

B11 B Series Handheld Thermal Camera



HIKMICRO B11 is designed for temperature measurement to find invisible faults. It's equipped with a 192 × 144 resolution thermal detector and a 2MP optical detector. The thermography ranges from -20°C to 550°C (-4°F to 1022°F), which meets the most situation. It helps the staff to quickly find the fault according to accurate temperature measurements of high-temperature targets in the environment. Meanwhile, it provides assistance decisions and ensures safety. The device is mainly applied to various industries, such as Building, HVAC, auto industry, etc.

Key Feature

- Thermal resolution: 192 × 144 (27,648 pixels)
- NETD: < 40 mK (@ 25°C, F# = 1.0)
- Temperature measurement 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, User Preset Point
- 25 Hz image frequency
- 3.2" LCD screen display
- Up to 6 hours continuous running

▪ Specification

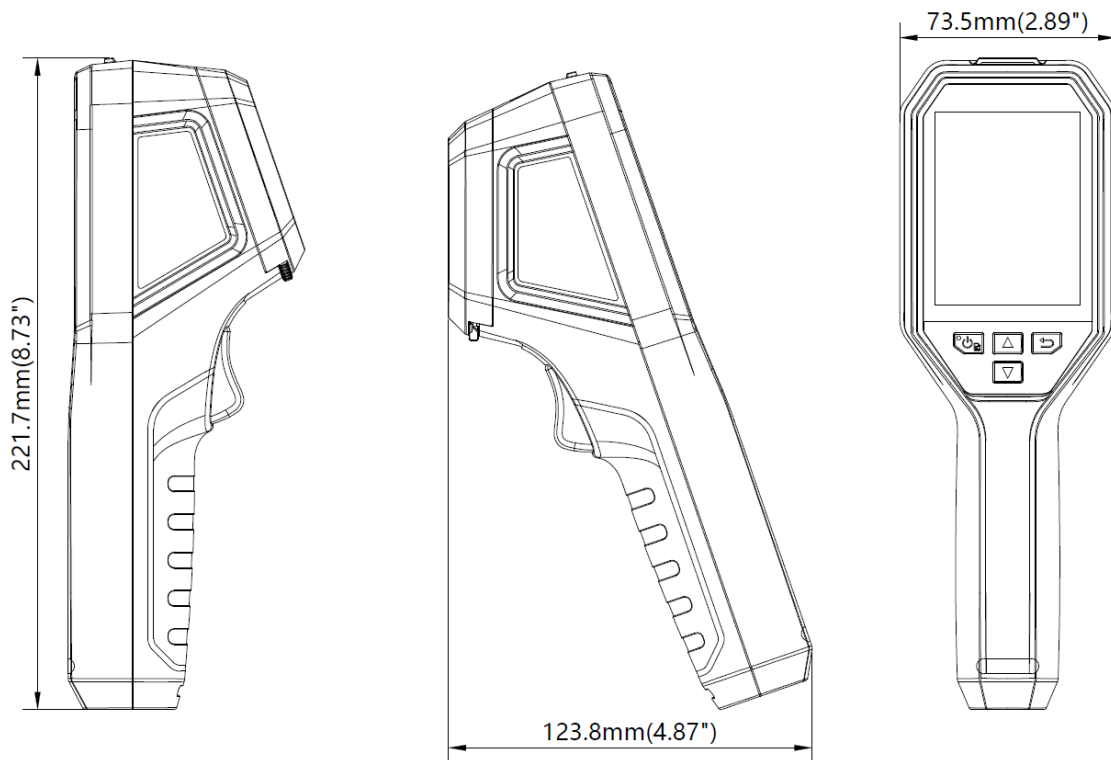
Infrared Image	
IR Resolution	192 × 144 (27,648 pixels)
SuperIR	Yes, on captured thermal images
NETD	< 40 mK (@ 25 °C, F#=1.0)
Image Frequency	25 Hz
Detector Pitch	12 μm
Spectral Range	7.5 to 14 μm
Focal Length	3.6 mm
F-number	F1.0
Field of View (FOV)	27.8° × 37.2°
Spatial Resolution (IFOV)	3.3 mrad
Min. Focus Distance	0.3 m (0.98 ft)
Focus Mode	Focus Free
Image Display	
Visual Camera	1600 × 1200 (2 MP)
Display	240 × 320 Resolution, 3.2" LCD Screen
Color Palettes	White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion
Color Alarm	Above alarm
Image Modes	Thermal/Visual/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 Tools	Center Spot, Hot Spot, Cold Spot User-definable: 3 spots
Level and Span Mode	Auto/Manual
Data Storage and Communication	
Storage Media	Built-in 16 GB flash memory
Image Storage Capacity	Approx. 90,000 Images
General	
Wi-Fi	802.11 b/g/n (2.4GHz)
LED Light	Yes
USB Interface	USB Type-C
Battery Type	Rechargeable Li-ion battery
Battery Operating Time	Approx. 6 hours
Battery Charging Time	Approx. 3 hours fully charged
Protection Level	IP54
Drop Test Height	2 m (6.56 ft)
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)
Relative Humidity	< 95% non-condensing

Weight	Approx. 380 g (0.84 lb)
Dimension	221.7 × 73.5 × 123.8mm (8.73 × 2.89 × 4.87 in)
Tripod Mounting	UNC ¼"-20

▪ **Available Model**

B11

▪ **Dimension**



Unit: mm (inch)

▪Packaging List



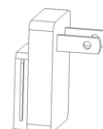
Camera(× 1)



USB 2.0 A to USB Type-C Cable
(× 1)



Power Supply for Battery
Charger (× 1)



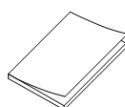
International Use Plugs
(US/EU/UK/AU) for Power Supply



Calibration Certificate
(× 1)



Wrist Strap (× 1)



QSG (× 1)

▪Optional Accessories



HM-2925ZJ-TM01-BRACKET
Tripod Mounting Bracket



HM-B201-MACRO
Thermography Camera Macro
Lens



HM-B01-POUCH
POUCH

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 HIKMICRO Thermography  hikmicro_thermography  HIKMICRO Thermography  HIKMICRO  info@hikmicrotech.com  <http://hikmicrotech.com/en>

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