

PFI-A419P LRF Thermal Monocular Camera



Key Features

- Vanadium oxide uncooled focal plane detector.
- Fully integrated 1,000 m laser range finder.
- Rugged Mg housing.
- FHD OLED display.
- Replaceable 18650 battery.
- High optical magnification.
- Left and right hand user friendly design.
- Built-in EMMC (32 GB).
- 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) | ≤20 mK@f/1.0, 25 °C |
| Focal Length | 19 mm |
| Aperture | F1.0 |
| Field of View | H: 14.2°; V: 10.7°/H: 40.4 m; V: 32.3 m (@100 m) |
| Focus Control | Manual |
| Close Focus Distance | 2 m (6.56 ft) |
| Detection Distance | 1,000 m (3,280.84 ft) |
| Recognition Distance | 600 m (1,968.50 ft) |
| Identification Distance | 380 m (1,246.72 ft) |
| Magnification | 2.1 × |
| Frame Rate | 50 Hz |
| Display | |
| Screen | 1440 × 1080, OLED |
| Color Palettes | 6 (white hot/black hot/iron red/alarm/emerald/amber) |
| Video Compression | H.264 |
| Diopter | −3 D to +5 D |
| Eye Relief | 15 mm (0.59 inch) |
| Exit Pupil | 8 mm (0.31 inch) |
| Function | |
| Digital Zoom | 1×, 2×, 4×, 8× |
| Video Recorder | Yes |
| Snapshot | Yes |
| Wi-Fi Hotspot | Yes |
| Hot Spot Track | Yes |
| FFC Calibration | Auto, Manual, External Correction |
| Standby Mode | Yes |
| DPC (Defective Pixel Correction) | Yes |
| Storage | Built-in EMMC (32 GB) |
| Laser Range Finder | |
| Max. Distance | 1,000 m (3,280.84 ft) |

| | |
|------------------------|--|
| Min. Distance | 10 m (32.81 ft) |
| Accuracy | ±1 m (3.28 ft) |
| Safety | Class 1 |
| Wavelength | 905 nm |
| Power | |
| Battery Type | Replaceable 18650 battery |
| Battery Life | 7.5 h@25 °C (Wi-Fi off, LRF off) |
| 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 | 228 mm × 120 mm × 187 mm (8.98" × 4.72" × 7.36") (L × W × H) |
| Product Dimensions | 168 mm × 50 mm × 78 mm (6.61" × 1.97" × 3.07") (L × W × H) |
| Gross Weight | ≤1.6 kg (3.53 lb) |
| Net Weight | ≤360 g (0.79 lb) (battery excluded) |

Dimensions (mm[inch])

