



CRY2624M Ex Fixed Acoustic Imager

Introduction

CRY2624M Ex 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.

Certified for explosion protection (II 3 G Ex ec ic IIC T4 Gc, II 3 D Ex tc IIIC T95°C Dc), the device is designed for safe and reliable operation in hazardous environments including petrochemical facilities, power plants, coal-to-chemicals facilities, and natural gas pipelines.

CRY2624M can help users realize remote monitoring system based on local network 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

- II 3 G Ex ec ic IIC T4 Gc
II 3 D Ex tc IIIC T95°C Dc
- Gas Leak Monitoring for Critical Assets
- PD Monitoring & PD Type Recognition
- IP66 Rating
- Real-time Fault Alarm triggering
- Powerful Web-based Software Platform

Highlights

- **Certified For ATEX And IECEx Explosion Protection**
CRY2624M Ex fixed acoustic imager is certified with II 3 G Ex ec ic IIC T4 Gc, II 3 D Ex tc IIIC T95°C Dc, ensuring safe operation in high-risk environments. It supports long-duration continuous operation and features dust- and moisture-resistant design, making it suitable for chemical plants, power stations, coal-to-chemicals facilities, and natural gas pipelines.
- **24/7 Real-Time Monitoring**
CRY2624M 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**
CRY2624M 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 CRY2624M is essential for evaluating the integrity of electrical insulation in high-voltage equipment.
- **Integration With Robotic Dogs & Wheeled Robots**
Integrating the CRY2624M with robotic dogs and wheeled robots significantly amplifies monitoring and surveillance capabilities across diverse environments.
- **IP66 Rating**
CRY2624M'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

Microphone Array	128 channels MEMS microphone
Frequency Range	2 kHz - 48 kHz
Dynamic Range	0.5 dB - 12 dB user adjustable
Test Sound Pressure Level Range	28 - 120 dBA
Test Distance	0.5 - 50 m

Minimum Leakage

Distance to Sound Source (m)	Leakage CCM (± 1)
0.5 - 2	28
2 - 4	46
4 - 6	47
6 - 8	50
8 - 10	53
10 - 12	66
12 - 14	70
14 - 16	78
16 - 18	90
18 - 20	97

Platform

Platform	Web-based platform
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Camera

FOV	62°
Focal Length	3.04 mm
Camera Pixels	8M pixels

General Specifications

Size	183 × 169 × 85 mm
Weight	1.6 kg
IP Rating	IP66
Power Supply	DC 12V
Ex Marking	II 3 G Ex ec ic IIC T4 Gc II 3 D Ex tc IIIC T95°C Dc
Storage	8GB internal storage
Operating Enviroment	-20°C to +60°C, 10% to 95% non-condensing
Power Consumption	7W
Mounting	Bottom 1/4 -20 UNC thread/M5 screw fixing
Port	RJ45
FPS	25

Software

Development Protocol	RESTful, WebSocket, RPC
Streaming Protocol	RTSP, RTMP, WebRTC
Language	Chinese, English

Ordering Information

Name	Model	Describe
Fixed Acoustic Imager	CRY2623M	Detect non-explosive gas leaks and partial discharge.
Ex Fixed Acoustic Imager	CRY2624M	IECEx and ATEX certified for detect non-explosive gas leaks and partial discharge.
ATEX Acoustic Imaging Camera	CRY2624	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 and ATEX certified for detect non-explosive gas leaks and partial discharge.
Thermal Imaging Camera Module	IA1301/1302	Optional accessory: Resolutions of 384 × 288 and 640 × 512 are available.

