

PFI-SA70D Thermal Monocular Camera



Key Features

- Vanadium oxide uncooled focal plane detector.
- Dual FOV lens.
- Ergonomic buttons layout.
- Crystal breathing power button.
- Carbon fiber decorative texture design.
- FHD OLED display.
- Replaceable 18650 battery.
- High optical magnification.
- Connects to the mobile app through Wi-Fi.
- Six color palettes.
- Built-in EMMC (64 GB).
- IP67 rated.

Technical Specification

Thermal	
Detector Type	Vanadium oxide uncooled focal plane detector
Effective Pixels	1280 (H) × 1024 (V)
Pixel Pitch	12 μm
Spectral Range	8 μm–14 μm
Sensitivity (NETD)	≤15 mK@f/1.0, 25 °C
Focal Length	35 mm; 70 mm
Aperture	35 mm: F0.92 70 mm: F1.1
Field of View	35 mm: H: 25.4°; V: 20.3°/H: 43.9 m; V: 35.1 m (@100 m) 70 mm: H: 12.4°; V: 10°/H: 21.9 m; V: 17.6 m (@100 m)
Focus Control	Manual
Close Focus Distance	35 mm: 5 m (16.40 ft) 70 mm: 10 m (32.81 ft)
Detection Distance	35 mm: 1,800 m (5,905.51 ft) 70 mm: 3,600 m (11,811.02 ft)
Recognition Distance	35 mm: 464 m (1,522.31 ft) 70 mm: 928 m (3,044.62 ft)
Identification Distance	35 mm: 232 m (761.15 ft) 70 mm: 464 m (1,522.31 ft)
Magnification	35 mm: 1.21× 70 mm: 2.41×
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	–5D to +3D
Eye Relief	15 mm (0.59 inch)
Exit Pupil	8 mm (0.31 inch)
Function	
Digital Zoom	1x, 2x, 4x, 8x
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
MIC	Yes

Compass	Yes
Storage	Built-in 64 GB
Power	
Battery Type	Replaceable 18650 battery
Battery Life	4.5 h@25 °C (Wi-Fi 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	311 mm × 140 mm × 127 mm (12.24" × 5.51" × 5") (L × W × H)
Product Dimensions	251.5 mm × 79.4 mm × 90.3 mm (9.9" × 3.13" × 3.56") (L × W × H)
Gross Weight	1.63 kg (3.59 lb)
Net Weight	908 g (2.00 lb)

Dimensions (mm[inch])

