

Handheld Thermal Camera

A highly Portable temperature scanner.

Auto Calibration • 5 Hour Battery time • Visual & Audio alarm
• 1M [3.3feet] ideal location • Tripod mounting in handle base.

Introduction

- » 2.8" TFT screen
- » Infrared resolution: 256 x 192
- » Temperature measurement range: 30—45°C
- » Accuracy: $\pm 0.5^{\circ}\text{C}$
- » Photograph function with SD card storage
- » PC software analysis
- » Visual camera (640×480) via Type-C USB interface
- » 1/4" tripod mounting hole
- » Available in two colours as shown



Basic Parameters

Display	2.8" TFT LCD
Sensor	Uncooled focal plane
Temperature range	30—45°C [88—113°F]
Resolution	0.1°C
Accuracy	$\pm 0.5^{\circ}\text{C}$ @ 25°C ambient temperature
Optimal measuring distance	1m [3.3ft]
Temperature measurement response time	$\leq 500\text{ms}$ (95% of reading)
Thermal resolution	49152 (256×192)
Pixel dimensions	12 μm
Palettes	Iron red, rainbow, glowing white, glowing black, glowing red, lava, high-contrast rainbow
Bandwidth of infraed spectroscopy	8–14 μm
Field of view (FOV)	56°(H) × 42°(V)
Instantaneous field of view (IFOV)	3.8mRad
Thermal imaging sensitivity	<50mk

Features

Temperature display	Center temperature measurement and high temperature tracking (default)
Image format	BMP for Snapshots to SD-Card
Image modes	Thermal camera, visible camera, image blending
Temperature measuring point	Besides central point, 3 temperature measuring points can be added
Resolution of visible light	640×480
Display resolution	320×240
Image blending	0% (total visual camera), 25%, 50%, 75%, 100% (total thermal camera)
Real-time image transmission	PC software image projection via USB
Data communication	Type-C USB, Transfer or PC Live View
Auto power off	Selectable (5min, 10min, 30min), 30min auto power off (default)

Electrical

Battery life	≥ 6 hours
Charging time	≤ 5 hours
Charging voltage/current	5V/2A
Image storage	16G Micro SD card
Power	A single Li-ion 3.7V/5000mAh 26650 battery

Physical

Product size	236mm x 75.5mm x 86mm [9.28' x 2.97' x 3.38']
Standard accessories	Manual, Type-C USB cable, 16GB TF card
Standard carton gross weight	2.2kg [4.85lb]

Model Codes

RE-THERMAL	Hand-held thermal camera
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CAD Dimensions

