



CRY2624 ACOUSTIC IMAGER

CRY2624 Industrial Acoustic Imager is suitable for use in explosion-proof scenarios in chemical and energy industry. The device adopts the aluminum alloy shell, which is sturdy and durable, and can adapt to the complex and changeable working environment. Real-time sound image display, helping the detection of pressurized or vacuum leaks significantly faster compared to other previous methods.

CRY2624 only needs to adjust the two parameters of the test frequency range and the test dynamic range to meet the vast majority of test requirements.

The device supports camera mode, video mode, and flexible on-site data recording. The large-capacity TF data storage card can be expanded, and the test results can be quickly exported and reported.

It can help enterprises to reduce losses caused by gas leakage, partial discharge and other accidents.

High-Performance Microphones for Efficient Detection With ATEX Certification

128 digital MEMS microphones can provide exceptionally high sensitivity, sound resolution and detection accuracy, real-time audio-visual display, anti-jamming, help detection.

Leakage Assessment

By activating the leak measurement function, the camera continuously displays the amount of leaks and losses as well as the level of loss.

PD Detection & PD Type Identification

Partial discharges can be detected before more serious faults would occur, even before a thermal camera would detect them.

Analytics And Reports

Template-based processing and recording of data, waveforms, spectra, spectrograms is supported by CRY SOUND report analysis tool software, generating ISO 50001 compliant, editable protocols in Excel format.

▲ Technical Specifications

Acoustic Specification

Microphone array	128 channels MEMS microphone
Effective test bandwidth	2kHz-48kHz
Dynamic range	0.5dB-12dB user adjustable

Test sound pressure level range	25.7-132.5dBA
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Auto max/min dB gain	User-settable, minimum test bandwidth 1kHz
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Number of digits	24bit
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Sound image FOV	62°
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Sound image frame rate	25 FPS
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Leak detection rate	10m 5bar 0.92ml/s 0.5m 5bar 0.55ml/s
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Detect distances	0.3m-120m
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Camera

Camera FOV	62°
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Camera focal length	3.04mm fixed focal length
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Camera pixel	8 MP
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Display

Resolution	1024*600 (614,400 pixels)
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Size	7 inch
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Touch screen	Capacitive touch screen
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Brightness	Adjustable
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Photo notes	Up to 5 photos notes for reference
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Source	Show single or multiple sources
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Standard palettes	3: Grayscale, Ironbow, Blue-Red
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Playback function	View photos, videos anytime, and add notes or tags
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Storage

Internal storage	8GB
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External storage	TF memory card, 64G, expandable to 256G
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Data storage format	.jpg (Picture) , .mp4 (Video) and .wav (Audio)
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Video length	5 minutes
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Digital export	TF Card
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Power

Battery capacity	1×6600mAh@7.2V Rechargeable battery, Supports external battery
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Battery life	4+6 hours operation time
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Charger	USB Type-C port, USB PD protocol supported, 15W
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Power consumption	15W for battery charge; 29W for maximum power consumption
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Energy management	Sleep/Auto power off modes
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Interface

USB 3.0 Type-C USB host port

3.5mm headphone socket

Operating Environment

Operating environment	-20°C- +50°C, 10%-95% no condensation
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Storage temperature	-20°C - +60°C
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Charging temperature	10°C - +45°C
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General Specification

Ingress Protection (IP)	IP54
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Size	272mm×174mm×42mm
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Weight	1.7kg
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Warranty	2 years
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Self-diagnostic notification	Array-health test function to identify when microphone array needs attention
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System	Linux system
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Certification

ATEX, CE, FCC, RoHS-compliant, MSDS

Supported Language

English, French, Chinese, German, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish

Software

Report types	Gas/Electricity, ISO 50001-compliant
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Analysis	Waveform, Spectrum, Spectrogram, leakage assessment, discharge type discrimination
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