

PFI-R635 Thermal Monocular Camera



Key Features

- Vanadium oxide uncooled focal plane detector.
- Ultra-low power consumption.
- Detection distance is up to 1,800 m.
- Connects to the mobile app through Wi-Fi.
- Six color palettes.
- Built-in EMMC (32 GB).
- Connects to the external display.
- Lightweight and portable.
- IP67 rated.

Technical Specification

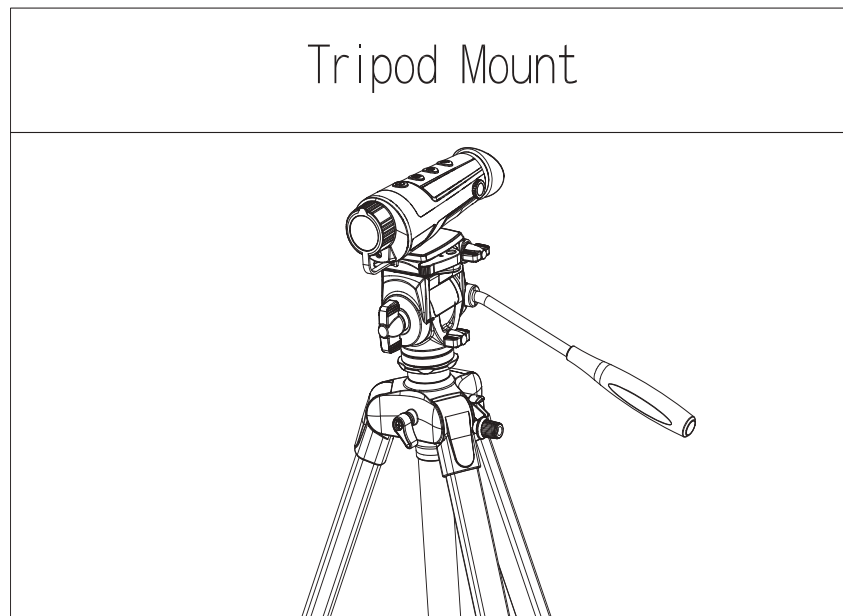
Thermal	
Detector Type	Vanadium oxide uncooled focal plane detector
Effective Pixels	640 (H) × 512 (V)
Pixel Pitch	12 μm
Spectral Range	8 μm –14 μm
Sensitivity (NETD)	$\leq 30 \text{ mK@f/1.0}$
Frame Rate	50 Hz
Focal Length	35 mm
Field of View	H: 12.4°; V: 10.0°
Focus Control	Manual
Close Focus Distance	2 m (6.56 ft)
Aperture	F1.0
Detection Distance	1,800 m (5,905.51 ft)

Digital Zoom	1 x; 2 x; 4 x; 8 x
Color Palettes	6 (white hot/black hot/iron red/alarm/emerald/amber)
Display	
Display Screen Dimensions	0.41 inch, OLED
Screen Resolution	1440 (H) × 1080 (V)
Magnification	2.05 ×
Diopter Adjust	−4 D to +5 D
Eye Relief	25 mm (0.98")
Function	
Storage	Built-in EMMC (32 GB)
Uniformity Correction	Auto; manual
Cold/Hot Spot Trace	Yes
Wi-Fi	Yes
Analog Output	Yes. Type-C.
Power	
Power Supply	5 VDC/2 A, USB Type-C
Battery Type	1 rechargeable Lithium batteries (internal)
Battery Capacity	3,200 mAh
Overvoltage Protection	Yes
Standby Time	≥6.5 h
Environment	
Operating Temperature	−30 °C to +50 °C (−22 °F to +122 °F)
Operating Humidity	≤95%
Storage Temperature	−30 °C to +65 °C (−22 °F to +149 °F)
Physical Characteristics	
Protection	IP67
Structure	
Product Dimensions	199.8 mm × 64.7 mm × 69.6 mm (7.87" × 2.55" × 2.74") (L × W × H)
Packaging Dimensions	299 mm × 152 mm × 114 mm (11.77" × 5.98" × 4.49") (L × W × H)
Net Weight	≤400 g (0.88 lb)
Gross Weight	≤1 kg (2.20 lb)

Ordering Information

Type	Model	Description
Thermal Monocular Camera	PFI-R635	Thermal Monocular Camera

Installation



Dimensions (mm[inch])

