

PFI-T650 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
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 × 101.8 mm × 73.4 mm (5.51" × 4.01" × 2.89") (L × W × H)
Gross Weight	<2.3 kg (5.07 lb)
Net Weight	535 g (1.18 lb)

Dimensions (mm[inch])

2-1/4-20(UNC)

