

PFI-M419 Thermal Monocular Camera



Key Features

- Vanadium oxide uncooled focal plane detector.
- Ultra-low power consumption.
- Detection distance is up to 1,000 m.
- Connects to the mobile app through Wi-Fi.
- Six color palettes.
- Built-in EMMC (16 GB).
- Electronic compass for quick direction identification.
- Lightweight and portable.
- IP67 rated.

Technical Specification

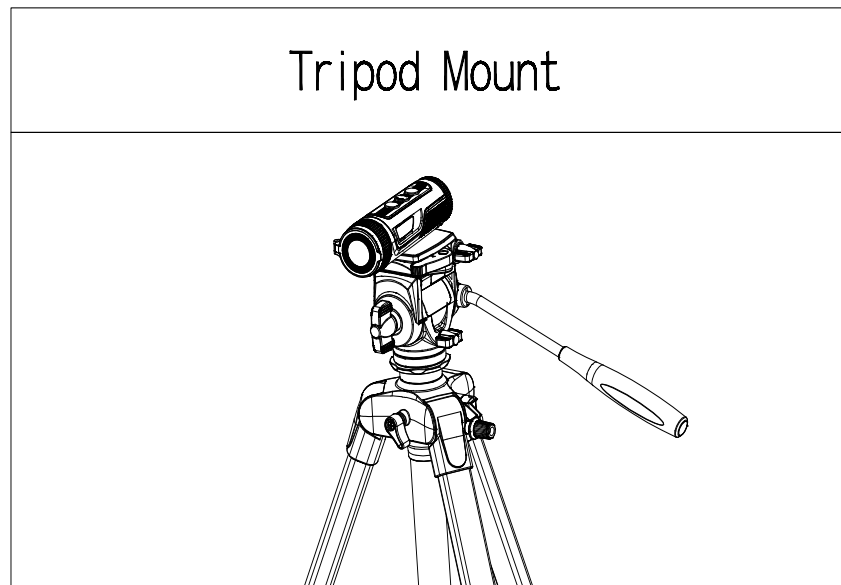
Thermal	
Detector Type	Vanadium oxide uncooled focal plane detector
Effective Pixels	384 (H) × 288 (V)
Pixel Pitch	12 μm
Spectral Range	8 μm–14 μm
Sensitivity (NETD)	≤25 mK@f/1.0, 25 °C
Focal Length	19 mm
Aperture	F1.0
Field of View	H: 14.4°; V: 10.8°/H: 25.3 m; V: 18.9 m (@100 m)
Focus Control	Manual
Close Focus Distance	1 m (3.28 ft)
Detection Distance	1,000 m (3,280.84 ft)
Magnification	2.05 ×
Frame Rate	50 Hz
Display	
Screen	800 × 600, 0.32 inch, OLED
Color Palettes	6 (white hot/black hot/iron red/alarm/emerald/amber)
Video Compression	H.264
Diopter	–5 D to +3 D
Eye Relief	15 mm (0.59 inch)
Exit Pupil	6 mm (0.24 inch)
Function	
Digital Zoom	1×, 2×, 4×, 8×
Video Recorder	Yes
Snapshot	Yes
Wi-Fi Hotspot	Yes
Hot Spot Track	Yes
Video Distance Measurement	Yes
FFC Calibration	Auto, Manual, External Correction
Standby Mode	Yes
DPC (Defective Pixel Correction)	Yes
Storage	Built-in 16 GB
Power	
Battery Type	Rechargeable Lithium battery
Battery Life	8.0 h@25 °C

Power Supply	5 VDC/2 A
Port	USB Type-C
Overvoltage Protection	Yes
General	
Operating Temperature	-30 °C to +55 °C (-22 °F to +131 °F)
Operating Humidity	≤95%
Protection Grade	IP67
Packaging Dimensions	180.0 mm × 123.0 mm × 96.0 mm (7.09" × 4.84" × 3.78") (L × W × H)
Product Dimensions	157.5 mm × 56.6 mm × 50.3 mm (6.20" × 2.23" × 1.98") (L × W × H)
Gross Weight	760 g (1.68 lb)
Net Weight	320 g (0.71 lb)

Ordering Information

Type	Model	Description
Thermal Monocular Camera	PFI-M419	Thermal Monocular Camera

Installation



Dimensions (mm[inch])

