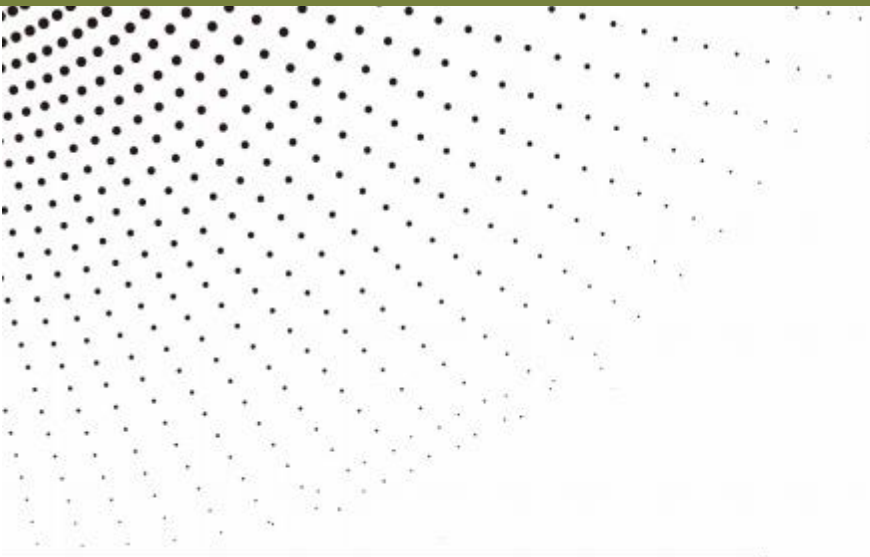


PFI-R650 Thermal Monocular Camera



Key Features

- Vanadium oxide uncooled focal plane detector.
- Ultra-low power consumption.
- Detection distance is up to 2,600 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

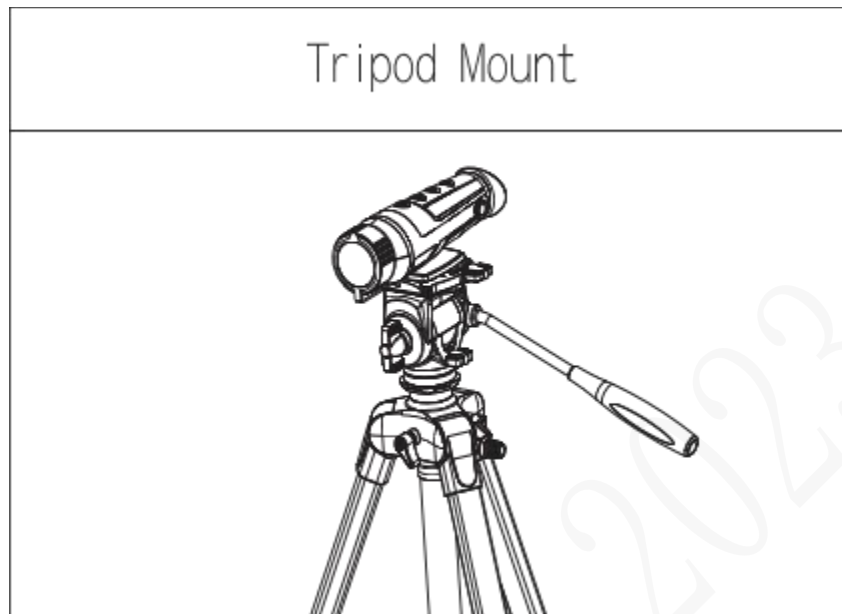
| Thermal | |
|----------------------|--|
| Detector Type | Vanadium oxide uncooled focal plane detector |
| Effective Pixels | 640 (H) × 512 (V) |
| Pixel Pitch | 12 μm |
| Spectral Range | 8 μm–14 μm |
| Sensitivity (NETD) | ≤30 mK@f/1.0 |
| Frame Rate | 50 Hz |
| Focal Length | 50 mm |
| Field of View | H: 8.7°; V: 7.0° |
| Focus Control | Manual |
| Close Focus Distance | 1.5 m (4.92 ft) |
| Aperture | F1.0 |
| Detection Distance | 2,600 m (8,530.18 ft) |

| | |
|---------------------------------|--|
| Digital Zoom | 1 ×; 2 ×; 4 ×; 8 × |
| 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 | 2.92 × |
| 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/HotSpot 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 | 217 mm × 64.7 mm × 69.6 mm (8.54" × 2.55" × 2.74") (L × W × H) |
| Packaging Dimensions | 265 mm × 152 mm × 114 mm (10.43" × 5.98" × 4.49") (L × W × H) |
| Net Weight | ≤495 g (1.09 lb) |
| Gross Weight | ≤1 kg (2.20 lb) |

Ordering Information

| Type | Model | Description |
|--------------------------|----------|--------------------------|
| Thermal Monocular Camera | PFI-R650 | Thermal Monocular Camera |

Installation



Dimensions (mm[inch])

