

(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 23 ATEX 8963 X

Issue: 00

- (4) Equipment: **Handheld Thermography Camera, Type: BX20**
- (5) Manufacturer: **Hangzhou Microimage Software Co., Ltd.**
- (6) Address: **Room 313, Unit B, Building 2, 399 Danfeng Road, Xixing Subdistrict, Binjiang District, Hangzhou, 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 TÜV Rheinland 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/Ex8963.00/23
- (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:

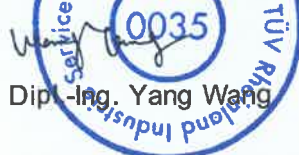


II 3 G Ex ic IIC T6 Gc

II 3 D Ex ic IIIC T85°C Dc

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2023-09-22



This Type Examination Certificate without signature and stamp shall not be valid.
This Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13) Annex

(14) **Type Examination Certificate**
TÜV 23 ATEX 8963 X Issue: 00

(15) Description of equipment

15.1 Equipment and type:

Handheld Thermography Camera
Type: BX20

15.2 Description / Details of Change

General product information

The handheld Thermography camera detects the heat generated by an object and provides one 3.3-inch display to show the thermal image. The thermal camera can thermally capture snapshots, record videos via HIKMICRO Viewer. You can also analyse pictures off line, generate and share a report via the app. Scan the QR codes on the cover to download the app. It's the plastic shell, providing IP64 protection.

This product intends to be installed in zone 2 and zone 22 hazardous area, IIC gas group and IIIC dust group, and T6 temperature class environment.

Type code:

Type designation:

BX20 and deuterogenic types (listed as below),
HM-TP52N-3AQF-BX20, HM-TP5XY-ABCDEF, HM-TP5A-XY, HM-TP51N-3AQF,
HM-TP53N-3AQF, HM-TP5XN-A, HM-TP5AB-XY, HM-TP5AB-XYZ, HM-TP5XY-AB and
HM-TP5XY-A

All these types are the deuterogenic type of BX20, and no any differences between these types and type BX20. The deuterogenic types used for commercial purpose.

Technical Data

Electrical data

Rated voltage: 3.7V (powered by Lithium-ion battery, Um=4.2V)

Environmental data

Ambient temperature: -20°C to +50°C

Ingress protection: IP64

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(16) Test-Report No. GC/Ex8963.00/23

(17) Special Conditions for safe use

1. The equipment shall be protected from exposure to daylight or light from luminaires.
2. The equipment shall only be charged when in the non-hazardous area using a charger specifically supplied by the manufacturer for use with the unit. Charging temperature range is 0 to 45°C.
3. The battery of equipment is prohibited to be replaced by end users.
4. The interface cover shall block off the type C USB port in hazardous location.
5. Resistance to impact was tested corresponding to the low risk of mechanical danger. The device must be protected against strong impacts.
6. The screen surface of the equipment has a conductive coating, which shall be prevented from wear in use.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2023-09-22



Dipl.-Ing. Yang Wang

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