## CRYSOUND



The CRYSOUND CRY2623 Industrial Acoustic Imager is easy to operate and can be used quickly. 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.

CRY2623 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

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 range25.7-132.5dBAAuto max/min dB gainUser-settable, minimum test bandwidth 1kHzNumber of digits24bitSound image FOV62°Sound image frame rateAt least 25 FPS 10m 5barLeak detection rate0.92ml/s 0.5m 5bar 0.55ml/sDetect distances0.3m-120mCameraCamera FOVCamera focal length3.04mm fixed focal lengthCamera pixel8 million pixelDisplayPossibleResolution1024*600 (614,400 pixels)Size7 inchTouch screenCapacitive touch screenBrightnessAdjustablePhoto notesUp to 5 photos notes for referenceSourceShow single or multiple sourcesSource3: Grayscale, Ironbow, Blue-RedView photos, videos anytime, and add notes or tagsStorageView photos, videos anytime, and add notes or tagsStorageTF memory card, at least 64G, expandable to 256GData storage format.jpg (Picture) , .mp4 (Video) and .wav (Recording)Video length5 minutesDigital exportTF Card	Acoustic Specification	n
Dynamic range	Microphone array	128 channels MEMS microphone
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 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  Brightness  Adjustable  Photo notes  Source  Show single or multiple sources  Source  Standard palettes  Playback function  Storage  Internal storage  About 8G  External storage  Data storage format  Jipg (Picture) , .mp4 (Video) and .wav (Recording)  Video length  5 minutes	Effective test bandwidth	2kHz-48kHz
Auto max/min dB gain  Number of digits  Sound image FOV  Sound image FOV  Sound image frame rate  Leak detection rate  Detect distances  Camera  Camera FOV  Camera focal length  Camera pixel  Display  Resolution  Touch screen  Brightness  Photo notes  Source  Standard palettes  Playback function  Storage  Internal storage  External storage  Display  Leak detection rate  User-settable, minimum test bandwidth 1kHz  Leak detection rate  D.92ml/s  0.92ml/s  0.92ml/s  0.5m 5bar 0.55ml/s  D.92ml/s  0.3m-120m  Camera  62°  Camera focal length  8 million pixel  Display  Resolution  1024*600 (614,400 pixels)  7 inch  Capacitive touch screen  Adjustable  Photo notes  Show single or multiple sources  3: Grayscale, Ironbow, Blue-Red  View photos, videos anytime, and add notes or tags  Storage  Internal storage  About 8G  External storage  Jipg (Picture) , .mp4 (Video) and .wav (Recording)  Video length  5 minutes	Dynamic range	0.5dB-12dB user adjustable
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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 Type-C USB host port		
3.5mm headphone socket		
Operating Environment		
Operating environment	-20℃- +50℃ 10%-95% no condensation	
Storage temperature	-20°C - +60°C	
Charging temperature	10°C − +45°C	
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	CE, FCC, RoHS-compliant, MSDS, CNEX, ATEX (under qualification.)	
Supported Language		
English, French, Chinese, German, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish		
Software		
Report types	Gas/Electricity, ISO 50001-compliant	

Waveform, Spectrum,

Spectrogram, leakage assessment, discharge type discrimination

Analysis