



B SERIES

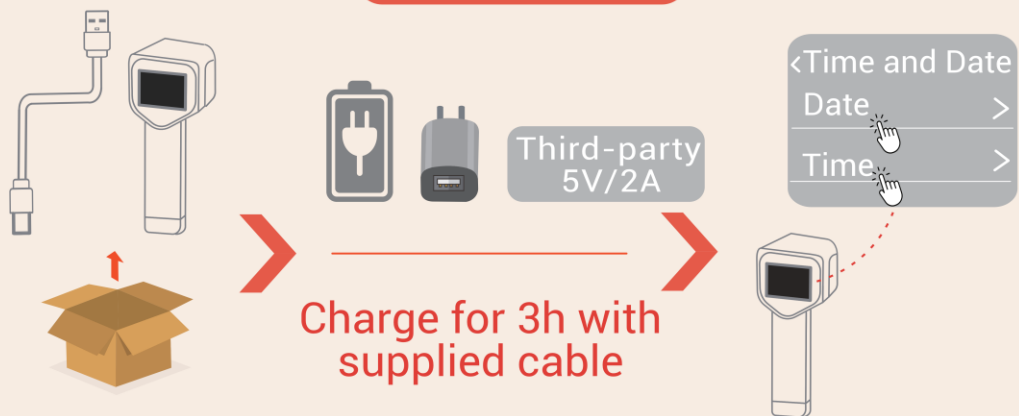
Thermal Camera User Manual



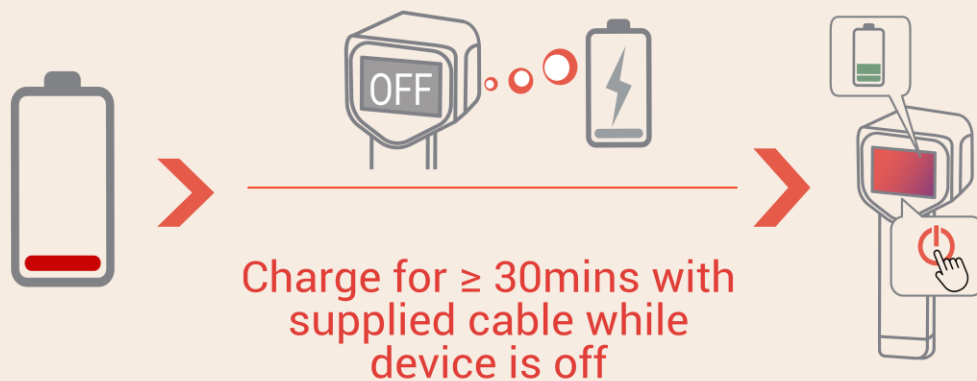
Contact Us



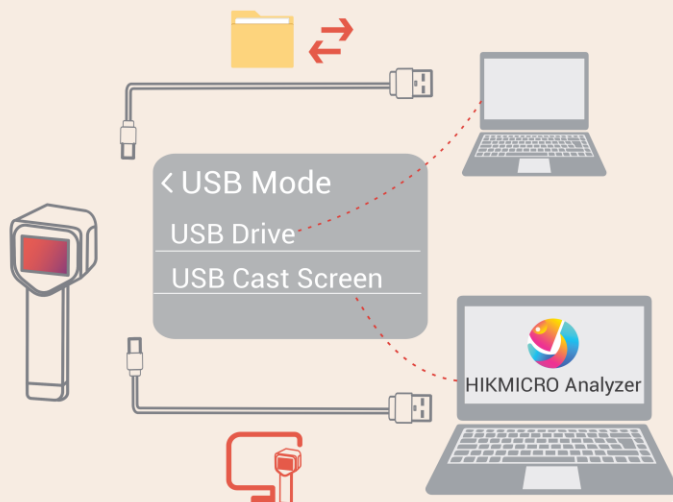
First-time Use



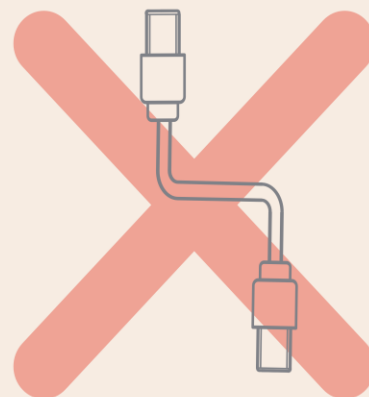
Long Time Unused



Use supplied cable for data transfer and screen casting



Third-party



SAFETY INSTRUCTION

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss. Please read all the safety information carefully before using.

Laws and Regulations

- ◆ Use of the product must be in strict compliance with the local electrical safety regulations.

Transportation

- ◆ Keep the device in original or similar packaging while transporting it.
- ◆ Keep all wrappers after unpacking them for future use. In case of any failure occurred, you need to return the device to the factory with the original wrapper. Transportation without the original wrapper may result in damage on the device and the company shall not take any responsibilities.
- ◆ DO NOT drop the product or subject it to physical shock. Keep the device away from magnetic interference.

Laser Light Supplement Warning



- ◆ Complies with FDA performance standards for laser products except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.
- ◆ Warning: The laser radiation emitted from the device can cause eye injuries, burning of skin or inflammable substances. Prevent eyes from direct laser. Before enabling the Light Supplement function, make sure no human or inflammable substances are in front of the laser lens.
- ◆ The wave length is 650 nm, the maximum power is 1 mW, and the beam divergence is 1 mrad. The laser meets the IEC 60825-1:2014, EN 60825-1: 2014 +A11: 2021 and EN 50689: 2021 standard.
- ◆ Instantaneous exposure to this class 2 laser product is safe, but gazing at this laser product may cause dizziness, flash blindness and visual afterimage. Move your head away or close your eyes to avoid the laser radiation. Besides, prevent eyes from direct laser and wear a pair of goggles for your safety. The operating wavelength of the eyewear should be longer than laser peak wavelength and its optical density should be higher than OD5+.
- ◆ Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- ◆ **Laser maintenance:** It is not necessary to maintain the laser regularly. If the laser does not work, the laser assembly needs to be replaced in the factory under warranty. Keep the device power off when replacing laser assembly. Caution-Use of controls or

adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Power Supply

- ◆ Input voltage should meet the Limited Power Source (3.7 VDC, 0.5 A) according to the IEC62368 standard. Please refer to technical specifications for detailed information.
- ◆ If a power adapter is provided in the device package, use the provided adapter only. If no power adapter is provided, ensure the power adapter or other power supply complies with Limited Power Source. Refer to the product label for the power supply output parameters.
- ◆ Make sure the plug is properly connected to the power socket.
- ◆ DO NOT connect multiple devices to one power adapter, to avoid over-heating or fire hazards caused by overload.
- ◆ Use the power adapter provided by a qualified manufacturer. Refer to the product specification for detailed power requirements.

Battery

- ◆ CAUTION: Risk of explosion if the battery is replaced by an incorrect type. Replace with the same or equivalent type only. Dispose of used batteries in conformance with the instructions provided by the battery manufacturer.
- ◆ Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
- ◆ Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.
- ◆ Do not leave the battery in an extremely high temperature surrounding environment, which may result in an explosion or the leakage of flammable liquid or gas.
- ◆ Do not subject the battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas.
- ◆ Dispose of used batteries in conformance with the instructions provided by the battery manufacturer.
- ◆ The built-in battery cannot be dismantled. Please contact the manufacture for repair if necessary.
- ◆ For long-term storage of the battery, make sure it is fully charged every 3 months to ensure the battery quality. Otherwise, damage may occur.
- ◆ Use the battery provided by a qualified manufacturer. Refer to the product specification for detailed battery requirements.
- ◆ DO NOT charge other battery types with the supplied charger. Confirm there is no flammable material within 2 m of the charger during charging.
- ◆ DO NOT place the battery near heating or fire source. Avoid direct sunlight.
- ◆ DO NOT swallow the battery to avoid chemical burns.
- ◆ DO NOT place the battery in the reach of children.
- ◆ When the device is powered off and the RTC battery is full, the time settings can be kept for 4 months.

- ◆ Before the first use, charge the lithium battery for more than 3 hours.

Maintenance

- ◆ DO NOT maintain the camera when it is powered on, or it may cause electric shock! If the product does not work properly, please contact your dealer or the nearest service center. We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.
- ◆ Wipe the device gently with a clean cloth and a small quantity of ethanol, if necessary.
- ◆ If the equipment is used in a manner not specified by the manufacturer, the protection provided by the device may be impaired.

Using Environment

- ◆ Make sure the running environment meets the requirement of the device. The operating temperature shall be -10 °C to 50 °C (14 °F to 122 °F), and the operating humidity shall be 95% or less.
- ◆ Place the device in a dry and well-ventilated environment.
- ◆ DO NOT expose the device to high electromagnetic radiation or dusty environments.
- ◆ When any laser equipment is in use, make sure that the device lens is not exposed to the laser beam, or it may burn out.
- ◆ DO NOT aim the lens at the sun or any other bright light.
- ◆ The device is suitable for indoor and outdoor uses, but do not expose it in wet conditions.

Emergency

If smoke, odor, or noise arises from the device, immediately turn off the power, unplug the power cable, and contact the service center.

Calibration Service

Please contact the local dealer for the information on maintenance points. For more detailed calibration services, please refer to <https://www.hikmicrotech.com/en/support>.

Technical Support

The <https://www.hikmicrotech.com/en/contact-us.html> portal will help you as a HIKMICRO customer to get the most out of your HIKMICRO products. The portal gives you access to our support team, software and documentation, service contacts, etc.

Limited Warranty

Scan the QR code for the product warranty policy.



Manufacture Address

Room 313, Unit B, Building 2, 399 Danfeng Road, Xixing Subdistrict, Binjiang District,
Hangzhou, Zhejiang 310052, China




Hangzhou Microimage Software Co., Ltd.

COMPLIANCE NOTICE

The thermal series products might be subject to export controls in various countries or regions, including without limitation, the United States, European Union, United Kingdom and/or other member countries of the Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities for any necessary export license requirements if you intend to transfer, export, re-export the thermal series products between different countries.

Symbol Conventions

The symbols that may be found in this document are defined as follows.

<i>Symbol</i>	<i>Description</i>
 Danger	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.
 Caution	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 Note	Provides additional information to emphasize or supplement important points of the main text.

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CHAPTER 1 INTRODUCTION

1.1 Important Notice to User

This manual describes and explains the features for multiple camera models. Because the camera models of a series have different features, this manual may contain descriptions and explanations that do not apply to your particular camera model.

Not all the camera models of a series support the mobile applications, software, and all their functions mentioned (or not mentioned) in this manual. Please refer to the user manuals of the application and software for more detailed information.

This manual is updated on a regular basis. It means that this manual may not contain the information about the new features of the latest firmware, mobile clients, and software.

1.2 Product Introduction

The handheld thermography camera is a camera with thermal and visual images. The built-in high-sensitivity IR detector and high-performance sensor detect the temperature changes and measure the real-time temperature.

It helps the users to find the risky part and lower their property loss. The device supports live view, capturing snapshots, etc. It is mainly applied to various industries, such as building, HVAC, and auto industry.

1.3 Main Function

SuperIR

Device supports **SuperIR** to enhance the object outlines on live view (for some models) and snapshots. This function is subject to your particular camera model.

Scene (If Applicable)

The camera supports multiple scene modes for different detection targets and scenarios. Some scene modes support SuperScene, an intelligent function. It can assist in anomaly detection and give prompts on top of the live view interface.

Temperature Measurement

Device detects the real-time temperature, and displays it on the screen.

Palettes

The camera supports multiple color palettes for different targets and user preference.

Alarm

Device outputs audible and visual alarm when the target's temperature is higher than the threshold value.

Client Software Connection (If Applicable)



The camera models that support **Wi-Fi** and **hotspot** can connect to HIKMICRO Viewer. Scan the QR code to download the HIKMICRO Viewer App for live view, capture snapshots, record videos, etc.

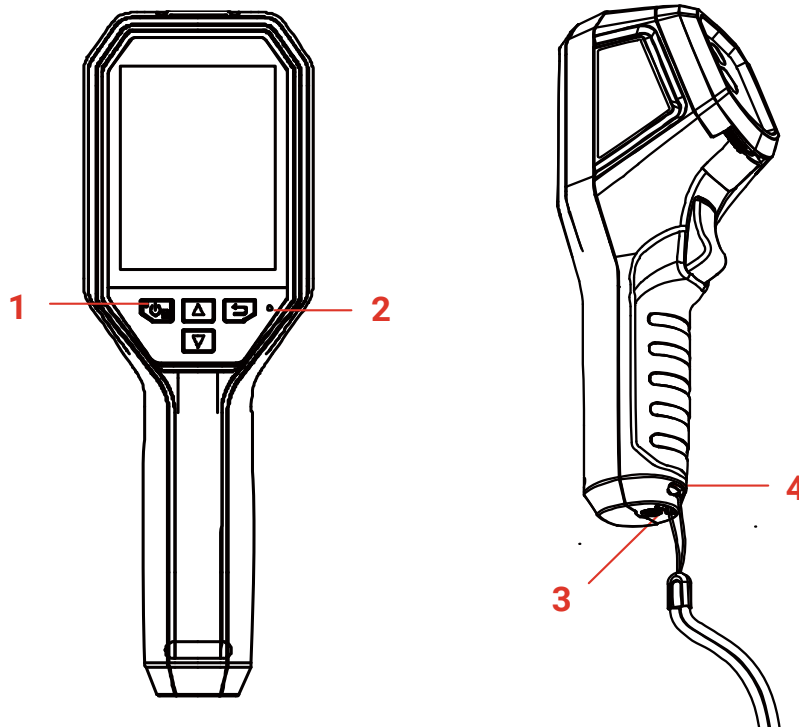
Download HIKMICRO Analyzer
(<https://www.hikmicrotech.com/en/industrial-products/hikmicro-analyzer-software.html>) to analyze pictures.

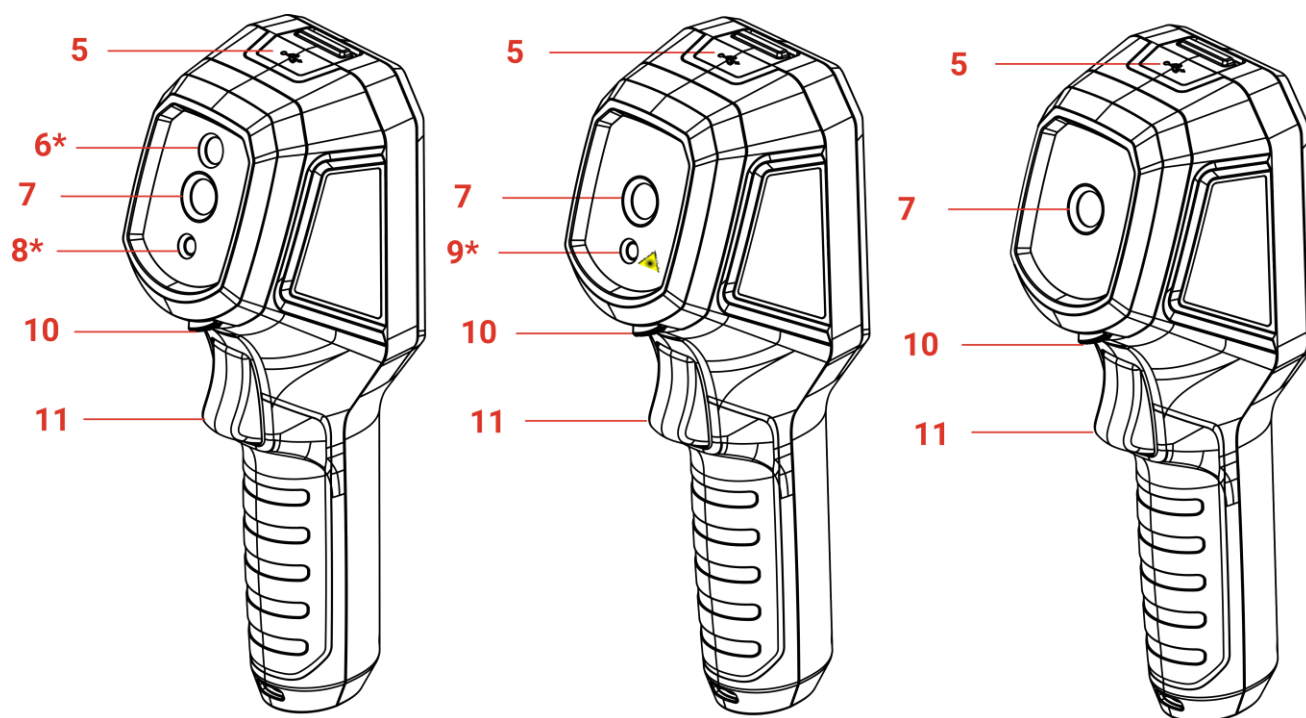
**NOTE**

Not all the camera models of this series support the mobile applications, software, and all their functions mentioned (or not mentioned) in this manual. Please refer to the user manuals of the application and software for more detailed information.

1.4 Appearance





The appearances and components of camera models might be different. Please refer to the actual products.





No.	Component	Function
1	Charging Indicator	<ul style="list-style-type: none"> ◆ Solid Red: Charging. ◆ Solid Green: Fully charged.
2	Buzzer	Output audio alarm.
3	Wrist Strap Hole	Mount the wrist strap.
4	Tripod Mount	Connect to UNC 1/4"-20 tripod.
5	Type-C Interface	Charge the battery or export files using the included USB cable.
6*	Visual Lens*	View the visual image (only supported by certain models).
7	Thermal Lens	View the thermal image.
8*	Flashlight*	Provide additional light in the low-light condition (only supported by certain models).
9*	Laser*	Locate the target with laser light (only supported by certain models).
10	Lens Protector Switch	Turn on/off the thermal lens protective cover.
11	Trigger	<p>In live view:</p> <ul style="list-style-type: none"> ◆ Press: Capture snapshots. ◆ Hold: <ol style="list-style-type: none"> 1) Locate the target with laser light (for the models with laser light), and release to capture snapshots. 2) Record videos (if the laser is on, turn on the Record switch before recording).

No.	Component	Function
		In menu mode, press the trigger to go back to live view.

Button	Function
	<ul style="list-style-type: none"> ◆ Hold: Power On/Off ◆ Press: Display menu, confirm operation or change direction when setting User-defined Spot.
	Exit the menu or return to previous menu.
	In menu mode: Press  and  to select parameters.
	In live view mode: Press  to switch image modes (only supported by certain models). Press  to switch palettes.

	NOTE	<ul style="list-style-type: none"> ◆ The appearance and button functions vary according to different models. ◆ The visual lens, flashlight, and laser, are only supported by certain models. Please refer to the actual device or datasheet. ◆ The warning sign is beside the laser and on the left side of the device.
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**Warning:**

The laser radiation emitted from the device can cause eye injuries, burning of skin or inflammable substances. Prevent eyes from direct laser. Before enabling the Light Supplement function, make sure no human or inflammable substances are in front of the laser lens. The wave length is 650 nm, and the power is less than 1 mW. The laser meets the IEC60825-1:2014 standard.

CHAPTER 2 PREPARATION

2.1 Charge Device

You can charge the camera by connecting it to the power supply via the included USB cable in the package and a power adapter. Do not use the USB-C to USB-C cable of other manufacturers.

The power adapter (not included) should meet the following standards:

- ◆ Output Voltage/Current: 5 VDC/2 A
- ◆ Minimum Power Output: 10 W

1. Lift the type-C interface cover.
2. Plug in the supplied USB cable, and connect the device to the power supply via a power adapter to charge the camera.




NOTE

- ◆ The power delivered by the charger must be between min 6.7 Watts required by the radio equipment, and max 10 Watts in order to achieve the maximum charging speed.
- ◆ The device is equipped with the built-in battery. For the first charge, charge the device for more than 3 hours when the device is turned on.
- ◆ If the camera is not in use for an extended period and is over-discharged, it is recommended to charge for at least 30 min before powering it on.
- ◆ It is recommended to use the USB cable included in the package for both charging and data transfer.

2.2 Power On/Off


Power On

Remove the thermal lens protective cover, and hold  for over six seconds to turn on the device. You can observe the target when the interface of the device is stable.


Power Off

When the device is turned on, hold  for about three seconds to power off the device.

2.2.1 Set Auto Power-Off

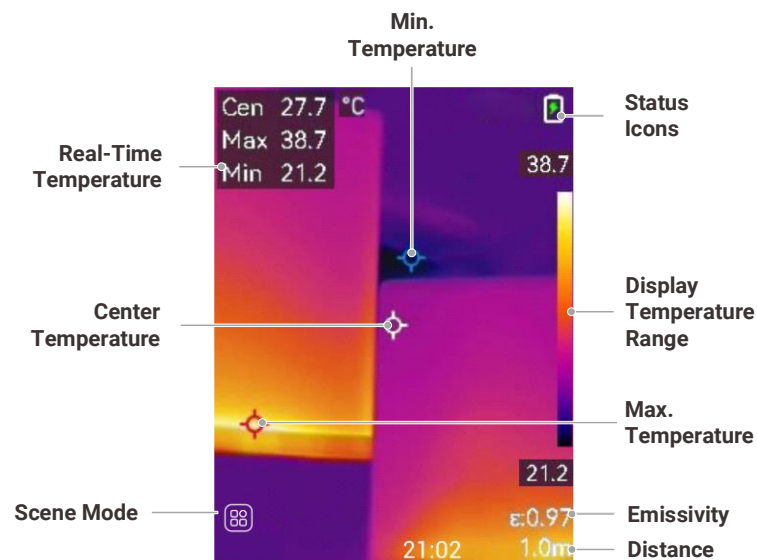
In the live view interface, press  and go to **More Settings > Auto Power-off** to set the automatic shutdown time for device as required.

2.2.2 Set Auto Sleep

In live view interface, press  and go to **More Settings > Auto Sleep** to set the waiting time before auto sleep. When there is no button pressing on the device for more than the set waiting time, the device enters sleep mode automatically. Press a button to wake the

device up.

2.3 Live View



NOTE

- ◆ Because this manual is updated on a regular basis, the live view might be slightly different from the version of your particular camera model. Please refer to the actual camera.
- ◆ If the temperature value is preceded by a "~", it indicates that the temperature measurement function has not reached a precise state. This symbol usually appears during the device startup phase and disappears once the temperature measurement function is fully operational.

CHAPTER 3 START WITH SCENE MODE (IF APPLICABLE)

To conduct fast anomaly detection, several preset templates are included in **Scene** mode for various detection scenarios. Users can choose an appropriate scene or customize a scene as per targets, and set high temperature alarm as needed.



Scene mode is ONLY supported by some models in the series. Please refer to your actual device and its software version.

1. Select an appropriate scene mode. See **3.1 Select a Scene Mode** for details.
2. (Optional) Fine-tune scene mode parameters as needed. See **3.2(Optional) Set Scene Mode Parameters** for details.
3. (Optional) Set alarms as needed. See **Chapter 5 Set Alarms** for details.
4. Observe detection results in live view interface.

3.1 Select a Scene Mode

Choose a scene mode according to the faults or anomalies you want to locate in a specific detection scene.

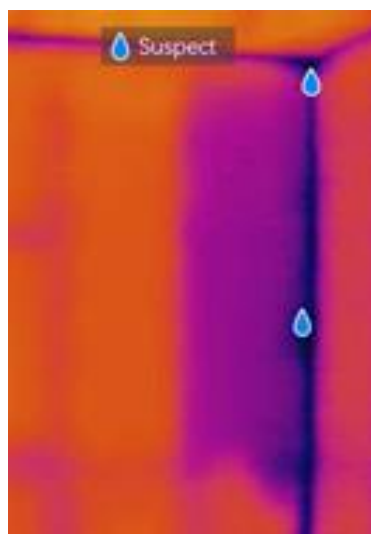
It is ONLY supported by some models in the series.

1. In the live view interface, press  and go to **Scene>Scene**.
2. Press  to select an appropriate scene mode.

**NOTE**

◆ Default value of parameters work for most cases. If users want to fine-tune the related parameters as needed, see 3.2 (Optional) Set Scene Mode Parameters.

Water Leak

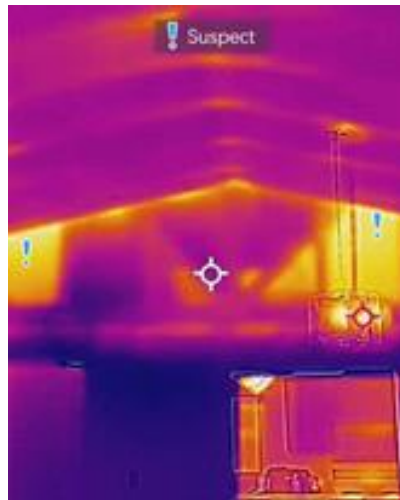


To inspect the water leak of building ceilings, walls and floors indoors.

SuperScene technology can assist in fast recognition for anomalies during water leak detection. When **SuperScene** is enabled and water leak anomalies are detected, **Suspect** will be displayed on top of live view.

**NOTE**

- ◆ False alarms and missed detection may occur when temperature difference of the areas with insulation anomalies is too subtle to be recognized, or when the thermal imaging features are not obvious.
- ◆ It is recommended to give a second diagnosis based on SuperScene function. The algorithm of SuperScene function is being updated.

Insulation

To detect indoor insulation deficiency of building walls, ceilings, common users can apply this scene.

SuperScene technology can assist in fast recognition for anomalies during insulation detection. When **SuperScene** is enabled and insulation anomalies are detected, **Suspect** will be displayed on top of live view.

**NOTE**

- ◆ False alarms and missed detection may occur when temperature difference of the areas with insulation anomalies is too subtle to be recognized, or when the thermal imaging features are not obvious.
- ◆ It is recommended to give a second diagnosis based on SuperScene function. The algorithm of SuperScene function is being updated.

Floor Heating

To detect and observe the faults of floor heating system.

Electrical Faults

To detect and observe the faults of wires, circuits, electrical components, and terminators, etc.

Macro Mode

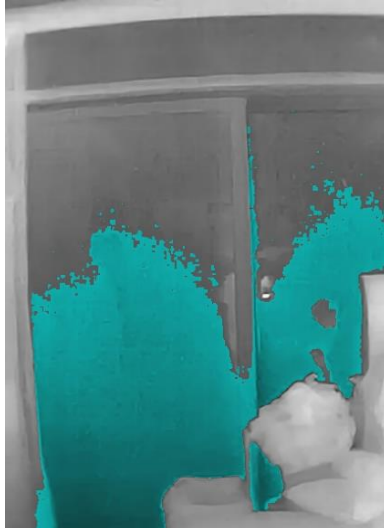
To closely detect and observe the faults of precision components, for example, PCBs.

Purchase and install a macro lens to your camera before choosing this mode. See *Chapter 7 (Optional) Set Macro Mode*.

Solar Panel

To detect and observe the faults of solar panels.

Insulation Pro (If applicable)



This mode is for professional users to detect indoor insulation anomalies of building walls and ceilings. Extra parameters as **Indoor Temp.**, **Outdoor Temp.** and **Insulation Level** are required.

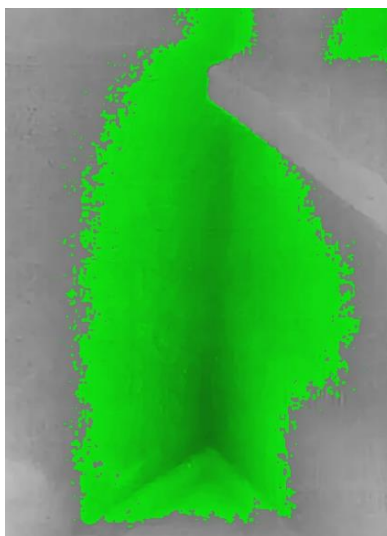
If indoor temperature is lower than or equal to outdoor temperature, areas where the detected insulation level exceeds a preset value in **Insulation Level** will be marked in cyan. If indoor temperature is higher than outdoor temperature, areas where the detected insulation level falls below a preset value of **Insulation Level** will be marked in cyan.



NOTE

- ◆ **Indoor Temp:** The current indoor temperature.
- ◆ **Outdoor Temp:** The current outdoor temperature.
- ◆ **Insulation Level:** An integer from 0 ~ 100. Typical values are 60~80% for new buildings. Refer to your national building code for recommendations.

Condensation (If applicable)



To inspect potential moisture problems indoors. It is a prerequisite to set **Relative Humidity**, **Ambient Temp.**, and **RH Threshold(%)**.

Areas with condensation deficiency will be marked in green when the detected relative humidity exceeds the set **RH Threshold**.

**NOTE**

- ◆ **Relative humidity:** The current relative humidity.
- ◆ **Ambient temperature:** The current atmospheric temperature.
- ◆ **RH Threshold:** Humidity upper limits of the target surface. A relative humidity of 100% means that water vapor condenses from the air as liquid water (= dewpoint), and a relative humidity of about 70% or above can cause mold.
- ◆ Values of **Relative Humidity** and **Ambient Temp.** can be obtained from hygrometers and thermometers respectively.

Custom

Users can customize a mode to save desired temperature measurement parameters for future use. See 3.2 (Optional) Set Scene Mode Parameters.

3.2 (Optional) Set Scene Mode Parameters

To obtain a more precise detection results, users can fine-tune the related parameters

1. In Scene mode, choose an appropriate scene and then press to set parameters.
2. Adjust the parameters according to the table.
3. Press to save and exit.

**NOTE**

Parameters vary from the different scenes.

Parameters	Description
Emissivity	Set the emissivity according to your target.
Palettes	Thermal images are created by temperature difference. Users can switch different palettes as preferred.
Level & Span	Temperature scale on right side supports browsing color-temperature relationship in the image. Set the level & span parameters to get better image contrast. See 6.4 Set Level & Span.
Temperature Range	Select the temperature measurement range. The device can detect the temperature and switch temperature measurement range automatically in Auto Switch mode.
Alarm	When the temperature of targets triggers the set alarm rule, users can be notified in the set ways. See Chapter 5 Set Alarms.
Color Distribution	<p>Linear and Histogram modes are selectable for different application scenes, so as to display more details.</p> <ul style="list-style-type: none"> ◆ Linear: Detect small high temperature targets in low temperature background to enhance and display more details of high temperature targets, such as cable connectors. ◆ Histogram: Detect small low temperature targets in high temperature areas to enhance temperature difference and remain details of low temperature objects, such as cracks.

CHAPTER 4 PRECISE TEMPERATURE MEASUREMENT

To get more precise and real-time temperature of the target, user can set spot tools and alarm as needed.




1. For models with scene modes, select a proper scene to speed up the measurement settings. See **Chapter 3 Start With Scene Mode (If Applicable)**.
2. Verify temperature values in the top-left corner of live view. If they are not precise enough, fine-tune temperature measurement parameters. See **4.1 Set Temperature Measurement Parameters**.
3. (Optional) Users set spot tools to get the real-time temperature of the highest/lowest/center temperature spot. See **4.2 Set Measurement Tools**.
4. (Optional) Set the alarm. The target whose temperature value is above or below the set threshold value can trigger the alarm. See **Chapter 5 Set Alarms**.

4.1 Set Temperature Measurement Parameters

You should set temperature measurement parameters before measuring temperature.

4.1.1 Adjust Distance



The distance between the camera and the observation target affects the accuracy of the temperature results. Before temperature measurement, users should set the distance first.

1. In the live view interface, press  to show the menu.
2. Press  to select **Distance**, and then set parameters.
3. Press  to save and exit.




4.1.2 Adjust Emissivity

Emissivity directly affects the measurement accuracy and it is necessary to be re-adjusted according to the characteristics of the target material.

◆ *For models with scene mode:*


- 1) In Scene mode, choose an appropriate scene and then press  to set parameters.
- 2) Adjust the parameters.
- 3) Press  to save and exit.

◆ *For models without scene mode:*

- 1) In the live view interface, press  to show the menu.
- 2) Press  to select **Emissivity**, and then set parameters.
- 3) Press  to save and exit.










4.1.3 (Optional) Adjust Other Parameters

To improve the accuracy of temperature measurement, fine-tune temperature measurement parameters.

- ◆ **Temperature Range:** Go to **Settings > Temperature Range**, and select the temperature measurement range. The device can detect the temperature and switch temperature measurement range automatically in Auto Switch mode.
- ◆ **Unit:** Go to **Display Settings > Unit**, and press  to set the temperature unit.

4.2 Set Measurement Tools

Device measures the temperature of the whole scene and can be managed to display the center, hot, and cold spot in the scene.

1. In the live view interface, press  to show the menu.
2. Press  to select **Display Settings**.
3. Select the desired spots to show their temperatures, and press  to enable them.
 - ◆ **Hot:** Display the hot spot in the scene and show the max. temperature.
 - ◆ **Cold:** Display the cold spot in the scene and show the min. temperature.
 - ◆ **Center:** Display the center spot in the scene and show the center temperature.
4. **Optional:** You can customize the user-defined spots if needed.
 - 1) Select a user-defined spot, and press .
 - 2) Press /// to adjust the position of the spot.
 - 3) Press the trigger to finish setting.
5. Press  to save and exit.

**NOTE**

If there is serious inaccuracy in temperature results, turn off SuperTemp button by Settings > SuperTemp.
SuperTemp function is ONLY supported by some models.



Result


The device shows the real-time temperature on the upper left side of live view interface.





CHAPTER 5 SET ALARMS

Set the alarm rules and the device will alarm when the temperature triggers the rule.




For models with scene mode:

1. In **Scene** mode, choose an appropriate scene and then press  to set parameters.
2. Press , and select **Alarm**.


 **NOTE** ONLY some scenes support Alarm. Please refer to your actual device.

3. Select **Measurement** to set the alarm rule. Select **Alarm Threshold** to set the threshold temperature. When the target's temperature is higher or lower than the threshold value, the device will output alarm and other alarm linkage.
4. Press  to save and exit.
5. Press , and press  to enable the **Alarm Linkage** function.
 - ◆ **Flashing Alarm:** The flash light flashes when the target temperature exceeds the alarm threshold (only supported by certain models).
 - ◆ **Audible Warning:** The device beeps when target temperature exceeds the alarm threshold.
 - ◆ **Alarm Mode Palettes:** When the target's temperature is higher than the set value, the target will become red; when the target's temperature is lower than the set value, the target will become blue (only supported by certain models).
6. Press  to save and exit.

For models without scene mode:

1. In the live view interface, press  to show the menu.
2. Press , and select **Alarm** and turn it on.
3. Press  to enable the **Alarm Linkage** function.
 - ◆ **Flashing Alarm:** The flash light flashes when the target temperature exceeds the alarm threshold (only supported by certain models).
 - ◆ **Audible Warning:** The device beeps when target temperature exceeds the alarm threshold.
 - ◆ **Alarm Mode Palettes:** When the target's temperature is higher than the set value, the target will become red; when the target's temperature is lower than the set value, the target will become blue (only supported by certain models).


 **NOTE** The flash light will turn off automatically after enabling flashing alarm.

4. Select **Measurement** to set the alarm rule. Select **Alarm Threshold** to set the threshold temperature. When the target's temperature is higher or lower than the threshold value, the device will output alarm and other alarm linkage.
5. Press  to save and exit.

CHAPTER 6 DISPLAY SETTINGS

6.1 Set SuperIR

The device supports **SuperIR** on live view (for some models) and on snapshots. Turn on **SuperIR** to enhance the object outlines for better image display. The actual effect is subject to the actual product.

Go to **Settings > SuperIR**, and press  to turn it on/off.

- ◆ On live view: For some models, the object outlines can be enhanced in live view when SuperIR is on.
- ◆ On captured images: the object outlines in the image are enhanced after SuperIR is on.

6.2 Set Image Modes

You can set image modes of the device. **Image Mode** is only supported by certain models. Please refer to the actual device or the datasheet.


1. Select an image mode by the following ways:
 - ◆ Go to **Settings > Image Settings > Image Mode**, and select a preferred image mode.
 - ◆ Press  in live view to switch image modes.

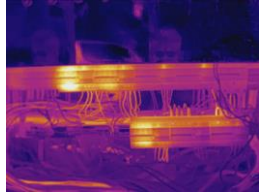
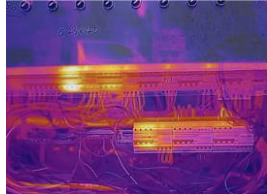
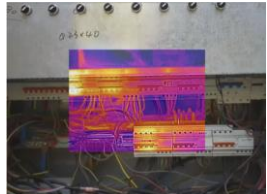
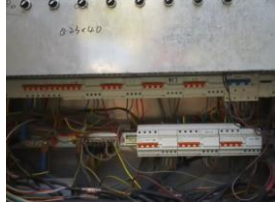

Image Mode	Description	Example
Thermal	In thermal mode, the device displays the thermal view.	
Fusion	Thermal object image with visual outlines. This function is only supported by the models with visual lens.	
PIP	In PIP (Picture in Picture) mode, the device displays thermal view inside the visual view. This function is only supported by the models with visual lens.	



Image Mode	Description	Example
Visual	Visual object image only. This function is only supported by the models with visual lens.	

2. Press  to save and exit.

 **NOTE** Your camera will periodically perform a self-calibration to optimize image quality and measurement accuracy. In this process, the image will pause briefly and you'll hear a "click" as a shutter moves in front of the detector. The prompt "Image Calibrating ..." appears in the upper center of the screen as the device is calibrating itself. The self-calibration will be more frequent during start up or in very cold or hot environments.

6.3 Set Palettes

The palettes allow you to select the desired colors. You can switch palettes by the following ways:

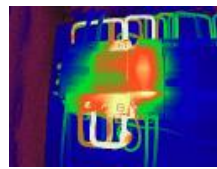
- ◆ Go to **Settings > Palettes** to select a preferred palette, and press  to save and exit.
- ◆ Press  in live view to switch palettes.



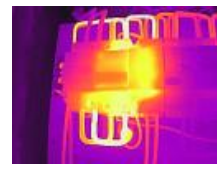
Black Hot



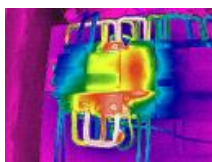
White Hot



Rainbow



Ironbow



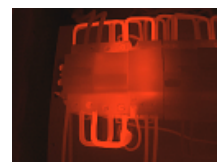
Rain




Blue Red



Fusion










Red Hot

 **NOTE**

- ◆ The palettes above are for demonstration only. Please refer to your device.
- ◆ Specific palettes can be switched in "Settings > Scene Mode." Some scene modes do not support palettes switching; see 4.1.3 (Optional) Adjust Other Parameters for details.

6.4 Set Level & Span

Set a display temperature range and palette only works for targets within the temperature range. You can get better image contrast by adjusting the level & span parameters.

1. In the live view interface, press  to show the menu.
2. Press , and select **Level & Span**.
3. Select **Setting Mode**, and press  to switch auto and manual adjustment.
 - ◆ In **Auto** mode, the device adjusts display temperature range automatically.
 - ◆ In **Manual** mode, select **Parameters** to enter the setting interface. Press  to lock or unlock the max. temperature and min. temperature, and press  to adjust unlocked value. Or, unlock the max. temperature and min. temperature, and press  to increase or decrease the individual values while remaining the same temperature range.
4. Press  to save and exit.


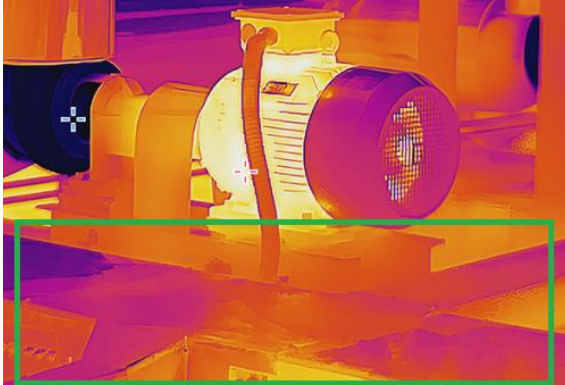
**NOTE**

If the device supports scene modes, adjust the Level & Span in scene modes. See 4.1.3 (Optional) Adjust Other Parameters for details.

6.5 Set Color Distribution

Color distribution function provides different image display effects in auto level & span. Linear and histogram color distribution modes can be selected for different application scenes.

1. Go to **Image Settings > Color Distribution**.
2. Select a color distribution mode.

Mode	Description	Example
Linear	Linear mode is used to detect small high temperature targets in low temperature background. Linear color distribution enhances and displays more details of high temperature targets, which is good for checking small high temperature defective areas such as cable connectors.	
Histogram	Histogram mode is used to detect temperature distribution in large areas. Histogram color distribution enhances high temperature targets and remains some details of low temperature objects in the area, which is good for discovering small low temperature targets such as cracks.	

3. Press  to save and exit.


**NOTE**

This function is only supported in auto level & span. If the device supports scene modes, adjust the Level & Span in scene modes. See 4.1.3 (Optional) Adjust Other Parameters for details.

6.6 Set Screen Brightness

Go to **Settings > Display Settings > Screen Brightness** to adjust the screen brightness.

6.7 Display On-Screen Info




Go to **Settings > Display Settings** and press  to turn on/off the on-screen information display.

- ◆ **Parameters:** Temperature measurement parameters, for example, target emissivity, distance, etc.
- ◆ **Brand Logo:** The brand logo is a manufacturer logo overlapped on images.
- ◆ **Temperature Scale:** Display the palettes bar and temperature range on the right side of the screen.

CHAPTER 7 (OPTIONAL) SET MACRO MODE

In the macro mode, you can focus extremely close on a very small object, and the object appear much larger in the view (and in the final image) compared to the standard lens.

Before You Start

- ◆ Install the macro lens before using this function. Refer to the quick start guide of the macro lens for detailed operation.
 - ◆ The macro lens is not included in the package. Please purchase it separately. Without a macro lens, the live view may appear abnormal.
1. In the live view interface, press  and go to **Image Settings > Macro Mode**.
 2. Press  to enable the function.
 3. Press  to save and exit.
 4. Set emissivity and palettes as need. The distance between the camera and the target should be within 0.3 m.



NOTE

- ◆ After enabling the macro mode, only the emissivity and palettes can be modified. Parameters such as distance, image mode, and measurement range cannot be modified.
- ◆ After this function is turned off, the parameters will be restored to the previous set values, and the temperature range will be set to auto switch.

CHAPTER 8 SNAPSHOTS AND VIDEOS

8.1 Capture Snapshots

You can capture snapshots in live view, and a thumbnail of the snapshot is displayed in live view. The snapshot will be automatically saved in the albums.

In the live view interface, you can capture snapshots by the following ways.

- ◆ Press and release the trigger in live view to capture snapshots.
- ◆ Hold the trigger in live view to locate the target with laser light, and release the trigger to capture snapshots (only supported by the models with laser light).



NOTE

- ◆ For models with flash light, go to **Settings > Flashlight** to turn on/off flash light in the dark environment.
- ◆ For models with laser, go to **More Settings > Laser** to turn on/off laser light.
- ◆ You cannot capture snapshots when the device is connected with PC.

You can also set the following parameters in **Settings > Capture Mode** before capturing snapshots.

Parameters	Description
Capture Mode	<ul style="list-style-type: none"> ◆ Capture One Image: Press the trigger once to capture one image. ◆ Scheduled Capture: Set Interval (the time interval of each snapshot to be taken) and Number (the number of snapshots to be taken in a roll, ranging from 1 to 10,000) for scheduled capture. Press the trigger in live view, and the device captures the set number of images according to the set interval. Press the trigger again to stop capturing.
File Naming	The files can be named after Time Stamp or Numbering (filename header + sequence number).
Save Visual Image	If a visual image is needed to be saved separately, you can enable Save Visual Image (only supported by the models with visual lens).



NOTE




For **Scheduled Capture**, a counter displays in live view showing the completed amounts of capturing.

8.2 Record Video



NOTE









- ◆ If the shooting environment is dark, you can turn on the flashlight for illumination.
- ◆ Since video recording and the laser share the same trigger button:
For devices without laser, follow **step 2 and 3** for recording.
For devices with laser, follow **step 1 to 3** for recording.

1. **Optional:** In the live view interface, press  and go to **Settings > Capture Mode**. Press , and enable **Record**. Press  to save and back to the live view.









2. Hold the trigger in live view. When the recording icon and time display in the interface, recording begins, and you can release the trigger.
3. Press the trigger completes the recording. The device will display a pop-up notification saying "Recording Succeeded". The recording video will be saved.

8.3 View Snapshots and Videos

8.3.1 View Snapshots

1. In the live view interface, press  to show the menu.
2. Press  to select **Albums**, and press  to enter the album.
3. Press  to select the snapshot, and press  to view it.
4. **Optional:** Press  to delete picture in picture view interface. Press  to switch the picture.
5. Press  to exit.

8.3.2 View Videos

1. In the live view interface, press  to show the menu.
2. Press  to select **Albums**, and press  to enter the album.
3. Press  to select the video, and press  to view it.
4. **Optional:** Press  to delete video in view interface. Press  to switch the picture.
5. Press  to exit.

8.4 Export Snapshots and Videos

8.4.1 Export via HIKMICRO Viewer (If Applicable)

If your camera models support **Wi-Fi** and **Hotspot**, you can export snapshots and Videos via HIKMICRO Viewer.

1. Launch HIKMICRO Viewer and add the device. See 9.2 *Connect Device to HIKMICRO Viewer*.
2. Select **On-Device Files** on the app to access the on-device albums.
3. Select a file, and tap **Download** to save to your local albums.

8.4.2 Export via PC




1. Connect the device to your PC with the supplied USB cable, and select **USB Drive** mode in the prompt on device.
2. Open the detected disk, copy and paste the videos or snapshots to PC to view the files.
3. Disconnect the device from your PC.

**NOTE**

For the first connection, the driver will be installed automatically.

8.5 Generate Report

For the models with **Wi-Fi** and **Hotspot**, you can generate reports of radiometric images via HIKMICRO Viewer for further analysis.

1. Add the device to HIKMICRO Viewer. See 9.2 *Connect Device to HIKMICRO Viewer*.
2. Tap Albums on the app to enter the albums.
3. Tap  to select the radiometric images to be analyzed. You can select at most 30 images.
4. Tap  to generate reports. You can choose from **Thermography Report** and **Temperature Curve Report (Simplistic)**.
5. Enter the information according to your needs, and tap **Next** to generate reports.
6. Optional: Edit **NOTES** for the report.
7. Optional: Tap  to share the report or save as a local file.

**NOTE**

The operations on the app may be different due to the app upgrades. Please refer to the user manual of the app for detailed information.

CHAPTER 9 DEVICE CONNECTIONS

9.1 Cast Device Screen to PC

The device supports casting screen to PC by UVC protocol-based client software or player. You can connect the device to your PC via the supplied USB cable, and cast the real-time live view of the device to your PC.

1. Download the UVC protocol-based client software from our official website:

 <https://www.hikmicrotech.com/en/industrial-products/uvc-client/>

2. Connect the device to your PC via the supplied USB cable, and select **USB Cast Screen** in the prompt on the device as the USB mode. Exporting files via USB connection is not allowed when you are casting the screen.
3. Open UVC Alarm Client on your PC.






9.2 Connect Device to HIKMICRO Viewer

Connect the device to HIKMICRO Viewer via hotspot or Wi-Fi, and users can view image, capture snapshot, and record videos on mobile phones.

9.2.1 Connect via Wi-Fi (If Applicable)

Before You Start

Download and install HIKMICRO Viewer on your phone.

1. Connect your device to a Wi-Fi network.
 - 1) In the live view interface, press  and go to **More Settings > WLAN**.
 - 2) Press  to enable the function.
 - 3) Press  to select Wi-Fi, and enter the password.
 - 4) Press  to save and exit.
2. Add the device to the app.
 - ◆ Using Wi-Fi password.
 - 1) Enter password on phone to join the same Wi-Fi network.
 - 2) Launch the app and follow the startup wizard to search and add the device to the app.
 - ◆ Scanning the Wi-Fi QR code.
 - 1) Select the connected Wi-Fi, and press  on device to show the Wi-Fi QR code.
 - 2) Launch the app to scan to join the same Wi-Fi and add the device.



NOTE



- ◆ DO NOT enter **space** in your password, or the password may be incorrect.
- ◆ Wi-Fi function is only supported by certain models. Please refer to your device.

9.2.2 Connect via Hotspot (If Applicable)

Before You Start

Download and install HIKMICRO Viewer on your phone.

1. Turn on the device hotspot and complete hotspot settings.

- 1) Go to **Settings > More Settings > Hotspot**, and press  to turn on hotspot. You can see the device's hotspot name.
- 2) Set the hotspot password.
- 3) Press  to save and exit.

2. Add the device to the app.

◆ Using hotspot password:

- 1) Enable the Wi-Fi function of other equipment and search the device hotspot to join.
- 2) Launch the app and add the device.


◆ Using hotspot QR code: Scan the QR code with HIKMICRO Viewer to join the hotspot, and add the device.



- ◆ DO NOT enter **space** in your password, or the password may be incorrect.
- ◆ Hotspot function is only supported by certain models. Please refer to your device.

CHAPTER 10 MAINTENANCE

10.1 Set Time and Date

In the live view interface, press  and go to **Display Settings > Time and Date** to set the information.

10.2 Set Language



Go to **More Settings > Language** to select a required language.


10.3 Save Operation Logs

The device can collect its operation logs and save in the storage only for troubleshooting. You can turn on/off this function in **Settings > More Settings > Save Logs**.

You can connect the camera to PC using the supplied USB cable, and select USB Drive as the USB mode on camera to export the operation logs (.log files) in the root directory of the camera, if necessary.

10.4 Format Storage

1. In the live view interface, press  and go to **More Settings > Format Storage**.
2. Press  and select **OK** to start formatting storage.

 **NOTE** Format storage before first use.

10.5 View Device Information

Go to **More Settings > About** to view the detailed information of the camera, such as firmware version, serial number, etc.

10.6 Upgrade

10.6.1 Upgrade Device via Upgrade File

Before You Start

Please download the upgrade file from the official website <http://www.hikmicrotech.com> or contact the customer service and technical support to get the upgrade file first.

1. Connect the device to your PC via the supplied USB cable, and select **USB Drive** as the USB mode in the prompt on the device.
2. Unzip the upgrade file and copy it to the root directory of the device.
3. Disconnect the device from your PC.
4. Reboot the device and then it will upgrade automatically. The upgrading process will be displayed in the main interface.

**NOTE**

After the upgrading, the device automatically reboot. You can view the current version in **More Settings > About**.


10.6.2 Upgrade Device via HIKMICRO Viewer

Before You Start

Make sure that you have installed HIKMICRO Viewer on your phone. Please see 9.2 *Connect Device to HIKMICRO Viewer* for instruction.

1. Launch HIKMICRO Viewer on your phone.
2. Upgrade the device. You can choose one of the following path:
 - ◆ In the home screen, tap **Device Upgrade > Check for Updates**.
 - ◆ In the home screen, tap **Device Info > Device Upgrade > Check for Updates**.

10.7 Restore Device

In the live view interface, press  and go to **More Settings > Restore Device** to initialize the device and restore default settings.

CHAPTER 11 **FAQ**

11.1 Frequently Asked Questions (FAQ)

Scan the following QR code to get device common FAQ.



LEGAL INFORMATION

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About this Manual

The Manual includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this Manual at the HIKMICRO website (<http://www.hikmicrotech.com>).

Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

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IN THE EVENT OF ANY CONFLICTS BETWEEN THIS MANUAL AND THE APPLICABLE LAW, THE LATTER PREVAILS.

REGULATORY INFORMATION

These clauses apply only to the products bearing the corresponding mark or information.

FCC Compliance Statement

Note: This product has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Directive 2014/30/EU (EMCD), Directive 2014/35/EU (LVD), Directive 2011/65/EU (RoHS), Directive 2014/53/EU (RED).

Hereby, Hangzhou Microimage Software Co., Ltd. declares that this device (refer to the label) is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<https://www.hikmicrotech.com/en/support/download-center/declaration-of-conformity/>

RF Exposure Information

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure.

Frequency Bands and Power (for CE)

The frequency bands and transmitting power (radiated and/or conducted) nominal limits applicable to the following radio equipment are as follows:

Wi-Fi: 2.4 GHz (2.4 GHz to 2.4835 GHz): 20 dBm.

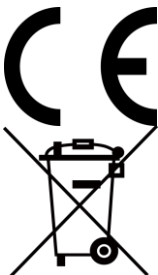
For the device without a supplied power adapter, use the power adapter provided by a qualified manufacturer. Refer to the product specification for detailed power requirements.

For the device without a supplied battery, use the battery provided by a qualified manufacturer. Refer to the product specification for detailed battery requirements.



Directive 2012/19/EU (WEEE Directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see:

www.recyclethis.info



Regulation (EU) 2023/1542 (Battery Regulation): This product contains a battery and it is in conformity with the Regulation (EU) 2023/1542. The battery cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), or lead (Pb). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-003 (B)/NMB-003 (B) standards requirements.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.

Conformité Industrie Canada ICES-003

Cet appareil répond aux exigences des normes CAN ICES-003 (B)/NMB-003 (B).

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils

radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

ce matériel est conforme aux limites de dose d'exposition aux rayonnements, CNR-102 énoncée dans un autre environnement

KC

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Elektro- und Elektronikgeräte, die zu Abfall geworden sind, werden als Altgeräte bezeichnet. Besitzer von Altgeräten haben diese einer vom unsortierten Siedlungsabfall getrennten Erfassung zuzuführen. Altgeräte gehören insbesondere nicht in den Hausmüll, sondern in spezielle Sammel- und Rückgabesysteme.

2. Batterien und Akkus sowie Lampen:

Besitzer von Altgeräten haben Altbatterien und Altakkumulatoren, die nicht vom Altgerät umschlossen sind, die zerstörungsfrei aus dem Altgerät entnommen werden können, im Regelfall vor der Abgabe an einer Erfassungsstelle vom Altgerät zu trennen. Dies gilt nicht, soweit Altgeräte einer Vorbereitung zur Wiederverwendung unter Beteiligung eines öffentlich-rechtlichen Entsorgungsträgers zugeführt werden.

3. Möglichkeiten der Rückgabe von Altgeräten:

Besitzer von Altgeräten aus privaten Haushalten können diese bei den Sammelstellen der öffentlich-rechtlichen Entsorgungsträger oder bei den von Herstellern oder Vertreibern im Sinne des ElektroG eingerichteten Rücknahmestellen unentgeltlich abgeben.

Rücknahmepflichtig sind Geschäfte mit einer Verkaufsfläche von mindestens 400 m² für Elektro- und Elektronikgeräte sowie diejenigen Lebensmittelgeschäfte mit einer Gesamtverkaufsfläche von mindestens 800 m², die mehrmals pro Jahr oder dauerhaft Elektro- und Elektronikgeräte anbieten und auf dem Markt bereitstellen. Dies gilt auch bei Vertrieb unter Verwendung von Fernkommunikationsmitteln, wenn die Lager- und Versandflächen für Elektro- und Elektronikgeräte mindestens 400 m² betragen oder die

gesamten Lager- und Versandflächen mindestens 800 m² betragen. Vertreiber haben die Rücknahme grundsätzlich durch geeignete Rückgabemöglichkeiten in zumutbarer Entfernung zum jeweiligen Endnutzer zu gewährleisten. Die Möglichkeit der unentgeltlichen Rückgabe eines Altgerätes besteht bei rücknahmepflichtigen Vertreibern unter anderem dann, wenn ein neues gleichartiges Gerät, das im Wesentlichen die gleichen Funktionen erfüllt, an einen Endnutzer abgegeben wird.

4. Datenschutz-Hinweis:

Altgeräte enthalten häufig sensible personenbezogene Daten. Dies gilt insbesondere für Geräte der Informations- und Telekommunikationstechnik wie Computer und Smartphones. Bitte beachten Sie in Ihrem eigenen Interesse, dass für die Löschung der Daten auf den zu entsorgenden Altgeräten jeder Endnutzer selbst verantwortlich ist.

5. Bedeutung des Symbols „durchgestrichene Mülltonne“:



Das auf Elektro- und Elektronikgeräten regelmäßig abgebildete Symbol einer durchgestrichenen Mülltonne weist darauf hin, dass das jeweilige Gerät am Ende seiner Lebensdauer getrennt vom unsortierten Siedlungsabfall zu erfassen ist.



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