



## 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.

### 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	
Effective test bandwidth	microphone 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 0.3m-120m			
Detect distances				
Camera				
Camera FOV	62°			
Camera focal length	3.04mm	fixed	focal	
Camera pixel length	8 million pixel			
Display				
Resolution	1024*600 (614,400 pixels)			
Size	7 inch			
Touch screen	Capacitive touch screen			
Brightness	Adjustable			
Photo notes Source	Up to 5 photos notes for reference Show single or multiple			
Standard palettes	sources			
Playback function	3: Grayscale, Ironbow, Blue-Red 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) 5 minutes			
Video length	TF Card			
Digital export				

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°C - +50°C, 10%-95% no condensation
Storage temperature	-20°C - +60°C
Charging temperature	10°C - +45°C
General Specification	
Ingress Protection	IP54
(IP) 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