

SonicView X

Fixed acoustic imaging system for continuous gas leak detection

Continuous 24/7 gas leak monitoring

Instant leak rate estimation

Alert creation based on location, rate and duration



Technical specifications

Detection technology

- Acoustic imaging

Sensor

- Ultrasonic microphone array
- Optical camera

Detection range: Up to 20 m (typical)

Detection angle: 180°

Response time: 1 second

Protection rating: IP65

Weight: 1.5 kg

Power supply:

- 24 VDC (20–28 VDC)
- PoE 802.3at, Class 4

Maximum power consumption: 20 W

Industrial communication:

- Ethernet
- OPC-UA
- RTSP (video stream)

Relay outputs:

2 relays (fault / alarm)

Operating temperature:

- -20 °C to +50 °C

Compliance & Certifications

- IEC/EN 61010-1
- Directive CEM 2014/30/UE
- Directive RED 2014/53/UE
- RoHS III
- ATEX / IECEx (approval pending)

Accessories

- Swivel mount DS-AMBI (included)
- U-bolt adapter plate DS-URP1 (included)
- Wi-Fi or LTE antenna (optional)
- SonicRoof protection against rain and snow

Warranty: 2 years

Product description

The **SonicView X** is a fixed acoustic imaging system designed for continuous 24/7 monitoring of gas leaks in industrial environments and ATEX zones.

By combining an ultrasonic microphone array with an integrated optical camera, it can instantly locate, visualize and quantify leaks up to 20 meters away.

An ideal solution for sensitive sites, petrochemical installations, offshore platforms and process industries, the **SonicView X** transforms gas leak detection into an intelligent automated monitoring system with cloud connectivity.

► Points clés

The **SonicView X** ensures continuous 24/7 gas leak monitoring in industrial environments. It enables leak detection and localization up to 20 meters using combined acoustic imaging and integrated optical camera technology.

The system instantly estimates leak rates and generates intelligent alerts based on location, intensity and event duration. It also allows incident playback via time-stamped video logs to facilitate analysis and tracking.

► Operation

The **SonicView X** detects ultrasounds generated by pressurized gas leaks, regardless of gas type.

Unlike traditional concentration-based detectors, it does not require calibration gas or recalibration for a specific target gas.

The system analyzes:

- Exact leak position
- Acoustic intensity
- Event duration
- Estimated leak rate

Alerts are configurable via a secure web interface.

► Typical Applications

The **SonicView X** is particularly suited for refineries and petrochemical sites, industrial gas installations, critical compressed air networks and power plants.

It is also suitable for offshore platforms and ATEX zones requiring permanent monitoring, where fast and reliable leak detection is essential to ensure installation safety and operational continuity.



► Continuous Monitoring of Industrial Installations

The system provides continuous 24/7 monitoring of industrial infrastructures, even in complex or hard-to-access environments such as:

- refineries
- petrochemical installations
- industrial gas networks
- power plants
- offshore platforms

This continuous monitoring helps enhance installation safety, reduce gas losses, and minimize unplanned production downtime.



► Advanced Event Analysis

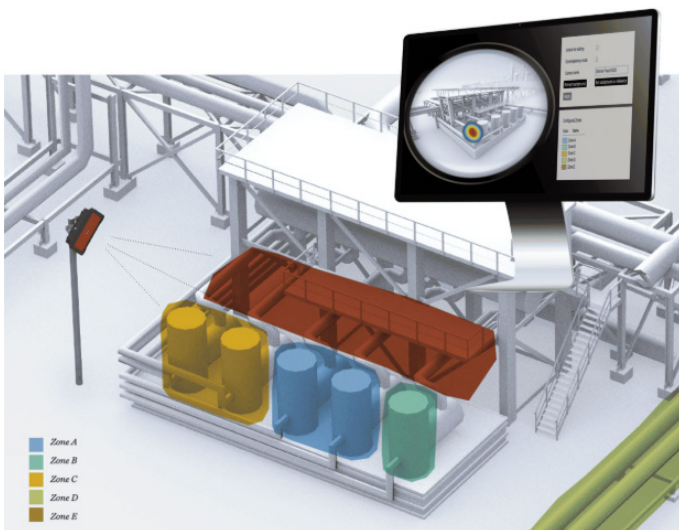
The SonicView X does more than simply detect a leak, it continuously analyzes acoustic events to provide a precise understanding of the situation.

The system automatically analyzes:

- the exact location of the leak
- the acoustic intensity generated by the escaping gas
- the duration of the event
- the estimated leak rate

This information enables the system to generate intelligent, contextualized alerts based on the location and severity of the event.

As a result, teams can prioritize interventions and respond quickly to secure the installation.



► Area Coverage and Monitoring

Thanks to its wide detection field and a range of up to 20 meters, a single SonicView X system can efficiently monitor a large industrial area.

With a 180° detection angle, the system provides:

- extended coverage of installations
- rapid leak detection
- immediate response in case of anomalies

This capability allows continuous monitoring of critical equipment while reducing the number of sensors required on site.