

M20W Handheld Thermography Camera



HIKMICRO M20W handheld thermography camera is specially designed for professional inspections of large objects where a wider FOV captures more of the scene in one picture. It's equipped with a 256×192 resolution thermal detector, $50^{\circ} \times 37.2^{\circ}$ fixed focus lens, and an 8 MP 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 M20W quickly identifies potential faults and quantifies the impact with accurate temperature measurement, provides detailed documentation to complete your inspections efficiently.

Key Feature

- High sensitivity thermal module with 256 × 192 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°C to 550°C
- High temperature measurement accuracy: Max. (± 2°C/3.6°F, ± 2%), for ambient temperature 15°C to 35°C (59°F to 95°F) and object temperature 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
- Support remote album access, download and quick report with APP.

Specification

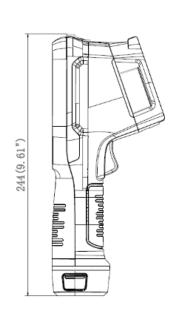
Specification	
Infrared Image	
IR Resolution	256 × 192 (49,152 pixels)
SuperIR	512 × 384 (196,608 pixels)
NETD	< 40 mK (@ 25°C, F# = 1.0)
Image Frequency	25 Hz
Detector Pitch	12 μm
Spectral Range	7.5 μm to 14 μm
Focal Length	3.6 mm
F-number	F1.0
Field of View (FOV)	50° × 37.2°
Spatial Resolution (IFOV)	3.33 mrad
Min. Focus Distance	0.5 m (1.64 ft)
Focus Mode	Focus Free
Image Display	
Visual Camera	3264 × 2448 (8 MP)
Display	640 × 480 Resolution, 3.5" LCD Touch Screen
Screen Brightness	Manual
Digital Zoom	1.0× to 8.0× continuous
Color Palettes	White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue Red
Focus Mode Palette	N/A
Color Alarm	N/A
Image Modes	Thermal/Visual/Fusion/PIP/Blending
Measurement and Analysis	
Object Temperature Range	-20 °C to 550 °C (-4 °F to 1022 °F)
	Max. (± 2°C/3.6°F, ± 2%), for the ambient temp. 15°C to 35°C (59°F to 95°F) and object
Accuracy	temp. above 0°C (32°F)
	Center Spot, Hot Spot, Cold Spot
Measurement Tools	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	
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Data Storage and Communication	on
Data Storage and Communication Storage Media Image Storage Capacity	Removable 16 GB Micro SD Card
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Data Storage and Communication Storage Media Image Storage Capacity Annotations	Removable 16 GB Micro SD Card Approx. 60,000 Images Voice note: max. 60 seconds; Text note: max. 200 characters
Data Storage and Communication Storage Media Image Storage Capacity Annotations Video Storage Capacity	Removable 16 GB Micro SD Card Approx. 60,000 Images Voice note: max. 60 seconds; Text note: max. 200 characters Approx. 15 hours
Data Storage and Communication Storage Media Image Storage Capacity Annotations Video Storage Capacity Video File Format	Removable 16 GB Micro SD Card Approx. 60,000 Images Voice note: max. 60 seconds; Text note: max. 200 characters Approx. 15 hours
Data Storage and Communication Storage Media Image Storage Capacity Annotations Video Storage Capacity Video File Format General	Removable 16 GB Micro SD Card Approx. 60,000 Images Voice note: max. 60 seconds; Text note: max. 200 characters Approx. 15 hours MP4 video
Data Storage and Communication Storage Media Image Storage Capacity Annotations Video Storage Capacity Video File Format General Wi-Fi	Removable 16 GB Micro SD Card Approx. 60,000 Images Voice note: max. 60 seconds; Text note: max. 200 characters Approx. 15 hours MP4 video 802.11 b/g/n (2.4 GHz and 5 GHz)
Data Storage and Communication Storage Media Image Storage Capacity Annotations Video Storage Capacity Video File Format General Wi-Fi Bluetooth	Removable 16 GB Micro SD Card Approx. 60,000 Images Voice note: max. 60 seconds; Text note: max. 200 characters Approx. 15 hours MP4 video 802.11 b/g/n (2.4 GHz and 5 GHz) Bluetooth 4.2
Data Storage and Communication Storage Media Image Storage Capacity Annotations Video Storage Capacity Video File Format General Wi-Fi Bluetooth USB Interface	Removable 16 GB Micro SD Card Approx. 60,000 Images Voice note: max. 60 seconds; Text note: max. 200 characters Approx. 15 hours MP4 video 802.11 b/g/n (2.4 GHz and 5 GHz) Bluetooth 4.2 USB Type-C
Data Storage and Communication Storage Media Image Storage Capacity Annotations Video Storage Capacity Video File Format General Wi-Fi Bluetooth USB Interface LED Light	Removable 16 GB Micro SD Card Approx. 60,000 Images Voice note: max. 60 seconds; Text note: max. 200 characters Approx. 15 hours MP4 video 802.11 b/g/n (2.4 GHz and 5 GHz) Bluetooth 4.2 USB Type-C Yes
Data Storage and Communication Storage Media Image Storage Capacity Annotations Video Storage Capacity Video File Format General Wi-Fi Bluetooth USB Interface LED Light Laser	Removable 16 GB Micro SD Card Approx. 60,000 Images Voice note: max. 60 seconds; Text note: max. 200 characters Approx. 15 hours MP4 video 802.11 b/g/n (2.4 GHz and 5 GHz) Bluetooth 4.2 USB Type-C Yes Yes, Class II, Wavelength: 635 nm; Power: < 1 mW

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. 660 g (1.46 lb)
Dimension	244 mm × 100 mm × 104 mm (9.6" × 3.9" × 4.1")
Tripod Mounting	UNC ¼"-20

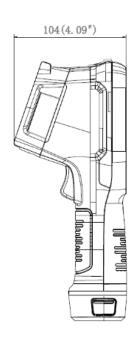
Available Model

M20W

Dimension







Unit: mm [inch]

Accessory

Optional









E097-13-1S1P26650

HM-5202ZC

HM-SP01-POUCH

HM-2925ZJ-TM01-BRACKET

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.









