

## PFI-A650P 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	640 (H) × 512 (V)
Pixel Pitch	12 μm
Spectral Range	8 μm–14 μm
Sensitivity (NETD)	≤20 mK@f/1.0, 25 °C
Focal Length	50 mm
Aperture	F1.0
Field of View	H: 8.7°; V: 7°/H: 15.4 m; V: 12.3 m (@100 m)
Focus Control	Manual
Close Focus Distance	2 m (6.56 ft)
Detection Distance	2,600 m (8,530.18 ft)
Recognition Distance	1,600 m (5,249.34ft)
Identification Distance	1,000 m (3,280.84 ft)
Magnification	3.37×
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
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
<b>Power</b>	
Battery Type	Replaceable 18650 battery
Battery Life	6 h@25 °C (Wi-Fi off, LRF off)
Power Supply	5 VDC/2 A
Port	USB Type-C
Overvoltage Protection	Yes
<b>General</b>	
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	186.8 mm × 65.9 mm × 81.3 mm (7.36" × 2.60" × 3.20") (L × W × H)
Gross Weight	≤1.6 kg (3.53 lb)
Net Weight	≤430 g (0.95 lb) (battery excluded)

**Dimensions (mm[inch])**

