



THERMAL IMAGING CAMERA

MODEL : HD10BM

The thermographic handheld camera is based on the thermal technology, specially designed for the needs of temperature measuring applications. People can quickly troubleshoot faults on-site.



Key Features :

- Thermal resolution: 160 × 120 (19 200 pixels)
- NETD : < 40mK (@ 25 °C, F#=1.0) Temperature measurement range : -20 °C - 550 °C (-4°F~1022°F)
- Accuracy: Max ($\pm 2^{\circ}\text{C}/3.6^{\circ}\text{F}$, $\pm 2\%$), 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, User Preset Point/Line/Area
- Manual focus
- 25 Hz image frequency
- 3.5" LCD touch screen display

Solutions for measurement



HD[®]
ISO 9001:2015
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Specification :

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	F 1.1
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 ($\pm 2^{\circ}\text{C}/3.6^{\circ}\text{F}$, $\pm 2\%$), 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

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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 1/4"-20

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