

One Device, Total Industrial Insight

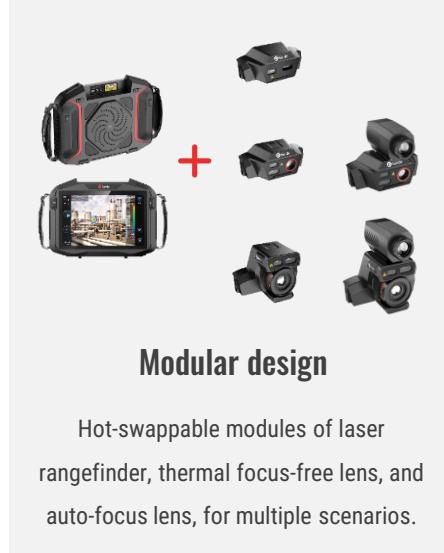
FA Series Acoustic – Thermal – UV Camera

The FA Series Imager integrates infrared, acoustic, and ultraviolet technologies. Equipped with 128 high-precision microphones, a 640×512 infrared detector, and a 720×576 ultraviolet module, it features a 10.1-inch touchscreen and supports both internal and external battery power. This device enables rapid detection of temperature anomalies, precise location of gas leaks, and identification of partial discharges. It delivers efficient inspection solutions for the power, manufacturing, and petrochemical industries.



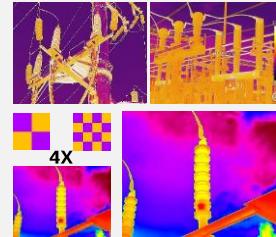
Touch to control

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



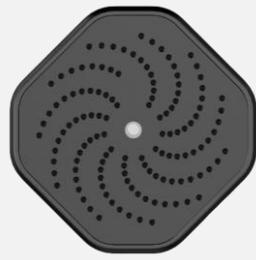
Modular design

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



Accurate temperature measurement

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



High-precision acoustics

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



Ultra-sensitive ultraviolet sensing

Full solar-blind characteristic enables high-sensitivity partial discharge detection, paired with 13MP visible-light imaging for defect localization.



Uninterruptible power

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

Applications



Power industry

FA611 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. FA611 efficiently locates leaks, optimizing energy usage.



Petrochemical industry

FA611 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 $\times 2$



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

- Quick Start Guide
- Inspection Report
- Calibration Certificate
- Warranty Card

UV Module Accessories Optional Accessories



Focus-free Thermal & Ultraviolet Module



Laser Rangefinder Module



Focus-free Thermal Module



Autofocus Thermal & Ultraviolet Module



Autofocus Thermal Module

- Tripod
- Bluetooth Earphones

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: 4 hours
Weight		1.7kg to 2kg (with built-in battery)
Size		309×243.5×74mm/309×243.5×100mm

UV Specifications

Product model		FA611S
UV Sensor		
UV sensitivity		5e-16W/cm ²
Response band		200nm~340nm
Minimum discharge sensitivity		1pc@10m
Field of View (FOV)		20° (H) ×15° (V)
Focus		Autofocus
Imaging distance		0.5~∞
Image Frequency		25Hz
Image display		
Image Modes		IR、MIF、IR、PIP、UV
Corona Glow		Customizable, supports opacity settings
Weight		
Ultraviolet Module		324.0g
Focus-free Thermal & Ultraviolet Module		597.5g
Autofocus Thermal & Ultraviolet Module		798.5g

Software



PC Software – ThermoTools
(Windows)



Mobile App – FocusIR
(iOS/Android)