

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° x 37.2° fixed focus lens, 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 M20W quickly identifies potential faults and quantifies the impact with accurate temperature measurement, provides detailed documentation to complete your inspections efficiently.

Key Features

- 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: -20 550° 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 x 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

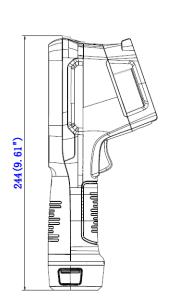
Infrared Image		
IR Resolution	256 × 192 (49,152 pixels)	
SuperIR	512 × 384 (196,608 pixels)	
NETD	< 40 mK (@ 25 °C, F#=1.0)	
Image Frequency	25 Hz	
Detector Pitch	12 μm	
Spectral Range	7.5 to 14 µm	
Focal Length	3.6 mm	
F-number	F1.0	
Field of View (FOV)	50° × 37.2°	
Spatial Resolution (IFOV)	3.33 mrad	
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	1.0x to 8.0x continuous	
Color Palettes	White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue Red	
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	-20 °C to 550 °C (-4 °F to 1022 °F)	
Accuracy	Max (±2°C/3.6°F, ±2%), for the ambient temp. 15°C to 35°C (59°F to 95°F) and	
	object temp. above 0°C (32°F)	
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		
Storage Media	Removable 32 GB Micro SD Card	
Image Storage Capacity	Approx. 60,000 Images	
Annotations	Voice note: max. 60 seconds;	
	Text note: max. 200 characters	
Video Storage Capacity	Approx. 15 hours	
Video File Format	MP4 video	
General		
Wi-Fi	802.11 b/g/n (2.4 GHz and 5 GHz)	
Bluetooth	Bluetooth 4.2	
USB Interface		
	USB Type-C	

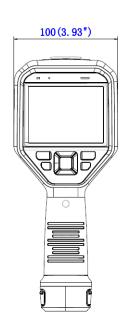
Laser	Yes, Class II, Wavelength: 635 nm; Power: < 1 mW
Battery Type	Interchangeable and rechargeable Li-ion battery
Battery Operating Time	Approx. 6 hours
Battery Charging Time	Approx. 4 hours fully charged
Protection Level	IP54
Drop Test Height	2 m (6.56 ft)
Safety	IEC 61010-1
EMC	EN 50130-4, EN 55032, 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

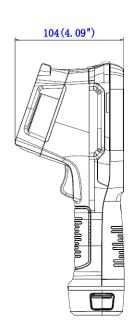
Available Model

M20W

Dimension







Optional Accessories



M Series Battery E097-13-1S1P26650



M Series Charging Base HM-5202ZC



Tripod Mounting Bracket HM-2925ZJ-TM01-BRACKET



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

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.















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*Note: Specifications are subject to change without notice. For the current specs, please go to www.hikmicrotech.com