

## B20S

### Handheld Thermography Camera



HIKMICRO B20S is designed for temperature measurement to find invisible faults. It's equipped with a 256 x 192 resolution thermal detector and a 2MP optical 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.

#### Key Features

- IR resolution: 256 x 192 (49 152 pixels), 2MP Visual Resolution
- Support SuperIR image enhancement technology
- 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 x 640 Resolution LCD Screen
- Up to 6 hours continuous running

## ▪ 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

Visual Camera	1600 × 1200 (2 MP)
Display	480 × 640 Resolution, 3.2" LCD Screen
Color Alarm	Above alarm
Color Palettes	White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion
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 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

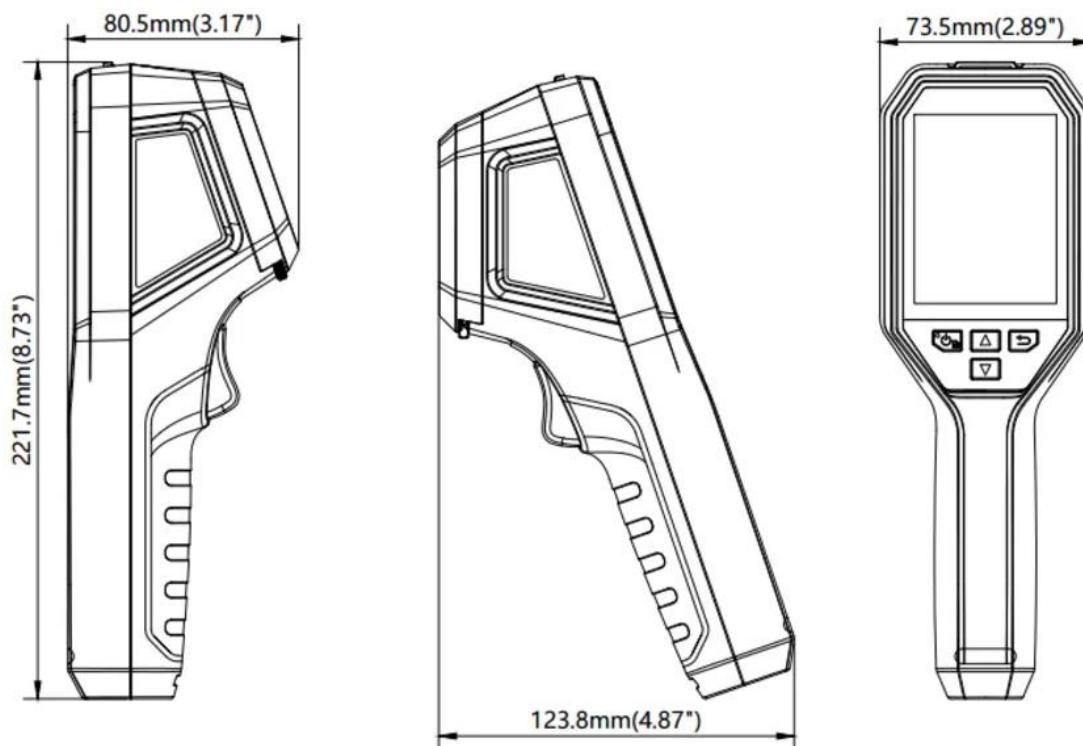
Wi-Fi	802.11 b/g/n (2.4GHz)
USB Interface	USB Type-C
LED Light	Yes
Power Supply	USB-C (5V/2A)
Battery Type	Rechargeable Li-ion battery
Battery Operating Time	Approx. 6 hours
Battery Charging Time	Approx. 3 hours fully charged
Protection Level	IP54
Drop Test Height	2 m (6.56 ft)
Working Temperature Range	-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 1/4"-20

## ▪ Available Model

B20S

## ▪ Dimension



## ▪ Optional Accessories



HM-B201-MACRO  
Thermography Camera Macro  
Lens



HM-2925ZJ-TM01-BRACKET  
Tripod Mounting Bracket



HM-B01-POUCH  
POUCH

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