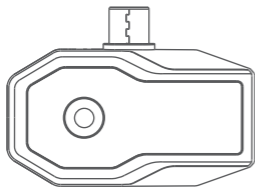


# HSFTOOLS

## Thermal Imager

Quick Start Guide



# DOWNLOAD APP & CONNECT

HSFTOOLS

iPhone & iPad (Type-C)  
Phones & Tablets (Type-C)

!  $\geq$  iOS 14.0 Android 7.0

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HSFTOOLS

## OPERATIONS (IN APP)

### Live View

#### 1 Parameters & Accuracy

Adjust the temperature measurement parameters for more accurate measurements.



**Emissivity**

Set the target emissivity.



**Distance**

Distance from the camera to target.



**Temperature Range**

Temperature measurement range.



Temp. Unit

Set the unit to °C, °F or K.

## 2 Measurement

Add temperature measurement tools for specific measurements.



Center spot



Hot spot



Cold spot



Point




Line







Rectangle





## 3 Palettes

Switch palettes to view targets more clearly. Select  **Custom** to customize the palette colors.

## 4 Display Settings

Select  to see the full screen. Select  to use the original size of the screen (Only Support in Finder S1 Series). Select  to display the palette bar on the right side of the screen. Select  to hide the palette bar.

## 5 Image

Configure the image settings:  **Brightness**,  **Contrast**,  **Sharpness** and  **Color Distribution**. You can adjust the image styles according to different scenes.

## 6 Palette Bar Level & Span

Based on the selected temperature range, the target of interest will be highlighted on the image.



**Auto**






The temperature range automatically adjusts.



**Manual**

Swipe the temperature value to adjust the temperature range manually.

## 7 Advanced Settings & Calibration

 <b>Super Resolution</b>	Switch on to get an enhanced thermal image with <b>Super Resolution</b> technology.
 <b>Digital Camera</b>	View the digital camera image of your phone.
 <b>Auto Calibration</b>	Switch on/off the auto-calibration for the camera.
 <b>Manual Calib.</b>	Trigger a calibration for the camera manually.
 <b>Image Rotation</b>	Rotate the image by 90°.

### About Image Calibration

Image calibration helps to optimize image quality and temperature measurement accuracy. During the calibration, the image will pause briefly and you'll hear a "click" as a shutter moves in front of the detector.

You can turn off the automatic calibration for smooth display. But keeping it off for a long time will cause image abnormal and temperature measurement inaccurate. In this case, you can use manual calibration instead.

## Albums

### Save Pictures to Phone

Go to **Settings > General** and switch on **Save Pictures to Phone**. The pictures captured in the App after this function is enabled will be auto-saved to the phone album.

## More



For more detailed operations, go to our website <https://www.hsftools.com>.

## About this Manual

The Manual includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons.

Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

## Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

## Laws and Regulations

Use of the product must be in strict compliance with the local electrical safety regulations.

## Maintenance

- If the product does not work properly, please contact your dealer or the nearest service center. We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.
- Wipe the device gently with a clean cloth and a small quantity of ethanol, if necessary.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the device may be impaired.

## Using Environment

- Make sure the running environment meets the requirement of the device. The operating temperature shall be -10 °C to 50 °C (14 °F to 122 °F), and humidity shall be 95% or less.
- Place the device in a dry and well-ventilated environment.
- DO NOT expose the device to high electromagnetic radiation or dusty environments.
- DO NOT aim the lens at the sun or any other bright light.
- When any laser equipment is in use, make sure that the device lens is not exposed to the laser beam, or it may burn out.

## Transportation

- Keep the device in original or similar packaging while transporting it.
- Keep all wrappers after unpacking them for future use. In case of any failure occurred, you need to return the device to the factory with the original wrapper. Transportation without the original wrapper may result in damage on the device and the company shall not take any responsibilities.
- Do not drop the product or subject it to physical shock. Keep the device away from magnetic interference.

## Emergency

If smoke, odor, or noise arises from the device, immediately turn off the power, unplug the power cable, and contact the service center.

## **Legal Information Trademarks**

The trademarks and logos mentioned are the properties of their respective owners.

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## Regulatory Information

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These clauses apply only to the products bearing the corresponding mark or information.

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### FCC

Note: This product has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

### Industry Canada ICES-003 Compliance

This device meets the CAN ICES-003 (B) / NMB-003 (B) standards requirements.

### Manufacture Address

No.5, VSIP II, No. 7 Street, Vietnam- Singapore Industrial park II, Hoa Phu Ward, Thu Dau Mot City, Binh Duong Province, Vietnam.

CARVE VIET NAM TECHNOLOGY COMPANY LIMITED

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