Flir Si2a-Pro



COMPREHENSIVE ASSET CONDITION MONITORING

The Flir Si2a-Pro is a fixed-mount acoustic imaging camera designed for continuous monitoring of compressed air and gas leaks, as well as partial discharge events in electrical assets.

Built for utilities, industrial facilities, and energy-intensive operations, the Si2a-Pro delivers always-on visibility into developing issues that can impact efficiency, reliability, and uptime. By continuously monitoring critical assets and capturing intermittent events that periodic inspections often miss, it helps maintenance teams identify problems earlier and take action before they escalate.

Integrated with Flir AssetLink™, the Si2a-Pro combines acoustic imaging with AI-enhanced analysis to provide actionable insights into asset health. Whether deployed as a standalone monitoring solution or as part of a broader condition monitoring strategy, it helps organizations move from reactive maintenance toward a more proactive, data-driven approach.

The Si2a-Pro also complements Flir's handheld acoustic imaging cameras and handheld or fixed thermal monitoring solutions, helping organizations build a more comprehensive view of asset health across critical infrastructure and industrial operations.



Rugged and industrial-ready with IP66 protection and VESA mounting, the Si2a-Pro is designed for permanent installation in demanding environments. AI-enhanced detection, configurable alarms, and flexible connectivity options including PoE, Wi-Fi, TCP/IP, MQTT, SMTP, and FTP help simplify deployment and integration into existing maintenance workflows.

FLIR®

Key Values

One Solution. Multiple Asset Insights.

- Fixed-mount acoustic imaging for continuous monitoring of compressed air and gas leaks and partial discharge
- Provides continuous visibility into developing asset issues that can impact reliability and operational efficiency
- Captures intermittent events that periodic inspections often miss
- Configurable monitoring zones and alarm thresholds for unattended operation
- Helps reduce downtime, energy waste, and maintenance costs through earlier detection

Built for Demanding Environments

- IP66-rated for demanding utility and industrial environments
- Install-and-monitor design reduces unnecessary site visits
- Supports safer decision-making through remote monitoring of critical assets
- Designed for long-term deployment across multiple facilities

Integrates Into How You Work

- AI-enhanced detection and classification for fast, confident decision-making
- Integrates with AssetLink™ for centralized monitoring, event management, and asset insights
- Supports SCADA and alarm systems through 4–20 mA current loop and digital I/O
- TCP/IP-enabled and RTSP-capable with MQTT, SMTP, and FTP event actions
- Operates as a standalone solution or as part of a wider condition monitoring ecosystem

Primary Market

Utilities and industrial organizations responsible for electrical infrastructure, compressed air systems, manufacturing assets, and critical production equipment where reliability, energy efficiency, and uptime are business priorities.

Secondary Market

Power generation, energy storage, process industries, chemical plants, data centers, and large-scale facilities seeking continuous visibility into both electrical and mechanical asset health.

- Detects, locates, classifies, and assesses partial discharge events
- Detects and quantifies compressed air and gas leaks at distance
- Power over Ethernet and Wi-Fi connectivity for flexible installation
- Alarm-driven workflows notify teams when thresholds are exceeded
- Compatible with Flir handheld acoustic imaging cameras and thermal monitoring solutions for a comprehensive asset health strategy
- Accessories available including dust cover, Ethernet cables, and PoE injector

Quick Specs
PD type recognition: Surface or Internal Discharge, Positive and Negative Corona, Floating Discharge
Leak detection threshold: Down to 0.0032 l/min
Operating distance: Up to 200 m (656 ft)
Bandwidth: 2–130 kHz
IP66 protection
PoE and Wi-Fi connectivity
TCP/IP and RTSP capable

Additional features

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