

## PFI-T650 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                 | 640 (H) × 512 (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: 8.7°; V: 7.0° / H: 15.4 m; V: 12.3 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           | 6 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])

