



CRY2624 ATEX Acoustic Imaging Camera

Introduction

CRY2624 is a handheld ATEX industrial acoustic imager that supports the ultrasonic frequency range. The device uses microphone array beamforming technology to capture sound source distribution data.

CRY2624 is ATEX certified with a rating of II 3G Ex ic IIC T5 Gc, ensuring safe operation in potentially explosive atmospheres while adhering to stringent safety standards.

CRY2624 is easy and intuitive to operate, allowing quick deployment. It supports both photo and video modes for flexible data recording in the field.

Features

- II 3G Ex ic IIC T5 Gc
- Gas and Vacuum Leak Detection and Leak Rating Assessment
- Real-time Measurement and Display of Acoustic Data
- Partial Discharge Localization and Discharge Type Identification
- Rugged and Durable Design and Materials
- Generate Reports to Share Key Data

Highlights

- **ATEX-certified**
CRY2624 is ATEX-certified, making it ideal for use in explosive environments. This certification guarantees that the device meets rigorous safety standards required for equipment operating in potentially explosive atmospheres, such as those in the oil and gas, chemical, and mining industries.
- **High Efficiency, High Precision, and Long Testing Range**
At a detection distance of 1 meter, the positioning error is within ± 3 mm, with a maximum testing range of up to 150 meters.
- **Gas/Vacuum Leak Detection & Leak Rating**
Using advanced acoustic imaging technology, CRY2624 can quickly detect leaked explosion-proof gases and accurately locate the leak source. CRY2624 is also capable of quantifying the amount of leakage, enabling precise assessment of the economic losses caused by gas leaks.
- **Real-time PRPD Patterns for Efficient Discharge Type Identification**
High-efficiency recognition of surface discharge, suspended discharge, and corona discharge.
- **Robust and Durable, Suitable for Harsh Industrial Environments**
Utilizes an aluminum alloy material with a sturdy structure that can withstand pressure, falls, and other impacts, guaranteeing stable operation in demanding environments.
- **IP54 Rating**
IP54 rating, effectively preventing dust ingress and water splashing, making it suitable for complex environments.

Technical Specifications

Acoustic Specifications

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 - 150 m
Leak Detection Rate	10 m 5 bar 55 ml/min 0.5 m 5 bar 33 ml/min

Camera

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

Display

Resolution	1024 × 600 (614,400 pixels)
Size	7 inch
Touch Screen	Capacitive touch screen
Brightness	Adjustable

Storage

Storage Size	8G internal, 64G external
Storage Format	.jpg (Photo), .mp4 (video), .wav (audio)

General Specifications

Size	272 × 174 × 42 mm
Weight	1.7 kg
IP Rating	IP54
ATEX	II 3G Ex ic IIC T5 Gc
System	Linux system
Operationg Enviroment	-20°C to +50°C, 10% to 95% no cond.
Storage Temperature	-20°C to +60°C

Certifications

Certifications	CE-EMC, CE-ROHS, FCC, PSE
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Software

Function	Multi-point imaging, directional focus, distance measurement, leak volume estimation, PRPD spectrum, type recognition, picture labelling, report export, and etc.
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Port

USB-C	USB 3.0
3.5mm Audio Jack	Headphone output
MicroSD Card Slot	External storage

Ordering Information

Name	Model	Describe
ATEX Acoustic Imaging Camera	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 and ATEX certified
Ultrasound Generator	IA1101	Simulate gas leaks or partial discharge for system calibration.
Thermal Imaging Camera Module	IA1301/1302	Optional accessory: Resolutions of 384 × 288 and 640 × 512 are available.
Smart Battery Pack	IA2001	Optional accessory: Single battery provides 5h operation.
Smart Battery Charger	IA2101	Optional accessory: Charges 1 battery at a time. Lightweight, small size design.

