

PFI-HC28 Thermal Imaging Camera



Key Features

- Vanadium oxide uncooled focal plane detector.
- 8 Megapixel progressive scan CMOS, and supports multiple video modes such as fusion and PIP.
- Temperature measurement range of $-20\text{ }^{\circ}\text{C}$ to $+550\text{ }^{\circ}\text{C}$.
- 4.3-inch LCD display for touch screen operation.
- Supports spot, line and area temperature measurement, and an alarm will be triggered when the temperature exceeds the configured threshold.
- Text note and voice note for marking locale information.
- The battery lasts up to 4 hours on a single charge.
- Secondary image analysis through external reporting software.

Technical Specification

General		
Appearance	Thermal Imaging Camera	
Type	Radiometry	
Thermal		
Detector Type	Vanadium oxide uncooled focal plane detector	
Effective Pixels	256 (H) × 192 (V)	
Pixel Pitch	12 μm	
Spectral Range	8 μm–14 μm	
Sensitivity (NETD)	≤40 mK@f/1.0	
Focal Length	3 mm	
Field of View	H: 55.6°; V: 42°	
Close Focus Distance	0.25 m (standard lens)	0.03 m (optional macro lens)
Temperature Measurement Distance (Min.)	0.5 m (1.64 ft)	0.03m (0.098 ft)
Temperature Measurement Distance (Max.)	3 m (9.84 ft)	0.03 m (0.098 ft)
Optional Lens	Yes	
Digital Zoom	1–8×	
Color Palettes	8 (white hot/black hot/fusion/rainbow/golden autumn/midday/iron red/amber)	
Temperature Measurement Range	Low temperature mode: –20 °C (–4 °F) to +150 °C (+302 °F) High temperature mode: +100 °C (+212 °F) to +550 °C (+1022 °F) Auto mode	
Temperature Measurement Accuracy	Max. (±2 °C, ±2%)	
Temperature Measurement Mode	Spot: 15 Line: 15 Area: 15 Supports 15 rules simultaneously	
Visible		
Max. Resolution	3264 (H) × 2448 (V)	
Pixel	8 MP	
Digital Zoom	Yes. 1–8×	
Visible Focus Control	Fixed-focal	
Focal Length	4 mm	
Field of View	H: 64.9°; V: 51°	
Illuminator On/Off Control	Manual	
Audio and Video		
Video Compression	H.265	
Resolution	Video	Thermal:1280 (H) × 960 (H) ; Visible:1280 (H) × 960 (H)
	Image	Thermal:1280 (H) × 960 (H) ; Visible:1280 (H) × 960 (H), 3264 (H) × 2448 (H)

Video Frame Rate	25 fps
Screen	
Screen Size	4.3 inch
Screen Type	LCD touch screen
Resolution	800 (H) × 480 (H)
Function	
Image Modes	Thermal/Visible/Fusion/PIP
Buzzer	Yes
Parameter Calibration	Temperature; humidity; emissivity
Text Note	Yes (≤200 bytes)
Voice Note	Yes (≤60 s)
Software	Yes
Port	
Audio Input	Built-in Mic
Wi-Fi	Yes
USB	Type-C
Power	
Power Supply	Built-in lithium batteries
Battery Capacity	3,600 mAh
Battery Type	Rechargeable
Power Consumption	≤2.1 W
Operating Time	≥4 h
Charging Time	≤2 h
Environment	
Operating Temperature	-20 °C to +50 °C (-4 °F to +122 °F)
Operating Humidity	≤95%
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Physical Characteristics	
Protection	IP54
Anti-corrosion Level	Basic Protection
Drop Test Height	1 m (3.28 ft)
Structure	
Product Dimensions	136 mm × 83 mm × 20.5 mm (5.35" × 3.27" × 0.81") (L × W × H)
Packaging Dimensions	179 mm × 142 mm × 69 mm (7.05" × 5.59" × 2.72") (L × W × H)
Net Weight	≤245 g (0.54 lb)
Gross Weight	≤600 g (1.32 lb)

Accessory	Type-C cable; wristband
Bracket	Tripod (optional)

Ordering Information

Type	Model	Description
Thermal Imaging Camera	PFI-HC28-TB3F4	Thermal: 3 mm Visible: 4 mm

Dimensions (mm[inch])



