



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 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.

Key Features

- Thermal resolution: 256×192 (49,152 pixels)
- NETD: $< 40 \text{ mK}$ (@ 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" LCD screen display
- Up to 6 hours continuous running

Specification

THERMAL MODE	
IMAGE SENSOR	Vanadium Oxide Uncooled Focal Plane Arrays
IR 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	3.6 mm
FOCUS	Fixed
FOV (FIELD OF VIEW)	37.2° × 50.0°
IFOV (SPATIAL RESOLUTION)	3.3 mrad
IMAGE FREQUENCY	25 Hz
APERTURE	F1.0
MIN. FOCUSING DISTANCE	0.3 m (0.98 ft)
OPTICAL MODE	
FOCAL LENGTH	2 mm
FOV (FIELD OF VIEW)	55° × 42°
PICTURE RESOLUTION	1600 × 1200 (2 MP)
IMAGE DISPLAY	
DISPLAY	240 × 320 Resolution, 3.2" LCD Screen
IMAGE MODES	Thermal/Optical/Fusion/PIP
COLOR PALETTES	White Hot, Black Hot, Rainbow, Ironbow
FUSION	Thermal Picture and Optical Picture Combined
PIP	Thermal Picture in Optical Picture
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 MEDIA	EMMC (16 GB)

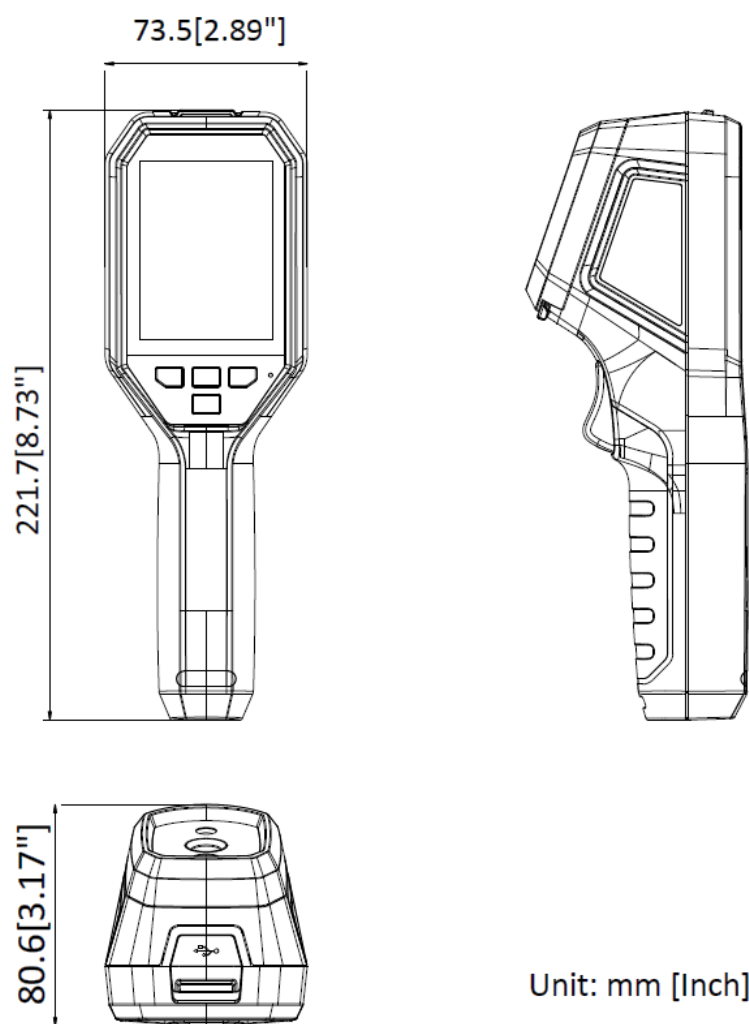
IMAGE STORAGE CAPACITY	90,000 Images
IMAGE FILE FORMAT	JPEG with Measurement Data Included
FUNCTION	
LED LIGHT	Yes
WI-FI	802.11 b/g/n (2.4 GHz)
UVC CAST SCREEN	Yes
LEVEL/SPAN	Auto/Manual
POWER SYSTEM	
POWER SUPPLY	3.7 VDC/0.5 A
POWER CONSUMPTION	1.8 W
BATTERY TYPE	Rechargeable Li-ion Battery
BATTERY 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)
PROTECTION LEVEL	IP54
DROP TEST HEIGHT	2 m (6.56 ft)
WEIGHT	Approx. 380 g (0.84 lb)
DIMENSION	221.7 mm × 73.5 mm × 80.5 mm (8.73" × 2.89" × 3.17")
STORAGE TEMPERATURE RANGE	-20°C to 60°C (-4°F to 140°F)
TRIPOD MOUNTING	UNC ¼"-20

Please note that product specifications are subject to change without notice. Please check <https://www.hikmicrotech.com> for the latest changes.

Ordering Model

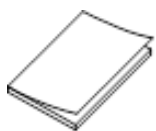
HM-TP52-3AQF/W-B20

Dimension

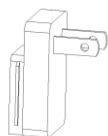


Unit: mm [Inch]

Packing List



Quick Start Guide
(× 1)



Adapters (× 5)



USB Cable (× 1)



Power Adapter
(× 1)



Wrist Strap (× 1)

Accessories



HM-B201-MACRO



HM-2925ZJ-TM01-
BRACKET



HM-B01-POUCH

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