



**Firefighting Thermal Camera  
HIKMICRO FB Series**

**User Manual**



Contact Us

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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 ([www.hikmicrotech.com](http://www.hikmicrotech.com)).

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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) and Directive 2011/65/EU (RoHS).

Note: The products with the input voltage of within 50 to 1000 VAC or 75 to 1500 VDC comply with Directive 2014/35/EU (LVD), and the rest products comply with Directive 2001/95/EC (GPSD). Please check the specific power supply information for reference.



This product and - if applicable - the supplied accessories too are marked with "UKCA" and comply therefore with the following directives: Electromagnetic Compatibility Regulations 2016, Electrical Equipment (Safety) Regulations 2016, the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.

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

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.



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### **Industry Canada ICES-003 Compliance**




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

### **Conformité Industrie Canada ICES-003**

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

## **Safety Instruction**

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

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

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

### **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.

### **Power Supply**

- The input voltage should meet the Limited Power Source (3.7 VDC, 0.5 A) according to the IEC61010-1 standard. Please refer to technical

specifications for detailed information.

- 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.

## **Battery**

- The built-in battery cannot be dismantled. Please contact the manufacture for repair if necessary. The battery may explode if it is replaced by an incorrect type. Replace with the same or equivalent type only.
- 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.
- For long-term storage of the battery, make sure it is fully charged every half year to ensure the battery quality. Otherwise, damage may occur.
- 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 8 hours.

## **Maintenance**

- 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.
- 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 will hear a "click" as a shutter moves in front of the detector. The self-calibration will be more frequent during the startup or in very cold or hot environments. This is a normal part of operation to ensure optimum performance for your camera.

## **Calibration Service**

We recommend you send the device back for calibration once a year, and please contact the local dealer for the information on maintenance points. For more detailed calibration services, please visit <https://www.hikmicrotech.com/en/support/calibration-service.html>.

## **Technical support**

<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.

## **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). Up to 10 minutes for ambient temperature -10 °C to 90 °C (14 °F to 194°F); up to 2 minutes for ambient temperature -10°C to 115°C (14 °F to 239 °F). The humidity shall be less than 95%, non-condensing.

- DO NOT expose the device to high electromagnetic radiation or dusty environments.
- DO NOT aim the lens at the sun or any other bright light.

### **Emergency**

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

### **Manufacture Address:**

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

Hangzhou Microimage Software Co., Ltd.

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# 1 Introduction

## 1.1 Product Introduction

The firefighting thermal camera is a rugged, compact, high-quality thermal imaging camera designed for inspectors to observe in total darkness and smoke, helping to save lives, protect property, and keep inspectors safe. Various firefighting palettes can satisfy most scenarios.

## 1.2 Main Function

### **Temperature Measurement**

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

### **Firefighting Palettes**

Device supports multiple firefighting palettes including rescue, fire, building, hot area, cold area, etc.

### **Alarm**

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

### **SuperIR**

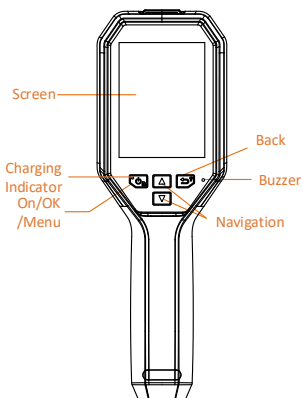
Device supports **SuperIR** to increase the image quality.

### **Client Software Connection**

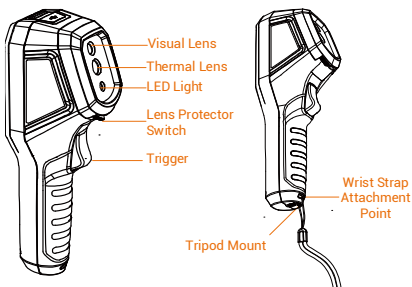
PC: You can download HIKMICRO Analyzer (<https://www.hikmicrotech.com/en/industrial-products/hikmicro-analyzer-software.html>) to analyze pictures offline professionally, and generate a custom format report on your PC.



## 1.3 Appearance



Button	Function
	Hold: Power on/off Press: Display menu or confirm operation.
	Live View: Hold to turn on/off LED light quickly. Menu Mode: Press to exit the menu or return to previous menu.
 	Live View: Press  to switch image modes, and press  to switch firefighting palettes. Menu Mode: Press  and  to select parameters.
Trigger	Live View: Pull the trigger to capture snapshots. Menu Mode: Pull the trigger to go back to live view.



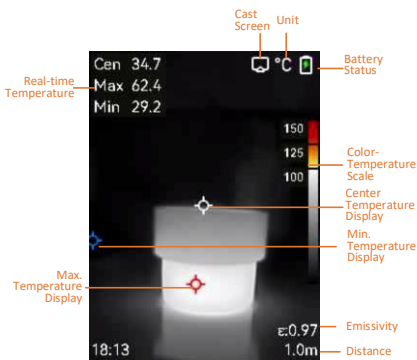
Component	Function
Charging Indicator	Solid Red: Charging normally. Solid Green: Fully charged.
Buzzer	Output audible alarm.
Type-C Interface	Charge the camera or export files with the included USB cable.
LED Light	Provide light in a dark environment.
Lens Protector Switch	Protect the thermal lens.
Tripod Mount	Mount the UNC 1/4"-20 tripod.

### Note

- The appearance and button functions may vary according to different models.
- It is recommended to switch on the lens protector when the camera is not in use.

## 1.4 Live View

The live view interfaces of different firefighting palettes may vary. Refer to the actual live view interfaces.



### Note





- Because this manual is updated on a regular basis, the interfaces might be slightly different from the version of your particular camera model. Please refer to the actual camera.
- 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 will hear a “click” as a shutter moves in front of the detector. The self-calibration will be more frequent during the startup or in very cold or hot environments. This is a normal part of operation to ensure optimum performance for your camera.

## 2 Getting Started

Follow the procedure to get started with the camera:

### Steps:

- 1 Charge the camera for 3 hours for the first time, or until the charging indicator remains solid green. Refer to **3.1 Charge Device** for more information.
- 2 Hold  to power on the camera.
- 3 Aim the camera at the target. Hold  to turn on the LED light if the environment is dark.
- 4 Press  to select a suitable image mode, and press  to select a suitable palette. Refer to **3.4 Set Image Mode** and **3.5 Set Firefighting Palettes** for more information.
- 5 Pull the trigger to capture an image.
- 6 Connect the camera to PC using the USB type-A to type-C cable, and you can do one of the following operations:
  - Export files to PC. Refer to **3.7 Manage Files** for more information.
  - Cast screen to PC by UVC protocol-based client software or player. Refer to **5.1 Cast Screen** for more information.

### Note

Make sure the lens protector is removed before turning on the camera.

## 3 Basic Operations

### 3.1 Charge Device

The camera is equipped with a built-in battery. It is recommended to charge the camera with the included USB cable in the package and the Type-C interface on camera. 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
- Power Output: 10 W

**Steps:**


- 1 Open the top cover of the camera.
- 2 Connect the type-C interface and the power adapter with the supplied USB cable.

 **Note**


- 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.

## 3.2 Power On/Off


### Power On

Remove the lens protector, and hold  for over three seconds to turn on the camera. You can observe the target when the interface of the camera is stable.


### Power Off

When the camera is on, hold  for three seconds to power off the camera.

### Set Auto Power-off Duration


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


### 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 camera for more than the set waiting time, the camera enters sleep mode automatically. Press a button to wake the camera up.


## 3.3 Set LED Light

Turn on the LED light in the dark environment. You can turn on/off LED light by the following ways:

- Hold  in live view to turn on/off the LED light quickly.

- Press , and go to **Flashlight** to turn on/off the LED light.



### 3.4 Set Screen Brightness

- 1 In the live view interface, press  to show the menu.
- 2 Go to **Display Settings > Brightness** to set the screen brightness.

### 3.5 Set Image Mode


You can set image modes of the camera.

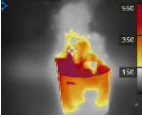
**Steps:**




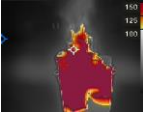

- 1 Select an image mode by the following ways:
  - Go to **Settings > Image Settings > Image Mode**, and select a preferred image mode.
  - Press  in live view to switch image modes.
    - Thermal: Display the thermal image only.
    - Fusion: Fuse the visual image with the thermal image. The fused image with clear edge is displayed in this mode.
    - PIP: Display a part of the thermal image on the visual image.
    - Visual: Display the visual image only.
- 2 **Optional:** When selecting the fusion mode, you need to select the distance in **Image Settings > Parallax Correction** according to the distance to the target, so as to better overlap the thermal and visual images.
- 3 Press  to save and exit.



### 3.6 Set Firefighting Palettes

The palettes allow you to select the desired colors.

Press  in live view to switch palettes, or go to **Settings > Palettes** to choose a palette.

Description	Example
<p><b>Basic (Default)</b> It is applicable to firefighting, and life searching and rescue. The real-time temperature is marked with the corresponding colors in the color-</p>	

Description	Example
temperature scale.	
<p><b>Fire Detection</b> It is applicable to scenes with many open fires and high background temperature. The display effect is similar to the basic mode. Only that the temperature threshold of red and yellow marking is higher.</p>	
<p><b>Black Hot</b> It is applicable to firefighting, and life searching and rescue. Black and white image. The temperature of darker areas is higher.</p>	
<p><b>White Hot</b> It is applicable to firefighting, and life searching and rescue. Black and white image. The temperature of white areas is higher.</p>	
<p><b>Rescue</b> It is suitable for searching and rescuing people in the field, building, or traffic accident scene. The display effect is similar to the basic mode. Only that the temperature threshold for red and yellow marking is lower.</p>	
<p><b>Building</b> It is applicable to building analysis and detection of building-related exceptions. Thermal images can provide information about structure, machinery, pipe, and electrical system.</p>	

Description	Example
<p><b>Hot Area</b> It is applicable to search remaining fire during overhaul after fire is basically out, people in water or open field, etc. High temperature areas are colored red.</p>	
<p><b>Cold Area</b> It is applicable to detect low temperature targets and cold spots in a fire like gas streams which may provide oxygen or fuel for burning, and mark them in blue.</p>	

### 3.7 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.

**Steps:**

- 1 In the live view interface, pull the trigger to capture a snapshot.
- 2 **Optional:** Go to **Settings > SuperIR** to enable **SuperIR** before capturing to enhance object outlines.
- 3 **Optional:** If a visual image is needed to be saved separately, go to **Settings > Capture Mode** to enable **Save Visual Image**.
- 4 **Optional:** Go to **Settings > Capture Mode** to set a capture mode.
  - **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 camera captures the set number of images according to the set interval. Press the trigger again to stop capturing.
- 5 **Optional:** Go to **Settings > Capture Mode > File Naming** to set the file naming rules before capturing.








## **Note**

You cannot capture snapshots when the camera is connected with PC.

### 3.8 Manage Files

You can view, delete, and export files in the albums.

#### **Steps:**

- 3 In the live view interface, press  to show the menu.
- 4 Select **Albums**, and press  to access albums.
- 5 Select an image of interest, and press  to view it. You can do one of the following when viewing images:
  - Press  to delete.
  - Press / to switch images.
  - Press  to exit.
- 6 Export files to PC.
  - 1) Connect the camera to your PC with USB cable and open the detected disk.
  - 2) Select **USB Drive** in the prompt on camera.
  - 3) Copy and paste the files to PC, and view the files.
  - 4) Disconnect the camera from your PC.







## 4 Temperature Measurement

The temperature measurement function provides the real-time temperature of the scene. The temperature information is displayed on the left top of your screen.


### 4.1 Set Measurement Parameters

You can set temperature measurement parameters to improve the accuracy of temperature measurement.

#### **Steps:**








- 1 In the live view interface, press  to show the menu.
- 2 Press / to select desired parameters.
- 3 Press  to go to the setting interface.
  - **Emissivity:** Enable **Custom**, and select **Emissivity** to set the emissivity of the target as the effectiveness in emitting energy as thermal radiation by pressing /. Or you can select a preset emissivity.



- **Distance:** Set the distance between the target and the camera.
  - **Unit:** Go to **Display Settings > Unit** to set the temperature unit.
- 4 Press  to save and exit.

## 4.2 Set Measurement Tools




### Steps:

- 1 In the live view interface, press  to show the menu.
- 2 Press , and select **Measurement**.
- 3 Select the hot spot, cold spot, center spot, or the user-defined spots that you want to show on live view.
- 4 **Optional:** You can customize the user-defined spots if needed.
  - 1) Go to **Measurement**, select a user-defined spot, and press .
  - 2) Press /// to adjust the position of the spot.
  - 3) Press the trigger to finish setting.
- 5 The camera shows the real-time temperature on the upper left side of live view interface.

## 4.3 Set Temperature Alarm

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

### Steps:

- 1 In the live view interface, press  to show the menu.
- 2 Press , and select **Alarm**.
- 3 Press  to enable the function, and you can enable **Flashing Alarm** or **Audible Warning** as required.

- **Flashing Alarm:** The LED light flashes when the target temperature exceeds the alarm threshold.


- **Audible Warning:** The camera beeps when target temperature exceeds the alarm threshold.

### **Note**

The LED light will turn off automatically after enabling flashing alarm.

- 4 Select **Measurement** to set the alarm rule (**More Than/Less Than**). Select **Alarm Threshold** to set the threshold temperature for alarms. The alarm will

be triggered if the temperature detected in the scene meets the preset alarm rule.

- 5 Press  to save and exit.

## 5 More Settings

### 5.1 Cast Screen

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

#### **Before You Start**

Download the software and install the client on your PC.

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




#### **Steps:**

- 1 Connect the camera to your PC with USB cable and open the detected disk.
- 2 Select **USB Cast Screen** in the prompt on camera.
- 3 Open the UVC client software on your PC, and you can view the live view and operation of the camera.

### 5.2 Set Brand Logo

The brand logo is a manufacturer logo displayed on the lower left corner of the screen.


#### **Steps:**

- 1 In the live view interface, press  and go to **Display Settings > Brand Logo**.
- 2 Press  to enable the function.
- 3 Press  to save and exit.


#### **Result**

The brand logo is added on the live view interface and snapshots.


### 5.3 View Device Information

In the live view interface, press  and go to **More Settings > About** to view the camera information.

### 5.4 Set Time and Date



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

## 5.5 Set Language

In the live view interface, press  and go to **More Settings > Language** to set the menu language.

## 5.6 Format Storage

### Steps:

- 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.

# 6 Maintenance

## 6.1 Upgrade

### *Before You Start*

- Download the upgrade package from the official website first.
- Go to **Settings > More Settings > Auto Power-off** to turn off auto power-off to prevent auto shutdown during the upgrade.

### Steps:

- 1 Connect the camera to your PC with supplied USB cable and select **USB drive** in the prompt on device.
- 2 Open the detected disk and unzip the upgrade package to obtain the upgrade file.
- 3 Copy the upgrade file and replace it to the root directory of the camera.
- 4 Disconnect the camera from your PC.
- 5 Reboot the camera and then it will upgrade automatically. The upgrading process will be displayed in the main interface.

### **Note**

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


## 6.2 Collect Operation Logs

The camera 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.

### 6.3 Restore Device

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

## 7 Frequently Asked

### Questions (FAQ)

Scan the following QR code for device common FAQ.





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YouTube: [HIKMICRO Thermography](#)

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