

PFI-T450 LRF Thermal Monocular Camera



Key Features

- Vanadium oxide uncooled focal plane detector.
- Compatible with 10x daylight scope.
- 0.9 cm@100 m high accuracy click value.
- Robust Mg alloy housing.
- Bluetooth remote controller included.
- Ergonomic buttons layout.
- Crystal breathing power button.
- Carbon fiber decorative texture design.
- FHD OLED display.
- Replaceable 18650 battery.
- 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) | ≤18 mK@f/1.0, 25°C |
| Focal Length | 50 mm |
| Aperture | F1.0 |
| Field of View | H: 5.5°; V: 4.1° / H: 95 m; V: 7.1 m (@100 m) |
| Focus Control | Manual |
| Close Focus Distance | 6.0 m (19.69 ft) |
| Detection Distance | 2,600 m (8,530.18 ft) |
| Magnification | 1.0 × |
| Frame Rate | 50 Hz |
| Display | |
| Screen | 1920 × 1080, 0.49 inch, OLED |
| Color Palettes | 6 (white hot/black hot/iron red/alarm/emerald/amber) |
| Video Compression | H.264 |
| Eye Relief | 30 mm (1.18") |
| Exit Pupil | 25 mm (0.98") |
| Function | |
| Video Recorder | Yes |
| Snapshot | Yes |
| Wi-Fi Hotspot | Yes |
| Hot Spot Track | Yes |
| Video Distance Measurement | Yes |
| FFC Calibration | Auto; manual; external correction |
| Blue Tooth Remote Controller | Yes |
| Standby Mode | Yes |
| DPC (Defective Pixel Correction) | Yes |
| Storage | Built-in 32 GB |
| Click Value | X: 0.9 cm@100 m; Y: 1.8 cm@100 m |
| Laser Range Finder | |
| Distance | 1,000 m (3,280.84 ft) |

| | |
|------------------------|---|
| Accuracy | ±1 m (3.28 ft) |
| Power | |
| Battery Type | Rechargeable 18650 battery |
| Battery Life | 7 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 |
| Max. Recoil | 6,000 J |
| Packaging Dimensions | 293.0 mm × 180.0 mm × 138.0 mm (11.54" × 7.09" × 5.43") (L × W × H) |
| Product Dimensions | 139.9 mm × 101.5 mm × 73.4 mm (5.51" × 4.00" × 2.89") (L × W × H) |
| Gross Weight | <2.3 kg (5.07 lb) |
| Net Weight | 580 g (1.28 lb) |

Dimensions (mm[inch])

