

PFI-HS45 Thermal Imaging Camera



Key Features

- Vanadium oxide uncooled, focal plane array detector.
- 5 Megapixel progressive scan CMOS, supports multiple video modes such as fusion and PIP.
- Temperature measurement range of -20°C to $+550^{\circ}\text{C}$.
- 3.5-inch LCD display with touch screen operation.
- Supports spot, line and area temperature measurements. Alarm is triggered when the temperature exceeds the configured threshold.
- Text and voice note functions for marking local information.
- 2 Replaceable batteries, each lasting up to 5.5 hours on a single charge.
- Secondary analysis on free PC based software, with exportable reports.

Technical Specification

General	
Appearance	Thermal Imaging Camera
Type	Radiometry
Thermal	
Detector Type	Vanadium oxide, uncooled, focal plane array detector
Effective Pixels	400 (H) × 300 (V)
Pixel Pitch	12 µm
Spectral Range	8 µm–14 µm
Sensitivity (NETD)	≤40 mK@f/1.0
Focal Length	7 mm; 10 mm
Field of View	7 mm: H: 35.5°; V: 27.0° 10 mm: H: 27.0°; V: 20.4°
Focus Control	Manual
Close Focus Distance	0.5 m (1.64 ft)
Digital Zoom	1–8×
Colour 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 Distance (Min.)	1 m (3.28 ft)
Temperature Measurement Distance (Max.)	12 m (39.37 ft)
Temperature Measurement Mode	Spot: 10 Line: 10 Area: 10 Supports 10 rules simultaneously

Technical Specification

Visible	
Max. Resolution	2592 (H) × 1944 (V)
Pixel	5 MP
Digital Zoom	Yes. 1–8×
Visible Focus Control	Fixed focus
Focal Length	4 mm
Field of View	H: 84.1°; V: 45.4°
Flashlight On/Off Control	Manual
Audio and Video	
Video Compression	H.264
Resolution	Thermal: 1280 × 960 Visible: 1920 × 1080
Video Frame Rate	25 fps
Screen	
Screen Size	3.5 inch
Screen Type	LCD touch screen
Resolution	640 × 480
Screen Brightness	Low; middle; high
Function	
Image Modes	Thermal/Visible/Fusion/PIP
Buzzer	Yes
Parameter Calibration	Temperature; humidity; emissivity
Text Notes	Yes (≤200 words)
Voice Notes	Yes (≤60 s)
Software	Yes

Technical Specification

Software	Yes
Port	
Audio Input	Built-in Mic
Wi-Fi	Yes
USB	Type-C
Power	
Power Supply	Built-in lithium batteries
Battery Capacity	6,000 mAh
Battery Type	Rechargeable
Power Consumption	≤4 W
Operating Time	≥5.5 h
Charging Time	≤3 h (desktop charging)
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	2 m (6.56 ft)
Structure	
Product Dimensions	244.9 mm × 103 mm × 104.9 mm (9.64" × 4.06" × 4.13") (L × W × H)
Packaging Dimensions	430 mm × 295 mm × 145 mm (16.93" × 11.61" × 5.71") (L × W × H)
Net Weight	≤0.65 kg (1.43 lb)
Gross Weight	≤4 kg (8.82 lb)

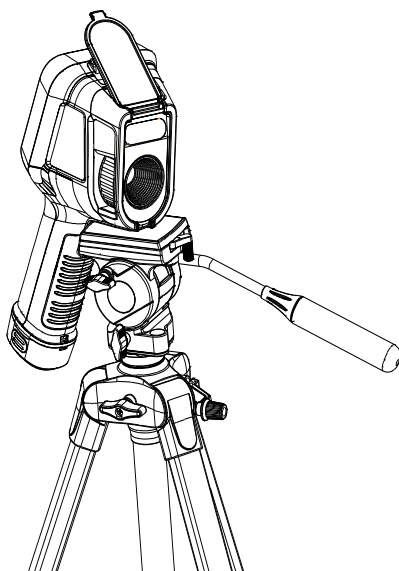
Lens	Included
Accessory	Second battery; twin bay desktop charger; desktop charger adapter; type-C cable; sun visor; wristband; Micro SD (64 G) card
Bracket	Tripod (optional)

Ordering Information

Type	Model	Description
HS45 Thermal Imaging Camera	PFI-HS45	Thermal Imaging Camera

Installation

Tripod Mount



Dimensions (mm[inch])

