

# DHI-TPC-HI20

## Thermal Handheld Thermographic Camera



#### **Series Overview**

The HI20 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**

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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)	≤50 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
- Supports the accurate measuring of temperatures, with a tolerance of less than Max ( $\pm 2$  °C,  $\pm 2$ %) 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
- Supports device exception alerts
- Supports image enhancement
- •Supports laser Pointer
- •Supports cold/Hot spot trace

Temperature Mode	1. Center spot 2. Max. temp point and Min. temp point 3. Abnormal temperature alarm 4. Color bar display 5. Temperature units can be set as °F, °C, and K 6. 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
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

## Thermography Series | DHI-TPC-HI20

### Dispplay

Display Screen Dimensions	2.4'LCD
Resolution	240 x 320
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### 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)
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Ordering Information		
Туре	Model	Description
Thermal Camera	DHI-TPC-HI20	3.5 mm

## Dimensions (mm[inch])





