

Acoustic with Thermal, All-in-One

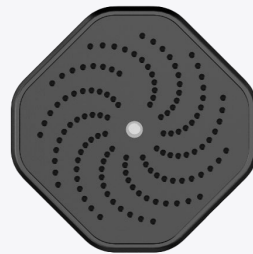
FA Series Acoustic & Thermal Imaging Camera

The FA Series integrates acoustic imaging and thermal imaging technologies. It features 128 high-precision microphones, a 640×512 infrared detector, an ultra-large 10.1-inch touchscreen, and the internal and external battery solution. The FA Series is designed to quickly detect temperature anomalies, locate gas leaks and identify partial discharge, offering efficient detection solutions for industries such as power, manufacturing, and petrochemicals.



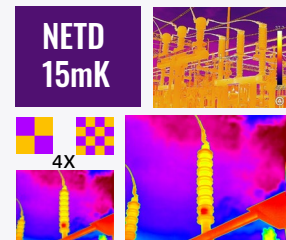
Touch to control

10.1-inch capacitive touchscreen, 1920×1200 resolution, comfortable viewing and easy operation.



High-precision acoustics

128 MEMS microphones in a spiral array, accurately capturing sound sources up to 130m.



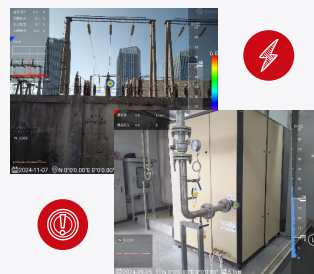
Accurate temperature measurement

640×512 thermal detector, visualized temperature measurement with professional analysis functions.



Modular design

Hot-swappable modules of laser rangefinder, thermal focus-free lens, and auto-focus lens, for multiple scenarios.



Intelligent diagnosis

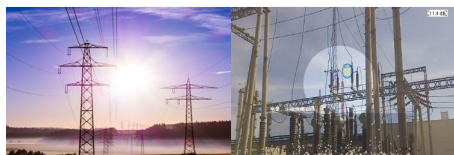
Built-in professional Partial Discharge and leakage detection modes, automatic fault area focusing to enhance detection efficiency.



Uninterruptible power

5 hours of continuous operation, the dual internal and external battery solution supports battery replacement without powering off.

Applications



Power industry

FA611S provides real-time equipment monitoring to detect temperature anomalies, accurately locate partial discharge, and analyze the type, ensuring the equipment operates smoothly.



Manufacturing industry















The complex production environment hinders timely gas leak detection, resulting in energy waste and increased costs. FA611S efficiently locates leaks, optimizing energy usage.








Petrochemical industry

FA611S detects leaks of flammable, explosive, or toxic gases, using acoustic and thermal analysis to quickly identify hazards and provide timely warnings, ensuring production safety.

Standard Package

 Device (acoustic, module optional)	 Customized Batteries ×2	 Desktop Charger	 Power Adapter with Plugs	 SD Card (128GB)
 USB-A to USB-C Cable	 USB-C to USB-C Cable	 Micro HDMI to HDMI Cable	 RJ45 Ethernet Patch Cable	 Docking Station
 Shoulder Strap	 Hand Strap	 Carrying Case	 Safety Box	<ul style="list-style-type: none"> • Quick Start Guide • Inspection Report • Calibration Certificate • Warranty Card

Optional Accessories

 Focus-free Thermal Module	 Focus-free Thermal & Ultraviolet Module
 Autofocus Thermal Module	 Autofocus Thermal & Ultraviolet Module
 Laser Rangefinder Module	<ul style="list-style-type: none"> • Tripod • Bluetooth Earphones

Software



PC Software – ThermoTools

(Windows)

- Infrared Image Analysis: Supports DIY analysis areas and batch processing.
- Acoustic Image Analysis: Automatically recognizes acoustic spectra and generates reports.
- Video Analysis: Frame-by-frame analysis, dynamically displays temperature changes.
- Report Generation: Multiple report templates with customizable layouts and one-click export.



Mobile App – FocusIR

(iOS/Android)

- Real-time Preview: Real-time video streaming, instant preview on mobile phone.
- Remote Control: Sending control commands, such as focusing, recording photos/videos.
- Image Editing: Supports editing analysis objects, modifying information, and adding notes.
- Report Generation: Supports generating PDF reports, with options for emailing, sharing, and printing.

Specifications

Product model	FA611S
Acoustic Sensor	
Microphone array	128 low-noise MEMS microphones
Bandwidth	0 kHz to 65 kHz, Adjustable range
SPL range	0~120 dB
Frame rate	30 Hz
Thermal Sensor (Thermal module required)	
Detector type	VOx, 640×512@12μm
Focal length	13mm/17.7mm
Measurement range	Support auto-switching: -40°C to 150°C, 0°C to 650°C
Measurement accuracy	±2°C or ±2%, whichever is greater
Image display	
Display screen	10.1" LCD, touch screen, 1920×1200
Digital camera	13MP
Others	
Laser	Support laser indication, laser ranging range of 0.1m to 35m
Operating time	Built-in battery + External battery: 5 hours
Weight	1.88kg to 2.18kg (with built-in battery)
Size	309×243.5×74mm/309×243.5×100mm