

**FOTRIC**

**LinkIR**

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**User Manual**

Thank you very much for your purchase of our products. If you have any questions or needs, please feel free to contact us.

This user manual is intended for FOTRIC thermal imaging camera APP, LinkIR.

This manual may contain information which is not technically accurate, may not match with the product's functions and operations, or may contain printing typos. We will update the contents of this manual according to the enhancement of the product's function and regularly improve or update the products or procedures described in this manual. The updated content will be added to the new version of this manual without prior notice.

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# 1. LinkIR App Installation

## 1.1. Smartphone Requirements

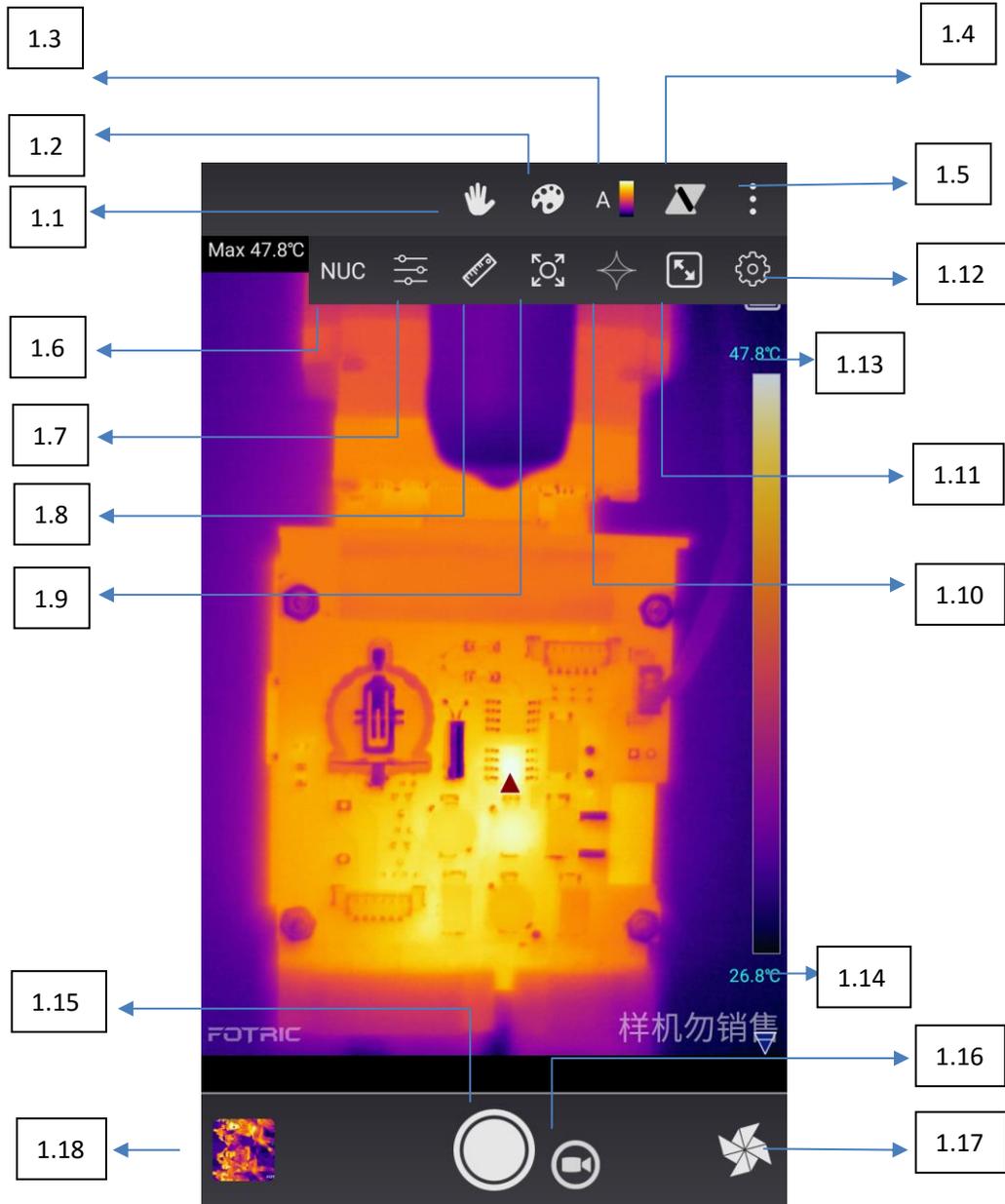
- 1.1.1. Android 4.4 and later
- 1.1.2. Support OTG function
- 1.1.3. OTG USB cable is needed to connect a smartphone to the thermal camera, please use OEM OTG USB cable.

## 1.2. App download, installation, and connection

- a) App Download: LinkIR APP can be downloaded from [www.FOTRIC.com](http://www.FOTRIC.com)
- b) Access Requirement: Need to trust this application after installation to avoid the issue of connection with the thermal camera.
- c) Connect to FOTRIC thermal camera: Use the USB OTG cable to connect the camera to the smartphone, power on the thermal camera and launch LinkIR App. Click “OK” in the pop-up window to confirm the connection with the camera.

## 2.LinkIR Operation Instruction

### 2.1. LinkIR main User Interface (UI) window



1.1 Temperature measurement Region of Interest (ROI) selection.

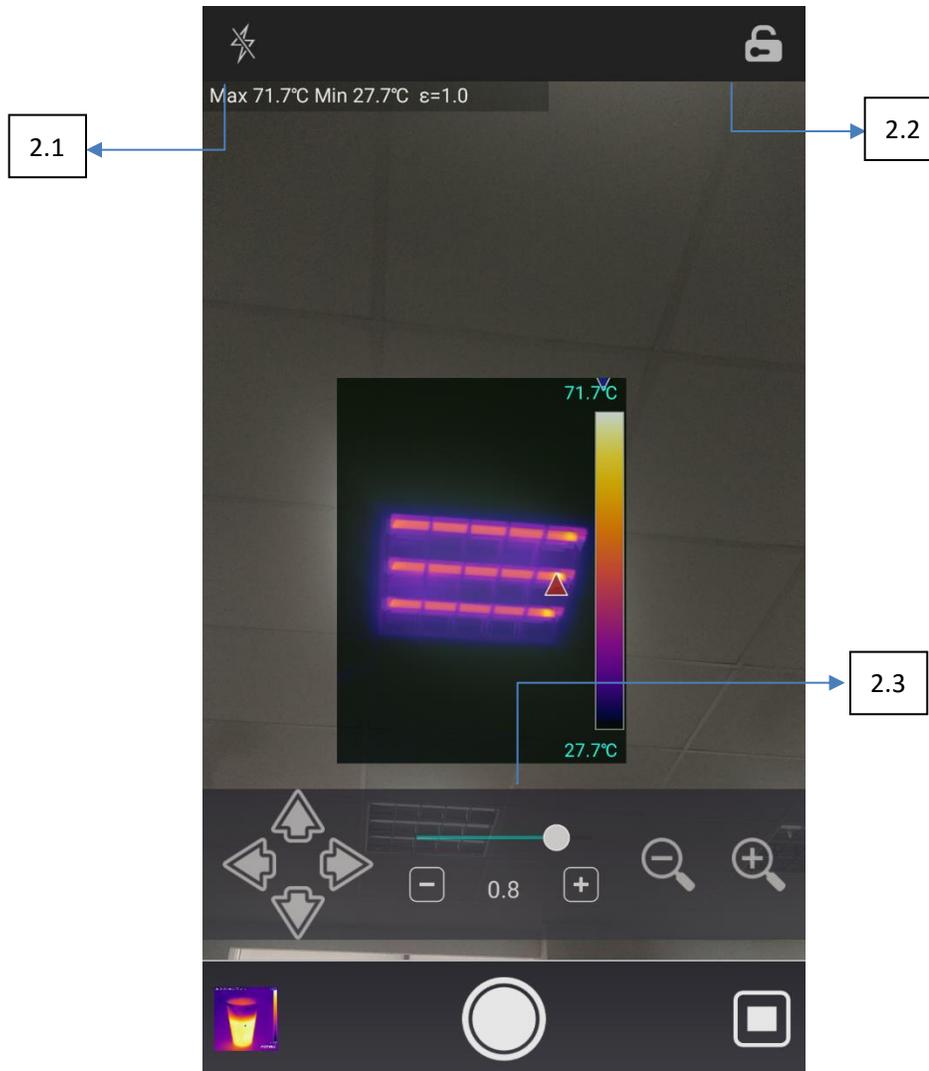
You can add movable ROIs such as box, line, and point.

Click the added RIO to set up the emissivity for this region separately.

- 1.2 Preview and switch thermal image color palette. Click to enter the color palette preview window.
- 1.3 Temperature bar range switch. Click to switch between automatic and manual mode. represents the automatic mode, while represents manual mode. You can set the high/low limit of the temperature range bar in the manual mode.
- 1.4 Capture the maximum and minimum temperature location of the current thermal image. The default is on. Click to switch to capture the highest temperature point, capture the minimum temperature point or cancel the capture of high and low temperature.
- 1.5 More functions. Click to access other functions.  
;
- 1.6 Temperature calibration
- 1.7 Temperature parameter setting. Click to pop up setting window.
- 1.8 Temperature measurement range switch. Click to set the temperature range for the lens.
- 1.9 Digital image zoom option.  
 Zoom in/out the current image.
- 1.10 Isothermal (color alarm). Click to set temperature threshold. Display white on the top when the temperature is above the threshold. Display white on the bottom when the temperature is below the threshold.  
 Click the number to change the temperature threshold value.
- 1.11 Full-screen display. Click to switch to the full-screen display. No change to the temperature ROI.

- 1.12  Settings. Click to pop up the settings window. You can set up the lens, unit, alarm, etc. You can also check the device information, software update, etc.
- 1.13  Temperature bar upper limit. When it is under the manual mode  of temperature bar, click to change the upper limit.
- 1.14  Temperature bar lower limit. When it is under the manual mode  of temperature bar, click to change the lower limit.
- 1.15  Take a thermal image. Click to shoot a thermal image.
- 1.16  Switch to the mode of “Record a thermal video”. After clicked,  changes to . Click  to record a thermal video.  changes to . Click to switch to the mode of “Take a thermal image”.
- 1.17  Thermal image/Picture-in-Picture fusion switch.  is for thermal image;  is for picture-in-picture fusion.
- 1.18  Gallery. Click to view the thermal images, videos. You can pick up the thermal image/video, perform analysis on the smartphone, share with others, etc.

## 2.2. Picture-in-picture (PIP) window



2.1

Flash light switch

2.2

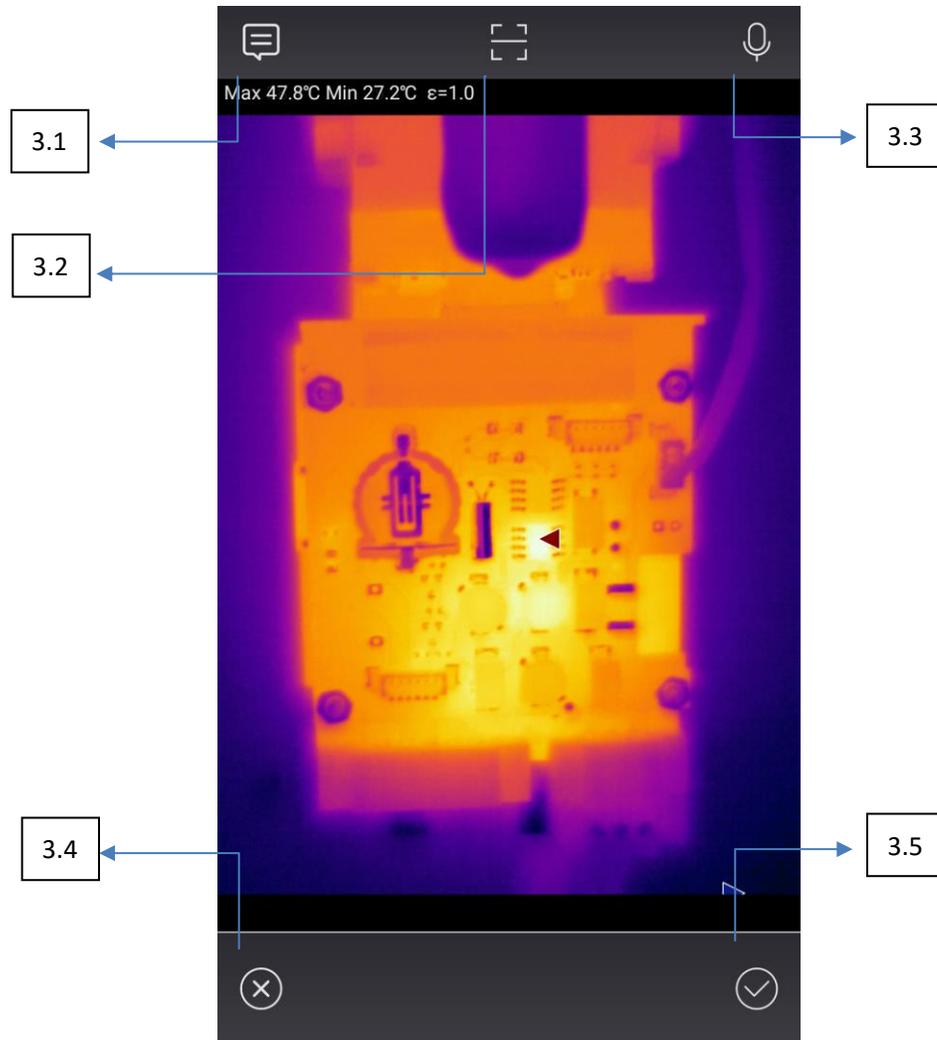
Picture-in-Picture (PIP) setting switch. After switched on, go to 2.3;

2.3

Picture-in-Picture (PIP) setting. You can move the thermal image location, transparency, and size.

Note: The image taken under PIP mode will contain both thermal image and visible light picture. You can view both images when analyzing the image.

## 2.3. Take a thermal picture window



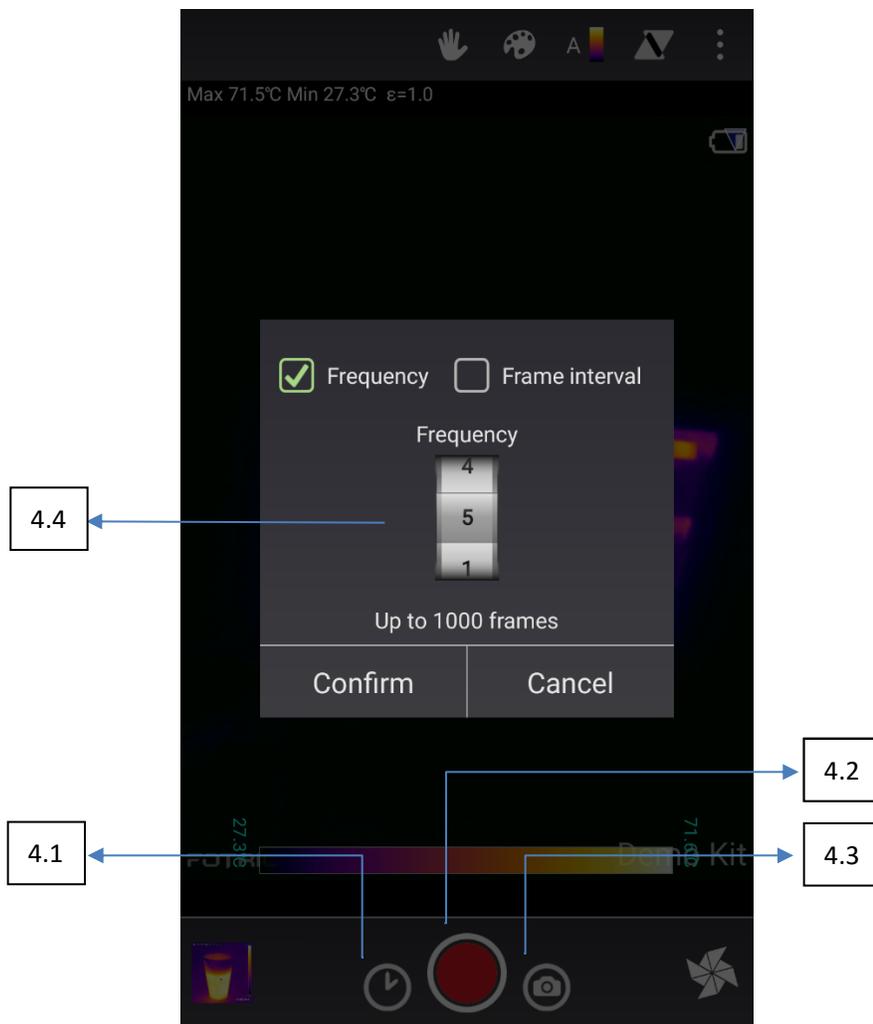
3.1  Text comment. Click to add text comments of the current picture.

3.2  QR code. Click to scan the QR code to tag the thermal image. Easy to identify the object in the image, and data management and search.

- 3.3 Voice note. Click to record a voice note.
- 3.4 Discard. Click to discard the current image and don't save it.
- 3.5 Save the image to the gallery.

Note: Record a thermal video UI is same as the UI of “take a picture”.

## 2.4. Record a thermal video window



- 4.1 Recording setting. Click to set up the recording frame rate or time interval.

- 4.2  Record button. Click to start/stop recording.
- 4.3  Switch to the mode. Click to switch to the mode of “Take a thermal picture”.
- 4.4  Frame rate/time interval setting. Frame rate to set how many frames to be recorded per second. The time interval to set up the interval time between two neighboring frames.

## 2.5. LinkIR setting window

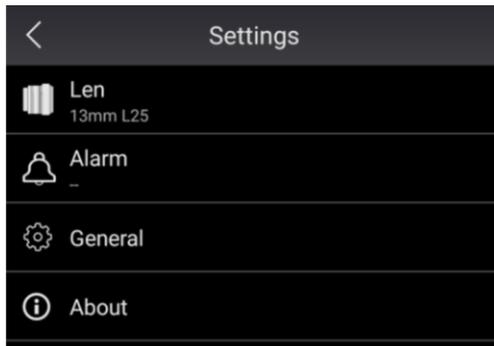


Figure 5.1

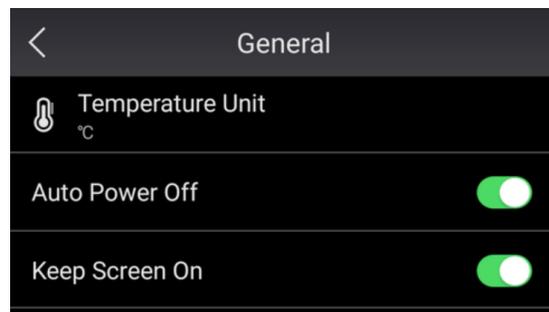
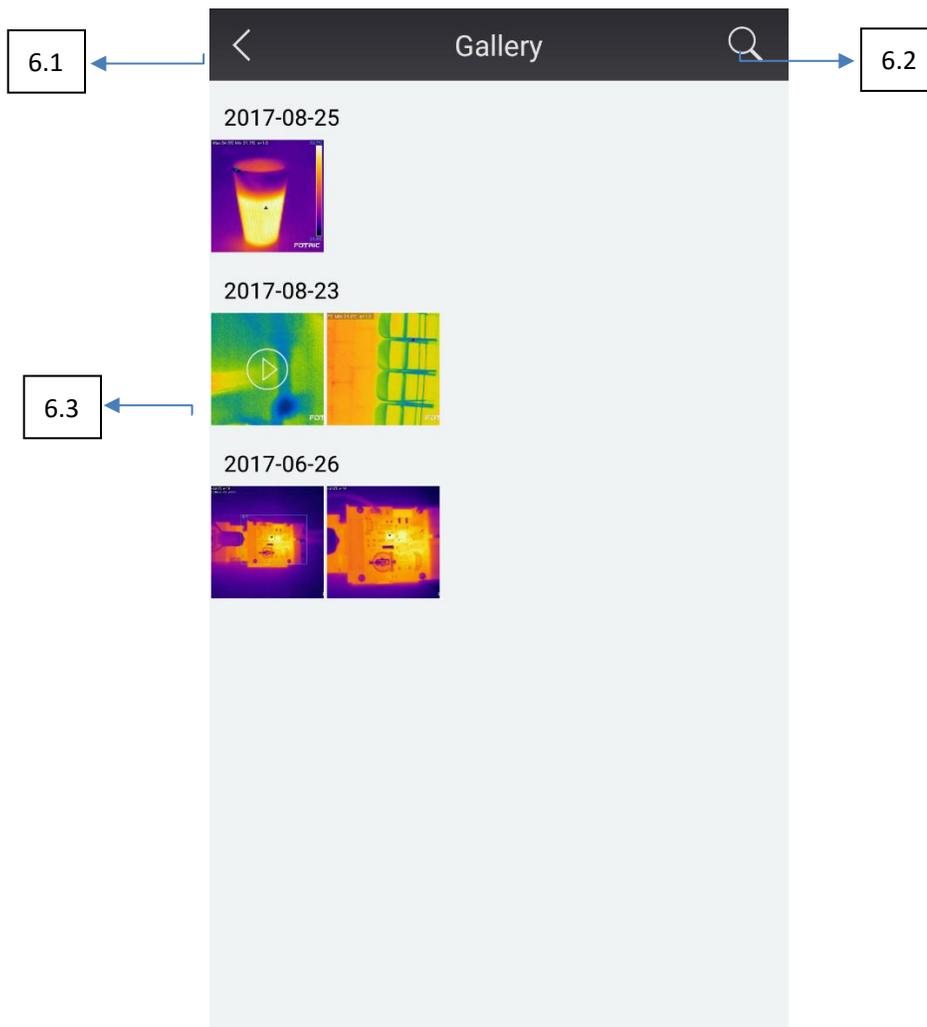


Figure 5.2

- a. Click 1.12 of the main UI to enter the window as Figure 5.1.
- b. Lens. Click to select the lens used with the thermal camera.
- c. Alarm. Start or stop the alarm of higher temperature or lower temperature. Click to specify the threshold value for the higher/lower temperature alarm. The sound alarms for the higher/lower temperature are different so you can tell what the alarm is when you hear the sound.
- d. General setting. Click to enter the window as Figure 5.2.
  - a) Set up temperature unit.
  - b) Automatically power off. When this option is on no data communication between the thermal camera and phone/pc, it automatically powers off the

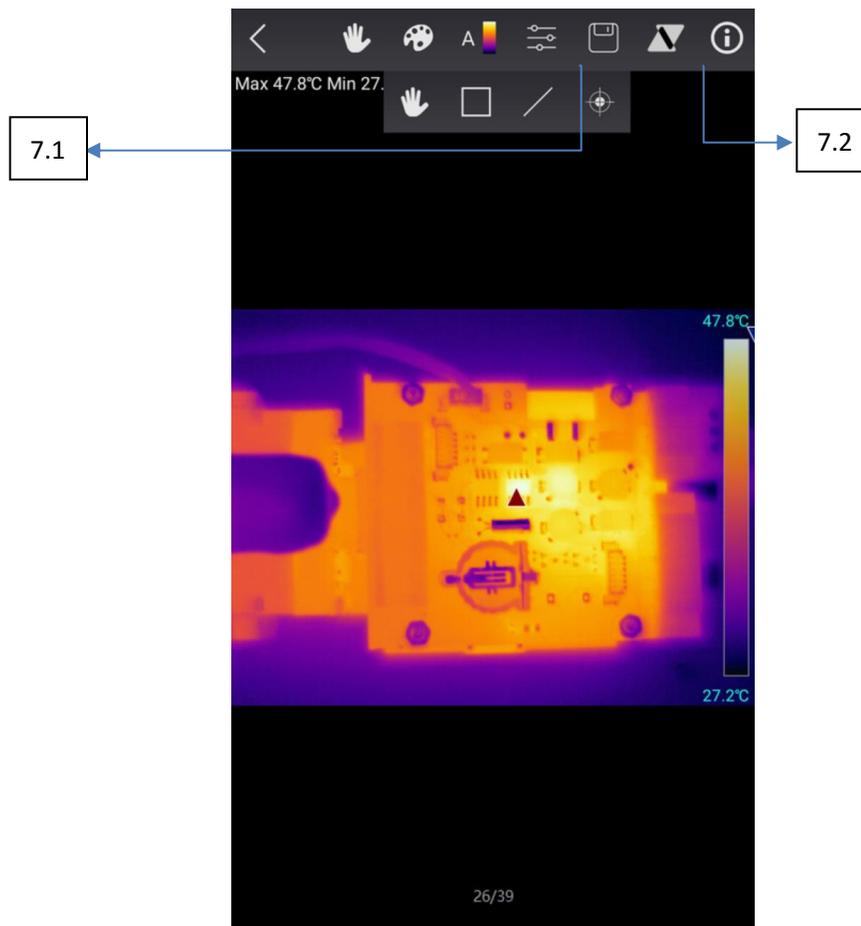
- thermal camera.
- c) Keep screen on. When this option is on and there is a real-time thermal image on the main UI, it won't turn off the phone screen or lock screen into the screen saver.
  - e. About. View the connected device model and serial number. You can also view the software version, check and update the software.

## 2.6. Thermal image/video gallery window



- 6.1  Back. Click to go back to the main window.
- 6.2  Search. You can search for the image/video by the name, QR code or shooting time.
- 6.3  Thermal image. Click to view the single thermal image.
-  enter the analysis window
-  delete
- Long press the image/video can select multiple images/videos to delete.

## 2.7. Analysis window



- 7.1  Save the changes to the thermal image/video.
- 7.2  View the information, including voice note, text comment, and QR code, etc.

Note: Refer to main UI window for other analysis functions.

## 3. Contact Us

### **FOTRIC Precision Instruments**

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