HIKMICRO M10 Series

The M10 Thermographic Handheld Camera is a device with both optical images and thermal images.

Outstanding Image Quality

A highly sensitive HIKMICRO VOx detector (NETD < 40 mK), IR resolution up tp 160 × 120 (19 200 pixels) provides a distinct thermal vision of the target
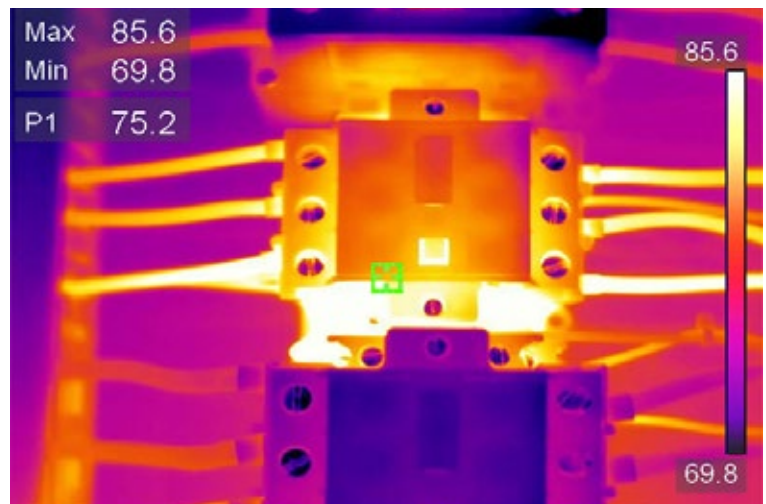
Manual Focus Supported

Physical focus knob allows changing focus manually to see objects clearly at different distances

Flexible Ways to Measure

Flexibly measure points (Center Spot, Hot Spot, Cold Spot, Off, 10 Point Presets, 1 Line Presets, 3 Area Presets). Four isotherm modes are available, including Above Alarm, Below Alarm, Inter¬val Alarm, Insulation Alarm

The M10 Thermographic Handheld Camera is a device with both optical images and thermal images. It can do thermography, video recording, snapshot capturing, alarm, and it can connect to Wi-Fi, hotspot and Bluetooth. The built-in high-sensitivity IR detector and high-performance sensor detects the variation of temperature and measure the real-time temperature. The picture-in-picture technique of the camera and the fusion of optical view and thermal view, enhances the details of the images display. It supports multiple palettes and alarm types. When the detected temperature in the scene does not match with the alarm rules, the device alarms by color of the palette mode automatically. It helps to find the risky part and lower your property loss. The device is easy to use, and adopts ergonomic design.

Specifications

Model	M10
Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
IR Resolution	160 × 120 (19 200 pixels)
Pixel Pitch	17 µm
Spectral Range	8 - 14 µm
NETD	< 40mK (@ 25 °C,F#=1.0)
Focal Length	6.2 mm
FOV (Field of View)	25° × 18.7°
Image Frequency	25 Hz
Focus	Manual
IFOV (Spatial Resolution)	2.74 mrad
Aperture	F1.1
Minimum Focus Distance	0.2 m (0.66 ft)
Optical Module	
Picture Resolution	Configurable: 2 MP, 5 MP, 8 MP
Video Resolution	640 × 480
Focus	Fixed
FOV	25° × 18.7°
Image Display	
Display	640 × 480 Resolution, 3.5" LCD Touch Screen
Color Palettes	White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain
Digital Zoom	1x, 2x, 4x, 8x
Image Modes	Thermal/Optical/Fusion/PIP
PIP	Thermal Picture in Optical Picture
Fusion	Thermal Picture and Optical Picture Combined
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 ambient temperature 15°C to 35°C (59°F to 95°F) and object temperature above 0°C (32°F)
Measurement Presets	Center Spot, Hot Spot, Cold Spot, Off
Point	10 User Presets
Line	1 User Preset
Area	3 User Presets
High Temperature Alarm	Audible Warning
Color Alarm (Isotherm)	Above/Below/Interval/Insulation

Storage	
Storage Media	Removable Micro SD Card (16 GB)
Image Storage Capacity	30 000 images
Image File Format	JPEG with Measurement Data Included
Video Storage Capacity	10 hours
Video File Format	MP4
Functions	
Laser Pointer	Yes
Laser Type	Class Ⅱ
LED Light	70 Lumens
Wi-Fi	802.11 a/ac/b/g/n (2.4 and 5 GHz)
Bluetooth	Bluetooth 4.2
Level/Span	Auto/Manual
Text Comment	Max 200 Characters
Voice Comment	Max 60 Seconds
Power System	
Power Supply	12 V DC/1.5A, 5V DC/2A (Charging via USB)
Power Consumption	4.2 W
Battery Type	Dismountable and Rechargeable Li-ion Battery
Battery Operating Time	5 Hours Continuous Running
General	
Menu Language	18 Languages English/German/French/Russian/Korean/Spanish/Portuguese/Italian/Japanese/Hungarian/Czech/Slovak/Polish/Romanian/Danish/Turkish/Traditional_Chinese/Arabic
Working Temperature Range	-20°C to 50°C (-4°F to 122°F)
Storage Temperature Range	-20°C to 60°C (-4°F to 140°F)
Protection Level	IP54
Drop Test Height	2 m (6.56 ft)
Interface	USB Type-C
Weight	Approx. 653 g (1.44 lb)
Dimension	244 mm × 100 mm × 104 mm (9.6 " × 3.9 " × 4.1 ")
Tripod Mounting	UNC ¼"-20