

# Handheld Temperature Monitoring Camera

## Contactless Temperature Measurement



- 256 x 192 Uncooled VOx Thermal Sensor Technology
- 3.5 mm Fixed Athermalized Lens, Focus-free
- $\pm 0.5^{\circ}\text{C}$  ( $\pm 0.9^{\circ}\text{F}$ ) Temperature Accuracy
- $\leq 50\text{ mK}$  Thermal Sensitivity
- Contactless Temperature Measurement
- Connect Handheld Device to a Computer and Monitor via USB
- Rechargeable Lithium-Ion Battery
- IP54 Ingress Protection
- Three-year Warranty\*

### Technical Specification

#### Thermal Camera

Image Sensor	Uncooled VOx FPA
Effective Pixels	256 (H) x 192 (V)
Pixel Size	12 $\mu\text{m}$
Thermal Sensitivity (NETD)	$\leq 50\text{ mK}$ at F1.0
Spectral Range	8 $\mu\text{m}$ to 14 $\mu\text{m}$
Color Palettes	Four (4) Whitehot, Blackhot, Rainbow, Ironbow

#### Thermal Lens

Lens Type	Fixed
Focus Control	Athermalized, Focus-free
Focal Length	3.5 mm
Angle of View	Horizontal: $50.6^{\circ}$ Vertical: $37.8^{\circ}$
Aperture	F1.0

#### Display

Size	2.40-in. LCD
Resolution	320 x 240

#### Temperature Measurement

Range	$30^{\circ}\text{C}$ to $45^{\circ}\text{C}$ ( $86^{\circ}\text{F}$ to $113^{\circ}\text{F}$ )
Accuracy	$\pm 0.5^{\circ}\text{C}$ ( $0.9^{\circ}\text{F}$ ), when operating temperature is between $15^{\circ}\text{C}$ to $35^{\circ}\text{C}$ ( $59^{\circ}\text{F}$ to $95^{\circ}\text{F}$ )
Mode	Head Center Maximum Temperature
Alarm	Audible alarm when measured temperature exceeds threshold value
Distance	0.50 m to 1.50 m (19.69 in. to 59.06 in.)

#### Interface

Edge Storage	Micro SDHC Card Slot, maximum 32 GB (SD card must be formatted as FAT32)
USB	Micro USB, used to charge the unit and to transfer recorded video <sup>1</sup>

#### Battery

Type	Built-in Rechargeable Lithium-Ion Battery
Life	> 8 Hours, continuous operation at $25^{\circ}\text{C}$ ( $77^{\circ}\text{F}$ )
Charge Time	$\leq 2.5$ Hours at $25^{\circ}\text{C}$ ( $77^{\circ}\text{F}$ )

#### Certifications

Electromagnetic Compatibility (EMC)	CFR 47 FCC Part 15 Subpart B EN 55032:2015, EN 61000 3 3: 2013+A1:2019, EN 50130 4:2011/A1:20 14, EN 55024:2010/A1:2015, EN 55035:2017
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#### Environmental

Operating Temperature	$15^{\circ}\text{C}$ to $35^{\circ}\text{C}$ ( $59^{\circ}\text{F}$ to $95^{\circ}\text{F}$ )
Storage Temperature	$-20^{\circ}\text{C}$ to $60^{\circ}\text{C}$ ( $-4^{\circ}\text{F}$ to $140^{\circ}\text{F}$ )
Ingress Protection	IP54

#### Construction

Dimensions	192.40 mm x 62.55 mm x 73.40 mm (7.58 in. x 2.46 in. x 2.89 in.)
Net Weight	0.50 kg (1.10 lb)
Installation	Handheld or Tripod-mounted

1. The device can record video and snapshots to the SD Card, but can only display the snapshots on the screen. To view video recorded to the SD Card, the card must be removed from the device and placed into a computer with SmartPlayer. Note that the recorded video is stored as a .dav file.