INSTRUMENTS
TECHNO TEST

Guide



Thermal

Fast On-Site. Thermal Insight.

FAST Series Advanced Thermal Camera

Introduction

FAST Series advanced thermal cameras are built around one design principle — efficiency — combining clear imaging, fast response and accurate measurement throughout the inspection workflow to reduce waiting time and manual effort. A high-sensitivity detector and real-time super-resolution imaging technology deliver clear thermal images, while a new-generation platform and AI recognition enable fast, responsive operation — helping you get reliable results faster.

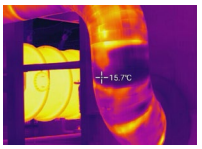
Features

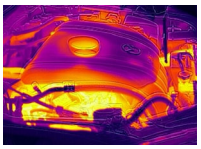
- Real-time 4× super-resolution for finer thermal detail
- 50 Hz high image frequency for smooth capture of fast-moving targets
- MIX mode highlighting thermal anomalies while preserving scene detail
- Large 4.1-inch display for viewing more thermal and measurement data at a glance
- Multiple AI scene modes, including automatic electrical-terminal recognition
- Built-in 40 m laser rangefinder, measuring temperature and distance in one step
- USB-C fast charging, reaching 90% in approximately 1.5 hours
- Android 15.0 for smooth operation and fast response

Applications


Electrical Detection


Equipment Maintenance


Building & HVAC Diagnostics


Automotive Inspection

*F2: 30 Hz; laser rangefinding not supported.

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Specifications

Model	F2	F3	F4	F6
Imaging and Optics				
Core Technology	Powered by the complete ApexVision S1 architecture—the ApexCore S1 detector, Nexus 1.0 platform, and SharpIR 2.0 algorithm.			
Detector Type	Uncooled VOx detector, 7.5 to 14 μm			
IR Resolution	256×192 @ 12 μm	320×240 @ 12 μm	480×360 @ 12 μm	640×480 @ 12 μm
Super Resolution	Up to 512×384	Up to 640×480	Up to 960×720	Up to 1280×960
NETD	⩽15 mK (@30°C)			
Image Frequency	30 Hz / 9 Hz	50 Hz / 9 Hz		
Focal Length	5.3 mm	5.1 mm	7.7 mm	10.2 mm
Field of View	33°×25°	43°×32°		
IFOV	2.25 mrad	2.34 mrad	1.56 mrad	1.17 mrad
Min. Focus Distance	0.15 m			
D:S	444:1	427:1	641:1	855:1
Focus Mode	Manual Focus			
Digital Zoom	1× / 2× / 4×	1× / 2× / 4× / 8×		1× / 2× / 4× / 8× / 10×
Measurement and Analysis				
Measurement Range	Automatic range switching: -20°C to 150°C; 0°C to 650°C			Automatic range switching: -20°C to 150°C; 0°C to 800°C
Accuracy	±2°C or ±2%, whichever is greater			
Measurement Tools	7 Measurement Tools in Total (Spots/Lines/Areas)	9 Measurement Tools in Total (Spots/Lines/Areas)	12 Measurement Tools in Total (Spots/Lines/Areas)	18 Measurement Tools in Total (Spots/Lines/Areas)
Alarm	On-Screen / Audible / Flash Alarm			
Others	Isotherm	Isotherm, Area Measurement		
Image Display				
Display	4.1″ LCD touchscreen, 800×480			
Image Modes	IR, VIS, MIF, PIP, MIX			
Color Palettes	8 Preset		10 Preset	12 Preset
Image Adjustment	Level and Span: Auto, Semi-Auto, Manual, Local Dimming			
Digital Camera	8 MP			
Functions				
Laser	Laser Pointer	Laser Pointer; Laser Rangefinder: 0.1–40 m		
Capture	Photo and Video			
Cloud Services	Supported			
Others	OTA Update			
Storage and Transmission				
Storage Media	Built-in 64 GB; microSD card up to 256 GB (64 GB card included with F4/F6)			
Image File Format	JPEG (radiometric)			
Video File Format	MP4 (non-radiometric, with audio); IRGD (radiometric)			
Interfaces	USB-C, microSD Card Slot, Tripod Socket			
Wi-Fi	Supports image and real-time video transmission to mobile devices			
Bluetooth	Bluetooth 5.0; supports image transfer to Android devices only			
Power System				
Battery Type	Removable rechargeable Li-ion battery			
Operating Time	10 hours	8 hours	6 hours	
Environmental Parameters				
Operating Temp.	-20°C to 50°C			
IP Rating	IP54			
Drop	2 m drop test			
Physical Parameters				
Hardware	Wi-Fi, LED Light, Microphone, Speaker, GPS			
Weight	665 g (including battery)	720 g (including battery)		
Dimensions	110×107×252 mm			
Supported Software	PC: ThermoTools; Mobile: FocusIR (iOS/Android)			
Package Contents	Thermal Camera, 2 × Li-ion Batteries, Fast Charging Adapter with Plugs, USB-C to USB-C Cable, Wrist Strap, Carrying Bag, Quick Start Guide, Factory Inspection Report, Calibration Certificate, Warranty Card		Thermal Camera, 2 × Li-ion Batteries, Desktop Charger, Fast Charging Adapter with Plugs, USB-C to USB-C Cable, 64 GB microSD Card, Wrist Strap, Carrying Bag, Hard Protective Case, Quick Start Guide, Factory Inspection Report, Calibration Certificate, Warranty Card	
Optional Accessories	Li-ion Battery, Docking Station, Desktop Charger, 64 GB microSD Card, Hard Protective Case, Tripod		Li-ion Battery, Docking Station, Tripod	

* Product performance is based on testing in a controlled laboratory environment. Your test results may vary due to several external and environmental factors.

All specifications are subject to the actual product. The manufacturer reserves the right to modify technical specifications without notice or liability to you.