

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.



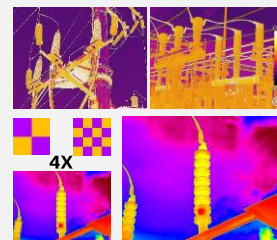
Touch to control

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



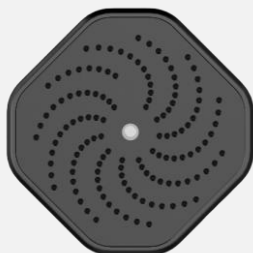
Modular design

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

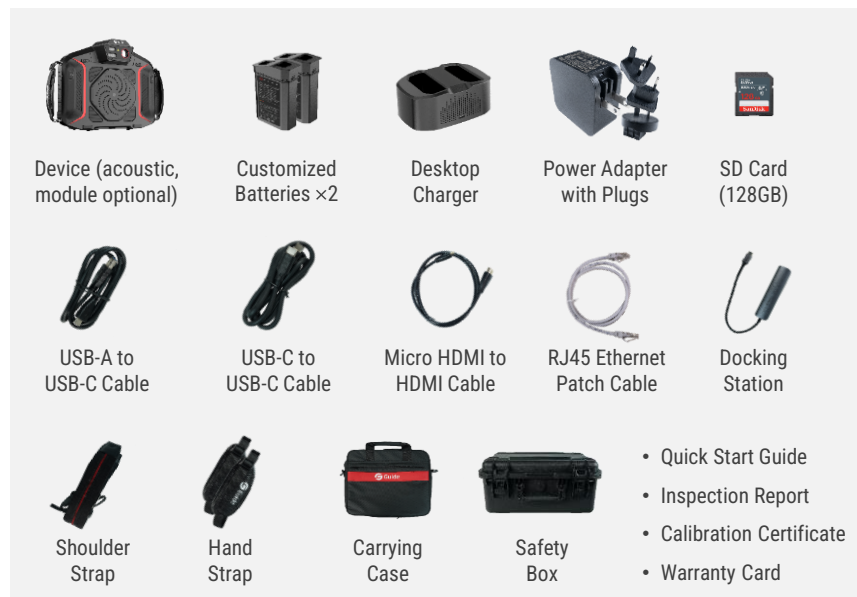
The complex production environment hinders timely gas leak detection, resulting in energy waste and increased costs. FA611 efficiently locates leaks, optimizing energy usage.



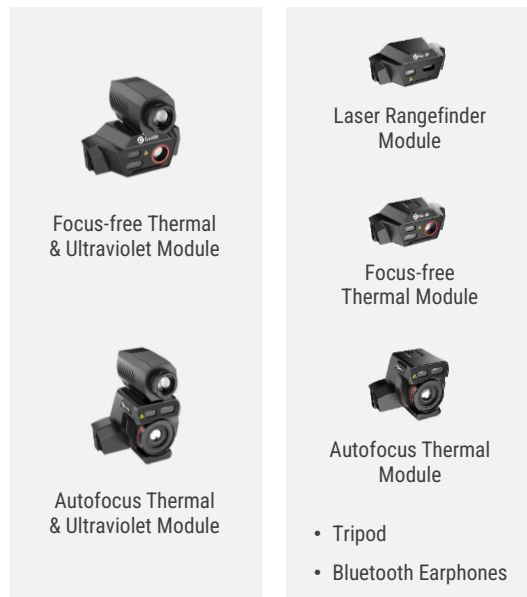
Petrochemical industry

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



UV Module Accessories Optional Accessories



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/cm²
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)