



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 23.0015X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2023-09-22

Applicant: **Hangzhou Microimage Software Co., Ltd.**
Room 313, Unit B, Building 2
399 Danfeng Road
Xixing Subdistrict
Binjiang District
Hangzhou
China

Equipment: **Handheld Thermography Camera, Type: BX20**

Optional accessory:

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

Marking: Ex ic IIC T6 Gc
Ex ic IIIC T85°C 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)

2023-09-22

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





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Manufacturer: **Hangzhou Microimage Software Co., Ltd.**
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399 Danfeng Road
Xixing Subdistrict
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Hangzhou
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Manufacturing locations: **Hangzhou Microimage Software Co., Ltd.**
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Xixing Subdistrict
Binjiang District
Hangzhou
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 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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/ExTR23.0015/00](#)

Quality Assessment Report:

[DE/TUR/QAR23.0005/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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 offline, 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 IIC 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

SPECIFIC CONDITIONS OF USE: YES as shown below:

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.