

### **B20 Handheld Thermography Camera**















HIKMICRO B20 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)</li>
- 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

R Resolution   256 x 192 (49 152 pixels)	Thermal Module	
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         F1.0           Minimum Focus Distance         0.3 m (0.98 ft)           Optical Module           Picture Resolution           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 Picture in Optical Picture           Fusion         Thermal Picture in 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, ±22%), 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 Alar	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Spectral Range         8 - 14 µm           NETD         < 40 mK (@25°C), FH=1.0	IR Resolution	256 x 192 (49 152 pixels)
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 F1.0  Minimum Focus Distance 0.3 m (0.98 ft)  Optical Module  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)  Measurement Presets Center Spot, Modible 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 802.11 b/g/n (2.4GHz)	Pixel Pitch	12 μm
Focal Length 3.6mm FOV (Field of View) 37.2" × 50.0" 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 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 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 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 802.11 b/g/n (2.4GHz)	Spectral Range	8 - 14 μm
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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 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 (-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  Storage Media EMMC (16 GB)  Image File Format BMP with Measurement Data Included  Functions  LED Light Yes  Wi-Fi 80.2.11 b/g/n (2.4GHz)	FOV (Field of View)	37.2° × 50.0°
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Minimum Focus Distance  Optical Module  Picture Resolution  1600 × 1200 (2 MP)  FOV  55°× 42°  Focal Length  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)  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  802.11 b/g/n (2.4GHz)	IFOV (Spatial Resolution)	3.3mrad
Optical Module  Picture Resolution	Aperture	F1.0
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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  802.11 b/g/n (2.4GHz)	Fusion	Thermal Picture and Optical Picture Combined
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  802.11 b/g/n (2.4GHz)	Measurement and Analysis	
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Image File Format  BMP with Measurement Data Included  Functions  LED Light  Yes  Wi-Fi  802.11 b/g/n (2.4GHz)	Storage Media	EMMC (16 GB)
Functions           LED Light         Yes           Wi-Fi         802.11 b/g/n (2.4GHz)	Image Storage Capacity	90 000 Images
LED Light         Yes           Wi-Fi         802.11 b/g/n (2.4GHz)	Image File Format	BMP with Measurement Data Included
Wi-Fi 802.11 b/g/n (2.4GHz)	Functions	
	LED Light	Yes
LIVC Cast Screen Yes	Wi-Fi	802.11 b/g/n (2.4GHz)
165	UVC Cast Screen	Yes
Level/Span Auto/Manual	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



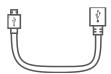
## **Package Contents**



Quick Start Guide (×1)



Adapters (x5)



USB Cable (x1)



Power Adapter (x1)



Wrist Strap (x1)

### **Order Model**

HM-TP52-3AQF/W-B20

### **Dimension**

