DH-TPC-HT2201

Handheld Thermal Temperature Monitoring Camera

- 256 × 192 uncooled VOx FPA
- AI non-contact temperature monitoring
- Temperature monitoring accuracy: ±0.5°C
- Support audible alarm
- PC client for live view & alarm
- Battery life > 8 h
- Support micro SD card for image and video storage

Series Overview

Dahua thermal cameras characterized by non-contact, rapid, and no risk to temperature testers, etc. It can be conveniently deployed in public places with dense crowds, and can be used for efficient and safe preliminary screening of temperature anomalies.

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)	≤ 50mK@f/1.0
Focal Length	3.5 mm
Field of View	H: 37.8°; V: 50.6°
Focus Mode	Athermalized
Aperture	F1.0
Digital Detail Enhancement (DDE)	Yes
Noise Reduction	Yes
Color Palettes	4 (Whitehot/Blackhot/Rainbow/Ironbow)
Temperature Range	30°C–45°C (86°F–113°F)
Temperature Accuracy	±0.5°C
Measurement Distance	0.5 m–1.5 m
Temperature Mode	Center spot and maximum temperature monitoring; AI head detection;

Video and Audio

Video Compression	H.265
Frame Rate	480 × 640@25fps
Picture Encoding Format	JPEG
Audible Alarm	Yes

Interface

Edge Storage	Micro SD Card (Max 256 GB, support SD card error alarm: No SD card alarm, insufficient SD card memory alarm)
USB	Micro USB

Power

Power Supply	5V DC or built-in power supply
Operating Time	≥ 8 h Note: Battery life will be reduced if head detection, audible alarm or video recording are enabled.
Charging Time	≤ 2.5 h
Power Consumption	< 1W

Display

Screen Size	2.4" LCD
Resolution	240 × 320

Environmet

Operating Temperature	10°C–35°C (50°F–95°F)
Operating Humidity	≤ 90%

Structure

Ingress Protection	IP54 Drop test height: 2 m (6.56 feet)
Product Dimensions	192.4 mm × 62.5 mm × 72.2 mm (7.6" × 2.5" × 2.8") (L × W × H)

Packaging Dimensions	Camera with packaging: 239 mm × 147 mm × 109 mm (9.4" × 7.0" × 4.3") (L × W × H) Protective box: 578 mm × 313 mm × 259 mm (22.7" × 12.3" × 10.2") (L × W × H)
Net Weight	≤ 0.35 kg (0.77 lb)
Gross Weight	≤ 1 kg (2.2 lb)
Power Adapter	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

Type	Model	Description
Thermal Camera	DH-TPC-HT2201	3.5 mm

Dimensions (mm[inch])