

PFI-D635-4K Multispectral Binocular Camera



Key Features

- 4-in-1 functionality.
- PIPS 3.0 technology.
- Auto day & night mode.
- Ergonomic grip, lightweight design.
- Multi-function wheel and four-button layout.
- Foldable eyecups with comfortable design.
- Immersive 0.49-inch FHD OLED display with 18x ocular lens.

Technical Specification

Thermal	
Detector Type	Vanadium oxide uncooled focal plane detector
Effective Pixels	640 (H) × 512 (V)
Frame Rate	50 Hz
Pixel Pitch	12 μm
Spectral Range	8 μm–14 μm
Sensitivity (NETD)	≤15 mK@f/1.0
Focal Length	35 mm
Aperture	F1.0
Field of View	H: 12.52°; V: 10.0°/H: 21.9 m; V: 17.6 m (@100 m)
Focus Control	Manual
Close Focus Distance	7 m (22.97 ft)
Detection Distance	1,800 m (5,905.51 ft)
Base Magnification	2.5×
Digital Zoom	1x–8x
Digital	
Detector Type	1/1.8" Progressive Scan CMOS
Max. Resolution	3840 (H) × 2160 (V)
Frame Rate	50 Hz
Focal Length	55 mm
Aperture	F2.0
Field of View	H: 8.0°; V: 4.5°/H: 14.0 m; V: 8.8 m (@100 m)
Focus Control	Manual
Close Focus Distance	7 m (22.97 ft)
Base Magnification	5.5×
Digital Zoom	1x–8x
Display	
Screen Size	1920 × 1080, 0.49 inch, OLED
Color Palettes	Thermal: White Hot, Black Hot, Iron Red, Alarm, Green Hot, Sepia Digital: Colour, Black White, Green, Yellow, Auto
Dioptr	–5 D to 5 D
Eye Relief	15 mm

Interpupillary Adjustment	60 mm–74 mm
Function	
Image Modes	Thermal/Visible/PIP
Video Recorder	Yes
Snapshot	Yes
Wi-Fi Hotspot	Yes
Hot Spot Track	Yes
FFC (Flat Field Correction) Mode	Auto; Semi-Auto; Manual
Standby Mode	Yes
DPC (Defective Pixel Correction)	Yes
MIC	Yes
Compass	Yes
PIP	Yes
GPS	Yes
Local Album	Yes
Storage	Built-in 64 GB
PIPS 3.0	Yes
Smart IR	Yes
IR Illuminator Wavelength	850 nm
IR Illuminator Range	400 m (1,312.34 ft)
Replaceable IR Illuminator	Yes
Laser Range	1,000 m (3,280.84 ft)
Laser Accuracy	±1 m (3.28 ft)
Laser Safety	Class 1
Power	
Battery Type	Replaceable 18650 Lithium battery
Battery Operating Time	≥8 h@25 °C (Wi-Fi off)
Power Supply	5 VDC
USB	USB Type-C
General	
Operating Temperature	–30 °C to +55 °C (–22 °F to +131 °F)
Operating Humidity	≤95%
Protection Grade	IP67
Packaging Dimensions	286.0 mm × 228.0mm × 107.0 mm (11.26" × 8.98" × 4.21") (L × W × H)
Product Dimensions	195.0 mm × 130.6 mm × 61.6 mm (7.68" × 5.14" × 2.43") (L × W × H)

Net Weight	≤0.62 kg (1.37 lb)
Gross Weight	≤2.51 kg (5.53 lb)

Dimensions (mm[inch])

