## 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

Microphone array128 channels MEMS microphoneFifective test bandwidth2kHz-48kHzDynamic range0.5dB-12dB user adjustableTest sound pressure\$c3-7.132.5dBAAuto max/min dB gainUser-settable, minimum test bandwidth 1kHzNumber of digits24bitSound image FOV62°Sound image FOW0.3m 52B or.92mJ/s 0.3m 5bar 0.92mJ/sDetect distances0.3m 120mDetect distances0.3m 120mCamera FOV62°Camera for8.10lion pixelGamera for1024*600 (614,400 pixels)Size7 inchFaslution1024*600 (614,400 pixels)Size7 inchFourder1010 pixelFourder1010 pixelPhoto notes0.3r space or nutliple sourcesFourder1010 sourcesFourder1010 sourcesFourder1010 sourcesFourder1010 sources or tageFourder1010 sources or tageFourder	Acoustic Specification	1
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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 Ty	/pe-C USB host port	
3.5mm h	eadphone socket	
Operating Environme	ent	
Operating environment	-20°C- +50°C, 10%-95% no condensation	
Storage temperature	-20°C - +60°C	
Charging temperature	10°C - +45°C	
<b>General Specification</b>	1	
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

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