

# HIKMIRCO BX20

**ATEX & IECEx Certified**

**Compact Intrinsically Safe Thermal Camera for Hazardous Areas**

2023.Q4



# PRODUCT CATEGORY



Thermal

## Handheld



## Fixed



## Firefighting

New



## Intrinsically Safe

New



Acoustic

## Acoustic

New



## Software



# Product Positioning



## HIKMICRO BX20

ATEX & IECEx Certified

Compact Intrinsically Safe Thermal Camera for Hazardous Areas

### Product Slogan:

ATEX & IECEx Certified Compact Intrinsically Safe Thermal Camera for Hazardous Areas

### Key Features:

- ATEX & IECEx Certified
- Super Clear Image and Smooth Video
- Easy-to-use functions
- High Reliability in Harsh Conditions

### Product Positioning:

-The highest sensitivity and clearest image resolution compact intrinsically safe thermal camera

### Product KV reference:

More colorful with Red & Black color

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04 SCOPE OF DELIVERY

05 SPECIFICATIONS

06 SOFTWARE



# BX20 – FORM FACTOR

Compact Intrinsically Safe Thermal Camera for Hazardous Areas



USB-C Connection for Transferring Images and Charging

1600 × 1200 (2 MP) Visual Camera

256 x 192 (49 125 pixels) IR Resolution, and featured with HIKMICRO SuperIR image enhancement technology

LED Lamp for Lighting Dark Environments

Trigger for Capture, and for 1 Click Thermal and Visual Image Storage



3.2" LCD Screen with 240x320 Resolution

Keypad Controls for use with Gloves or PPE

Rugged Design with 2 m (6.56 ft) Drop Test and IP54 Water & Dust Protection

Built-in Rechargeable Li-ion Battery System for up to 6 hours of runtime

Wrist Strap Hole, and UNC ¼"-20 Tripod Mounting Hole

ATEX & IECEx Certified



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# BX20 - OVERVIEW



Compact Intrinsically Safe Thermal Camera for Hazardous Area



ATEX & IECEx  
Certified



HIKMICRO BX20 is ATEX & IECEx certified Compact Intrinsically Safe Thermal Camera for Hazardous Areas and explosive atmosphere to quickly find invisible faults. It's equipped with a 256 × 192 resolution thermal detector and a 2 MP visual camera. The temperature ranges from -20°C to 550°C (-4°F to 1022°F), which meets the most situation. It helps the staff to quickly find the fault according to accurate temperature measurements of high-temperature targets in the environment. Meanwhile, it provides assistance in the decision and ensures safety.

Basic Parameters	BX20
IR Resolution	256 × 192 (49,152 pixels)
SuperIR	<b>Yes, on Captured Thermal Images</b>
NETD	< 40 mK (@ 25 °C, F#=1.0)
Image Frequency	25 Hz
Field of View (FOV)	37.2° × 50.0°
Visual Camera	1600 × 1200 (2 MP)
Led Flashlight	√
Object Temperature Rang	-20°C to 550°C (-4°F to 1022°F)
Focus	Focus-free, 0.3 m (0.98 ft) Min. Focusing Distance
Protection Level	IP54/2 m (6.56 ft)
Storage Media	Built-in EMMC (16 GB), Approx. 90,000 Images
ATEX / IECEx Certificate Type	<b>Gas</b> <b>ATEX: II 3 G Ex ic IIC T6 Gc</b> <b>IECEx: Ex ic IIC T6 Gc</b> <b>Dust</b> <b>ATEX: II 3 D Ex ic IIIC T85°C Dc</b> <b>IECEx: Ex ic IIIC T85°C Dc</b>
Battery Operating Time	Approx. 6 hours
Weight	Approx. 380 g (0.84 lb)

# BX20 - KEY FEATURES



Compact Intrinsically Safe Thermal Camera for Hazardous Area



## Certified Product and Manufacturer

Not only the HIKMICRO BX20 intrinsically safe thermal camera has obtained ATEX and IECEx certification. In addition, HIKMICRO is an audited manufacturer of hazardous location equipment and gets ATEX Quality Assurance Notification (QAN) and IECEx Quality Assurance Report (QAR).



## BX20

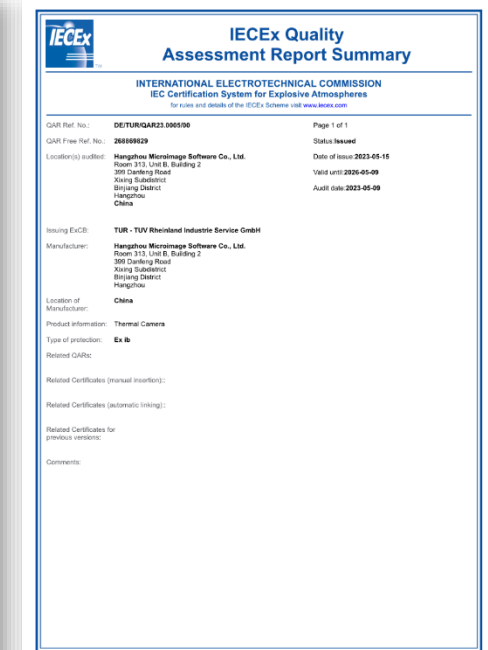
### IECEx Authentication

- Gas: Ex ic IIC T6 Gc
- Dust: Ex ic IIIC T85°C Dc

### ATEX Authentication

- Gas: II 3 G Ex ic IIC T6 Gc
- Dust: II 3 D Ex ic IIIC T85°C Dc

## HIKMICRO





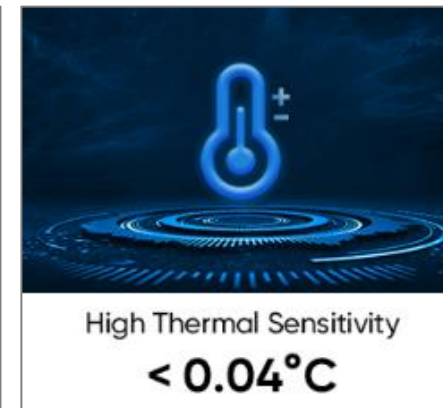
# BX20 - KEY FEATURES

Compact Intrinsically Safe Thermal Camera for Hazardous Area

256

## High Image Quality

Features a high Resolution (256 × 192, 49,152 pixels) and highly sensitive (NETD < 40 mK) VOx IR detector, along with HIKMICRO SuperIR image enhancement algorithms to provide super clear thermal images.

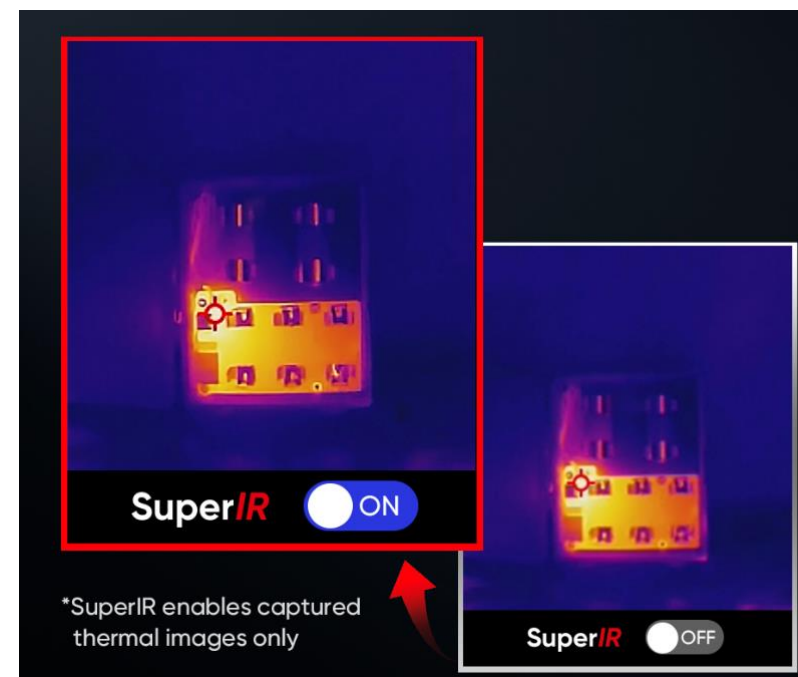


SuperIR

## Enhanced Thermal Clarity with SuperIR

Powered by HIKMICRO SuperIR image enhancement technology, it upscales the resolution of captured thermal images to **320 x 240 (76,800 Pixels)**.

- **Upscaled** IR Resolution
- **Reduced** Image Noise
- **Enhanced** Edge Details



# BX20 - KEY FEATURES

Compact Intrinsically Safe Thermal Camera for Hazardous Area



25 Hz

## 25 Hz Fast Image Frequency

25 Hz fast image frequency delivers smooth video while panning across scenes or viewing moving targets.



## Full-screen Precise and Wide Measurement

Supports capture of full-screen radiometric images and automatically tracks max/min/center spots to pinpoint temperature anomalies at a glance. Accurately measures temperatures from  $-20^{\circ}\text{C}$  to  $550^{\circ}\text{C}$  with a temperature accuracy up to  $\pm 2^{\circ}\text{C}$  or  $\pm 2\%$  of reading.

16 GB

## 16GB Storage

The built-in 16GB eMMC flash storage can store approx. 90,000 radiometric thermal images. It's more than enough for most IR surveys.

Dual

## Dual-camera Thermal Imager

Built-in IR camera and visual camera give you enhanced details. Thermal, Fusion, PIP and Visual modes to suit your preferred view.



## High Temperature Alarm

Built-in speaker and flash light give the operator audio and visual alerts to high temperatures.

# BX20 - ATEX and IECEx Certified



HIKMICRO BX20 compact intrinsically safe thermal camera certified by both ATEX and IECEx.

## Gas

**ATEX:** II 3 G Ex ic IIC T6 Gc

**IECEX:** Ex ic IIC T6 Gc

## Dust

**ATEX:** II 3 D Ex ic IIIC T85°C Dc

**IECEX:** Ex ic IIIC T85°C Dc

## ATEX / IECEx

<b>II</b>	Device Group, II = Various Area, Like Gas and Dust
<b>3</b>	Equipment category, 3 = Not normally, only briefly
<b>G/D</b>	Type of explosive, G = Gas, D = Dust
<b>Ex</b>	Explosion Protected
<b>ic</b>	Ignition Protection, ic = Intrinsic safety
<b>IIC/IIIC</b>	Explosion Group, C rating is safest level
<b>T6</b>	Temperature Class, T6 <85 °C (T1 to T6, T6 is the Highest Level)
<b>Gc</b>	Equipment Protection Level, Gc = Enhanced protection level



ATEX & IECEx  
Certified



# BX20 - Applicable Hazardous Zone

- ATEX and IECEx Authentication include ‘Gas Explosion-proof’ and ‘Dust Explosion-proof’ certifications.
- **HIKMICRO BX20 is intended for use in Zone 2 (gas) or Zone 22 (dust) hazardous areas.**
- Please note that BX20 is not suitable for underground mining scenarios.

II  
3  
G/D

Ex  
ic  
IIC/IIIC  
T6  
Gc

Explosive area	Device group	Equipment category	Type of explosive substance
Mine gas/ dust	I Underground mining	Temporary occurrence of the explosive substance	Classification of the potentially explosive areas
		M1 Continued operation in the event of firedamp M2 Shutdown in the event of firedamp	Mining at risk of firedamp
Gas	II Various areas	1 Permanent, long periods, frequent	Zone 0
		2 Occasionally	Zone 1
		3 Not normally, only briefly	Zone 2
Dust	II Various areas	1 Permanent, long periods, frequent	Zone 20
		2 Occasionally	Zone 21
		3 Not normally, only briefly	Zone 22

## Group, Zone and suitable Equipment Protection Level (EPL)

GROUP II	GROUP III - Dusts	Hazardous Area Zone Characteristics
Zone 0 - EPL Ga	Zone 20 - EPL Da	A hazardous atmosphere is highly likely to be present and may be present for long periods of time (>1000 hours per year) or even continuously
Zone 1 - EPL Ga, Gb	Zone 21 - EPL Da, Db	A hazardous atmosphere is possible but unlikely to be present for long periods of time (>10 <1000 hours per year)
Zone 2 - EPL Ga, Gb, Gc	Zone 22 - EPL Da, Db, Dc	A hazardous atmosphere is not likely to be present in normal operation or infrequently and for short periods of time (<10 hours per year)

**BX20**

# BX20 - Ignition Protection Type

- The Ignition Protection Type of the BX20 is Intrinsically Safe for use in Zone 2 or Zone 22.
- An intrinsically safe apparatus is an electrical device that has connected circuits that are intrinsically safe circuits whilst in a hazardous area.

II  
3  
G/D  
**Ex**  
**ic**  
IIC/IIIC  
T6  
Gc

IGNITION PROTECTION TYPES FOR ELECTRICAL APPARATUS															
Ignition Protection Type		Pressure-resistant enclosure		Pressurised enclosure		Powder filling		Liquid immersion		Increased safety		Intrinsic safety		Intrinsically safe systems	
Identifier	Zone	da, db, d, dc	Zone 0 Zone 1 / Mb Zone 2 / Mb	px, pxb, py, pyb, pz, pzc	Zone 1 / 21 / Mb Zone 1 / 21 Zone 2 / 22	q, qb, qc	Zone 1 / Mb Zone 2	o, ob, oc	Zone 1 Zone 2	e, eb, ec	Zone 1 / Mb Zone 2	ia, ib, ic	Zone 0 / 20 / Ma Zone 1 / 21 / Mb Zone 2 / 22	ia, ib, ic	Zone 0 / 20 / Ma Zone 1 / 21 / Mb Zone 2 / 22
Symbol															
Protection principle		Protection by pressure-resistant enclosure		Protection through higher internal pressure than external pressure		Protection by surrounding filler		Protection by surrounding liquid (e.g. oil)		Protection by preventing high temperatures, sparks and light arcs		Protection by energy limitation		Protection by energy limitation	
Standards		IEC 60079-1 EN 60079-1 UL/FM/CSA 60079-1		IEC 60079-2 EN 60079-2 UL/FM/CSA 60079-2		IEC 60079-5 EN 60079-5 UL/FM/CSA 60079-5		IEC 60079-6 EN 60079-6 UL/FM/CSA 60079-6		IEC 60079-7 EN 60079-7 UL/FM/CSA 60079-7		IEC 60079-11 EN 60079-11 UL/FM/CSA 60079-11		IEC 60079-25 EN 60079-25 UL/FM/CSA 60079-25	
Application		Switching and command systems, heating, lights, motors and switch cabinets		Switching, control and analysis devices		Transformers, relays, safety fuses, switches		Transformers, resistors, switchgear		Terminal and junction boxes, enclosures, terminals		Measurement and control technology, sensors, actuators		Measurement and control technology, sensors, actuators	

IGNITION PROTECTION TYPES FOR ELECTRICAL APPARATUS															
Ignition Protection Type		Non-sparking apparatus		Sparking apparatus		Vapour tightness		Encapsulation		Optical radiation		Protection by enclosure		Constructive explosion protection	
Identifier	Zone	previously nA, nAc, now ec	Zone 2	nC, nCc	Zone 2	nR, nRc	Zone 2	ma, mb, mc	Zone 0 / 20 / Ma Zone 1 / 21 Zone 2 / 22	op, opa, op, opb, op, opc	Zone 0 / 20 Zone 1 / 21 Zone 2 / 22	ta, tb, tc	Zone 20 Zone 21 Zone 22	h	Zone 0 / 20 Zone 1 / 21 Zone 2 / 22
Symbol															
Protection principle		Protection by preventing high temperatures, sparks and light arcs		Protection by pressure-resistant enclosure		Protection by enclosure		Protection by surrounding casting compound		Protection by limiting/preventing energy transfer of optical radiation		Protection by excluding a potentially explosive area within the enclosure		Exclusion of sources of ignition by design	
Standards		IEC 60079-15 EN 60079-15 UL/FM/CSA 60079-15		IEC 60079-15 EN 60079-15 UL/FM/CSA 60079-15		IEC 60079-15 EN 60079-15 UL/FM/CSA 60079-15		IEC 60079-18 EN 60079-18 UL/FM/CSA 60079-18		IEC 60079-28 EN 60079-28 UL/FM/CSA 60079-28		IEC 60079-31 EN 60079-31 UL/FM/CSA 60079-31		ISO 80079-36 ISO 80079-37	
Application				All electrical devices for Zone 2				Relays, sensors, solenoid valves		Optoelectronic devices		Terminal and junction boxes, motors, switchgear and switching systems, lights		Non-electrical apparatus: Mechanical switches, gland seal, mechanical seal, seals, coupling units	

# BX20 - Applicable Group



- **BX20 is suitable for IIA, IIB, and IIC Gases, and IIIA, IIIB, and IIIC Dusts, like flammable fibers, non-conductive ducts, and conductive dust.**
- In general, whether it is marked as II (Gas) or III (Dust) for the group, the C rating is always the safest as it relates to the biggest risk protection.

II  
3  
G/D  
Ex  
ic  
**IIC/IIIC**  
T6  
Gc

- **Group I** -electrical equipment for use in mines and underground installations susceptible to firedamp
- **Group II and Group III** -electrical equipment for use in surface installations.
- **Groups II & III** are further sub-divided depending upon the hazard. Group II gases are grouped together based upon the amount of energy required to ignite the most explosive mixture of the gas with air. Group III dusts are subdivided according to the nature of the explosive atmosphere for which it is intended.

Mining	Surface Industry			
Group I	Group II		Group III	
Electrical equipment for mines susceptible to firedamp	Electrical equipment for places with an explosive gas atmosphere		Electrical equipment for places with an explosive dust atmosphere	
	Sub-Division	Ignition Energy	Sub-Division	Explosive Atmosphere
	IIA	260 Microjoules	IIIA	Combustible flyings
	IIB	95 Microjoules	IIIB	Non-conductive dust
	IIC	18 Microjoules	IIIC	Conductive dust
	<b>BX20</b>			

# BX20 - Applicable Temperature

- **BX20 is suitable for T6, T5, T4, T3, T2, T1 Temperature Classified areas.**
- **The higher the class, the better the equipment! T6 is the Highest Level.**

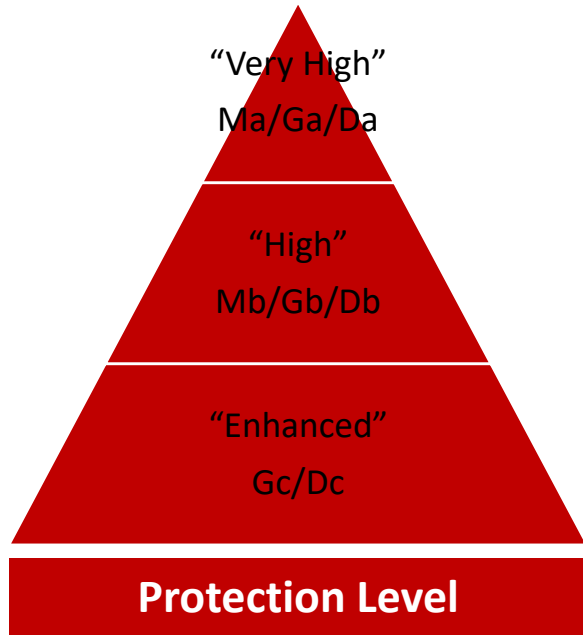
II 3 G/D Ex ic IIC/IIIC <b>T6</b> Gc	<b>Group II Temperature Class</b>		
	T Code	Maximum Surface Temperature	Ignition Temperature
	T1	450°C	> 450°C
	T2	300°C	> 300°C ≤ 450°C
	<b>BX20</b> T3	200°C	> 200°C ≤ 300°C
	T4	130°C	> 130°C ≤ 200°C
	T5	100°C	> 100°C ≤ 135°C
	<b>T6</b>	<b>85°C</b>	> 85°C ≤ 100°C

The maximum surface temperature of the apparatus must always be lower than the ignition temperature of the explosive gas present. The surface of a device classified as T1 may reach 450°C. It is therefore unsafe if installed in an environment suited for T2, T3, T4, T5 or T6 devices. **Equipment with a T6 rating, on the other hand, (which has a maximum surface temperature of 85°C) can safely be used in T6, T5, T4, T3, T2 and T1 environments.**

# BX20 - Equipment Protection Level



- The BX20 is an enhanced equipment protection level thermal camera suitable for use in Zone 2 (gas) or Zone 22 (dust) hazardous areas.



Group, Zone and suitable Equipment Protection Level		
GROUP I - Mining	GROUP II - Gases	GROUP III - Dusts
Zone 0 - EPL Ma	Zone 0 - EPL Ga	Zone 20 - EPL Da
Zone 1 - EPL Ma, Mb	Zone 1 - EPL Ga, Gb	Zone 21 - EPL Da, Db
-	<b>BX20</b> Zone 2 - EPL Ga, Gb, Gc	Zone 22 - EPL Da, Db, Dc

The EPL depends on the explosive atmosphere type: gas (G), dust (D), or mines (M). There are three standard protection levels:

- Ga, Da, Ma – very high protection;** the equipment remains safe in normal operation, even in rare fault situations (two faults at once)
- Gb, Db, Mb – high protection;** the equipment remains safe in normal operation, also when faults occur (single fault)
- Gc, Dc – enhanced protection;** the equipment remains safe in normal operation, and may have extra protection to minimize ignition risk in fault situations (fault may cause equipment to shut down)



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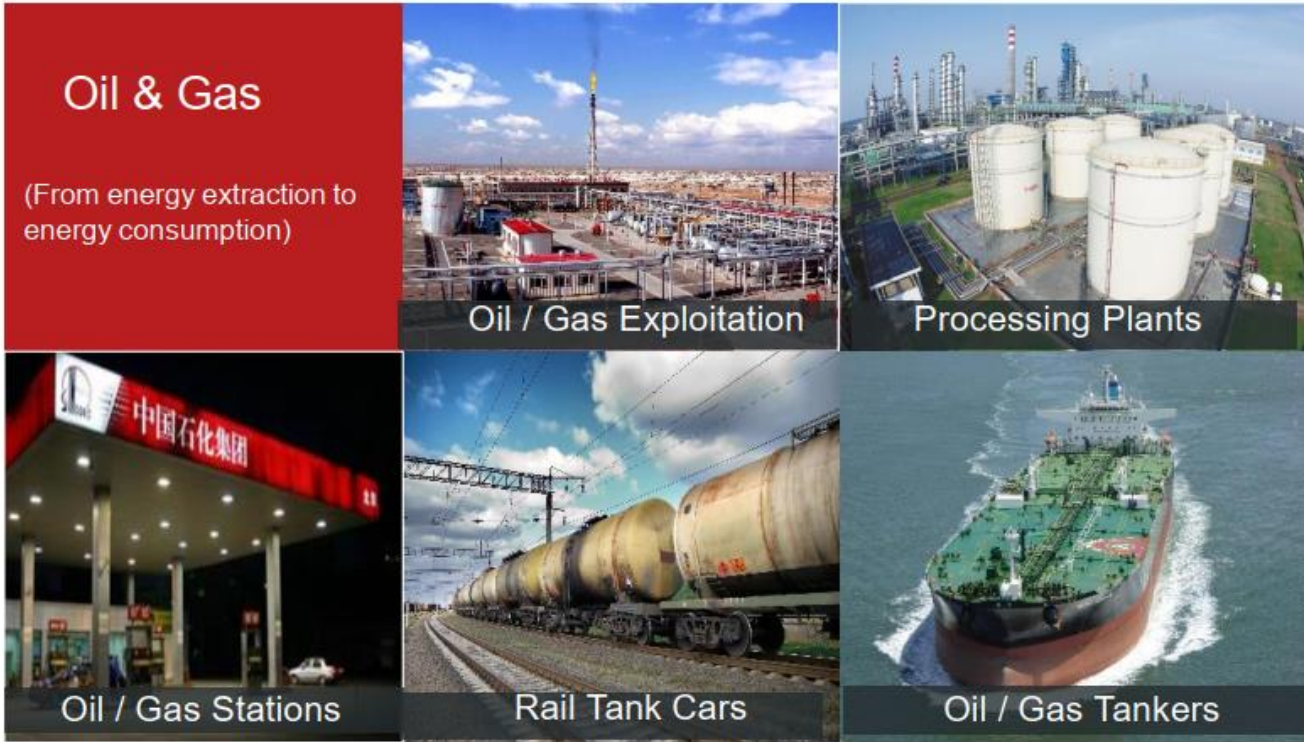
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# APPLICATIONS

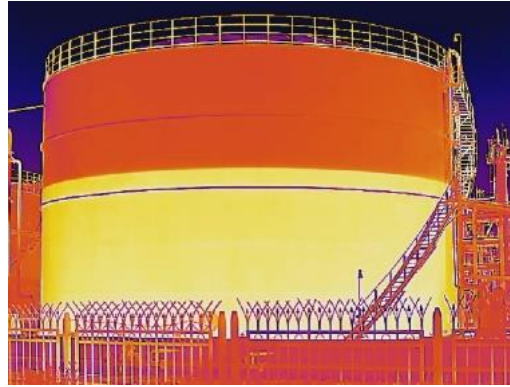
It is suitable for Zone 2 scenarios in petrochemical plants, refineries, substations, offshore platforms, production plants, pharmaceuticals, hazardous waste management and other industries.



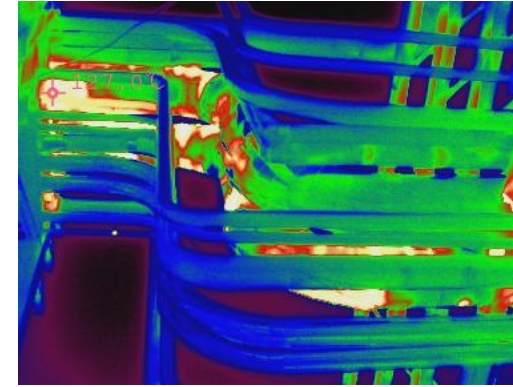
# APPLICATIONS



**Reactor**



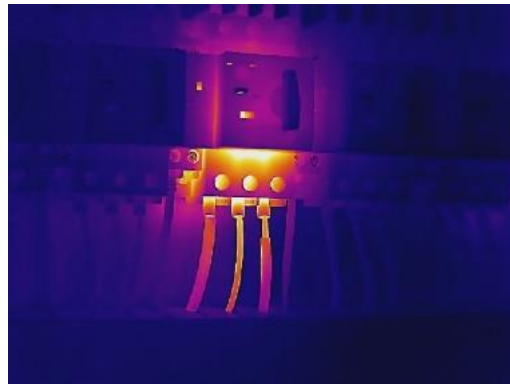
**Oil Tank**



**Pipe**



**Tank Insulation**



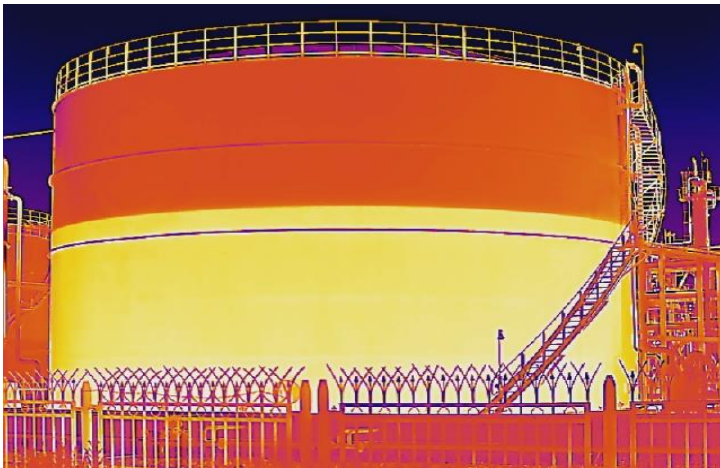
**Electrical**



**Mechanical**

\*Note: The pictures taken by device are for reference only, the actual effect shall prevail.

# OIL STORAGE TANK LIQUID LEVEL DETECTION



\*Note: The pictures taken by device are for reference only, the actual effect shall prevail.

## APPLICATION INTRODUCTION:

The petroleum and petrochemical industry usually use liquid level gauges to control and detect the liquid level in storage tanks. However, the liquid level gauge is subject to deposition and corrosion by the gas and liquid in the tank for a long time, and it is easy to cause misdetection. Because there will be a temperature difference between the gas and liquid inside the tank and the ambient temperature, the temperature distribution of the tank can be visually viewed through an infrared thermal imager and the position of the liquid level line can be determined.

## PERSONAS:

Safety production inspectors in crude oil storage facilities, refineries, refineries and other scenes.

# FURNACE OUTER WALL CORROSION DETECTION



\*Note: The pictures taken by device are for reference only, the actual effect shall prevail.

## APPLICATION INTRODUCTION:

After the reaction furnace body has been working for a long time, the furnace wall will undergo corrosion in different situations. Once corrosion occurs, the outer wall of the furnace will produce high-temperature points that are different from the environment. The infrared thermal imaging camera can accurately capture high-temperature points, visually check the hidden dangers on the outer wall, and conduct timely maintenance and management.

## PERSONAS:

Relevant inspection personnel in refineries, refineries, oil and gas storage areas and other scenes.

# DETECTION OF SHEDDING OF INSULATION LAYER ON THE OUTER WALL OF REACTOR



\*Note: The pictures taken by device are for reference only, the actual effect shall prevail.

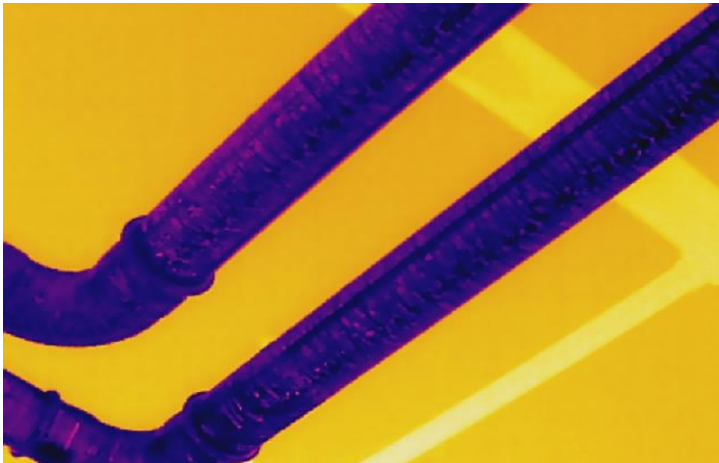
## APPLICATION INTRODUCTION:

Most chemical production requires constant temperature and pressure, so the outer wall of the reactor will have an insulation layer. Once the insulation layer is not repaired for a long time, it will cause the layer to fall off and affect production efficiency. The infrared thermal imaging camera can visually check the corresponding temperature distribution on the surface to determine whether the insulation layer has fallen off.

## PERSONAS:

Equipment managers in chemical industry scenarios such as enterprises, pesticide companies, and fine chemicals.

# PIPELINE INSPECTION AND TESTING



\*Note: The pictures taken by device are for reference only, the actual effect shall prevail.

## APPLICATION INTRODUCTION:

In major chemical plants, there will be pipes of different thicknesses and shapes. Once there is a problem with the pipeline, it will greatly affect the production progress of the company. The infrared thermal imaging camera can visually check the status of the pipeline, determine the blockage of the pipeline, the wear of the pipeline, the insulation of the pipeline, etc., and detect hidden dangers in a timely manner to ensure safe production.

## PERSONAS:

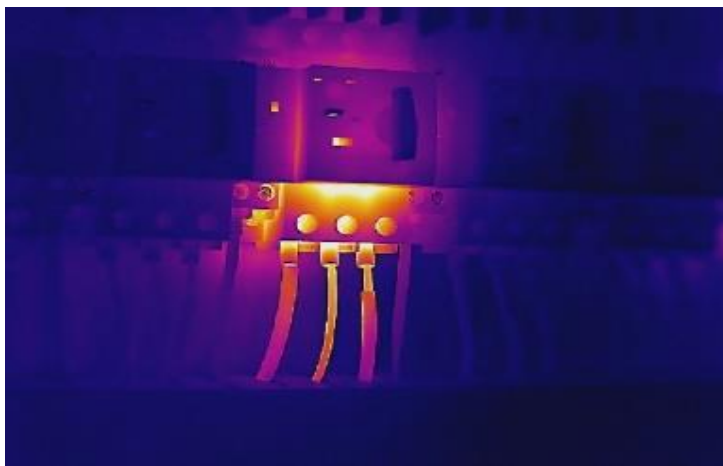
Natural gas scenes, well sites, gas companies, fine chemical plant areas, etc.

# PRODUCTION WORKSHOP POWER DISTRIBUTION EQUIPMENT INSPECTION



## APPLICATION INTRODUCTION:

Power distribution equipment is important equipment to ensure normal production in all aspects of the workshop. Through the handheld infrared thermal imager, the user can intuitively see the working status of each fuse or connector in the distribution cabinet in the area of concern, gain an overall understanding, and ensure the safety of the distribution equipment.



\*Note: The pictures taken by device are for reference only, the actual effect shall prevail.

## PERSONAS:

Production workshops, internal computer rooms of enterprises, etc.



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# BX20 - SCOPE OF DELIVERY

Compact Intrinsically Safe Thermal Camera for Hazardous Area

## What's in the Box?

- ◆ Thermal Camera with Wrist Strap
- ◆ USB 2.0 A to USB Type-C Cable
- ◆ Power Supply
- ◆ International Use Plugs (US/EU/UK/AU/CN) for Power Supply
- ◆ Calibration Certificate
- ◆ Quick Start Guide



Calibration Certificate



Quick Start Guide



Thermal Camera with Wrist Strap



USB Cable



Charger and International Adapters

## Optional Accessories

- ◆ E/B Series POUCH  
( HM-B01-POUCH )



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# BX20 - SPECIFICATION



Compact Intrinsically Safe Thermal Camera for Hazardous Area



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Certified



Camera Highlights		BX20
<b>Certificate</b>	<b>ATEX / IECEx Certificate Type</b>	<b>ATEX: II 3 G Ex ic IIC T6 Gc, II 3 D Ex ic IIIC T85°C Dc IECEx: Ex ic IIC T6 Gc, Ex ic IIIC T85°C Dc</b>
<b>Infrared Image</b>	<b>IR Resolution</b>	256 × 192 (49,152 pixels)
	<b>SuperIR</b>	<b>Yes, on Captured Thermal Images</b>
	<b>NETD</b>	< 40 mK (@ 25 °C, F#=1.0)
	<b>Image Frequency</b>	25 Hz
	<b>Field of View (FOV)</b>	37.2° × 50.0°
<b>Image Display</b>	<b>Focus Mode</b>	Focus Free
	Visual Camera	1600 × 1200 (2 MP)
	Image Modes	Thermal/Visual/Fusion/PIP
	Display	240 × 320 Resolution, 3.2" LCD Screen
<b>Measurement and Analysis</b>	Object Temperature Range	-20°C to 550°C (-4°F to 1022°F)
	<b>Accuracy</b>	Max (± 2°C/3.6°F, ± 2%), for ambient temperature 15°C to 35°C (59°F to 95°F) and object temperature above 0°C (32°F)
<b>Data Storage and Communication</b>	<b>Storage Media</b>	Built-in 16 GB flash memory
	File Format	Radiometric JPEG
	Storage Capacity	Approx. 90,000 Images
<b>General</b>	Battery Operating Time	Approx. 6 hours
	Led Flashlight	√
	<b>Durability</b>	IP54, 2 m (6.56 ft) drop protection
	<b>Weight</b>	Approx. 380 g (0.84 lb)

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# PC SOFTWARE - HIKMICRO ANALYZER



## EFFICIENT, POWERFUL THERMAL ANALYSIS AND REPORTING

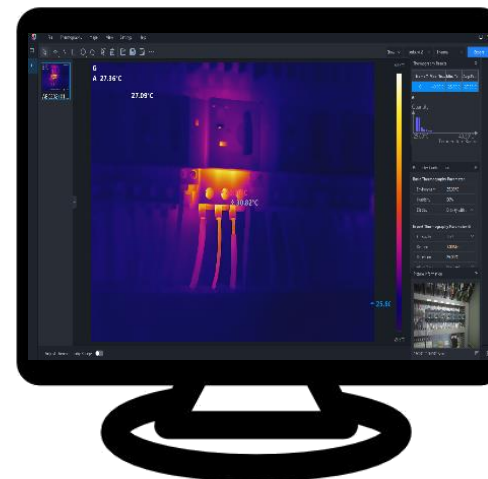
HIKMICRO Analyzer is a powerful and free licensed PC software designed to help users manage and analyze thousands of thermal images and videos and quickly create professional reports. Compatible with files from HIKMICRO handheld thermal cameras, providing the features you need to simplify your workflow and increase your productivity.

- Free license
- Import, edit and manage files
- View, edit and analysis radiometric images
- Advanced measurement and image analysis
- Batch processing with all image and measurement controls
- Quick reporting with pre-defined or customized templates

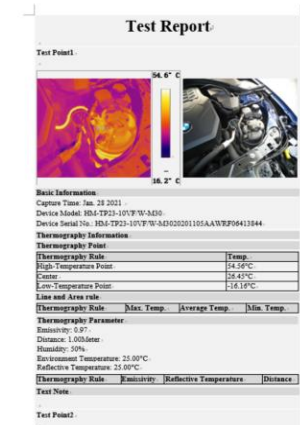
### THERMAL IMAGE ON SITE



### ANALYSIS ON COMPUTER



### EXPORT REPORT



Download at:

<https://www.hikmicrotech.com/en/industrial-products/hikmicro-analyzer-software/>