

# User Guide



# TE-SQ1

## Portable Thermal Camera



TE-SQ1



TE-HQ1



TE-Q1



TE-EV2, EQ2



TE-EX2



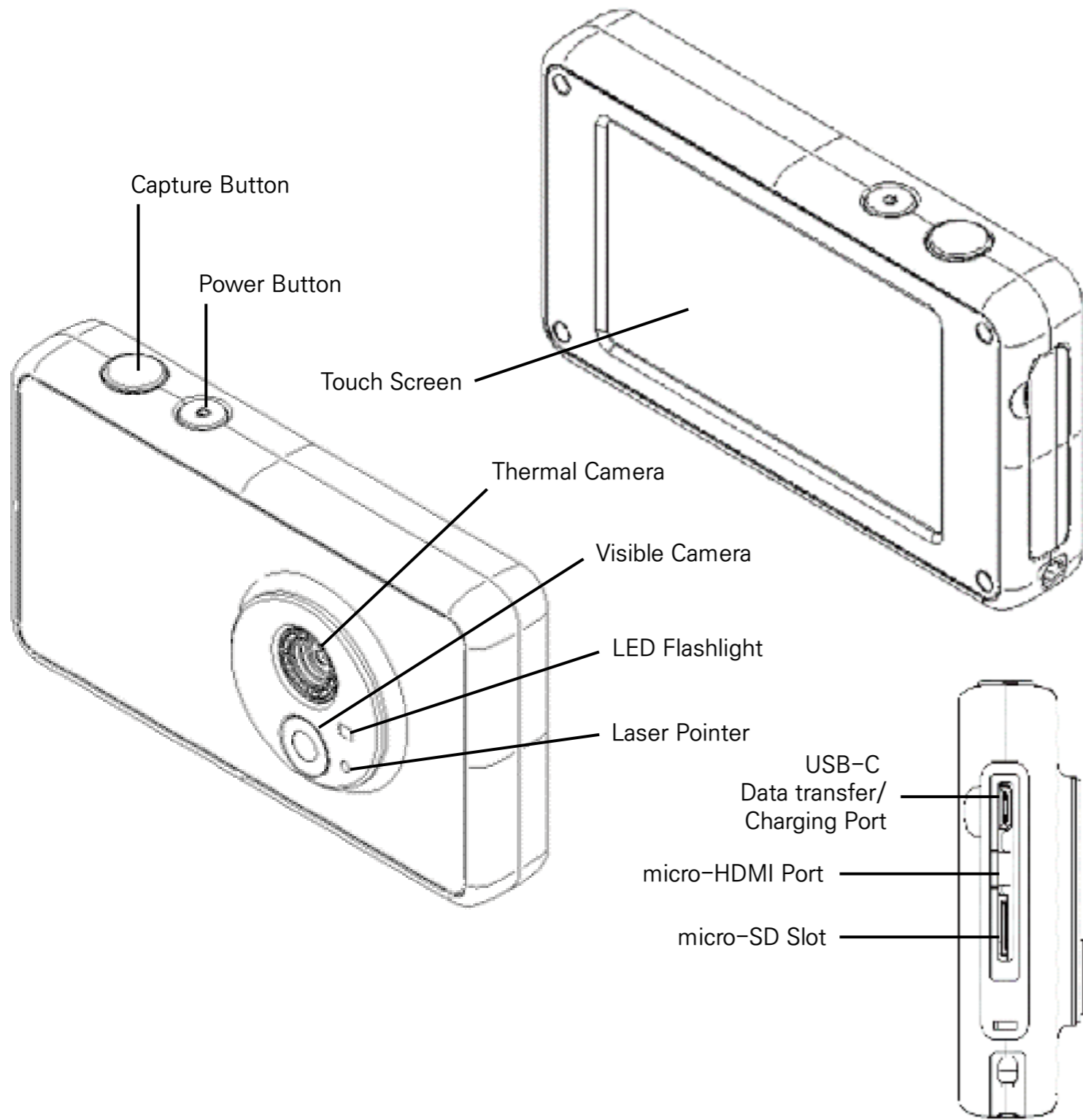
TE-Q2

i3system.com  
www.i3-thermalexpert.com  
i3system  
i3system, Inc.

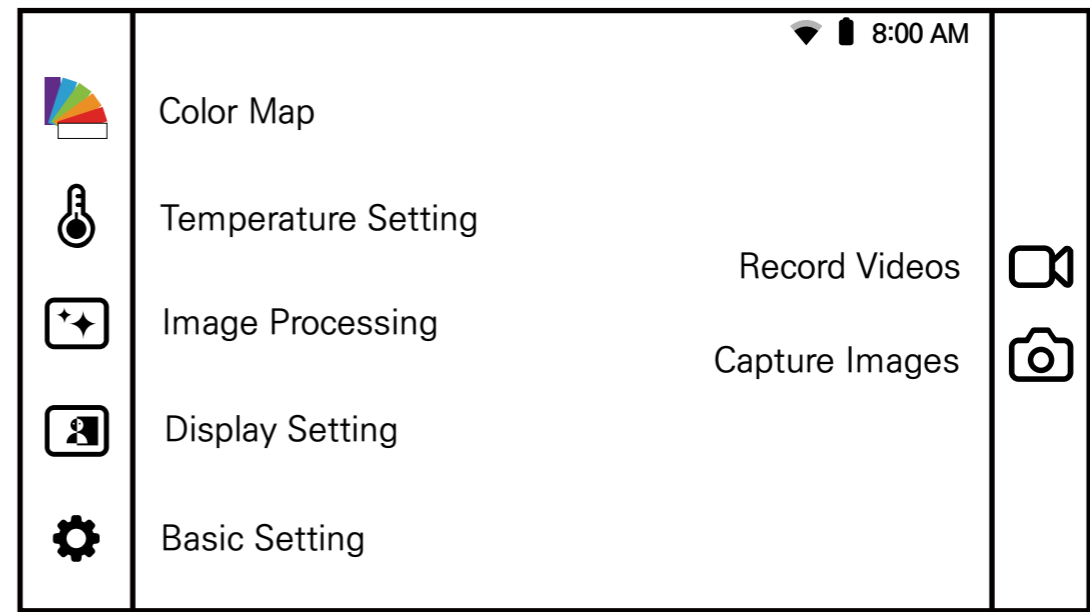


Guide Video





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

## ☐ Main Screen



## 📷 The Basics

-  **Turn on/off:** Hold the power button for 2–3 seconds
-  **Charge:** Connect USB-C cable to charger
-  **Display Connection:** Connect micro-HDMI adapter with standard HDMI
-  **External Memory:** Insert micro-SD memory to the micro-SD card slot

## 🌡️ Temperature Setting

-  **Point:** Check the temperature of designated points
-  **Min/Max:** Check the Min/Max temperature point in the scene
-  **Rectangle:** Check the Min/Max/Ave temp of designated rectangles
-  **Alarm:** Make warning sound if the temperature exceeds set value
-  **Emissivity Setting:** Adjust the controller to change emissivity
-  **Temp Offset:** Adjust the controller to correct temperature manually

Charger



Hand Strap









USB-C cable








micro-HDMI to HDMI









## Image Processing

-  **Flip:** Image upside down
-  **Mirror:** Image left and right reverse
-  **Center target:** It shows temperature of center cross at the bottom left
-  **Level span:** Setting temperature range manually
-  **Image enhance:** Image processing(denoise, edge, gain) applied.
-  **Gallery:** Check saved images and videos


## Display Setting

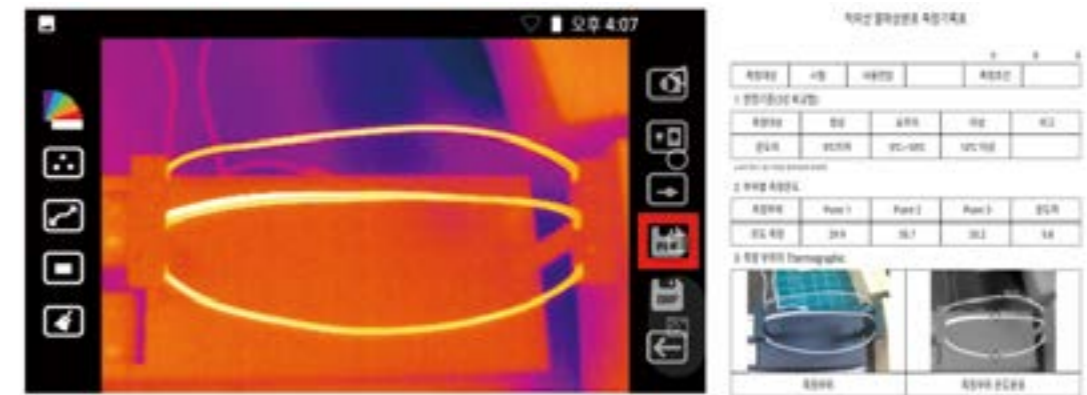
-  **50:50 view:** Partition a scene into half visible, half thermal
-  **Twin View:** Two same scenes in both visible and thermal
-  **Overlay View:** Draw a square, then thermal emage will be shown
-  **Floating View:** Small visible image is shown at the bottom right
-  **Image Fusion:** Thermal and visible images are fused.~

## Basic Setting

-  **Temperature:** Celcius(°C)/Fahrenheit(°F) setting
-  **LED:** LED flashlight on/off
-  **Laser Pointer:** Laser pointer on/off
-  **Wi-Fi mirroring:** Hotspot on/off for mirroring and data sharing
-  **Storage:** internal memory / external memory(micro-SD)
-  **About:** Check the software version

## Thermal Electrical Inspection Report(PDF)

1. **Capture** thermal images by the camera app.
2. **Select** an image to make a report at 'Image Processing – Gallery'.
3. Press  at the right of the screen to make the report.
4. **Name** the report and choose the location to save.
5. **Check** the saved report by PDF viewer.
6. For example



## Additional Function

1. **Digital Zoom:** Tap the screen twice. Zoom in/out maximum x8
2. **Wi-Fi:** Wi-Fi connection enables data sharing; photo, video

## System Reset

1. **Factory reset through Android settings**  
Settings – System – Reset options – Erase all data(factory reset)
2. **After reset, You should update TE-SQ1 camera app at TE homepage.**  
TE homepage: <http://www.i3-thermalexpert.com>

# Caution

## 1. Handling

- Do not drop or apply shock or stress to the product.
- As the lens on the infrared camera is fragile, please avoid putting too much pressure on it.
- Since the infrared camera lens has been coated front and back, please handle it carefully to avoid any damages to the lens.
- Since the product is not waterproof and dustproof, please do not expose it to water, rain or dust.
- Do not expose the product directly to the sun, high-temperature place.

## 2. Battery

- TE-SQ1 contains a non-removable battery. Do not attempt to remove the battery.
- Do not dispose of the product in a fire or break your camera physically.
- Exposing TE-SQ1 to environments having high temperature or having high concentrations of industrial chemicals, including near evaporating liquefied gasses such as helium, may damage or impair the product functionally.
- Please use adapter and cable included to charge, Do not use a power adapter in wet location.

## 3. Cleaning

- Clean the product only with a soft dry cloth.
- Use a blower for lens cleaning to remove dust on lens.
- Do not use air compressor for cleaning.

# Product Warranty

Thermal Expert is a product made with the strictest standards of quality control and testing processes.

Please the date of purchase, and get warranty services properly.

## Warranty

1. Period of warranty: 1 year
2. The warranty period starts from the date of purchase.
3. Repairs after the warranty period is paid in principle.
4. Please contact to the service center when you need a help.

## What are not covered by a warranty

1. Defects caused by normal wear and tear or otherwise due to the normal aging of TE-SQ1
2. Damage caused by modify or service by a third party repair shop
3. Damage caused by operating the product outside the guidelines
4. Damage caused by accident, abuse, misuse, fire, liquid contact, earthquake or external cause.
5. Consumable parts, such as charger, cable, or micro-HDMI converter

## Service Center – i3system, Inc.

1. Address: 435 Expo-ro, Yuseong-gu, Daejeon, 34051 KOR
2. Web page: [www.i3-thermalexpert.com](http://www.i3-thermalexpert.com)
3. E-Mail: [thermal\\_expert@i3system.com](mailto:thermal_expert@i3system.com)

