



HIKMICRO

# ECO Lite

Handheld  
Thermal  
Camera  
User Manual



Contact Us

# 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.

## ESD WARNING

- ◆ The camera lens is electrostatic-sensitive. Proper ESD protection required. Avoid touching the camera lens. Unauthorized contact may result in damage.

## Power Supply

- ◆ Input voltage should meet the Limited Power Source (5 VDC, 2 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 manufacturer 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 battery is full, the time settings can be kept for 60 days.
- ◆ The standard adapter power supply is 5 V.

## **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.
- ◆ This device can only be safely used in the region below 2000 meters above the sea level.
- ◆ Place the device in a dry and well-ventilated environment.
- ◆ 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.
- ◆ 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.

<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.

# CONTENTS

<b>Safety Instruction.....</b>	i
<b>Chapter 1 Introduction .....</b>	1
1.1 Important Notice to User.....	1
1.2 Main Function.....	1
1.3 Appearance.....	1
<b>Chapter 2 Preparation .....</b>	4
2.1 Charge Device.....	4
2.2 Power On/Off.....	4
2.3 Live View.....	5
<b>Chapter 3 Precise Temperature Measurement .....</b>	6
3.1 Set Temperature Measurement Parameters.....	6
3.1.1 Adjust Distance.....	6
3.1.2 Adjust Emissivity.....	6
3.1.3 (Optional) Adjust Other Parameters.....	7
3.2 Set Measurement Tools .....	7
3.3 Set Thermometer Mode .....	7
<b>Chapter 4 Set Alarms .....</b>	8
<b>Chapter 5 Display Settings .....</b>	9
5.1 Set Object Details Enhancement (ODE).....	9
5.2 Set Palettes.....	9
5.3 Color Distribution .....	9
5.4 Display On-Screen Info .....	10
<b>Chapter 6 Snapshots.....</b>	11
6.1 Capture Snapshots.....	11
6.2 View Snapshots.....	11
6.3 Export Snapshots .....	11

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<b>Chapter 7 Maintenance .....</b>	<b>12</b>
7.1 Set Time and Date .....	12
7.2 Set Language.....	12
7.3 Save Operation logs .....	12
7.4 Format Storage.....	12
7.5 View Device Information .....	12
7.6 Upgrade .....	12
7.7 Restore Device.....	13
<b>Chapter 8 FAQ.....</b>	<b>14</b>
8.1 Frequently Asked Questions (FAQ).....	14
<b>Legal Information.....</b>	<b>15</b>
<b>Regulatory Information .....</b>	<b>17</b>

# 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 Main Function

### ***Temperature Measurement***

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

### ***Palettes***

Device supports multiple color palettes for different targets and user preference.

### ***Thermometer Mode***

Device utilizes a red pointer to help users quickly locate temperature measurement points.

### ***Alarm***

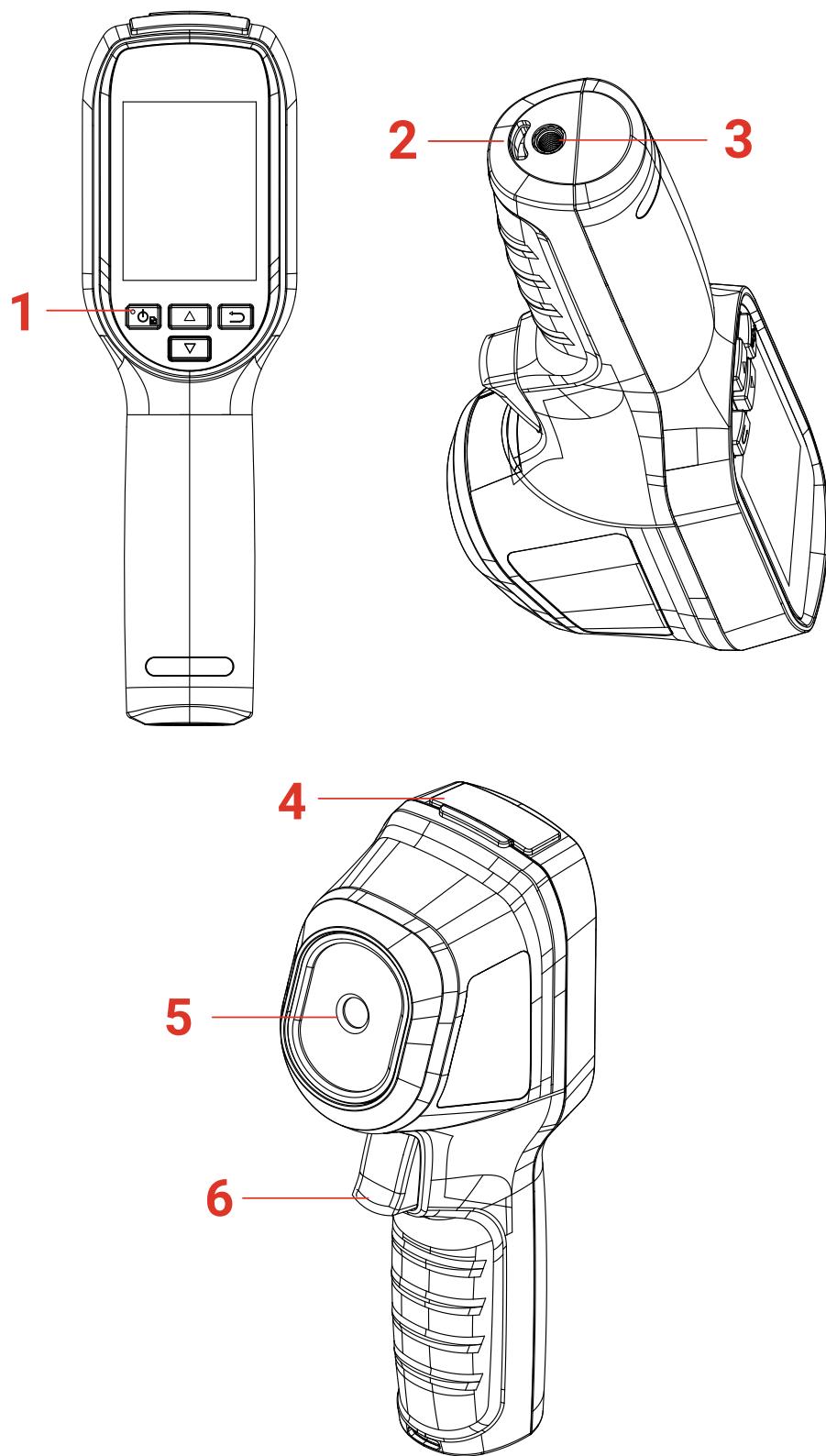
Device outputs visual alarm when the target's temperature is higher or lower than the threshold value.



**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.

## 1.3 Appearance

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



No.	Component	Function
1	Charging Indicator	◆ Solid Red: Charging. ◆ Solid Green: Fully charged.
2	Wrist Strap Hole	Mount the wrist strap.

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<b>3</b>	Tripod Mount	Connect to UNC 1/4"-20 tripod.
<b>4</b>	Type-C Interface	Charge the battery or export files.
<b>5</b>	Thermal Lens	View the thermal image.
<b>6</b>	Trigger	In live view: press to capture snapshots. In menu mode, press the trigger to go back to live view.

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<b>Button</b>	<b>Function</b>
	◆ Hold: Power On/Off ◆ Press: Display menu or confirm operation.
	Exit the menu or return to previous menu.
	In menu mode: Press  and  to select parameters.
	In live view mode: Press  to switch palette.

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## CHAPTER 2 PREPARATION

### 2.1 Charge Device

Plug in the included USB cable, and connect the device to the power supply via a power adapter to charge the device.

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

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

Check the power indicator for the charging status:

- ◆ Solid red: charging normally
- ◆ Flashing red: charging exception
- ◆ Solid green: fully charged



#### NOTE

- ◆ The power delivered by the charger must be between min 6.7 Watts required by the radio equipment, and max 8.1 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

Hold  for over six seconds to turn on the device. You can observe the target when the interface of the device is stable.



#### NOTE

It may take at least 30 s until the device is ready for using after you power on it.

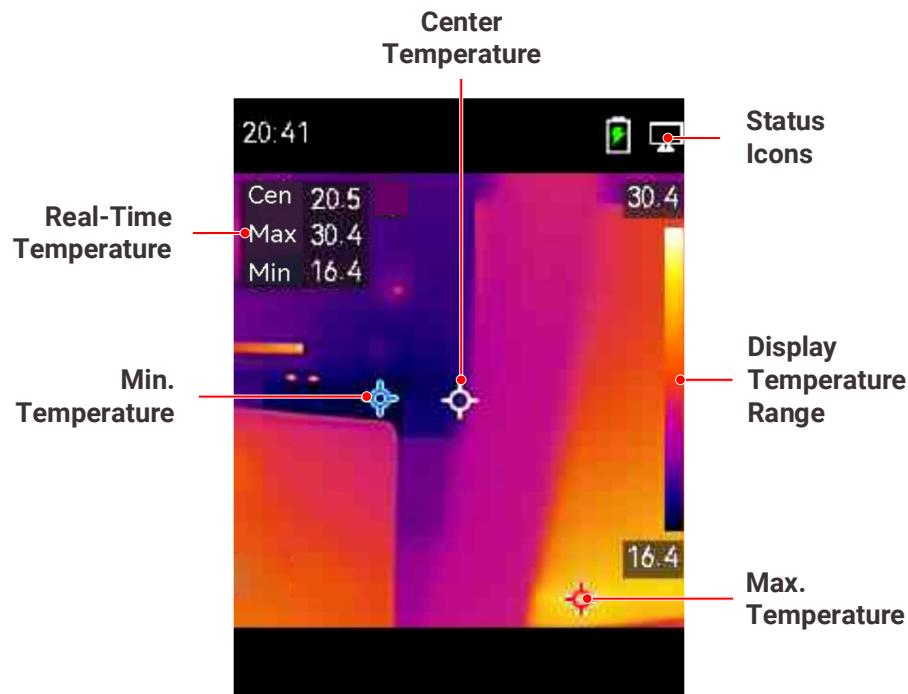
#### Power Off

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

#### 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.

## 2.3 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.
- ◆ 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. This is a normal part of operation to ensure optimum performance for your camera.

# CHAPTER 3 PRECISE TEMPERATURE MEASUREMENT

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

1. Verify temperature values in the top-left corner of live view. If they are not precise enough, fine-tune temperature measurement parameters. See **3.1 Set Temperature Measurement Parameters**.
2. (Optional) Users set spot tools to get the real-time temperature of the highest/lowest/center temperature spot. See **3.2 Set Measurement Tools**.
3. (Optional) Users can enable the thermometer mode to use the pointer function. See **3.3 Set Thermometer Mode**.
4. (Optional) Set the alarm. The target whose temperature value is above or below the set threshold value can trigger the alarm. See **Chapter 4 Set Alarms**.

## 3.1 Set Temperature Measurement Parameters

You should set temperature measurement parameters before measuring temperature.

### 3.1.1 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.

### 3.1.2 Adjust Emissivity

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

1. In the live view interface, press  to show the menu.
2. Press  to select **Emissivity**.
3. 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.
4. Press  to save and exit.

### 3.1.3 (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 > Temp. Unit**.
- ◆ Go to **Display Settings > Distance Unit**.

Press  to switch the unit.

## 3.2 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.

◆ **Max:** Display the hot spot in the scene and show the max. temperature.

◆ **Min:** Display the cold spot in the scene and show the min. temperature.

◆ **Cen:** Display the center spot in the scene and show the center temperature.

4. Press  to save and exit.

#### **Result**

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

## 3.3 Set Thermometer Mode

The Thermometer Mode utilizes a red pointer to help users quickly locate temperature measurement points. When enabled, the pointer indicates the target in the scene, allowing users to visualize its temperature in real time.

1. In the live view, press  to show the menu, then press  to enable Thermometer Mode. Press  to save and exit.
2. In the live view, a red indicator dot will appear at the center of the screen, accompanied by the temperature value of the target (consistent with the center point temperature).
3. Press the trigger. The device will capture an image of the current scene and save the temperature data.



**NOTE** In Thermometer Mode, the maximum, minimum, and center temperature values are not displayed in the top-left corner of the observation interface.

## CHAPTER 4 SET ALARMS

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

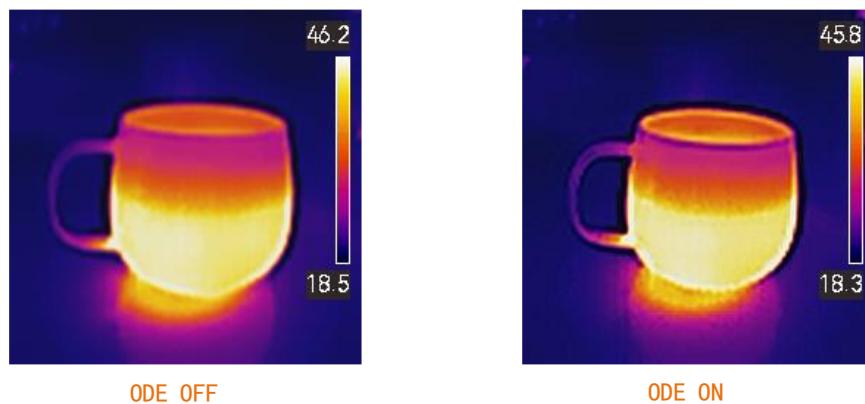
1. In the live view interface, press  to show the menu.
2. Press , and select **Alarm Settings**.
3. Press  to turn on alarm.
4. Select **Measurement** to set the alarm rule. Select **Alarm Threshold** to set the threshold temperature. When the target's temperature is higher or lower than the threshold value, the device will output alarm.
5. Press  to save and exit.

# CHAPTER 5 DISPLAY SETTINGS

## 5.1 Set Object Details Enhancement (ODE)

Object Details Enhancement (ODE) is used to enhance outline of certain targets. With this function enabled, target outline will be clearer, but noise of the image will be increased accordingly.

- ◆ Go to **Settings > ODE** to turn on the function.



## 5.2 Set Palettes

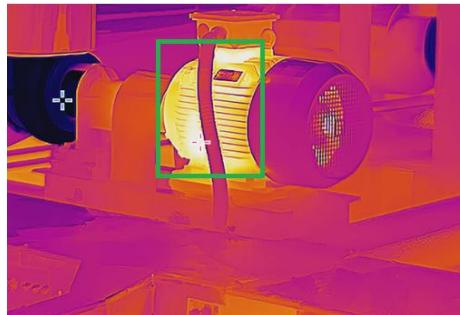
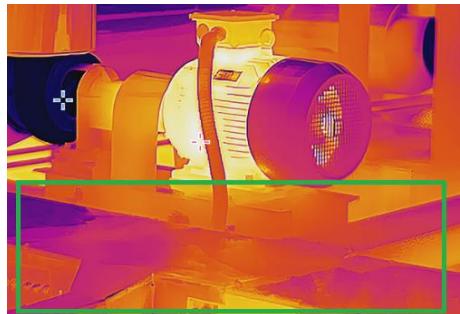
The palettes allow you to select the desired colors. You can switch palettes by the following ways:

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

## 5.3 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 **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.

## 5.4 Display On-Screen Info

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

- ◆ **Parameters:** Temperature measurement parameters, for example, target emissivity, temperature unit, etc.
- ◆ **Brand Logo:** The brand logo is a manufacturer logo displayed at the middle bottom of the screen.
- ◆ **Temperature Scale:** Display the palettes bar and temperature range on the right side of the screen.
- ◆ **Screen Brightness:** adjust the level of screen brightness as prefer.

# CHAPTER 6 SNAPSHOTS

## 6.1 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, press and release the trigger to capture snapshots.



**NOTE** You cannot capture snapshots when the device is connected with PC.

## 6.2 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.

## 6.3 Export Snapshots

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.

# CHAPTER 7 MAINTENANCE

## 7.1 Set Time and Date

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

## 7.2 Set Language

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

## 7.3 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 in the root directory of the camera, if necessary.

## 7.4 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.

## 7.5 View Device Information

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

## 7.6 Upgrade

### 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**.

## 7.7 Restore Device

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

## **CHAPTER 8 FAQ**

### **8.1 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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# REGULATORY INFORMATION

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

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

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](http://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](http://www.recyclethis.info).

## 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).

## KC

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## INFORMATIONEN FÜR PRIVATE HAUSHALTE

1. Getrennte Erfassung von Altgeräten:

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 m<sup>2</sup> für Elektro- und Elektronikgeräte sowie diejenigen Lebensmittelgeschäfte mit einer Gesamtverkaufsfläche von mindestens 800 m<sup>2</sup>, 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 m<sup>2</sup> betragen oder die gesamten Lager- und Versandflächen mindestens 800 m<sup>2</sup> 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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