(1) TYPE EXAMINATION CERTIFICATE

(2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**

(3) Type Examination Certificate Number:

TÜV 24 ATEX 9172 X

Issue: 00

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

(5) Manufacturer: **Hangzhou Crysound Electronics Co.,Ltd.**

(6) Address: **NO.10, Xianqiao Rd, Yuhang Dist, Hangzhou City,**
Zhejiang Prov. 311121,
China

(7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report GC / Ex9172.00 / 24.

(9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN IEC 60079-0: 2018 **EN 60079-11: 2012**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

(12) The marking of the equipment shall include the following:

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

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz — Cologne, 2025-09-05

Yang Wang

This Type Examination Certificate without signature and stamp shall not be valid and may be circulated only without alteration.
Extracts or alterations are subject to approval by Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH.
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(13) Annex to

(14) # Type Examination Certificate

TÜV 24 ATEX 9172 X

Issue: 00

(15) Description of Equipment

Equipment and type:

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

General product information:

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 use in hazardous areas. 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.

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.

Type code:

CRY8123, CRY8125, CRY8129 and MPAC208-IECEx
(Types CRY8123, CRY8125, CRY8129 and MPAC208-IECEx have the same design).

Details of Change:

N/A, Initial certification.

Technical data:

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

Environmental data
Ambient temperature: -20°C to 50°C
Ingress protection: IP64

(16) Test report No.: GC / Ex9172.00 / 24

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Annex to

Type Examination Certificate

TÜV 24 ATEX 9172 X

Issue: 00

(17) Special Conditions for safe use

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.

(18) Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed at item 9.

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2025-09-05

Yang Wang

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