

M11 Handheld Thermal Camera



HIKMICRO M11 handheld thermography camera is specially designed for professional inspections. It's equipped with a 192×144 resolution thermal detector and an 8MP resolution visual camera. The high resolution 3.5-inch touch screen displays crisp, clear images and streamlines camera operations. Imaging modes include thermal, visual, picture in a picture of the optical and thermal view, and fusion of both channels. The M11 quickly identifies potential faults, quantifies the impact with accurate temperature measurement, provides detailed documentation to complete your inspections efficiently.

Key Features

- High sensitivity thermal module with 192×144 resolution
- Supports multiple palettes
- High quality optical module with 8 MP resolution
- Bi-spectrum image fusion, picture-in-picture preview
- Wide temperature measurement range: $-20^{\circ}\text{C} - 650^{\circ}\text{C}$
- Max ($\pm 2^{\circ}\text{C}/3.6^{\circ}\text{F}, \pm 2\%$), for the ambient temp. 15°C to 35°C (59°F to 95°F) and object temp. above 0°C (32°F)
- 640×480 resolution 3.5" LCD touch display
- Long-distance laser light supplement for thermography targets
- LED light supplement makes the device a torch in required scenarios
- 1.0x to 8.0x continuous digital zoom
- Supports remote album access, download and quick report with APP.

▪ Specification

Infrared Image

IR Resolution	192 × 144 (27,648 pixels)
SuperIR	384 × 288 (110,592 pixels)
NETD	< 40 mK (@ 25 °C, F#=1.0)
Image Frequency	25 Hz
Detector Pitch	12 μm
Spectral Range	7.5 to 14 μm
Focal Length	6.9 mm
F-number	F1.0
Field of View (FOV)	18.8° × 14.1°
Spatial Resolution (IFOV)	1.74 mrad
Min. Focus Distance	0.1 m (0.33 ft)
Focus Mode	Manual Focus

Image Display

Visual Camera	3264 × 2448 (8 MP)
Display	640 × 480 Resolution, 3.5" LCD Touch Screen
Screen Brightness	Manual
Digital Zoom	1.0x to 8.0x continuous
Color Palettes	White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue Red, Condensation Alarm
Focus Mode Palette	Above/Below/Interval
Color Alarm	Above/Below/Interval/Insulation
Image Modes	Thermal/Visual/Fusion/PIP/Blending

Measurement and Analysis

Object Temperature Range	Range -20°C to 150°C (-4°F to 302°F)
	Range 100°C to 650°C (212°F to 1202°F)
Accuracy	Max ±2°C for 0 to 100°C, ±2% for 100 to 600°C, ±4% for 600 to 650°C at the ambient temp. 15 to 35°C
Measurement Tools	Center Spot, Hot Spot, Cold Spot User-definable: 10 spots, 1 line, 5 rectangles, and 5 circles
Level and Span Mode	Auto/Manual/1-Tap Touch-screen

Data Storage and Communication

Image Storage Capacity	Approx. 60,000 Images (8MP)
Annotations	Voice note: max. 60 seconds; Text note: max. 200 characters; QR Code note; Picture note; Tag note; Sketch;
Video Storage Capacity	MP4 video max. 140h; Radiometric video max. 85h
Video File Format	MP4 video and radiometric video
Radiometric Infrared-Video Streaming (Compressed)	Over UVC, Wi-Fi
Extendable Memory Card	Extendable 32 GB Micro SD Card

General

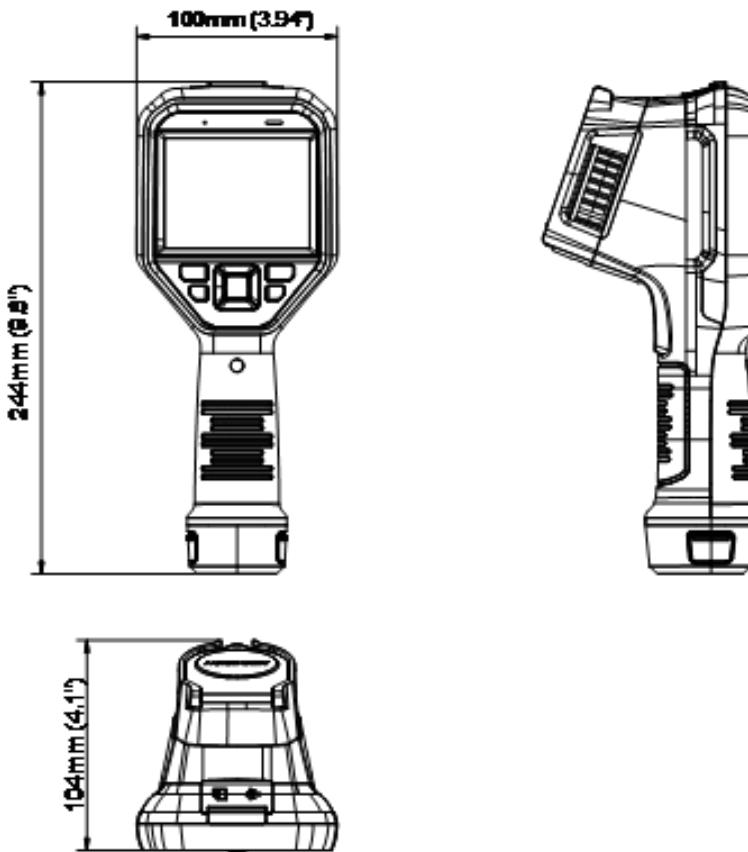
Wi-Fi	802.11 b/g/n (2.4 GHz and 5 GHz)
Bluetooth	Bluetooth 4.2
USB Interface	USB Type-C

LED Light	Yes
Laser	Yes, Class II, Wavelength: 635 nm; Power: < 1 mW
Battery Type	Interchangeable and rechargeable Li-ion battery
Battery Operating Time	Approx. 6 hours
Battery Charging Time	Approx. 4 hours fully charged
Protection Level	IP54
Drop Test Height	2 m (6.56 ft)
Safety	IEC 61010-1
EMC	EN 50130-4, EN 55032, EN IEC 61000-3-2, EN 61000-3-3
Vibration	1 g, IEC 60068-2-6
Shock	15 g, IEC 60068-2-27
Working Temperature Range	-10°C to 50°C (-4°F to 122°F)
Storage Temperature Range	-20°C to 70°C (-4°F to 158°F)
Relative Humidity	< 95% non-condensing
Weight	Approx. 660g (1.46 lb)
Dimension	244 × 100 × 104 mm (9.6 × 3.9 × 4.1 in)
Tripod Mounting	UNC 1/4"-20
Warranty	3 years for the full product, 10 years for the detector, and 2 years for the battery.
Power Saving Mode	Yes

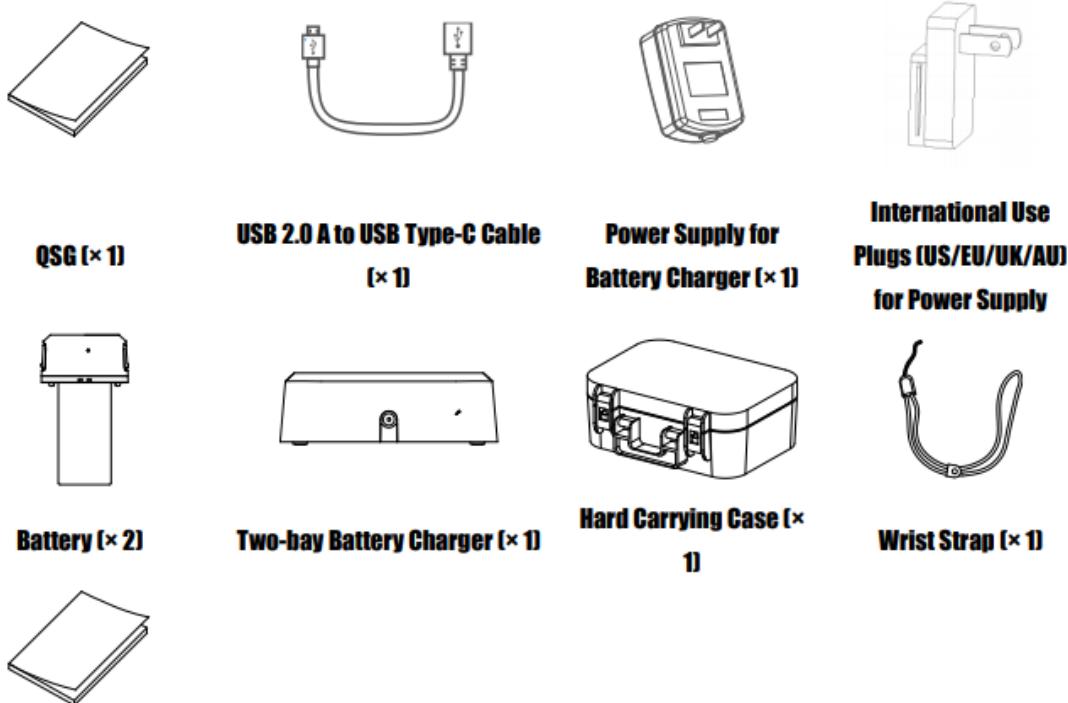
▪ Available Model

HM-TP21S-7QF/W-M11

▪ Dimension



▪ Packaging List



Calibration Certificate

▪ Accessory

▪ Optional

HM-SP01-POUCH
M/G/SP Series Pouch



E097-13-1S1P26650
M Series Battery



HM-5202ZC
M Series Charging
Base



- **COMPLIANCE NOTICE:** The thermal series products might be subject to export controls in various countries or regions, including without limitation, the United States, European Union, United Kingdom and/or other member countries of the Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities for any necessary export license requirements if you intend to transfer, export, re-export the thermal series products between different countries.