

B10 Handheld Thermography Camera













HIKMICRO B10 is designed for temperature measurement to find invisible faults. It's equipped with a 256 x 192 resolution HIKMICRO thermal detector and 2MP optical detector. The thermography ranges from -20°C to 550°C (-4°F to 1022°F), which meets most situation. It helps the staff to quickly find the fault according to accurate temperature measurement of high temperature targets in the environment. Meanwhile it provides assistant decision and ensure safety. The device is mainly applied to various industries, such as Building, HVAC, and auto industry, etc.

Key Features

- Thermal resolution: 256 x 192 (49 152 pixels)
- NETD: < 40 mK (@ 25 °C,F#=1.0)
- Temperature measurement 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, User Preset Point
- 25 Hz image frequency
- 3.2" LCD screen display
- Up to 6 hours continuous running



Specification

Image Sensor Vanadium Oxide Uncooled Focal Plane Arrays IR Resolution 256 x 192 (49 152 pixels) Pixel Pitch 12 µm Spectral Range 8 - 14 µm NETD < 40 mK (@25°C), F#=1.0 Focal Length 3.6mm FOV (Field of View) 37.2" × 50.0" Image Frequency 25 Hz Focus Fixed IFOV (Spatial Resolution) 3.3mrad Aperture F.0 Minimum Focus Distance 0.3 m (0.98 ft) Optical Module Pixel Resolution 1600 × 1200 (2 MP) FOV 55"x 42" Focal Length 2mm Image Display Display 240 × 320 Resolution, 3.2" LCD Screen Color Palettes White Hot, Black Hot, Rainbow, Ironbow Image Modes Thermal Picture in Optical Picture Fusion Thermal Picture and Optical Picture Fusion Thermal Picture and Optical Picture Combined Measurement and Analysis Object Temperature Range -20 "C to 550 "C (-	Thermal Module		
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Spectral Range 8 · 1 · 4 µm NETD < 40 mk (@25°C), F#=1.0	IR Resolution	256 x 192 (49 152 pixels)	
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Image Frequency 25 Hz Focus Fixed IFOV (Spatial Resolution) 3.3mrad Aperture F1.0 Minimum Focus Distance 0.3 m (0.98 ft) Optical Module Picture Resolution 1600 × 1200 (2 MP) FOV 55 *× 42* Focal Length 2m Image Display Usiplay Color Palettes White Hot, Black Hot, Rainbow, Ironbow 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, ±28), 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, Point Presets, Off High Temperature Alarm Audible and Visual Warning Storage Storage Media EMMC (16 GB) Image Storage Capacity 90 000 Images <tr< td=""><td>Focal Length</td><td>3.6mm</td></tr<>	Focal Length	3.6mm	
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Picture Resolution 1600 × 1200 (2 MP) FOV 55°× 42° Focal Length 2mm Image Display Display 240 × 320 Resolution, 3.2" LCD Screen Color Palettes White Hot, Black Hot, Rainbow, Ironbow 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, Point Presets, Off High Temperature Alarm Audible and Visual Warning Storage Storage Media EMMC (16 GB) Image Storage Capacity 90 000 Images Image File Format BMP with Measurement Data Included Functions LED Light Yes Wi-Fi No UVC Cast Screen Yes	Aperture	F1.0	
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Focal Length 2mm Image Display 240 × 320 Resolution, 3.2" LCD Screen Color Palettes White Hot, Black Hot, Rainbow, Ironbow 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) Measurement Presets Center Spot, Hot Spot, Cold Spot, Point Presets, Off Measurement Presets Center Spot, Hot Spot, Cold Spot, Point Presets, Off High Temperature Alarm Audible and Visual Warning Storage Storage Media Image Storage Capacity 90 000 Images Image File Format BMP with Measurement Data Included Functions LED Light Yes Wi-Fi No UVC Cast Screen Yes	Picture Resolution	1600 × 1200 (2 MP)	
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Color Palettes White Hot, Black Hot, Rainbow, Ironbow 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, Point Presets, Off High Temperature Alarm Audible and Visual Warning Storage Storage Media EMMC (16 GB) Image Storage Capacity 90 000 Images Image File Format BMP with Measurement Data Included Functions LED Light Yes Wi-Fi No UVC Cast Screen Yes	Image Display		
Image Modes Thermal/Optical/Fusion/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, Point Presets, Off High Temperature Alarm Audible and Visual Warning Storage Storage Media EMMC (16 GB) Image Storage Capacity 90 000 Images Image File Format BMP with Measurement Data Included Functions LED Light Yes Wi-Fi No UVC Cast Screen Yes	Display	240 × 320 Resolution, 3.2" LCD Screen	
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, Point Presets, Off High Temperature Alarm Audible and Visual Warning Storage Storage Media EMMC (16 GB) Image Storage Capacity 90 000 Images Image File Format BMP with Measurement Data Included Functions LED Light Yes Wi-Fi No UVC Cast Screen Yes	Color Palettes	White Hot, Black Hot, Rainbow, Ironbow	
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, Point Presets, Off High Temperature Alarm Audible and Visual Warning Storage Storage Media EMMC (16 GB) Image Storage Capacity 90 000 Images Image File Format BMP with Measurement Data Included Functions LED Light Yes Wi-Fi No UVC Cast Screen Yes	Image Modes	Thermal/Optical/Fusion/PIP	
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, Point Presets, Off High Temperature Alarm Audible and Visual Warning Storage Storage Media EMMC (16 GB) Image Storage Capacity 90 000 Images Image File Format BMP with Measurement Data Included Functions LED Light Yes Wi-Fi No UVC Cast Screen Yes	PIP	Thermal Picture in Optical Picture	
Object Temperature Range -20 °C to 550 °C (-4 °F to 1022 °F) 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, Point Presets, Off High Temperature Alarm Audible and Visual Warning Storage Storage Media EMMC (16 GB) Image Storage Capacity 90 000 Images Image File Format BMP with Measurement Data Included Functions LED Light Yes Wi-Fi No UVC Cast Screen Yes	Fusion	Thermal Picture and Optical Picture Combined	
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Accuracy object temperature above 0°C (32°F) Measurement Presets Center Spot, Hot Spot, Cold Spot, Point Presets, Off High Temperature Alarm Audible and Visual Warning Storage Storage Media EMMC (16 GB) Image Storage Capacity 90 000 Images Image File Format BMP with Measurement Data Included Functions LED Light Yes Wi-Fi No UVC Cast Screen Yes	Object Temperature Range	-20 °C to 550 °C (-4 °F to 1022 °F)	
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High Temperature Alarm Audible and Visual Warning Storage Storage Media		object temperature above 0°C (32°F)	
Storage Media EMMC (16 GB) Image Storage Capacity 90 000 Images Image File Format BMP with Measurement Data Included Functions LED Light Yes Wi-Fi No UVC Cast Screen Yes	Measurement Presets	Center Spot, Hot Spot, Cold Spot, Point Presets, Off	
Storage Media EMMC (16 GB) Image Storage Capacity 90 000 Images Image File Format BMP with Measurement Data Included Functions LED Light Yes Wi-Fi No UVC Cast Screen Yes	High Temperature Alarm	Audible and Visual Warning	
Image Storage Capacity 90 000 Images Image File Format BMP with Measurement Data Included Functions LED Light Yes Wi-Fi No UVC Cast Screen Yes	Storage		
Image File Format BMP with Measurement Data Included Functions LED Light Yes Wi-Fi No UVC Cast Screen Yes	Storage Media	EMMC (16 GB)	
Functions LED Light Yes Wi-Fi No UVC Cast Screen Yes	Image Storage Capacity	90 000 Images	
LED Light Yes Wi-Fi No UVC Cast Screen Yes	Image File Format	BMP with Measurement Data Included	
Wi-Fi No UVC Cast Screen Yes	Functions		
UVC Cast Screen Yes	LED Light	Yes	
	Wi-Fi	No	
Level/Span Auto/Manual	UVC Cast Screen	Yes	
	Level/Span	Auto/Manual	

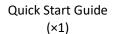


Power System	
Power Supply	3.7V DC/ 0.5A
Power Consumption	1.8 W
Battery Type	Rechargeable Li-ion Battery
Battery Operating Time	6 Hours Continuous Running
Battery Charging Time	3 Hours
General	
Menu Language	21 Languages English, German, French, Russian, Korean, Spanish, Portuguese, Italian, Japanese, Hungarian, Czech, Slovak, Polish, Romanian, Danish, Turkish, Traditional Chinese, Swedish, Norwegian, Finnish, Dutch
Working Temperature Range	-10 °C to 50 °C (14 °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. 360 g (0.79 lb)
Dimension	221.7 mm × 73.5 mm × 80.5 mm (8.73 " × 2.89 " × 3.17 ")
Tripod Mounting	UNC ¼"-20



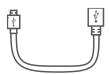
Package Contents







Adapters (x5)



USB Cable (x1)



Power Adapter (x1)



Wrist Strap (x1)

Order Model

HM-TP51-3AQF/W-B10

Dimension

