

PFI-C650F Thermal Monocular Camera



Key Features

- Vanadium oxide uncooled focal plane detector.
- Ultra-low power consumption.
- Connects to the mobile app through Wi-Fi.
- Calculates distance using video analysis.
- Lightweight and portable.
- Picture in picture.
- Impact resistance reaches up to 1,000 g/1 ms.
- RAR (Recoil Activated Recorder).
- 1440 × 1080 OLED screen.
- Metal housing.
- 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, 25°C
Focal Length	50 mm
Aperture	F1.0
Field of View	H: 8.7°; V: 7.0°
Focus Control	Fixed
Close Focus Distance	5 m (16.40 ft)
Detection Distance	2,600 m (8,530.18 ft)
Magnification	1.0 ×
Frame Rate	50 Hz
Display	
Screen	1440 × 1080, 0.41 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	6 mm
Function	
Zeroing	Yes
Video Recorder	Yes
Snapshot	Yes
WiFi Hotspot	Yes
Hot Spot Track	Yes
Video Distance Measurement	Yes
FFC Calibration	Auto; manual; immediately
DPC (Defective Pixel Correction)	Yes
RAR (Recoil Activated Recorder)	Yes
MIC	Yes
Storage	Built-in 32 GB
Power	
Battery Type	Replaceable and rechargeable 18650 battery
Battery Life	7.5 h@25 °C

Power Supply	5 VDC/1 A
Port	USB Type-C
Anti-reverse Battery Connection	Yes
Overvoltage Protection	Yes
General	
Operating Temperature	-30 °C to +55 °C (-22 °F to +131 °F)
Operating Humidity	≤95%
Max. Recoil	1,000 g/1 ms
Protection Grade	IP67
Packaging Dimensions	267 mm × 227 mm × 116 mm (10.51" × 8.94" × 4.57") (L × W × H)
Product Dimensions	163.4 mm × 64.1 mm × 87.7 mm (6.43" × 2.52" × 3.45") (L × W × H)
Gross Weight	1.8 kg (3.97 lb)
Net Weight	≤620 g (1.37 lb) (battery excluded)

Ordering Information

Type	Model	Description
Thermal Monocular Camera	PFI-C650F	Thermal Monocular Camera

Dimensions (mm[inch])

