CRYSOUND

CRYSOUND IMAGER
DATASHEET CRY2624



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 CRYSOUND report analysis tool software, generating ISO 50001 compliant, editable protocols in Excel format.

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▲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
Auto max/min dB gain	User-settable, minimum test bandwidth 1kHz
Number of digits	24bit
Sound image FOV	62°
Sound image frame rate	At least 25 FPS
Leak detection rate	10m 5bar 0.92ml/s 0.5m 5bar 0.55ml/s
Detect distances	0.3m-120m
Camera	
Camera FOV	62°
Camera focal length	3.04mm fixed focal length
Camera pixel	8 million pixel
Display	
Resolution	1024*600 (614,400 pixels)
Size	7 inch
Touch screen	Capacitive touch screen
Brightness	Adjustable
Photo notes	Up to 5 photos notes for reference
Source	Show single or multiple sources
Standard palettes	3: Grayscale, Ironbow, Blue-Red
Playback function	View photos, videos anytime, and add notes or tags
Storage	
Internal storage	About 8G
External storage	TF memory card, at least 64G, expandable to 256G
Data storage format	.jpg（Picture）, .mp4（Video）and .wav (Recording)
Video length	5 minutes
Digital export	TF Card

Power	
Battery capacity	1×6600mAH@7.2V Rechargeable battery and 1×external battery package, continuous
Battery life	4+6 hours operation time
Charger	USB Type-C port, USB PD protocol supported, 15W
Power consumption	15W for battery charge; 29W for maximum power consumption
Energy management	Sleep/Auto power off modes
Interface	
USB 3.0 Type-C USB host port	
3.5mm headphone socket	
Operating Environment	
Operating environment	-20℃- +50℃, 10%-95% no condensation
Storage temperature	-20℃ - +60℃
Charging temperature	10℃ - +45℃
General Specification	
Ingress Protection (IP)	IP54
Size	272mm×174mm×42mm
Weight	1.7kg
Warranty	2 years
Self-diagnostic notification	Array-health test function to identify when microphone array needs attention
System	Linux system
Certification	
ATEX, CE, FCC, RoHS-compliant, MSDS, CNEX	
Supported Language	
English, French, Chinese, German, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish	
Software	
Report types	Gas/Electricity, ISO 50001-compliant
Analysis	Waveform, Spectrum, Spectrogram, leakage assessment, discharge type discrimination