

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

1. Center spot

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

Temperature Mode	 Center spot Max. temp point and Min. temp point Abnormal temperature alarm Color bar display Temperature units can be set as °F, °C, and K Auto tracking of hot spots and cold spots 	
Video and Audio		
Video Compression	H.265	
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	

Thermography Series | DHI-TPC-HI20

USB	Micro USB			
Power				
Power Supply	5 V DC; built-in battery			
Standby Time	≥ 8 h			
Charging Time	≤ 2.5 h			
Power Consumption	<1W			
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])









Rev 002.000 © 2022 Dahua. All rights reserved. Design and specifications are subject to change without notice. The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product.

www.dahuasecurity.com