

G40 Handheld Thermography Camera



HIKMICRO G40 Handheld Thermography Camera is specially designed for temperature measurement. It's equipped with a 640 × 512 resolution thermal detector. It helps the staff to quickly find the high-temperature targets in the environment. Meanwhile, it provides assistance with decisions and ensures safety. The device is mainly applied to various industries, such as Building, HVAC, auto industry, etc.

Key Feature

- High sensitivity thermal module with 480 × 360 resolution
- Leading thermal image processing technology: Adaptive AGC, DDE, 3D DNR
- Supports multiple palettes
- High quality optical module with 8 MP resolution
- Bi-spectrum image fusion, picture-in-picture preview
- Wide temperature measurement range: -20°C to 650°C
- High temperature measurement accuracy: Up to $\pm 2^{\circ}\text{C}$, $\pm 2\%$
- High-calibre 800 × 480 resolution 4.3" LCD touch display
- Long-distance laser light supplement for thermography targets
- LED light supplement makes the device a torch in required scenarios
- Supports 1×, 2×, 4× and 8× digital zoom

▪ Specification

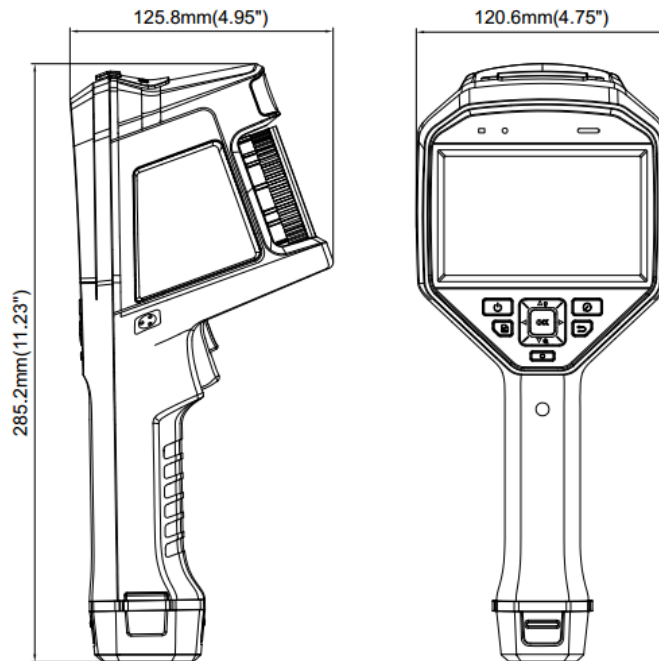
Infrared Image	
IR Resolution	480 × 360 (172, 800 pixels)
NETD	< 35 mK (@ 25°C, F# = 1.0)
Image Frequency	50 Hz
Detector Pitch	17 μm
Spectral Range	7.5 μm to 14 μm
Focal Length	25 mm
F-number	F1.0
Field of View (FOV)	18.7° × 14°
Spatial Resolution (IFOV)	0.68 mrad
Min. Focus Distance	0.2 m (0.65 ft)
Focus Mode	Touch AF/Laser Assisted AF/Continuous AF/AF/Manual Focus
Focus Speed	Approx. 2 second
Image Display	
Visual Camera	3264 × 2448 (8 MP)
Display	800 × 480 Resolution, 4.3" LCD Touch Screen
Screen Brightness	Manual/Auto
Digital Zoom	1×, 2×, 4×, 8×
Color Palettes	White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain
Focus Mode Palette	Above/Below/Interval
Color Alarm	Above/Below/Interval/Insulation
Image Modes	Thermal/Visual/Fusion/PIP
Measurement and Analysis	
Object Temperature Range	-20°C to 650°C (-4°F to 1202°F)
Accuracy	Max. (± 2°C/3.6°F, ± 2%)
Measurement Tools	Center Spot, Hot Spot, Cold Spot User-definable: 3 spots, 1 line, and 3 rectangles.
Level and Span Mode	Auto/Manual/1-Tap Touch-screen
Inspection Route	Yes
Data Storage and Communication	
Storage Media	Removable 64 GB Micro SD Card
Image Storage Capacity	Approx. 60,000 Images
Annotations	Voice note: max. 60 seconds; Text note: max. 200 characters
Video Storage Capacity	Approx. 54 hours
Video File Format	MP4 video
General	
Wi-Fi	802.11 b/g/n (2.4 GHz)
Bluetooth	Bluetooth 4.2
USB Interface	USB Type-C
HDMI Interface	Yes
LED Light	Yes
Laser	Class II, Wavelength: 635 nm; Power: < 1mW
Laser Distance Meter	Indoor distance: 50 m (164 ft); Outdoor distance: 10 m (33 ft).

Battery Operating Time	Approx. 4 hours
Battery Type	Interchangeable and rechargeable Li-ion battery
Battery Charging Time	Approx. 4 hours fully charged
Protection Level	IP54
Drop Test Height	2 m (6.56 ft)
Safety	IEC 61010-1
EMC	EN55032, EN50130-4, EN61000-3-3
Vibration	0.03 g ² /Hz (3.8 g), 2.5 g IEC 60068-2-6
Shock	25 g, IEC 68-2-29
Working Temperature Range	-20°C to 50°C (-4°F to 122°F)
Storage Temperature Range	-20°C to 60°C (-4°F to 140°F)
Relative Humidity	< 95% non-condensing
Weight	Approx. 1000 g (2.20 lb)
Dimension	285.2 mm × 120.6 mm × 125.8 mm (11.2" × 4.7" × 4.9")
Tripod Mounting	UNC ¼"-20

▪ **Available Model**

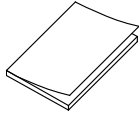
G40

▪ **Dimension**



Unit: mm [inch]

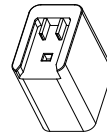
▪ Packing List



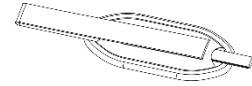
Quick Start Guide (× 1)



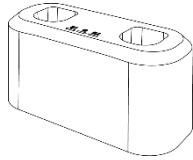
Type-C Cable (×1)



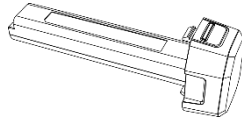
Power Adapter (× 1)



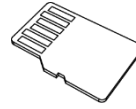
Hand Strap (× 1)



Charging Base (× 1)



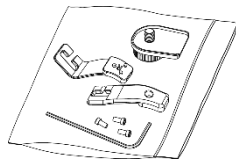
Battery (× 2)



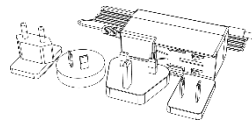
Micro SD Card (× 1)



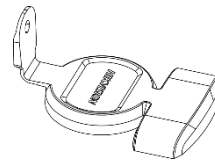
CVBS Cable (× 1)



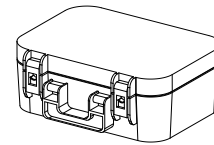
Tools Package (× 1)



Charger (× 1)



Lens Cover (× 1)



Box (× 1)

▪ Accessory

▪ Optional



M-701ZJ-G01-SHIELD



HM-G605-LENS



HM-SP01-POUCH



INR18650-35E-1S2P



HM-5202ZC2



HM-G620-LENS



HM-G630-LENS

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