



Technická inšpekcia, a.s.

Trnavská cesta 56, 821 01 Bratislava, Slovenská republika

[1] TYPE EXAMINATION CERTIFICATE



- [2] Equipment Intended for use in potentially explosive atmospheres - Directive 2014/34/EU
- [3] Certificate of Conformity Number: **TI22ATEX 570 X**
- [4] Equipment: **ACOUSTIC IMAGER
MODEL NO: CRY2624**
- [5] Manufacturer: **HANGZHOU CRY SOUND ELECTRONICS CO., LTD.**
- [6] Address: No.10, Xianqiao Road, Zhongtai Street, Yuhang District, Hangzhou, Zhejiang Province, China
- [7] This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] Technická inšpekcia, a.s., certifies that this product has been found to comply with Essential Health and Safety Requirements relating to design and construction of product intended for use in potentially explosive atmospheres given in Annex II to the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential report No. 570/5/2022
- [9] Compliance with the Essential Health and safety Requirements has been assured by compliance with: **EN IEC 60079-0:2018, EN 60079-11:2012** except in respect of those requirements listed at item 18 of the Schedule
- [10] If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special condition for safe use specified in the schedule to this certificate.
- [11] This TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment and not to specific items of equipment subsequently manufactured.
- [12] The marking of the equipment shall include the following:



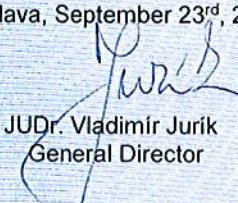
II 3 G Ex ic IIC T5 Gc

-10 °C ≤ Tamb ≤ +50 °C

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Bratislava, September 23rd, 2022


JUDr. Vladimír Jurík
General Director



[13] **Schedule**

[14] **Type Examination Certificate Number: TI22ATEX 570 X**

[15] Description of product:

Name of product: **ACOUSTIC IMAGER**
Type of product: **MODEL NO. CRY2624**

CRY2624 is a hand-held industrial acoustic imager, support the ultrasonic frequencies, with Ex ic IIC T5 Gc explosion-proof grade. The instrument uses the microphone array beamforming technology to acquire the sound source distribution data and collects the video images in real time with the high-definition camera. By integrating the sound source distribution data with the video image, the changing sound source is dynamically presented on the display screen.

The industrial acoustics imager is made of aluminum alloy shell, which is strong and durable and can adapt to the complex and changeable working environment.

Technical data:

Working Voltage:	DC 7.4 V
Current (discharge)	4.875 A
Ultrasound Frequency:	2kHz~48 kHz
Battery type:	NCR18650B
Ambient Temp. Range	-10°C≤Tamb≤+50°C

[16] Report Number:
Inspection report No: 570/5/2022

- [17] Special conditions for safe use:
- Ambient temperature: $-10^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$
 - Warning – Do not open when an explosive atmosphere is present
 - Warning – Do not change the battery in hazardous area
 - Warning – Do not use unspecified battery
 - Replacement of battery shall be done by authorized person only

[18] Essential Health and Safety Requirements:
Covered by the standards listed at item 9.

[19] Drawings and Documents:

CSTA3-128

This certificate may only be reproduced in its entirety and change, schedule included.
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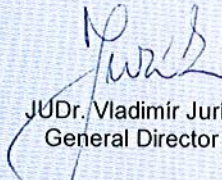


Number	Sheet	Issue	Date	Description
ZHSX.Ex.001	1 pg.	001	01.09.2022	General assembly drawing
2624-CJK-P-X1	2 pgs.	X1	10.2019	CJK PCB Layout drawing
2624-MIC-P-02	1 pgs	02	16.11.2020	Microphone Array PCB drawing
2624-DB-P-03	2 pgs.	03	01.03.2021	DB PCB Layout drawing
2624-MIC-S-02	1 pgs	02	16.11.2020	Schematic diagram of sensor board
2624-CJK-S-02	6 pgs	02	10.2019	CJK Circuit principle diagram
2624-DB-S-03	24 pgs	03	19.7.2022	DB-Circuit principle diagram
Inf-NP-01	1 pgs	01	01.09.2022	Nameplate drawing
22XE0063-S	7 pgs.	-	01.07.2022	Test report
22XE0164-S	6 pgs.	-	01.09.2022	Test report
Battery pack specification	2 pgs.	01	01.09.2022	Battery pack specification
18650-2S1P-7.4V3.4Ah	15 pgs	A0	3.9.2021	Li-On battery specification
MANUAL	33 pgs.	V1.1	01.09.2022	CRY 2624 Acoustic Imager Manual

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