## CRYSOUND

#### ACOUSTIC 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.

# CRYSOUND

### ▲ Technical Specifications

Microphone array128 channels MEMS microphoneEffective test bandwidth2kHz-48kHzDynamic range0.5dB-12dB user adjustableTest sound pressure level range2s7-132.5dBAAuto max/min dB gainUser-settable, minimun test bandwidth 1kHzNumber of digits42bitSound image FOV62°Sound image FOV0.5m Sbar 0.92mL/s 0.5m Sbar 0.55mL/sDetect distances0.3m-120mDetect distances0.3m-120mCamera FOV62°Camera focal length3.04mm fixed focal lengthGamera focal length3.04mm fixed focal lengthGamera focal length1024*600 (614,400 pixels)Size7 inchFouch screen101 spalayPhoto notes7 inchFourderSirospar 0.5ml/sPhoto notes9.04 spixels on sourcesFuergetSindwingle or multiple sourcesFuergetSindwingle or multiple sourcesPhoto notes9.04 spixels on stagePhoto notes9.04 spixels on stagePhoto notes9.04 spixels on stageFuergetSindwingle or multiple sourcesSource9.05 spixels on stagePhoto notes9.05 spixels on stagePhoto notes9.05 spixels on stagePhoto notes9.05 spixels on stagePhoto notes9.05 spixels on stageSource9.05 spixels on stagePhoto notes9.05 spixels on stagePhoto notes9.05 spixels on stagePhoto notes9.05 spixels on stageS	Acoustic Specification	ı
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Power	
Battery capacity	1×6600mAH@7.2V Rechargeable battery, Supports external battery
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 T	ype-C USB host port
3.5mm l	headphone socket
Operating Environment	
Operating environment	-20°C- +50°C, 10%-95% no condensation
Storage temperature	-20℃ - +60℃
Charging temperature	10°C - +45°C
General Specification	n
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-com	pliant, MSDS
Supported Language	e
	German, Italian, Japanese, Korean, guese, Russian, Spanish, Swedish
Software	
Report types	Gas/Electricity, ISO 50001-compliant
Applycic	Waveform, Spectrum,

Analysis

Spectrogram, leakage assessment, discharge type discrimination