



CRY8124 Acoustic Imaging Camera

Introduction

Introducing CRYSOUND'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 CRYSOUND'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		General Specifications	
Microphone array	200 channels MEMS microphone	Size	270 * 190 * 51 mm
Frequency range	2k - 100k Hz		10.6 * 7.5 * 2.0 inches
SPL range	28 - 132 dB	Weight	1.4 kg (3 lbs)
Test distance	0.5 - 200 m (1 - 656 ft)	Wi-Fi	802.11a/b/g/n/ac
Minimum detectable leak	10 m 2.7 bar 0.0029 L/min 0.5 m 1.9 bar 0.0028 L/min	Bluetooth	BT 5.2
		GNSS	GPS+BDS+GLONASS+GALILEO+ QZSS
Сатега		Operating temp.	-20 - +50 °C, 10 - 95 % no cond.
Camera FOV	66°	Storage temp.	-20 - +70 °C, 10 - 95 % no cond.
Camera pixels	13M pixels	IP rated	IP54
Focal length	4.3 mm (0.17 inches)	Storage size	64G internal, 64G external
LED light	4*LED	Battery	
Display		Battery type	Smart battery with indicator,
Resolution	1920*1200 (6x digital zoom)	replaceable	- WXX
Touch screen	8 inches, capacitive touch screen	Battery capacity	6600mAh @7.2V
Brightness	600 nits, auto adjustment	Battery life	Up to 5 hours
Hardware port		Software	
USB-C 1	USB 3.0 for charging, HDMI, data export	Function	Multi-point imaging, directional focus, distance measurement,
USB-C 2	USB 2.0 for data export, USB sensor		leak volume estimation, PRPD spectrum, type recognition, picture labelling, report export,
3.5 mm audio jack	Headphone output		and etc.
TF card slot	External storage	Language	
SIM card slot	Inserting a 4G/5G network communication card	Language	Chinese, English, Korean, French, Japanese, Russian, German, Italian, EU Spanish, Portuquese,
Analog input	Connect external analog sensor 4 channels, 20 - 100k Hz		Hungarian, Dutch, Cambodian, Vietnamese, Turkish, Polish

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.	