



CRY8125 EX Acoustic Imaging Camera

Introduction

Introducing CRY SOUND's cutting-edge acoustic imaging camera, revolutionizing industrial inspections with advanced capabilities. The CRY8125 EX Acoustic Imaging Camera excels at pinpointing leaks, identifying electrical partial discharges, and detecting mechanical deterioration. Featuring 200 microphones (the most in the industry), the CRY8125 allows smaller leaks and partial discharges to be detected at a greater distance.

The CRY8125 complies with IEC 60079-0 and IEC 60079-11 standards, and is certified for both IECEx and ATEX, making it suitable for use in hazardous and explosive environments.

The CRY8125 reporting software allows offline analysis, editing, and report generation, simplifying regular maintenance routines.

Elevate the effectiveness of your industrial inspections with the CRY8125 and CRY SOUND's acoustic imaging technology.

Features

- Real-time far-field sound source localization and visualization
- Leak detection and leak rate measurement for all compressed (non-volatile) gases
- Partial discharge detection and type recognition for insulators and switchgears
- Mechanical inspection for predictive maintenance for bearings and conveyors
- Report generation
- Detection of flammable and explosive gas leaks in explosive atmospheres (Zone 2)

Highlights

- Certified for IECEx and ATEX Explosion Protection**
 The CRY8125 complies with IEC 60079-11 and IEC 60079-0 standards. It is certified for explosion protection under both the IECEx and ATEX schemes and is suitable for operation in ambient temperatures from -20°C to +50°C.
- The Best Performance in the Industry**
 With 200 microphones, 100kHz bandwidth, and the fastest processor in the industry, the CRY8125 can pinpoint smaller leaks and partial discharges at a greater distance than any other system.
- 8 Inch, 2M Pixel Display for Clear Insights into Problems**
 The CRY8125 display features 2K resolution, 6X digital zoom, and 600 nits display brightness for accurate viewing of field conditions in full sunlight.
- Multiple Communication Methods**
 Bluetooth and WiFi enable direct data transmission to local devices.
- 4 IEPE Sensor Inputs Enable a Wider Range of Applications**
 Up to 4 IEPE sensors (accelerometers, microphones, etc.) can be added to the system, enabling complex detection scenarios and allowing for future expansion.
- Up to 10 Hours of Operation**
 A single rechargeable Li-ion battery provides up to 5 hours of continuous operation. The CRY8125 comes standard with 2 batteries, offering a total runtime of up to 10 hours.
- Ergonomic Design and Operation**
 With a weight of only 3 lbs (1.4kg), the CRY8125 features a rubber molded grip for safe, single-handed operation.
- 2-Year Warranty**
 CRY8125 is covered by a 2-year limited warranty.

Technical Specifications

Acoustic Specifications

Microphone Array	200 MEMS Microphones
Frequency Range	2k – 100k Hz
SPL Range	28 – 132 dB
Test Distance	0.2 – 200 m (1 – 656 ft)
Minimum Detectable Leak	10 m: 0.0029 L/min, 2.7 bar 0.5 m: 0.0028 L/min, 1.9 bar

Camera

Camera FOV	66°
Camera Pixels	13M pixels
Focal Length	4.3 mm (0.17 inches)
LED Light	4 × LED

Display

Resolution	1920 x 1200 (6x digital zoom)
Touch Screen	8 inches, capacitive touch screen
Brightness	600 nits, auto adjustment

Hardware port

USB-C 1	USB 3.0 for charging, HDMI, data export
USB-C 2	USB 2.0, USB-C sensor
3.5 mm Audio Jack	Headphone output
MicroSD Card Slot	External storage
Analog Input	Connect external analog sensor 4 channels, 20 – 100k Hz

General Specifications

Size	270 × 190 × 51 mm 10.6 × 7.5 × 2.0 inches
Weight	1.4 kg (3 lbs)
Wi-Fi	802.11a/b/g/n/ac
Bluetooth	BT 5.2
GNSS	GPS+BDS+GLONASS+GALILEO+QZSS

Operating Temp. -20 to +50 °C, 10 to 95 % no cond.

Storage Temp. -20 to +70 °C, 10 to 95 % no cond.

IP Rated IP54

Storage Size 64GB internal, 64GB external

Ex marking
II 3 G Ex ic IIC T5 Gc
II 3 D Ex ic IIIC T100°C Dc

Battery

Battery Type Smart battery with indicator, replaceable

Battery Capacity 6600mAh @ 7.2V

Battery Life Up to 5 hours

Language

Language Chinese, English, Korean, French, Japanese, Russian, German, Italian, EU Spanish, Portuguese, Hungarian, Dutch, Cambodian, Vietnamese, Turkish, Polish

Ordering Information

Name	Model	Description
Acoustic Imaging Camera	CRY8124	Detect gas leaks and partial discharge in non-explosive environments.
Ex Acoustic Imaging Camera	CRY8125	IECEx and ATEX certified for detecting gas leaks and partial discharges in explosive environments.
Contact Ultrasound Sensor	IA3104	Optional accessory: Detect internal leaks in pipelines and valves.
Ultrasound Generator	IA1101	Optional accessory: Simulate gas leaks or partial discharges for system calibration.
Smart Battery Pack	IA2001	A single battery provides 5 hours of operation.
Smart Battery Charger	IA2101	Charge one battery at a time. Lightweight, compact design.

