

DHI-TPC-HI20

Thermal Handheld Thermographic Camera



Series Overview

The HI2O series allows inspectors to check efficiently and find the source of system failures faster than with a IR temperature gun. It is a auxiliary diagnostic tool with non-contact measurement, high accuracy and visualized anomalies on screen.

Technical Specification

Thermal

Detector Type	Vanadium Oxide Uncooled Focal Plane Detector
Effective Pixels	256 × 192
Pixel Pitch	12 µm
Spectral Range	8 μm~14 μm
Thermal Sensitivity (NETD)	≤40 mK@f/1.0
Focal Length	3.5 mm
Field of View	H: 37.8°; V: 50.6°
Focus Mode	Athermalized
Thermal Close Focus Distance	0.5 m
Aperture	F1.0
Noise Reduction	Yes
Color Palettes	4 (Whitehot/Blackhot/Rainbow/Ironbow)
Temperature Range	−20 °C to +550 °C (−4 °F to −1022 °F)
Temperature Accuracy	Max(±2 °C, ±2%), Operating Temperature(–20°C to +50 °C) (–4 °F to +122 °F)
Measurement Distance	1 m~4 m

- Built with an industry-leading vanadium oxide uncooled focal plane detector, it is highly sensitive and produces high-quality images
- \cdot Supports the accurate measuring of temperatures, with a tolerance of less than Max (±2 °C, ±2%) and a range of –20 °C to +550 °C
- Supports SD card storage
- Features 4 pseudo-color modes: Whitehot, Blackhot, Rainbow, and Ironbow
- Uses buzzer alarm when a temperature exceeds the alarm threshold
- Automatically captures images when a temperature exceeds the threshold

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- ·Supports device exception alerts
- •Supports image enhancement
- •Supports laser Pointer
- •Supports cold/Hot spot trace

Video and Audio Video Compression Resolution	H.265 480 x 640
Resolution	480 x 640
Frame Rate	480 x 640@25 fps
Picture Encoding Format	JPEG (480 x 640)
Video and Audio	
Sound and Light Alarm	Buzzer alarm
Storage	Micro SD card storage (Max. 256 GB)
Malfunction Detection	Storage card status detection; storage space detection
Laser Aiming	Yes
Port	
Alarm Linkage	High temperatures trigger the buzzer alarm and the capturing of snapshots
Alarm Event	No SD card; SD card has no space; SD card error; sound alarm

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USB	Micro USB			
Power				
Power Supply	5 V DC; built-in battery			
Standby Time	≥ 8 h			
Charging Time	≤ 2.5 h			
Power Consumption	< 1 W			
Dispplay				
Display Screen Dimensions	2.4'LCD			
Resolution	240 x 320			
Environment				
Operating Temperature	-20 °C to +50 °C			
Operating Humidity	≤ 90%			
Storage Temperature	-20 °C to +60 °C			
Physical Characteristics				
Protection	IP54; 2 m (6.56 ft) (naked camera)			
Product Dimensions	192.4 mm × 62.5 mm × 72.2 mm (7.6" × 2.5" × 2.8") (L × W × H)			
Packaging Dimensions	239 mm × 147 mm × 109 mm (9.4" × 7.0" × 4.3") (L × W × H)			
Net Weight	≤ 350 g			
Gross Weight	≤ 1 kg			
Power Adapter	Included			
Lens	Included			
Certification				
Certifications	CE: EN 55032:2015; EN 61000-3-3:2013+A1:2019; EN 50130-4:2011/A1:2014; EN55024:2010/A1:2015; EN55035:2017 FCC: CFR 47 FCC Part 15 subpart B, 2019; ANSI C63.4- 2014 UL: IEC 62368-1:2014 (Second Edition)			

Ordering Information				
Туре	Model	Description		
Thermal Camera	DHI-TPC-HI20	3.5 mm		

Dimensions (mm[inch])









