IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx TUR 24.0052X** Page 1 of 4 Certificate history:

Status: **Current** Issue No: 0

Date of Issue: 2025-09-05

Applicant: **Hangzhou Crysound Electronics Co., Ltd.**
NO.10, Xianqiao Rd, Yuhang Dist,
Hangzhou City, Zhejiang Prov. 311121,
China

Equipment: **EX Acoustic Imaging Camera, Type CRY8123, CRY8125, CRY8129-EX and MPAC208-IECEx**

Optional accessory:

Type of Protection: **Equipment protection by intrinsic safety "ic"**

Marking: Ex ic IIC T5 Gc
Ex ic IIIC T100° Dc
(Ta range: -20°C to 50°C)

Approved for issue on behalf of the IECEx Certification Body: **Dipl.-Ing. Yang Wang**

Position: **Assigned Certifier**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany

IECEx Certificate of Conformity

Certificate No.: **IECEx TUR 24.0052X** Page 2 of 4

Date of issue: 2025-09-05 Issue No: 0

Manufacturer: **Hangzhou Crysound Electronics Co., Ltd.**
NO.10, Xianqiao Rd, Yuhang Dist,
Hangzhou City, Zhejiang Prov. 311121,
China

Manufacturing locations: **Hangzhou Crysound Electronics Co., Ltd.**
NO.10, Xianqiao Rd, Yuhang Dist,
Hangzhou City, Zhejiang Prov. 311121,
China

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2023 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:7.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

DE/TUR/ExTR24.0052/00

Quality Assessment Report:

DE/TUR/QAR24.0023/00

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The acoustic imaging camera is a portable device. It excels at pinpointing leaks, identifying electrical partial discharge, and detecting mechanical deterioration. The acoustic imaging camera utilizes microphone array beamforming technology to obtain sound source distribution data, then form images on the display screen.

The analog input port is intended to be used in hazardous areas at ambient temperature -20°C to 40°C. The other ports cannot be used in hazardous areas.

The equipment is secondary battery pack powered, Un=7.2Vdc (MAX. open circuit voltage 8.4Vdc), and is only allowed to replace or charge battery pack in the non-hazardous areas. Type of charger PQ453x, PS453x, PN453x, PN452x can be used for this equipment.

Types CRY8123, CRY8125, CRY8129-Ex and MPAC208-IECEx have same design.

The equipment is intended to be used in zone 2 and zone 22 hazardous area, IIC gas group and IIIC dust group, and T5 and T100°C temperature class environment.

Electrical data

Un=7.2Vdc (MAX. open circuit voltage 8.4Vdc)

Environmental data

Ambient temperature: -20°C to 50°C

Ingress protection: IP64

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The equipment shall be protected from exposure to daylight or light from luminaires.
2. The analog input port is not allowed to connect or disconnect in the hazardous area. Other ports cannot be used in the hazardous area.
3. The equipment is only allowed to replace or charge in the non-hazardous areas.
4. The plastic material covering the heat sink shall not be removed in the hazardous area.
5. Resistance to impact was tested corresponding to the low risk of mechanical danger to the display screen, hence the screen has to be protected against strong impacts.
6. The back shell of the equipment has grey conductive paint. When in use, avoid rubbing the surface of the paint layer.
7. Type of charger PQ453x, PS453x, PN453x, PN452x or a charger complied with SELV, PELV or ES1 output voltage Um=9V, can be used for this equipment.
8. Three sealing covers on the enclosure cannot be opened in the hazardous area.

IECEx Certificate of Conformity

Additional information:
No routine test.