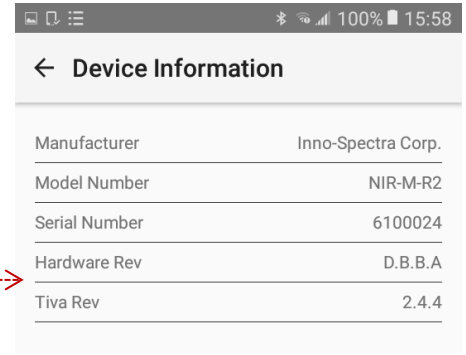
Configure Page

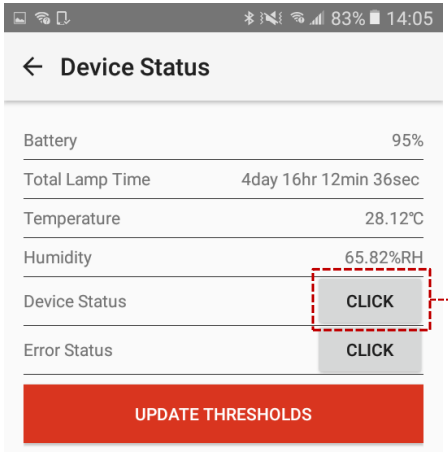
- User can go to configure page from scan page.
- Press “Device Information” can see the device information.
- Press “Device Status” can see the device status.
- Press “CLICK” button in device status filed can see the detailed device status.
- User can decide whether to turn on the device button.

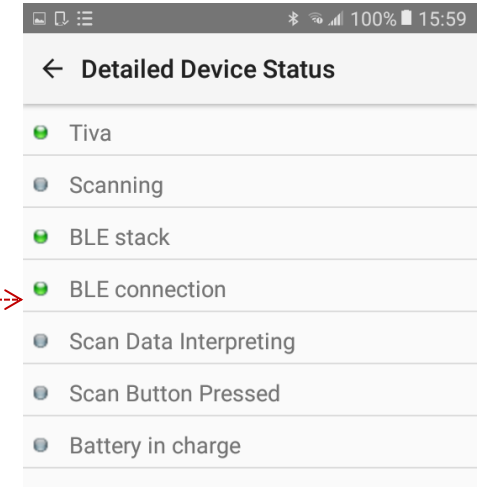




Decide whether to turn on the device button

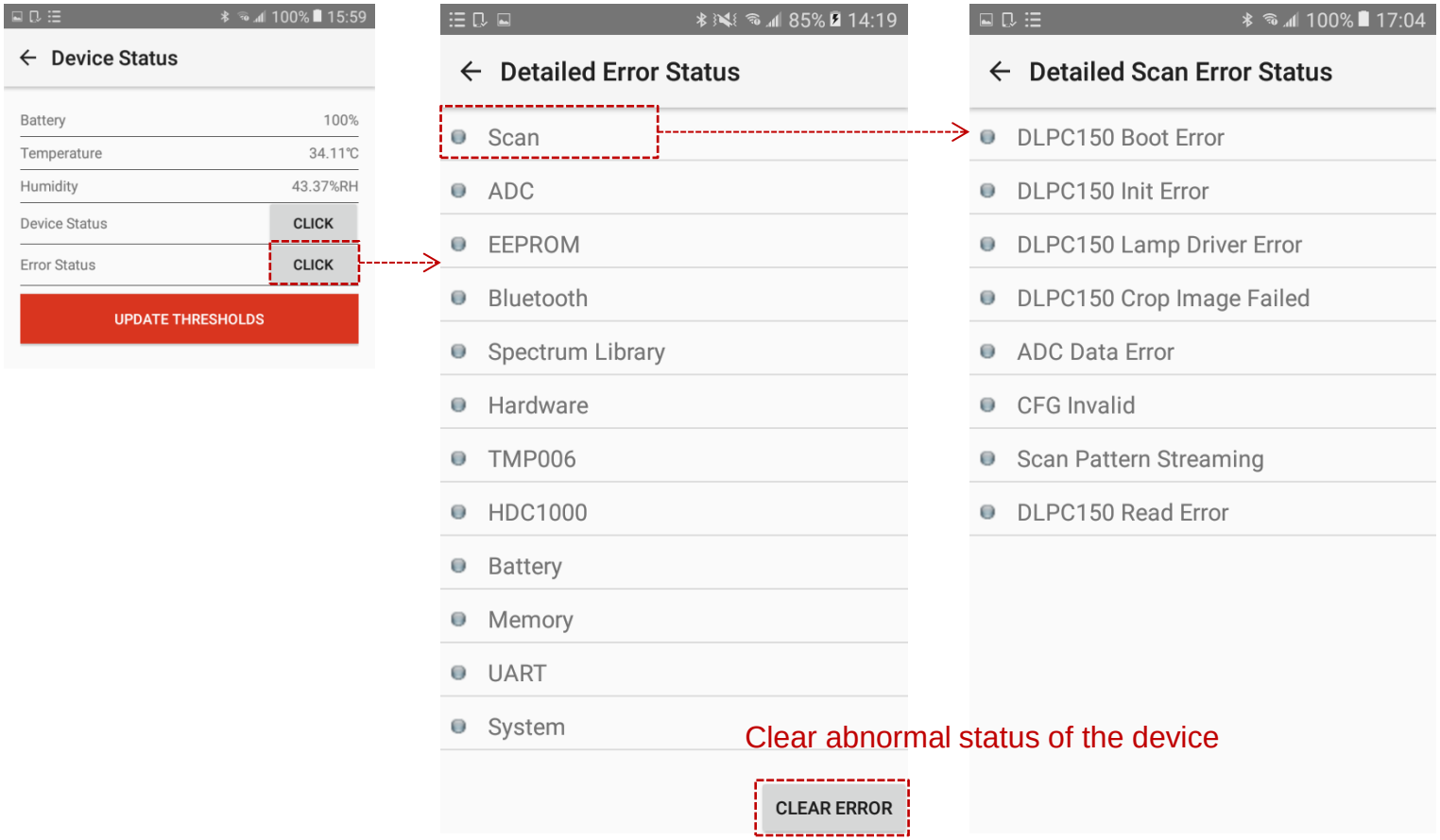






Configure Page

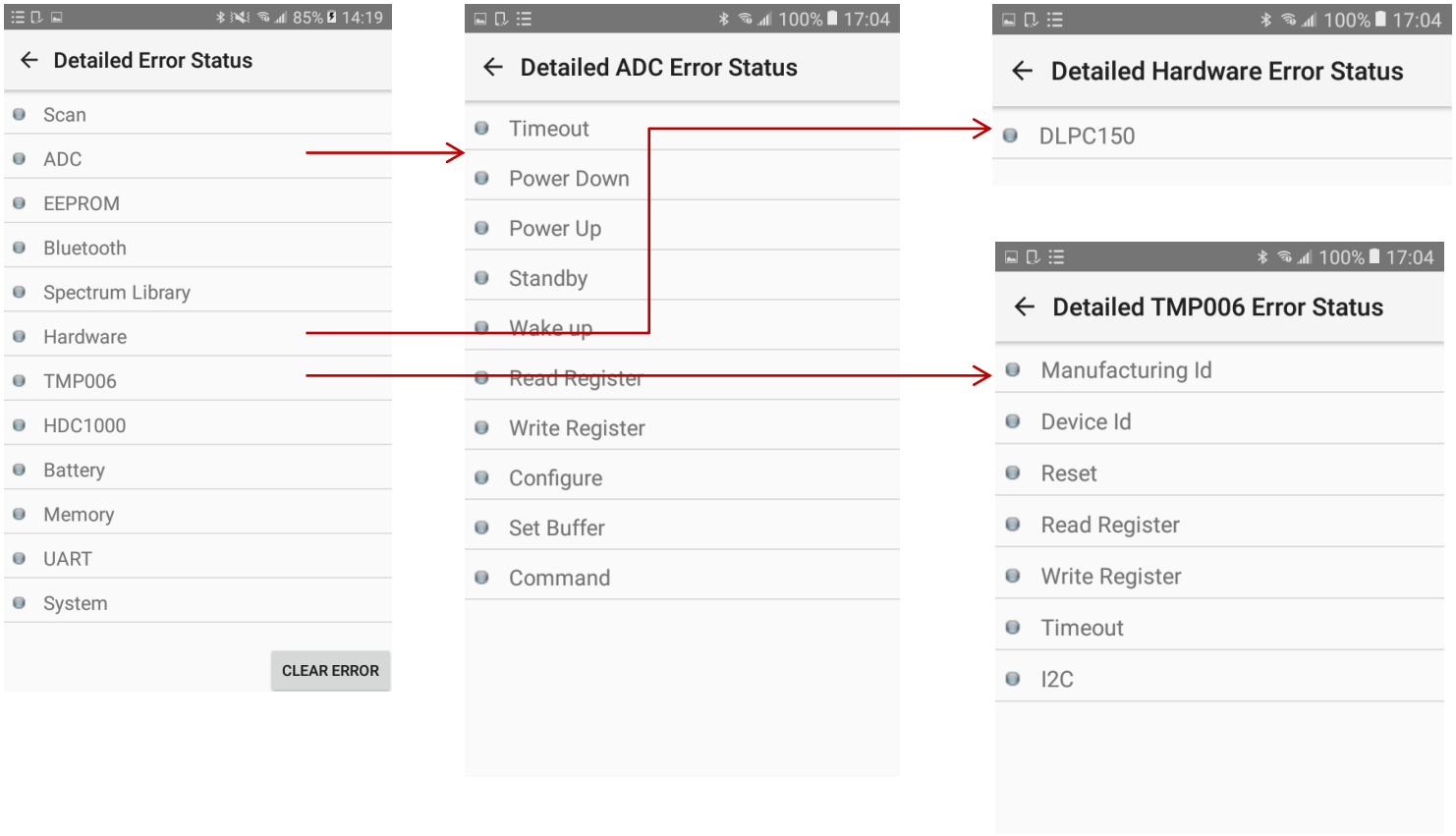
- Press “CLICK” button in error status filed can see the detailed error status.
- Press “CLEAR ERROR” button can clear abnormal status of the device.
- Press “Scan” in detailed status can see detailed scan error status.



Clear abnormal status of the device

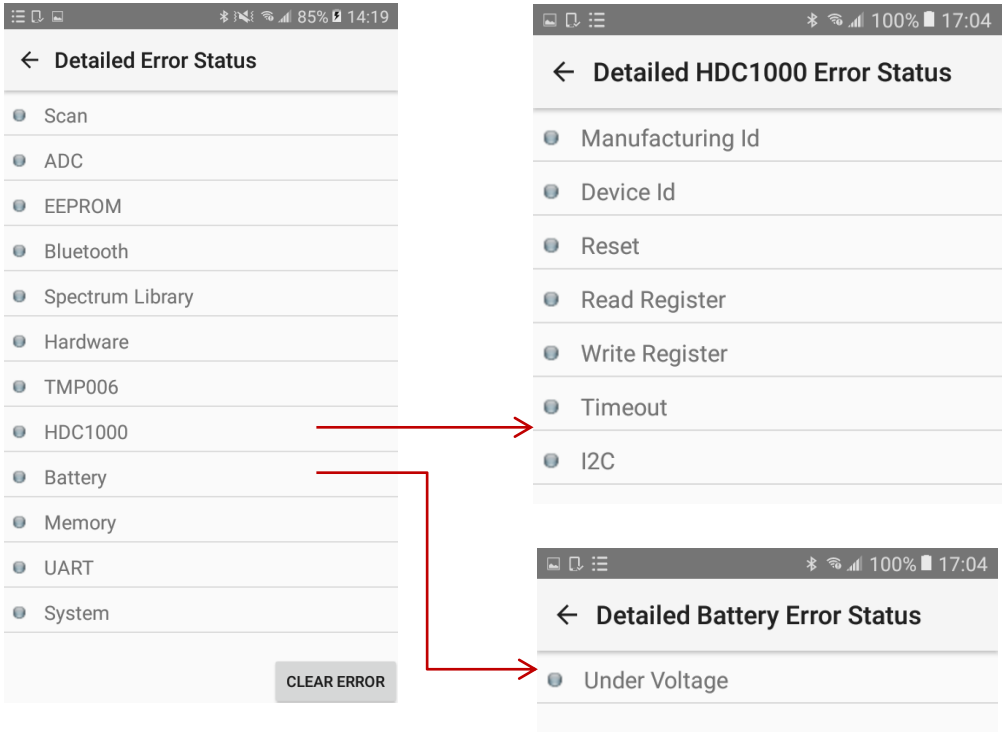
Configure Page

- Press “ADC” in detailed status can see detailed adc error status.
- Press “Hardware” in detailed status can see detailed hardware error status.
- Press “TMP006” in detailed status can see detailed tmp006 error status.



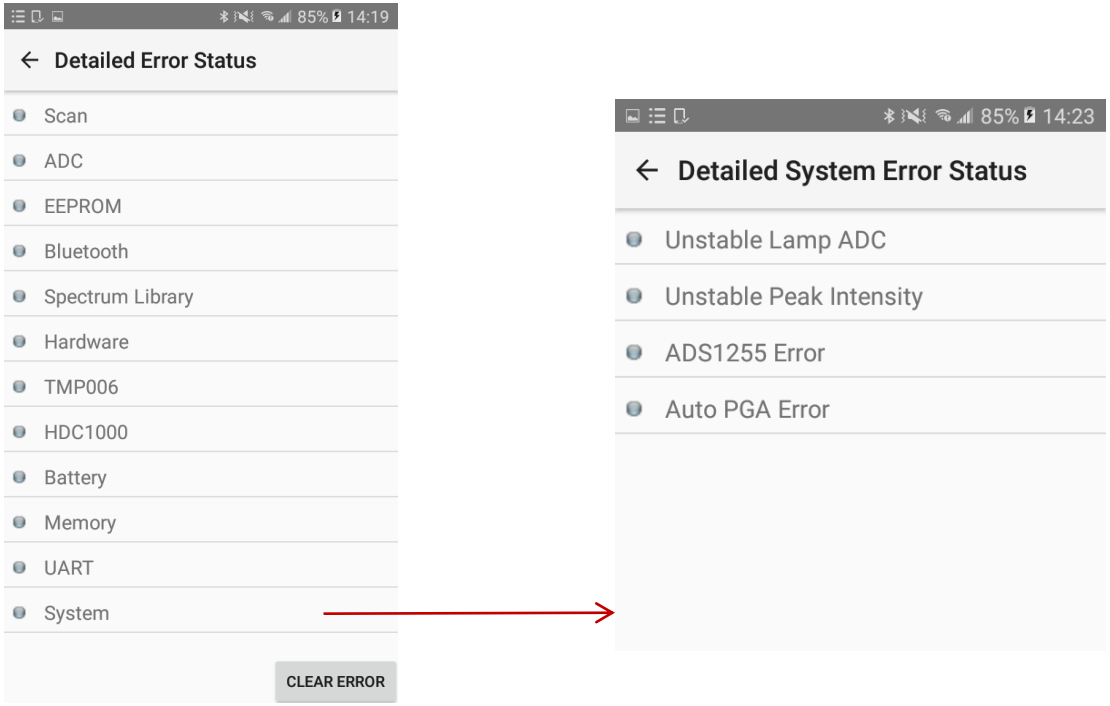
Configure Page

- Press “HDC1000” in detailed status can see detailed hdc1000 error status.
- Press “Battery” in detailed status can see detailed battery error status.



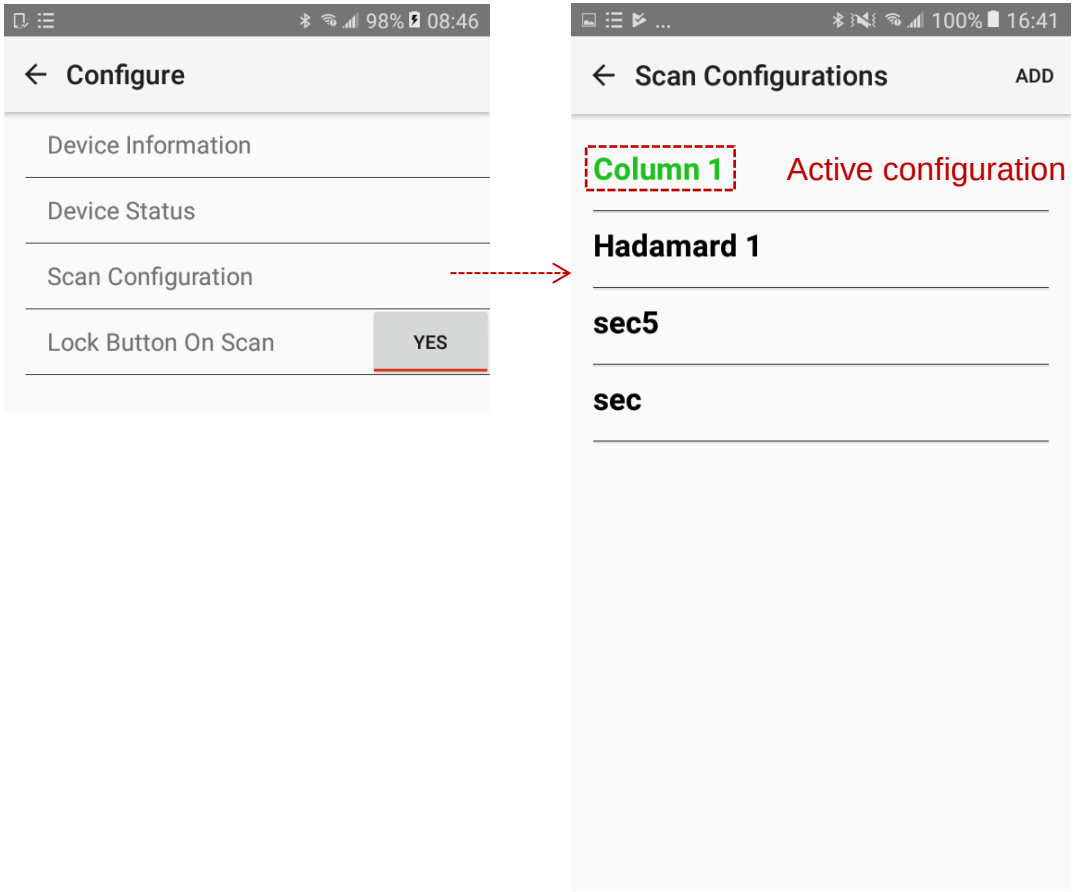
Configure Page

- Press “System” in detailed status can see detailed System error status.



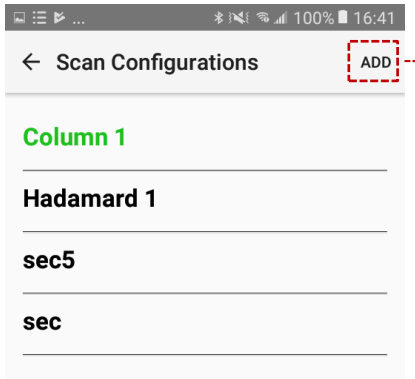
Scan Configurations Page

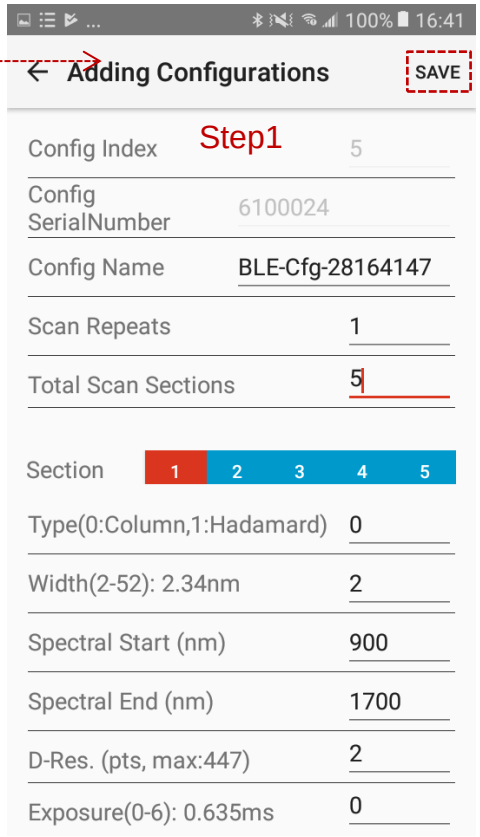
- Scan configurations page will show the configurations saved in device.
- The green is represented the active configuration.
- User can press other configuration to change the active configuration.
- The active configuration is used to default configuration.

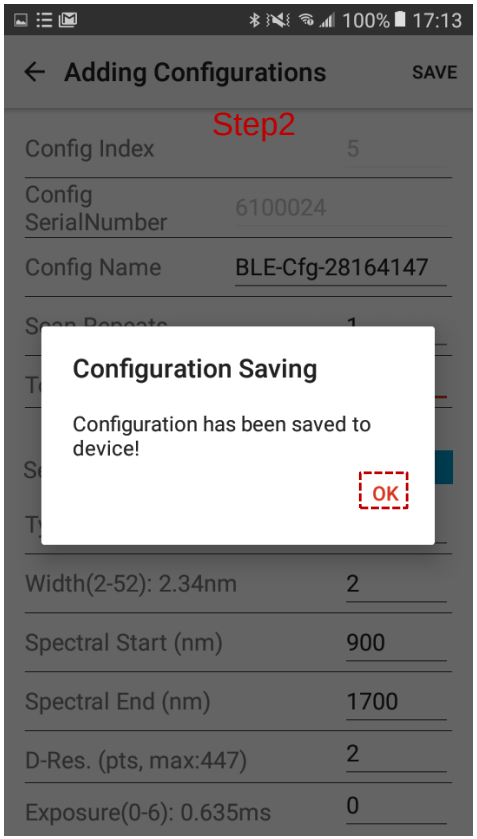


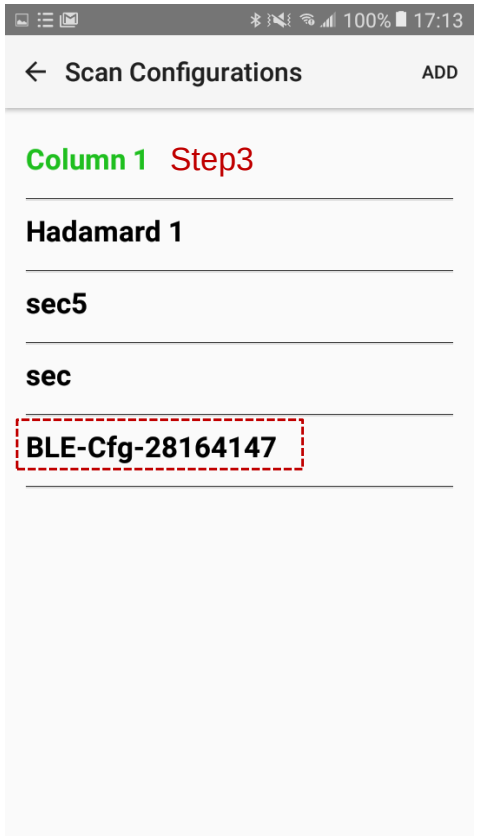
Create A Scan Configuration

- Step 1: Input config name, scan repeats, total scan sections, and section info then save.
- Step 2: Press “OK” when pop out configuration saving dialog. The app will back to scan configurations and re-download config.
- Step 3: The config will list to scan configurations.



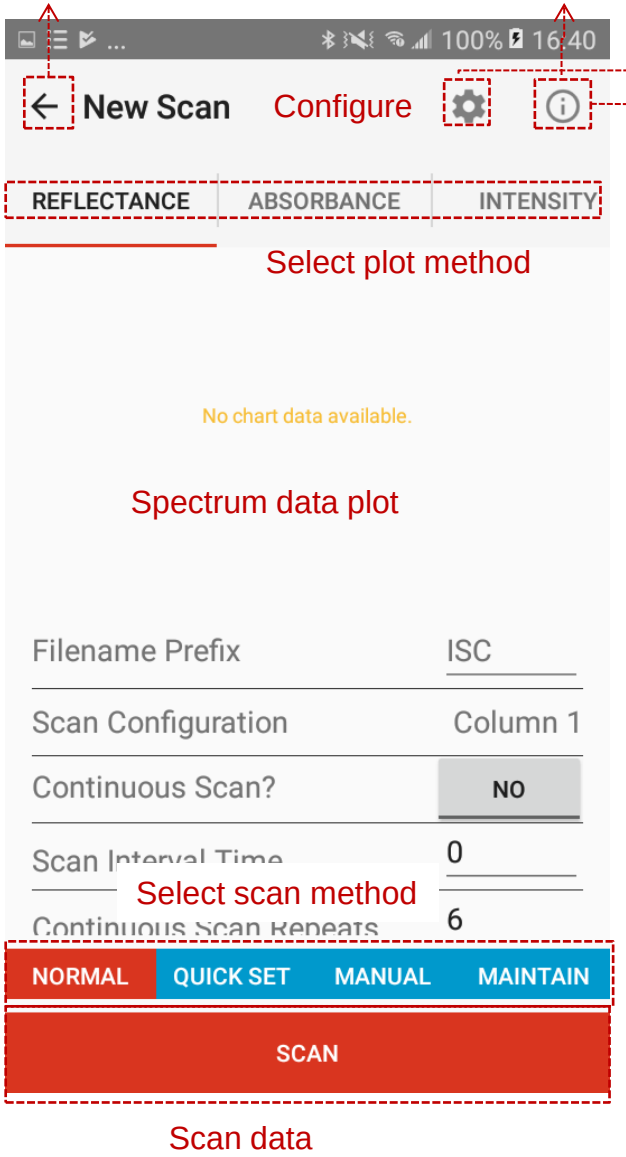


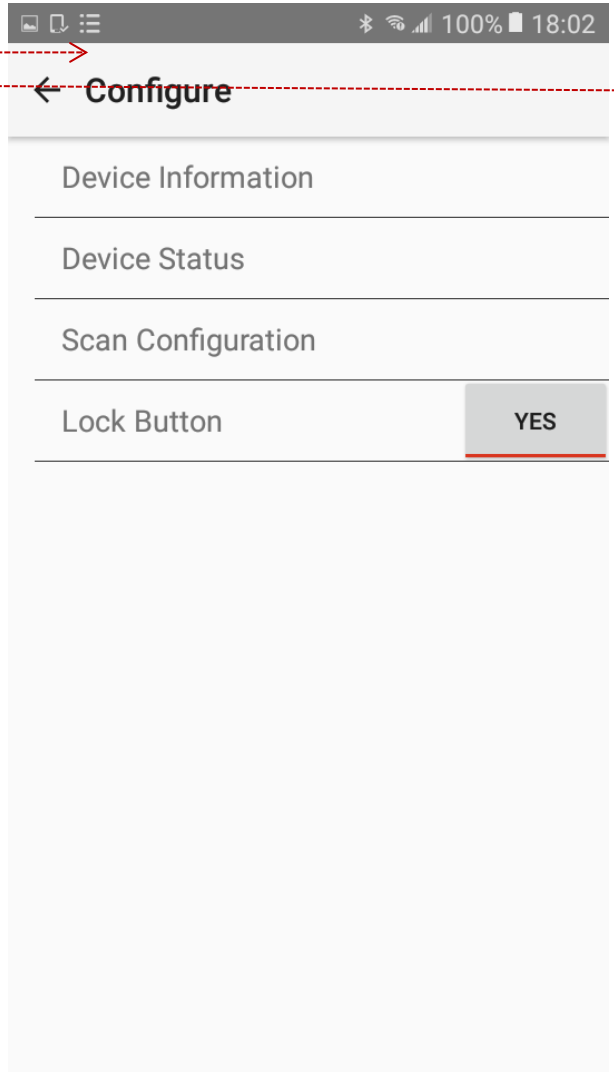


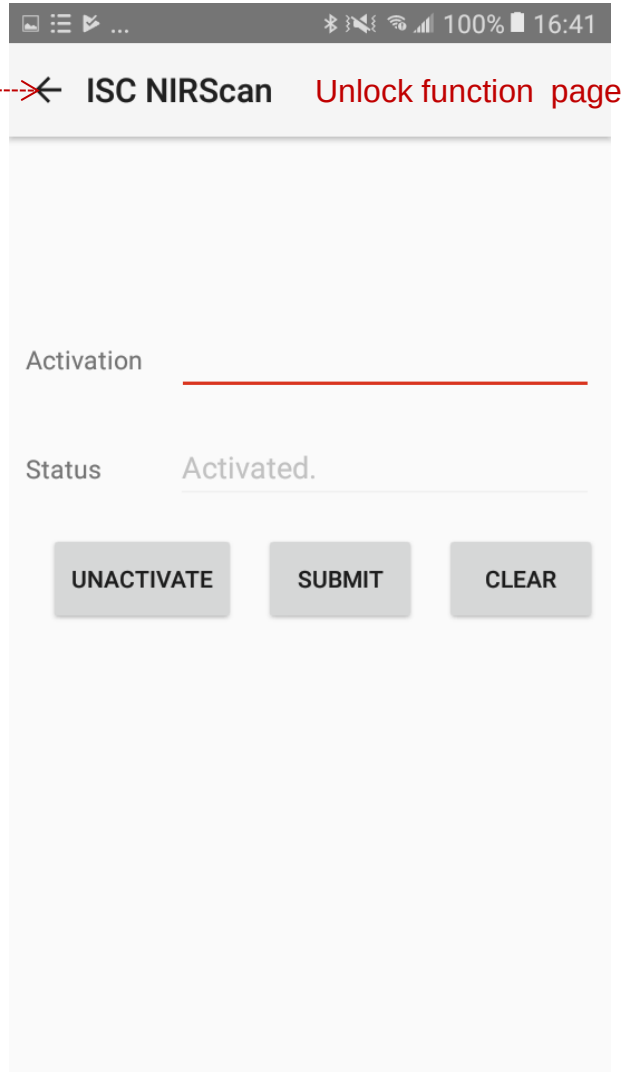


PERFORMING A SCAN

Scan Page

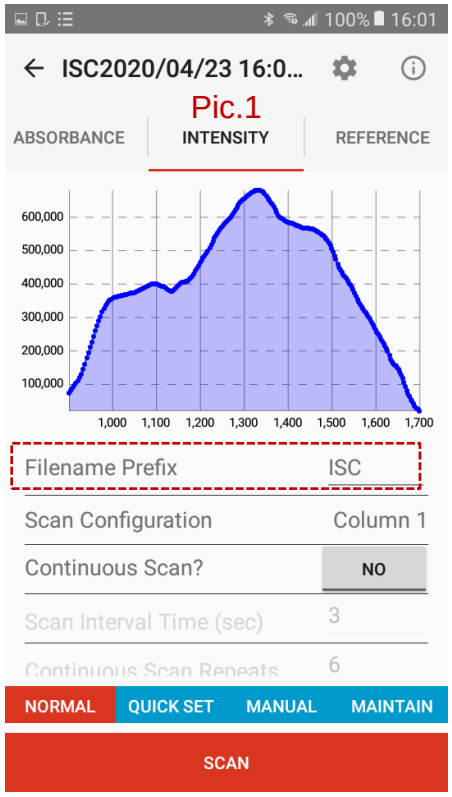

Back to main page
and disconnect to device
Unlock function page
100% 16:40
New Scan
Configure
REFLECTANCE
ABSORBANCE
INTENSITY
Select plot method
No chart data available.
Spectrum data plot
Filename Prefix
ISC
Scan Configuration
Column 1
Continuous Scan?
NO
Scan Interval Time
0
Select scan method
Continuous Scan Repeats
6
NORMAL
QUICK SET
MANUAL
MAINTAIN
SCAN
Scan data

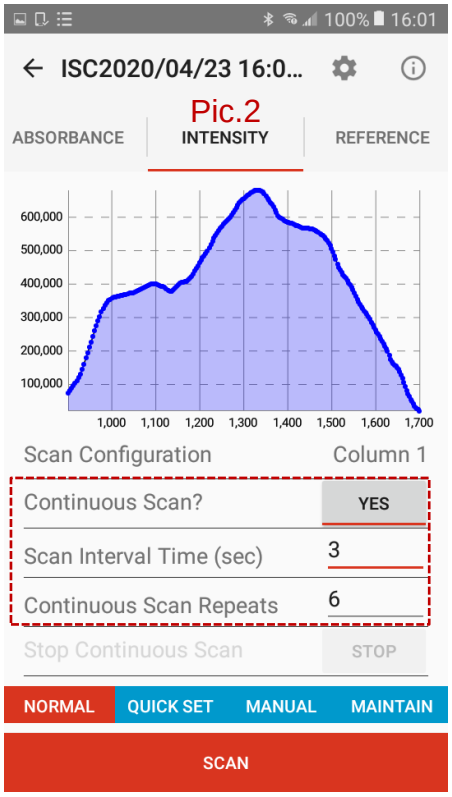

100% 18:02
Configure
Device Information
Device Status
Scan Configuration
Lock Button
YES

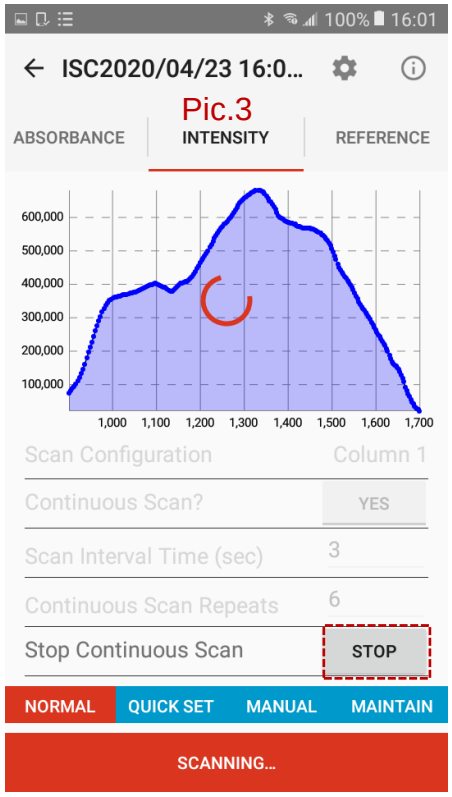

100% 16:41
ISC NIRScan
Unlock function page
Activation
Status
Activated.
UNACTIVATE
SUBMIT
CLEAR

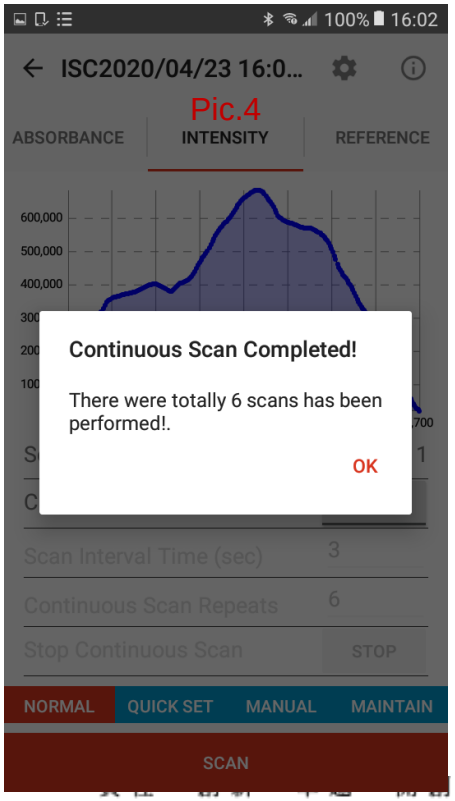
Normal Scan

- Press “SCAN”, the result will show in the plot and save .csv in the phone. The file path is Documents/ISC_Report/ . User can modify filename prefix before scan (Pic.1).
- If user want to continuous scan, open continuous scan and set scan interval time and continuous scan repeats (Pic.2). User can press “STOP” to stop scan in continuous scan mode (Pic.3). After continuous scan complete, will pop out dialog (Pic.4).



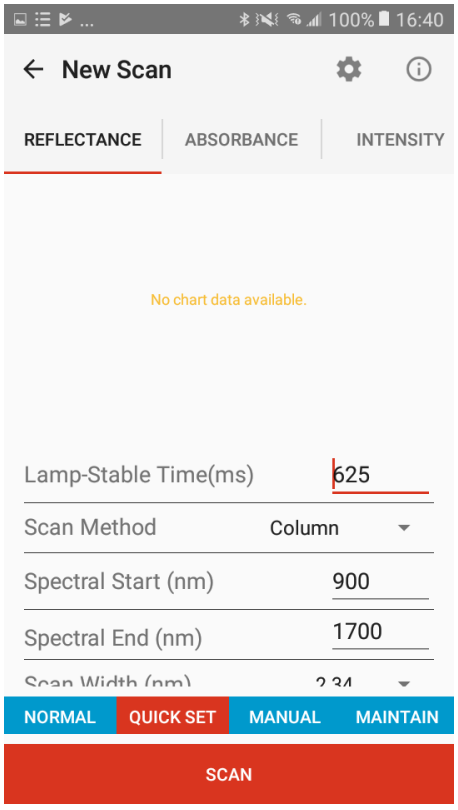


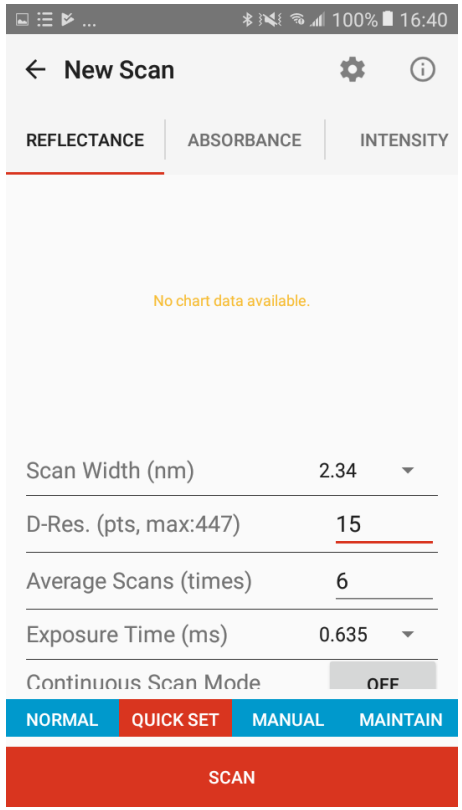


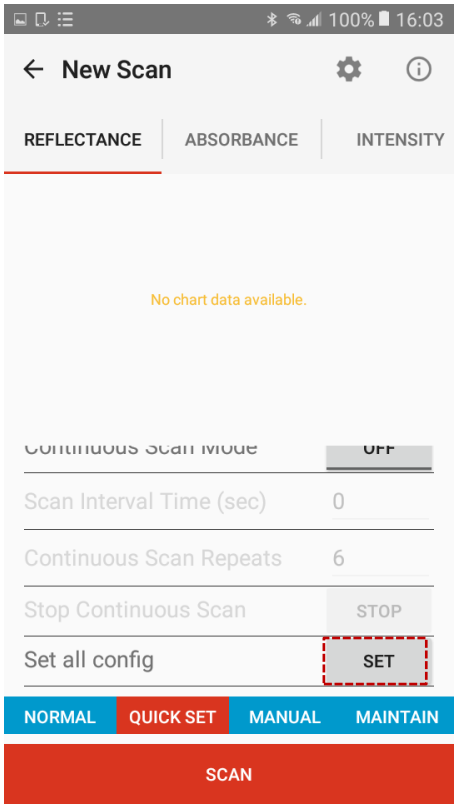


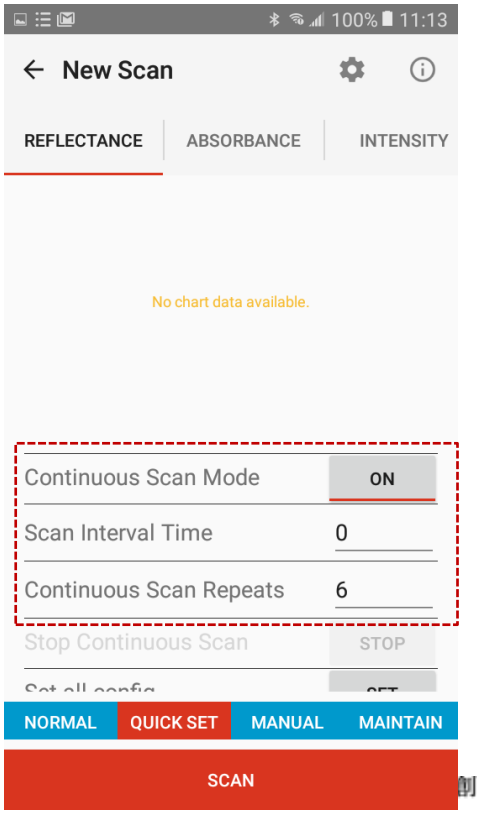
Quick Set Scan

- User can set parameter individual in quick set mode. **Before scan, user should press “SET” to set all configuration to take effect.**
- If user want to continuous scan, open continuous scan and set scan interval time and continuous scan repeats . User can press “STOP” to stop scan in continuous scan mode.



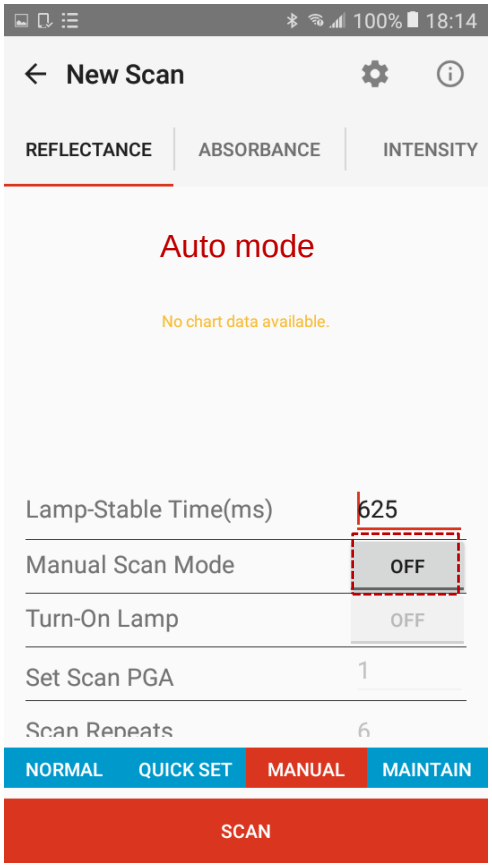


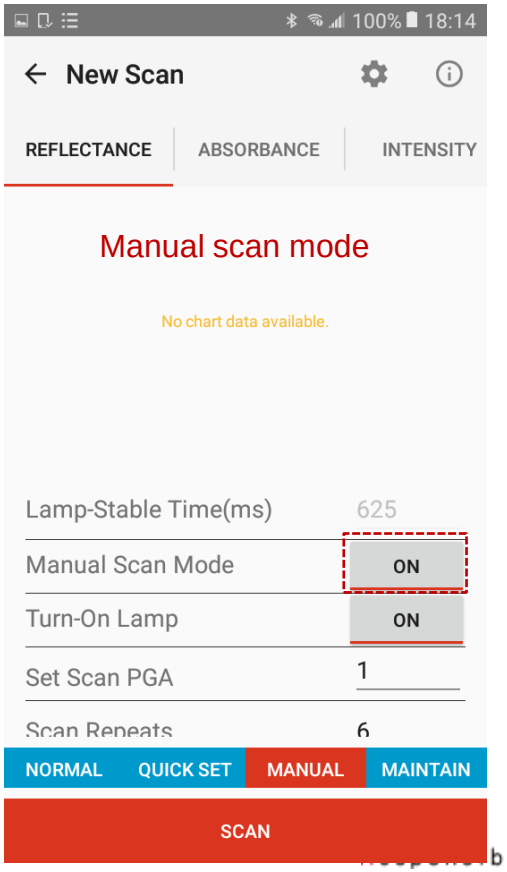


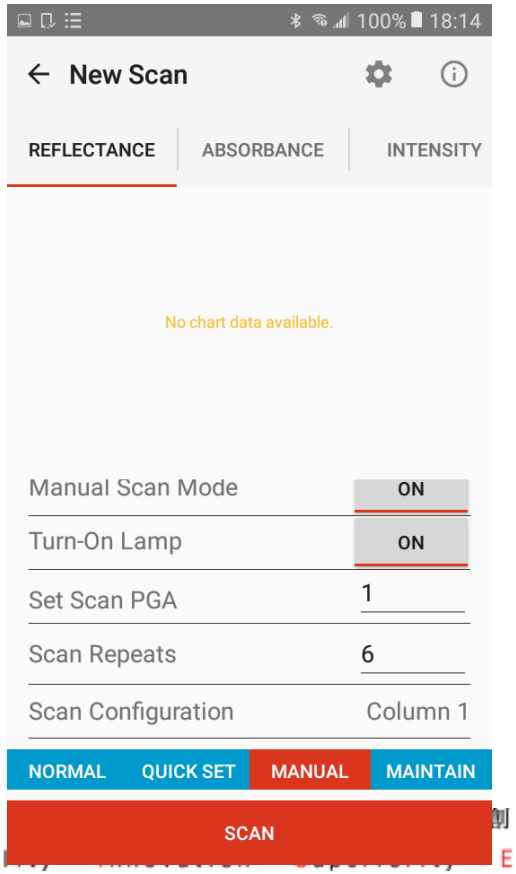


Manual Scan

- In auto mode, user can set lamp-stable time.
- In manual scan mode, user can set lamp on or off, pga gain and scan repeats.

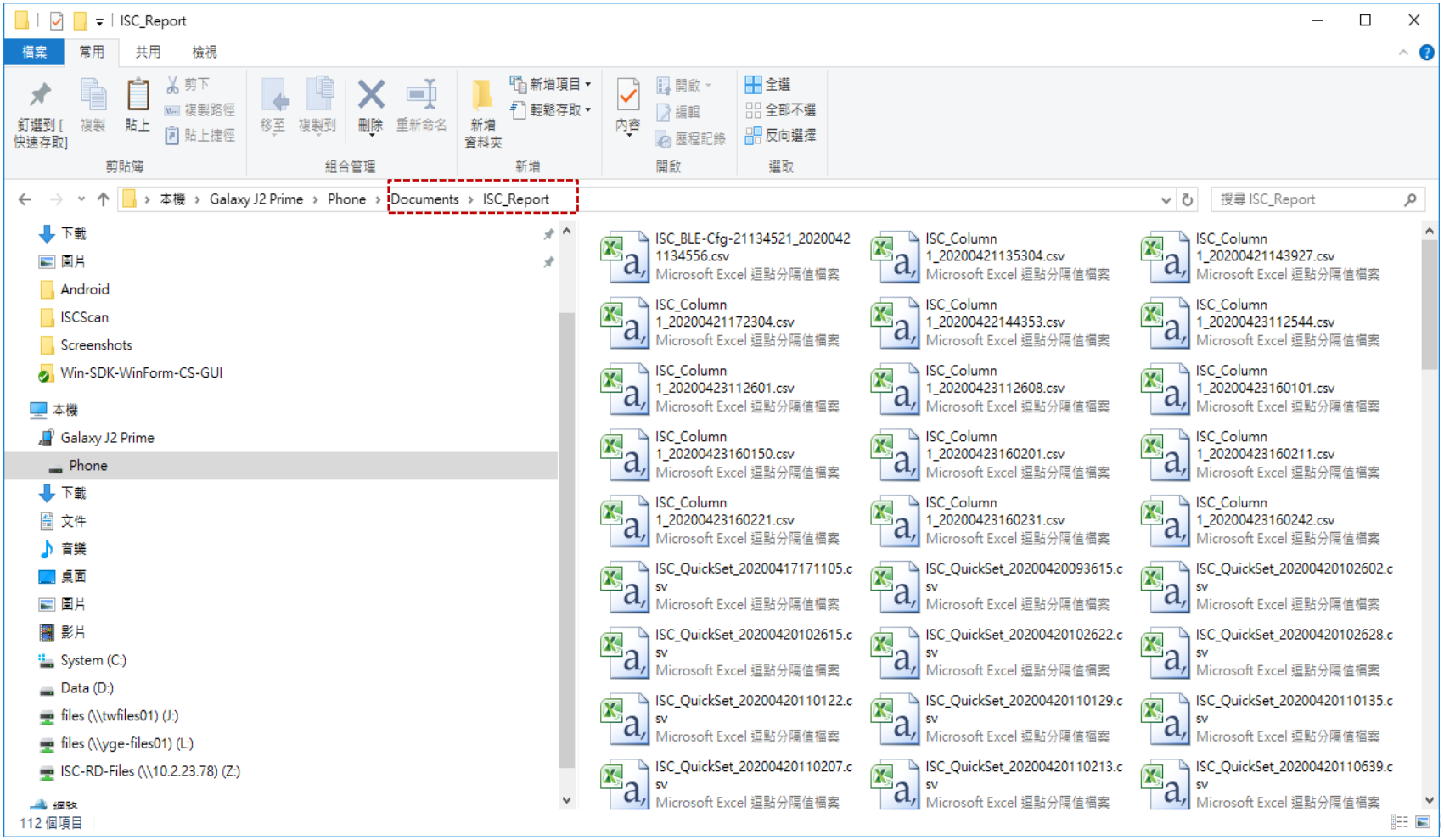






.CSV file

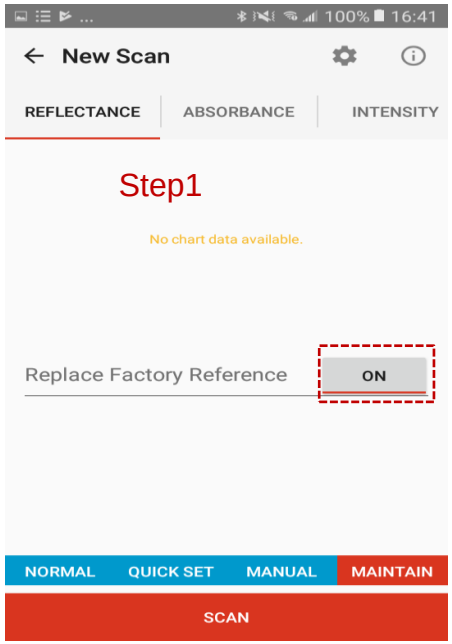
- After scan, the scan report (.csv file) will save to Documents/ISC_Report.
- The phone should use USB to connect PC and find the file.

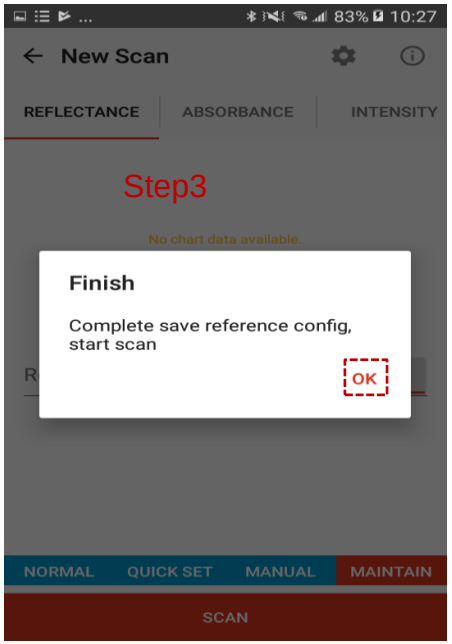


UPDATE BUILT-IN REFERENCE DATA

Replace Built-In Reference

- Before replacing stored reference data, preparing a highly reflective material. A 99% reflective material as Spectralon® is preferred.
- Setp1: Turn on “Replace Factory Reference” then scan. The warning dialog will pop out.
- Step2: Select “YES,I KNOWN”. The device will set config. If set config success, the finish config will pop out.
- Step3: Select “OK” then the device will start scan.
- Step4: Complete save reference will pop out finish dialog. Select “OK” and wait for 3 sec, the device will disconnect. User should reconnect to download new reference.

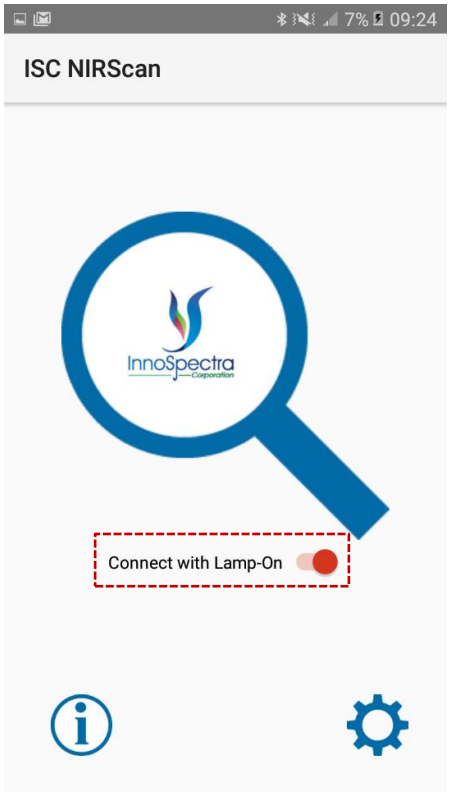




WARM UP THE DEVICE

Warm Up the Device

- User can turn on the switch button to warm up the device.
- The lamp will turn on after connect to the device.
- Warm-up time reaches three minutes, user can directly switch pages or scan, and the device will automatically turn off the lamp.
- **Warning: When the user sets connect with lamp on, must pay attention to the warm-up time and confirm that the device is warmed up and turn off the lamp before leaving.**



InnoSpectra Corporation

Thank You

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Responsibility Innovation Superiority Entrepreneurship