B20
Handheld Thermal Camera

HIKMICRO B20 is designed for temperature measurement to find invisible faults. It's equipped with a 256 × 192 resolution HIKMICRO thermal detector and 2 MP 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 Feature

- Thermal resolution: 256 × 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

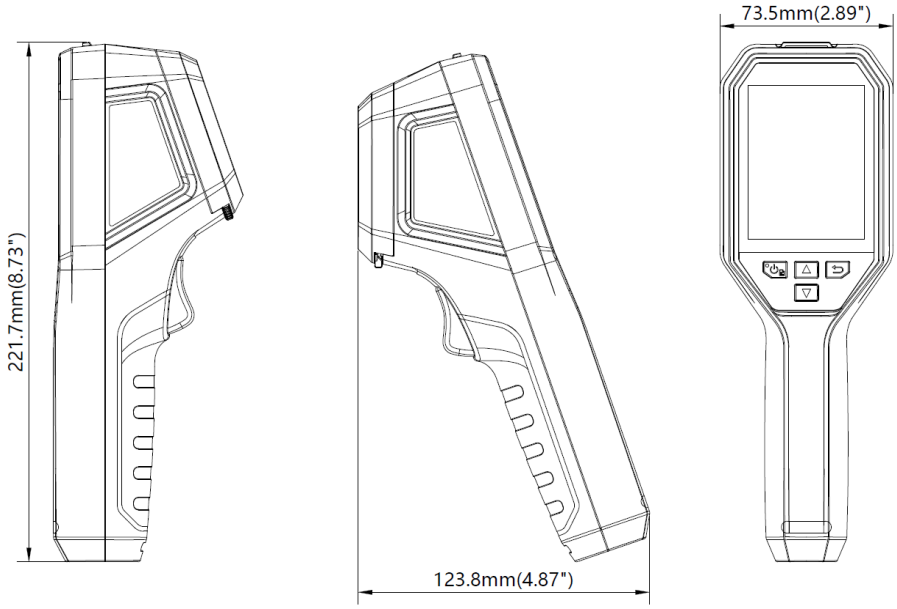
Infrared Image	
IR Resolution	256 × 192 (49,152 pixels)
SuperIR	Yes, on captured thermal images
NETD	< 40 mK (@ 25°C, F#=1.0)
Image Frequency	25 Hz
Detector Pitch	12 μm
Spectral Range	7.5 to 14 μm
Focal Length	3.6 mm
F-number	F1.0
Field of View (FOV)	37.2° × 50.0°
Spatial Resolution (IFOV)	3.3 mrad
Min. 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 Alarm	Above alarm
Color Palettes	White Hot, Black Hot, Rainbow, Ironbow
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 (2.4 GHz)
USB Interface	USB Type-C
LED Light	Yes
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 mm × 73.5 mm × 123.8 mm (8.73" × 2.89" × 4.87")
Tripod Mounting	UNC ¼”-20

▪ Available Model

B20

▪ Dimension



Unit: mm (Inch)

▪ Optional Accessories

Tripod Mounting Bracket

HM-2925ZJ-TM01-BRACKET

Thermography Camera Macro Lens

HM-B201-MACRO

POUCH

HM-B01-POUCH

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HIKMICRO

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