

Product Datasheet - Technical Specifications



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B21LS

B Series Handheld Thermal Camera



HIKMICRO B21LS is designed for temperature measurement to find invisible faults. It's equipped with a 256 x 192 resolution thermal detector. The thermography ranges from -20°C to 550°C (-4°F to 1022°F). Which meets most situations. 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, and auto industry, etc.

▪ Features

- IR 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 ($\pm 2^{\circ}\text{C}/3.6^{\circ}\text{F}$, $\pm 2\%$), 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" 480 × 640 Resolution LCD Screen
- Up to 6 hours continuous running
- Support SuperIR image enhancement technology

▪ Specification

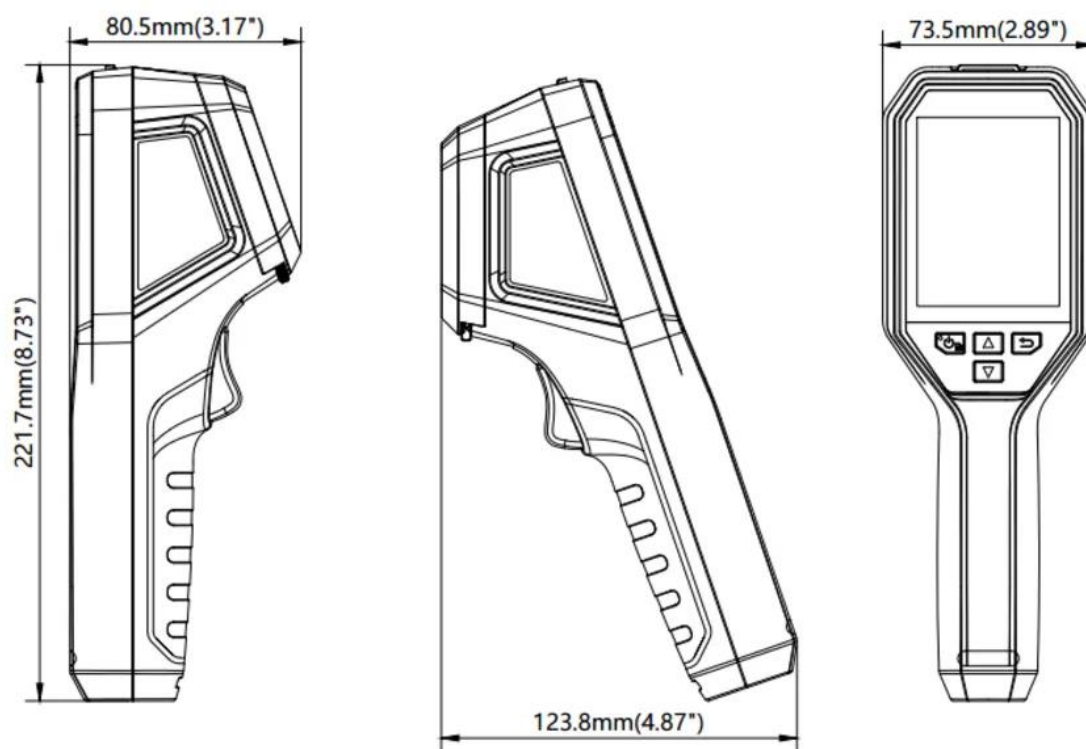
Infrared Image	
IR Resolution	256 × 192 (49,152 pixels)
SuperIR	Yes, on captured images and live view
NETD	< 40 mK (@ 25 °C, F#=1.0)
Image Frequency	25 Hz
Detector Pitch	12 μm
Spectral Range	7.5 to 14 μm
Focal Length	3.6 mm
F-number	F1.0
Field of View (FOV)	37.2° × 50.0°
Spatial Resolution (IFOV)	3.3 mrad
Min. Focus Distance	0.3 m (0.98 ft)
Focus Mode	Focus Free
Image Display	
Display	480 × 640 Resolution, 3.2" LCD Screen
Color Palettes	White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion
Color Alarm	Above alarm
Image Modes	Thermal
Measurement and Analysis	
Object Temperature Range	Range -20°C to 150°C (-4°F to 302°F)
	Range 100°C to 550°C (212°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 16G eMMC (user available storage space is less than the nominal capacity)
Image Storage Capacity	Approx. 35,000 Images
Image File Format	Radiometric JPEG
General	
Wi-Fi	802.11 b/g/n (2.4GHz)
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)
Power Supply	USB-C (5V/2A)
Tripod Mounting	UNC ¼" -20
Laser	Yes, Class II

▪ Available Model

HM-TP52+3AQF/W-B21LS

▪ Dimension



▪ Packing List



Quick Start Guide (× 1)



USB 2.0 A to USB Type-C Cable (× 1)



Calibration Certificate (× 1)



Wrist Strap (× 1)

- **Accessory**

- **Optional**

HM-B201-MACRO
Thermography
Camera Macro Lens



HM-B01-POUCH
POUCH



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