PIXFRA™

PFI-A635
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).

· Lightweight and portable.
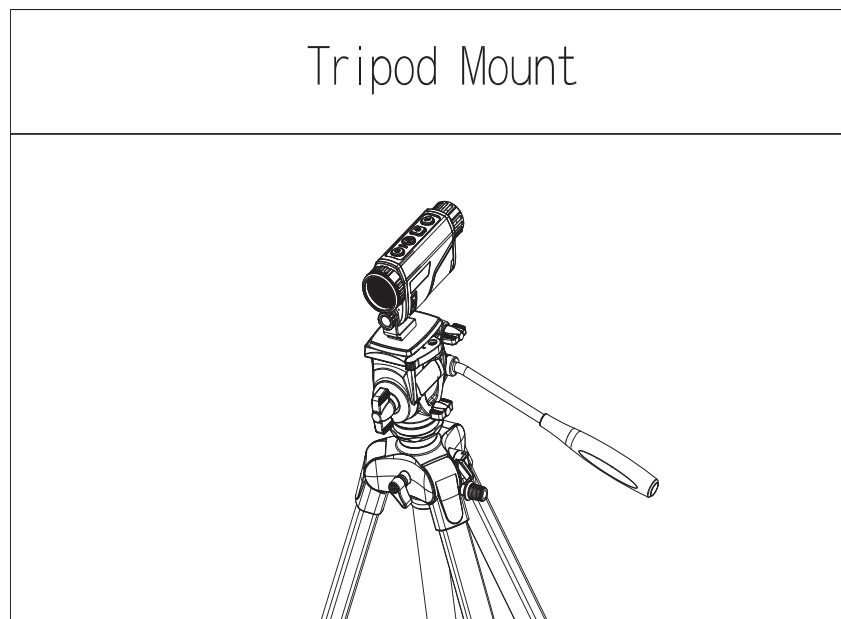
· IP67 rated.

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)	≤30 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 (6.5 ft)
Aperture	F1.0
Detection Distance	1,800 m (5905.51 ft)
Digital Zoom	1×; 2×; 4×; 8×
Color Palettes	6 (white hot/black hot/iron red/alarm/emerald/amber)

Image Display	
Display Screen Dimensions	0.41 inch, OLED
Screen Resolution	1440 (H) × 1080 (V)
Magnification	2.35×
Diopter	−4 D to +5 D
Eye Relief	15 mm (0.59")

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	Replaceable and rechargeable 18650 batery
Battery Capacity	3,200 mAh
Overvoltage Protection	Yes
Battery Life	≥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	151.7 mm × 42.0 mm × 74.4 mm (5.98" × 1.65" × 2.93") (L × W × H)
Packaging Dimensions	227 mm × 150 mm × 132 mm (8.93" × 5.90" × 5.19") (L × W × H)
Net Weight	≤318 g (0.70 lb) (battery excluded)
Gross Weight	≤1,400 g (3.08 lb)

Ordering Information

Type	Model	Description
Thermal Monocular Camera	PFI-A635	Thermal Monocular Camera

Installation

Tripod Mount

Dimensions (mm[inch])

Ø46.5 [Ø1.83]

74.4 [2.93]

TRIPOD MOUNT

151.7 [5.98]

42.0 [1.65]