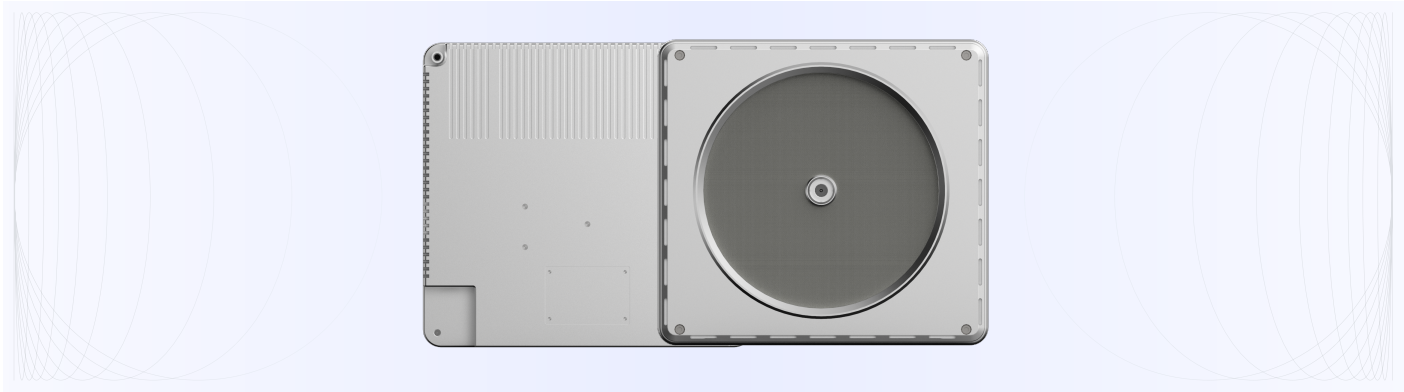




# CRY2623M Fixed Acoustic Imager

## Introduction

CRY2623M Fixed Acoustic Imager uses microphone array beamforming technology to obtain sound source distribution data, and cooperates with high -definition cameras to capture video images in realtime.

CRY2623M can help users realize remote monitoring system based on local network (LAN, WIFI, etc.), wide area network (WAN, ADSL, 4G and private network, etc.),and help users realize industrial digital transformation, and support remote real-time monitoring of video images. As such, this provides facilities with further insight into product quality or safety issues, as well as the ability to rapidly detect them.

## Features

- Gas leak monitoring for critical assets
- PD monitoring & PD type recognition
- IP66 rating
- Real-time fault alarm triggering
- Powerful Web-based software platform

## Highlights

- **24/7 Real-Time monitoring**  
CRY2623M offers continuous, round-the-clock real-time monitoring, which is essential for industries that require constant surveillance of acoustic data and anomalies, such as manufacturing plants, energy facilities, and critical infrastructure.
- **Gas/Vacuum leak detection**  
CRY2623M excels in gas leak detection, offering pinpoint accuracy in locating leaks. By leveraging advanced acoustic technology, it detects the ultrasound emitted by escaping gases, accurately identifying the precise source of the leak.
- **PD localization & PD type recognition**  
Providing advanced capabilities for partial discharge (PD) localization and type recognition, the CRY2623M is essential for evaluating the integrity of electrical insulation in high-voltage equipment.
- **Integration with Robotic Dogs & Wheeled Robots**  
Integrating the CRY2623M with robotic dogs and wheeled robots significantly amplifies monitoring and surveillance capabilities across diverse environments.
- **Powerful, web-based software platform**  
The web-based software platform is engineered to offer robust monitoring and analysis capabilities, facilitating efficient data management and insightful diagnostics. It enables continuous data collection, secure storage, and real-time analysis of acoustic signals.
- **IP66 rating**  
CRY2623M's IP66 rating demonstrates its superior dust and water resistance, making it ideal for harsh industrial environments. This rating guarantees that the device withstands both fine dust and powerful water jets.

## Technical Specifications

| Acoustic Specification          |                              | General Specifications |                                           |
|---------------------------------|------------------------------|------------------------|-------------------------------------------|
| Microphone array                | 128 channels MEMS microphone | Size                   | 183*169*85 mm                             |
| Frequency range                 | 2kHz-48kHz                   | Weight                 | 1.6 kg                                    |
| Dynamic range                   | 0.5dB-12dB user adjustable   | IP rating              | IP66                                      |
| Test sound pressure level range | 28-120dBA                    | Storage                | 8G internal, 64G TF card expansion        |
| Test distance                   | 0.5-50m                      | Operationg enviroment  | -20°C – +60°C, 10%-95% no cond.           |
| Minimum leakage                 |                              | Power Consumption      | 14W                                       |
| Distance to Sound Source(m)     | Leakage CCM(±1)              | Fixed way              | Bottom 1/4 -20 UNC thread/M5 screw fixing |
| 0.5-2                           | 28                           | Fixed way              | Bottom 1/4 -20 UNC thread/M5 screw fixing |
| 2-4                             | 46                           | Port                   | RJ45                                      |
| 4-6                             | 47                           | Software               |                                           |
| 6-8                             | 50                           | Development protocol   | RESTful、websocket、RPC                     |
| 8-10                            | 53                           | Streaming protocol     | RTSP、RTMP、webrtc                          |
| 10-12                           | 66                           | Language               | Chinese, English                          |
| 12-14                           | 70                           | Platform               |                                           |
| 14-16                           | 78                           | Platform               | Web-based platform, VMS software platform |
| 16-18                           | 90                           |                        |                                           |
| 18-20                           | 97                           |                        |                                           |

## Ordering Information

| Name                            | Model       | Describe                                                                                     |
|---------------------------------|-------------|----------------------------------------------------------------------------------------------|
| ATEX Industrial Acoustic Imager | CRY2623     | Applied to gas leakage scenarios, with gas leakage estimation function and PRPD recognition. |
| Acoustic Imaging Camera         | CRY8124     | Detect non-explosive gas leaks and partial discharge.                                        |
| EX Acoustic Imaging Camera      | CRY8125     | IECEX certified                                                                              |
| Ultrasound generator            | IA1101      | Simulate gas leaks or partial discharge for system calibration.                              |
| Thermal imaging camera module   | IA1301/1302 | Resolutions of 384×288 and 640×512 are available.                                            |
| Smart battery pack              | IA2001      | Single battery provides 5h operation.                                                        |
| Smart battery charger           | IA2101      | Charges 1 battery at a time. Lightweight, small size design.                                 |

