AcSoft
Noise • Vibration • Air Quality

CRYSOUND

CRY 8125

The First Acoustic Imager with ATEX and IECEx

TÜV - Certified



Product Information

CRYSOUND introduces the new CRY8125 EX Acoustic Imaging Camera, **certified by TUV** and complaint with standards for use in explosive atmospheres.

With advanced capabilities, the CRY8125 redefines industrial inspection by precisely locating leaks, identifying partial discharges and detecting mechanical wear.

Fully certified under **IECEx and ATEX**, and compliant with **IEC 60079-0 and IEC 60079-11**, the CRY8125 is engineered for safe operation in explosive atmospheres.



TUV-Certified IECEx & ATEX Zone 2 Certified

The CRY8125 is TUV-Certified under IECEx and ATEX and meets IEC 60079-11 and 60079-0 standards. It can be used for gas leak detection and explosive gas and dust atmospheres. The marking is The Ex marking is: II 3 G Ex ic IIC T5 Gc / II 3 D Ex ic IIIC T100°C Dc.

28-Day Extreme Reliability Testing for The Maximum Protection

The CRY8125 endures 28 days of 90% humidity, 90°C heat and -25°C cold, followed by drop tests, yet retains its IP54 rating. Its energy limiting circuit and rugged housing ensure safe reliable use in explosive atmospheres.

Integrated Testing, Analysis, and Reporting

The integrated workflow of the CRY8125 - from image capture and analysis to report generation - significantly improves the efficiency of gas leak detection, ensuring safer, more reliable daily operations.

Comprehensive Hardware Configuration

Bluetooth and Wi-Fi enables direct data transmission to local devices. Up to 4 IEPE sensors can be added to the system, enabling complex detection scenarios and allowing for future expansion

Detect Gas Leaks in Explosive Atmospheres

The CRY8125 can detect any type of gas leaks - such as natural gas, hydrogen and CO - in explosive atmospheres. It also qualifies leak rates and estimates economic losses in real time, enabling fast analysis and maintenance decision making.

Applications



Oil Industry

Detect hazardous gas leaks such as H_2S, CH_4, and VOCs, helping to eliminate potential safety risks



Natural Gas Industry

Direct leaks in critical infrastructure such as gas pipelines and storage tanks, helping to eliminate potential safety hazards & losses.



Chemical Industry

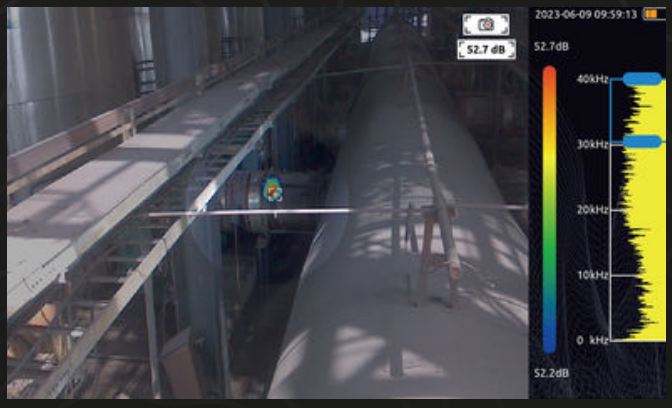
Detect leaks of Cl2, H2, N2, steam and other gases through non contact detection, ensuring safe efficient operation



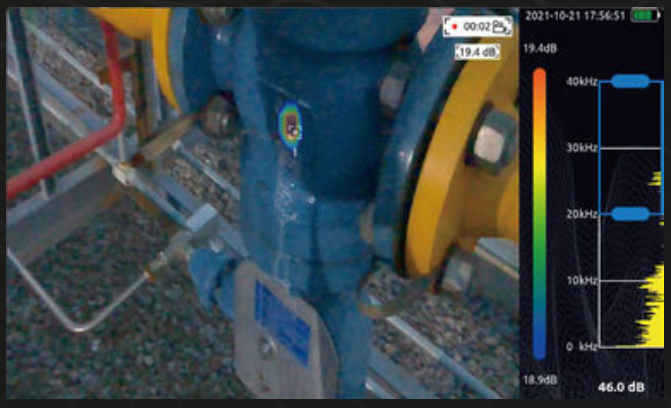
Gas Power Industry

Detect gas leaks in pipelines and tanks, as well as partial discharges in equipment like transformers, enabling fast detection of leaks.

Case Studies



A coal chemical enterprise detected a gas leak in an overhead pipeline using the CRY8125 EX Acoustic imaging camera, which could not be identified by traditional methods



A natural gas storage station used the CRY8125 Ex Acoustic Imaging camera to detect gas pipeline leaks, identifying 8 leak points within one minute

Technical Specifications

Specifications

Microphone Array	200 MEMS Microphones
Frequency Range	2kHz - 100kHz
SPL Range	28 - 132 dB
Minimum Detectable Leak	10 m: 0.0022 L/min, 5.6 bar 0.5 m: 0.0015 L/min, 5.6 bar
Test Distance	0.2 - 240 m (1 - 787 ft)

Camera

Camera FOV	120°(D) 94°(H) × 76°(V)
Focal Length	2.3 (0.09 inches)
Camera Pixel	13M pixel
Digital Zoom	1x - 6x
Fill Light	4 x LED

Display

Resolution	1920 x 1200
Size	8 Inches
Touchscreen	Capacitive Touchscreen
Brightness	600 nits, supports auto and manual adjustment

Storage

Storage	64GB internal, 64GB external microSD card
Data Format	.jpg (picture) .mp4 (video) .wav (audio) .cdat (data)
Video Length	5 Minutes
Data Export	USB-C, WiFi, microSD card

Display

Battery Capacity	6600mAh @ 7.2V
Battery Type	Smart battery with indicator, replacement
Battery Life	Up to 5 hours

Specifications

Size	270 x 190 x 51mm (10.6 x 7.5 x 2.0 inches)
Weight	1.5 kg (3.31 lbs)
Wi-Fi	802.11 a/b/g/n/ac
Bluetooth	BT 5.2
GNSS	GPS + BDS + GLONASS + GALILEO + QZSS

Certifications

Safety	IEC 61010-1
EMC	IEC 61326-1
Vibration	2g, IEC 60068-2-6
Shock	25g, IEC 60068-2 27
Drop Test	1.2m (4ft)
Ex Marking	II 3 G Ex ic IIC T5 gc II 3 D Ex ic IIIC T100°C Dc

Software

Functions	Multi-point imaging, directional focus, distance measurement, leak volume estimation, PRRD spectrum, partial discharge type recognition, picture labelling, report export, etc

Hardware Ports

USB-C 1	USB 3.0 for charging, HDMI and Data Export
USB-C 2	USB 2.0 for USB Sensor
3.5mm audio jack	Headphone output
MicroSD Card Slot	External Storage
Analog Input	4 Channels, 20-100kHz, IEPE, phantom power supply

Language

Language	Chinese, English, Korean, French, Japanese, Russian, German, Italian, EU Spanish, Portuguese, Hungarian, Dutch, Cambodian, Vietnamese, Turkish, Polish