



# CRY8124 Acoustic Imaging Camera

## Introduction

Introducing CRY SOUND's cutting-edge acoustic imaging camera, revolutionizing industrial inspections with advanced capabilities. The CRY8124 acoustic imaging camera excels at pinpointing leaks, identifying electrical partial discharge, and detecting mechanical deterioration. The CRY8124 sets a new standard for sensitivity and efficiency. Featuring 200 microphones (the most in the industry), the CRY8124 allows smaller leaks and partial discharges to be detected at a greater distance.

The CRY8124 reporting software allows offline analysis, editing, and report generation, simplifying regular maintenance routines.

Elevate the CRY8124 effectiveness of your industrial inspections with CRY SOUND's acoustic cameras.

## Features

- Realtime far-field sound source localization and visualization
- Leak detection and leak rate for all compressed (non-volatile) gasses
- Partial discharge detection and type recognition for insulators and switch gears
- Mechanical inspection for predictive maintenance for bearings and conveyors
- Report generation for critical data sharing

## Highlights

- **The Best Performance in the Industry**

With 200 microphones, 100kHz bandwidth, and the fastest processor in the industry, the CRY8124 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 CRY8124 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 Enables a Wider Range of Applications**

Up to 4 IEPE sensors (accelerometers, microphones, etc.) and thermal camera 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 CRY8124 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 CRY8124 features a rubber molded grip for safe, single-handed operation.

- **2-year warranty**

CRY8124 is covered by a 2-year limited warranty.

## Technical Specifications

### Acoustic Specifications

Microphone array	200 channels MEMS microphone
Frequency range	2k - 100k Hz
SPL range	28 - 132 dB
Test distance	0.5 - 200 m (1 - 656 ft)
Minimum detectable leak	10 m 2.7 bar 0.0029 L/min 0.5 m 1.9 bar 0.0028 L/min

### Camera

Camera FOV	66°
Camera pixels	13M pixels
Focal length	4.3 mm (0.17 inches)
LED light	4*LED

### Display

Resolution	1920*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 for data export, USB sensor
3.5 mm audio jack	Headphone output
TF card slot	External storage
SIM card slot	Inserting a 4G/5G network communication card
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 - +50 °C, 10 - 95 % no cond.
Storage temp.	-20 - +70 °C, 10 - 95 % no cond.
IP rated	IP54
Storage size	64G internal, 64G external

### Battery

Battery type	Smart battery with indicator, replaceable
Battery capacity	6600mAh @7.2V
Battery life	Up to 5 hours

### 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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### Language

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

Name	Model	Description
Acoustic Imaging Camera	CRY8124	Detect non-explosive gas leaks and partial discharge.
EX Acoustic Imaging Camera	CRY8125	IECEx certified
Thermal imaging camera module	IA1301/1302	Resolutions of 384×288 and 640×512 are available.
Ultrasound generator	IA1101	Simulate gas leaks or partial discharge for system calibration.
Smart battery pack	IA2001	Single battery provides 5h operation.
Smart battery charger	IA2101	Charges 1 battery at a time. Lightweight, small size design.

