

## THERMAL IMAGER TC09

**APPLICATION:** TC09 is a handheld infrared thermal imager widely used in medical, firefighting, transportation, agriculture, geology, energy, smelting, electronic manufacturing pipelines, circuits and other fields. It is a commonly used thermal imager for electricians and maintenance technicians to quickly locate problem areas.

### FEATURES:

- Measuring Range: -20°C~550°C Wider temperature measurement range, more application scenarios.
- Locates temperature measurement points instantly with visual thermography. Rapid fault detection, ensuring no omission or misjudgment
- 240×240 Pixels/25hz Frame Rate Uses cutting-edge image stabilization technology
- Automatically Tracking High temperature, low temperature, center temperature 3 points simultaneously measurement.
- Automatically track the Highest temperature, Lowest temperature, and center point temperature in the same screen, and display temperature values in real-time.
- Temperature Alarm: Menu can set high/low alarm values. If the measured temperature exceeds the set alarm value, the value on the screen will turn red.
- Shooting/Positioning: Short press: Take a picture and save.
- Long press: Use laser infrared for positioning and measurement
- 4GB Storage Card BMP format file, It can be connected to a computer to analyze pictures. Built-in 4GB memory card
- 15 Color Palettes Offers 15 distinct color display modes
- Adjustable Emissivity Measuring Distance. The emissivity can be adjusted according to different measurement needs on objects ranging from 0.1 to 1. Measuring range can be adapted based on varying distance requirements between 0.3 meters to 3 meters.
- IP54 Waterproof And Dustproof High-quality double-injection-molded body made from high-grade materials
- Durable design - withstands falls up to 1.5m in height
- 50°×50°Large Wide-Angle Lens Offering a broader view. It is designed for outdoor usage and excels in inspecting infrastructure safety, such as power lines, with enhanced visibility due to its full-view TFT true-color screen with LED backlighting and a resolution of 240×240 pixels, ensuring clearer images.



### SPECIFICATION:

Sensor Type	Vanadium oxide (VOX) microcalorimeter
Response Band	8-14pm
Thermal image resolution	240x240 Pixels
Noise equivalent temperature difference (NETD)	≤60 mK(@25 °C.F#1.0)
Angle of view (FOV)	50.0°(H)×50°(V) /72.1"(D)
Spatial resolution (IFOV)	8.89 mrad
Frame rate	25Hz

The focal length of the imaging lens	1.35 mm
Temperature measuring focal length	0.3m-3m Adjustable
Temperature range	-20°C-550°C
Accuracy of temperature measurement	±2°C or ± 2% of the reading (take the larger value of the reading)
Unit of temperature measurement	Celsius, Fahrenheit, Kelvin
Temperature resolution	0.1°C
Emissivity	0.01-1.00 Adjustable
Temperature measurement shows	Center point temperature measurement, high and low temperature tracking
Swatches	White Hot, Black hot, Fusion 1, Rainbow, Fusion 2, Iron Red 1, Iron Red 2, Bark brown Color 1, Color 2, Ice fire, Rain, Green hol. Red Hot, Dark blue.
Display screen	2.4 inches TFT LCD
Display resolution	320 x 240
Key	Power Key, up key, Down Key, Return key. Trigger key
Laser Pointer	Yes
Temperature Alarm	Screen font color alarm
Image Storage	Built in memory card

Number of image files	30000
Image format	BMP
Shock/vibration	GB/T 2423.5-2019;GB/T2423.10-2008
Electromagnetic compatibility (EMC)	GB/T17799.2.GB17799.3-2012
Protection level	IP54
Installation mode	Tripod mount UNC-20
Focus mode	Auto focusing
Hardware interface	Type-C USB
Battery type	Rechargeable lithium battery (3.7V/2500mAh)
The working hours of the battery	>7h@25°C
Charging time	<3h@25°C
Charging voltage/current	5V/2A
Boot speed	-8 seconds
Automatic shutdown	Diabie (default) (optional 10 Min, 20 Min, 30 Min, 40 Min, 50 Min, 60 Min, Disable)
Operating temperature	-10°C-50°C
Storage temperature	-40°C~70°C
Working humidity	<85%RH (Non-condensing)
Drop	1.5m
Product dimensions	193.4*59.4*77.4mm
Product weight	278G

## ACCESSORIES

User Manual, USB cable

