

# HM-TP52-3AQF/W-B20 Handheld Thermography Camera















HIKMICRO HM-TP52-3AQF/W-B20 is designed for temperature measurement to find invisible faults. It's equipped with a 256 × 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.

## **Key Features**

- 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

R Resolution   256 × 192 (49,152 pixels)     Pixel Pitch   12 µm     Spectral Range   8 to 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     Fived   Fixed     FIVOV (Spatial Resolution)   3.3 mrad     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   2 mm     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 Module	
Pixel Pitch         12 μm           Spectral Range         8 to 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)         3.3 mrad           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           Jam           Image Pislay           240 × 320 Resolution, 3.2" LCD Screen           Color Palettes           White Hot, Black Hot, Rainbow, Ironbow           Image Riley Human           PIP           Thermal Picture in Optical Picture           Fusion           Thermal Picture and Optical Picture           Fusion           Measurement and Analysis           Object Temperature Range         -20	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Spectral Range         8 to 14 μm           NETD         < 40 mK (@ 25°C), Fif = 1.0	IR Resolution	256 × 192 (49,152 pixels)
NETD	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) 3.3 mrad 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 2 mm  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 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 Media EMMC (16 GB) Image Fle Format JEPG with Measurement Data Included  Functions  Firetions  Firet	Spectral Range	8 to 14 μm
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Focus Fixed  IFOV (Spatial Resolution) 3.3 mrad  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 2 mm  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 JEPG with Measurement Data Included  Functions  LED Light Yes  Wi-Fi 80.2.11 b/g/n (2.4GHz)  UVC Cast Screen Yes	FOV (Field of View)	37.2° × 50.0°
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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  JEPG with Measurement Data Included  Functions  LED Light  Yes  Wi-Fi  802.11 b/g/n (2.4GHz)  UVC Cast Screen  Yes	Measurement and Analysis	
Accuracy 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 JEPG with Measurement Data Included  Functions  LED Light Yes Wi-Fi 802.11 b/g/n (2.4GHz) UVC Cast Screen Yes	Object Temperature Range	-20°C to 550°C (-4°F to 1022°F)
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Storage Media EMMC (16 GB)  Image Storage Capacity 90,000 Images  Image File Format JEPG with Measurement Data Included  Functions  LED Light Yes  Wi-Fi 802.11 b/g/n (2.4GHz)  UVC Cast Screen Yes	High Temperature Alarm	Audible and Visual Warning
Image Storage Capacity  90,000 Images  Image File Format  JEPG with Measurement Data Included  Functions  LED Light  Yes  Wi-Fi  802.11 b/g/n (2.4GHz)  UVC Cast Screen  Yes	Storage	
Image File Format  JEPG with Measurement Data Included  Functions  LED Light  Ves  Wi-Fi  802.11 b/g/n (2.4GHz)  UVC Cast Screen  Yes	Storage Media	EMMC (16 GB)
Functions  LED Light Yes  Wi-Fi 802.11 b/g/n (2.4GHz)  UVC Cast Screen Yes	Image Storage Capacity	90,000 Images
LED Light Yes Wi-Fi 802.11 b/g/n (2.4GHz) UVC Cast Screen Yes	Image File Format	JEPG with Measurement Data Included
Wi-Fi 802.11 b/g/n (2.4GHz) UVC Cast Screen Yes	Functions	
UVC Cast Screen Yes	LED Light	Yes
	Wi-Fi	802.11 b/g/n (2.4GHz)
Level/Span Auto/Manual	UVC Cast Screen	Yes
	Level/Span	Auto/Manual

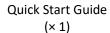


Power System		
Power Supply	3.7 VDC/ 0.5A	
Power Consumption	1.8 W	
Battery Type	Rechargeable Li-ion Battery	
Battery Operating Time	6 Hours Continuous Running	
Battery Charging Time	3 Hours	
General		
Menu Language	21 Languages English, German, French, Russian, Korean, Spanish, Portuguese, Italian, 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 × 80.6 mm (8.73" × 2.89" × 3.17")	
Tripod Mounting	UNC ¼"-20	



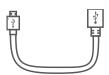
## **Package Contents**







Adapters (× 5)



USB Cable (× 1)



Power Adapter (× 1)

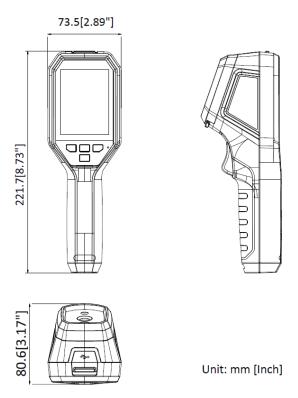


Wrist Strap (× 1)

## **Order Model**

HM-TP52-3AQF/W-B20

#### **Dimension**



COMPLIANCE NOTICE: The thermal series products might be subject to export controls in various countries or regions, including without limitation, the United States, European Union, United Kingdom and/or other member countries of the Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities for any necessary export license requirements if you intend to transfer, export, re-export the thermal series products between different countries.



