



HM-TP22-7QF/W-M20

Handheld Thermal Camera

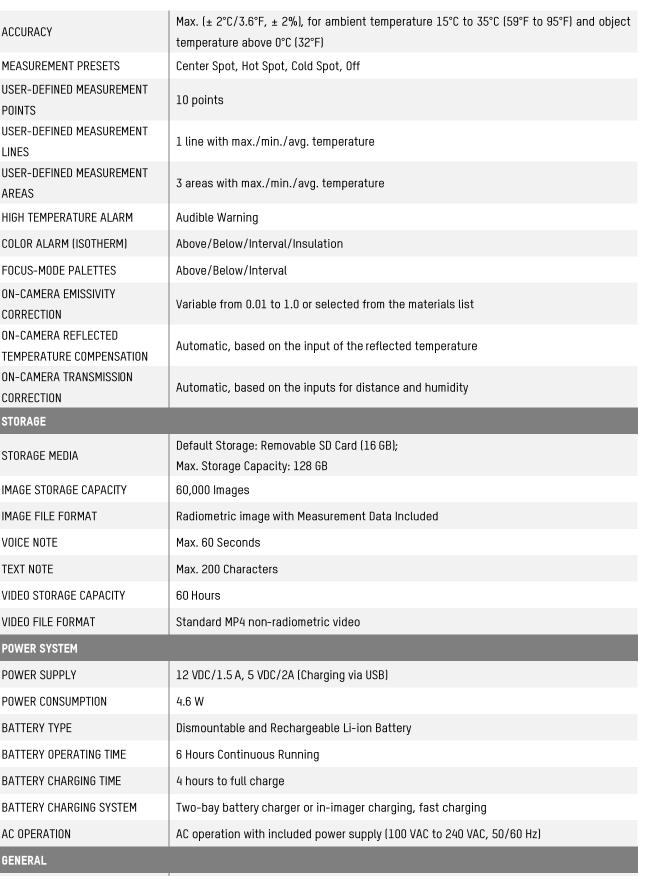
HIKMICRO M20 handheld thermal camera is specially designed for professional inspections. It's equipped with a 256×192 resolution thermal detector and an 8MP resolution visual camera. The high resolution 3.5-inch touch screen displays crisp, clear images and streamlines camera operations. Imaging modes include thermal, visual, picture in a picture of the optical and thermal view, and fusion of both channels. The M20 quickly identifies potential faults, quantifies the impact with accurate temperature measurement, and 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 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)
- High-calibre 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
- Supports 1x, 2x, 4x and 8x digital continuous zoom
- Support remote album access, download and quick report with APP.



THERMAL MODE		
DETECTOR TYPE	Vanadium Oxide Uncooled Focal Plane Array	
IR RESOLUTION	256 × 192 (49,152 pixels)	
DETECTOR PITCH	12 µm	
SPECTRAL RANGE	8 µm to 14 µm	
NETD	< 40 mk (@25°C, F# = 1.0)	
FOV (FIELD OF VIEW)	25° (H) × 18.8° (V)	
IMAGE FREQUENCY	25 Hz	
FOCAL LENGTH	6.9 mm	
FOCUS	Manual	
MIN. FOCUSING DISTANCE	0.1 m	
IFOV (SPATIAL RESOLUTION)	1.74 mrad	
APERTURE	F1.0	
OPTICAL MODE		
BUILT-IN VISUAL CAMERA	3264 × 2448 (8 MP)	
FOCUS	Fixed	
FOV (FIELD OF VIEW)	65° (H) × 51° (V)	
PICTURE RESOLUTION	3264 × 2448 (8MP)	
VIDEO RESOLUTION	1600 × 1200	
IMAGE DISPLAY		
DISPLAY	Display 640 × 480 Resolution, 3.5" LCD Touch Screen	
SCREEN BRIGHTNESS	Manual	
DIGITAL ZOOM	Continuous zoom 1x, 2x, 4x, 8x	
COLOR PALETTES	White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain	
IMAGE MODES	Thermal/Optical/Fusion/PIP	
PIP	Thermal Picture in Optical Picture	
FUSION	Thermal Picture and Optical Picture Combined	
LEVEL/ SPAN	Auto/Manual	
MINIMUM TEMP SPAN (MANUAL)	2°C (3.6°F)	
MEASUREMENT AND ANALYSIS		
OBJECT TEMPERATURE RANGE	-20°C to 550°C (-4°F to 1022°F)	



802.11 b/g/n (2.4 GHz and 5 GHz)

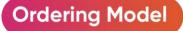
WI-FI

BLUETOOTH	Bluetooth 4.2
USB INTERFACE	USB Туре-С
SD CARD INTERFACE	Micro SD card slot
LED LIGHT (TORCH)	Yes
LASER POINTER	Yes
LASER TYPE	Class II, Wavelength: 635 nm; Power: < 1 mW
PROTECTION LEVEL	IP54
DROP TEST HEIGHT	2 m (6.56 ft)
WARRANTY	3 years for full product, 10 years for detector, and 2 years for battery
RECOMMENDED CALIBRATION	S years for full product, to years for detector, and 2 years for battery
CYCLE	1 year (assumes normal operation and normal aging)
SAFETY	IEC 61010-1: Overvoltage category II, Pollution Degree 2
ELECTROMAGNETIC COMPATIBILITY	EN 55032: 2015+A11: 2020
	EN 50130-4: 2011+A1: 2014
	EN 61000-3-3: 2013
	EN IEC 61000-3-2: 2019+A1: 2021
	EN 55032: 2015+A11: 2020
AUSTRALIAN RCM	EN IEC 61000-3-2: 2019+A1: 2021
	EN 61000-3-3: 2013+A1: 2019 EN 301 489-1 V2.2.3
	EN 301 489-1 V2.2.3 EN 301 489-3 V2.1.1
	EN 301 489-17 V3.2.4
	EN 300 328-V2.2.2
	EN 301 440-V2.1.1
	EN 301 893-V2.1.1
	EN 62479: 2010
US FCC	CFR 47, Part 15 Subpart C
ROHS COMPLIANT	Yes
VIBRATION	0.03 g2/Hz (3.8 g), 2.5 g IEC 60068-2-6
SHOCK	25 g, IEC 68-2-29
WORKING TEMPERATURE RANGE	-10°C to 50°C (14°F to 122°F)
STORAGE TEMPERATURE RANGE	-20°C to 70°C (-4°F to 158°F)
RELATIVE HUMIDITY	5% to 95%
WEIGHT	Approx. 660 g (1.46 lb)
DIMENSION	244 mm × 100 mm × 104 mm (9.6" × 3.94" × 4.1")
TRIPOD MOUNTING	UNC ¼"-20
MENU LANGUAGE	21 Languages

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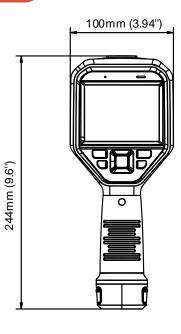
	English, German, French, Spanish (Spain), Portuguese (Portugal), Italian, Czech, Slovak, Polish, Hungarian, Romanian, Dutch, Danish, Norwegian, Finnish, Swedish, Russian, Turkish, Japanese, Korean, Chinese (Traditional)
SOFTWARE	
PC SOFTWARE	HIKMICRO Analyzer
APP	HIKMICRO Viewer App
CAST SCREEN	UVC Alarm Client

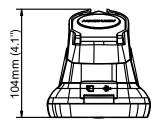
Please note that product specifications are subject to change without notice. Please check https://www.hikmicrotech.com for the latest changes.

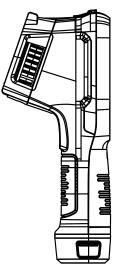


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Dimension







Unit: mm (Inch)



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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