Pocket Thermal Camera
HIKMICRO PocketE Series

User Manual

Contact Us

Legal Information

Read all information and instructions in this document carefully before using the device and keep it for further reference.
For more device information and instructions, please visit our website at http://www.hikmicrotech.com. You can also refer to other documents (if any) accompanying the device to get more information.

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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Frequency Bands and Power (for CE/UK)

The frequency bands and modes 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.

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see: www.recyclethis.info

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According to the Batteries and Accumulators (Placing on the Market) Regulations 2008 and the Waste Batteries and Accumulators Regulations 2009: This product contains a battery that cannot be disposed of as unsorted municipal waste in the United Kingdom. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). 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.
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.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.
ce matériel est conforme aux limites de dose d'exposition aux rayonnements, CNR-102 énoncée dans un autre environnement.

KC

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Symbol Conventions

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

Symbol	Description
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.

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.

Power Supply

- Input voltage should meet the Limited Power Source (3.85 VDC, 570 mA) 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.
- Use the power adapter provided by a qualified manufacturer. Refer to the product specification for detailed power requirements.

Battery

- Improper use or replacement of the battery may result in explosion hazard. Replace with the same or equivalent type only. 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 half year 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 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 6 months.
- In the first use, charge the device for more than 2.5 hours in the power-off status.
- The lithium battery voltage is 3.85 V, and the battery capacity is 2100 mAh.
- The battery is certified by UL2054.

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.
- A few device components (e.g., electrolytic capacitor) require regular replacement. The average lifespan varies, so periodic checking is recommended. Contact your dealer for details.
- 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.
- Please notice that the current limit of USB 3.0 PowerShare port may vary with the PC brand, which is likely to result in incompatibility issue. Therefore, it’s advised to use regular USB 3.0 or USB 2.0 port if the USB device fails to be recognized by PC via USB 3.0 PowerShare port.
- 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 start up 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 refer to https://www.hikmicrotech.com/en/support/calibration-service.html

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.
- 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.
- The level of protection is IP 54.
- The pollution degree is 2.

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.

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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Chapter 1 Overview

1.1 Device Description

The pocket thermal camera is a device with both visual images and thermal images. It can measure temperatures, record videos, take snapshots, and trigger alarms. The temperature measurement range is -20 °C to 350 °C (-4 °F to 662 °F), with the accuracy of ± 2 °C (± 3.6 °F) or 2% when the ambient temperature is 15 °C to 35 °C (59 °F to 95 °F) and the object temperature is above 0 °C (32 °F).
With its Wi-Fi/hotspot function, it can work with Apps on your phone.
The device is easy to use, and adopts ergonomic design. It is widely used for building inspection, HVAC, as well as electrical and mechanical equipment maintenance.

1.2 Main Function

Temperature Measurement

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

Fusion

Device can display fusion of thermal view and optical view.

Palettes

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

Client Software Connection

- Mobile Phone: You can view live view, capture snapshots, and record videos via HIKMICRO Viewer App on your phone. You can also, analyze pictures offline, generate and share a report via the app. Scan the QR codes on the cover to download the App.

HIKMICRO Viewer Android HIKMICRO Viewer iOS

- 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

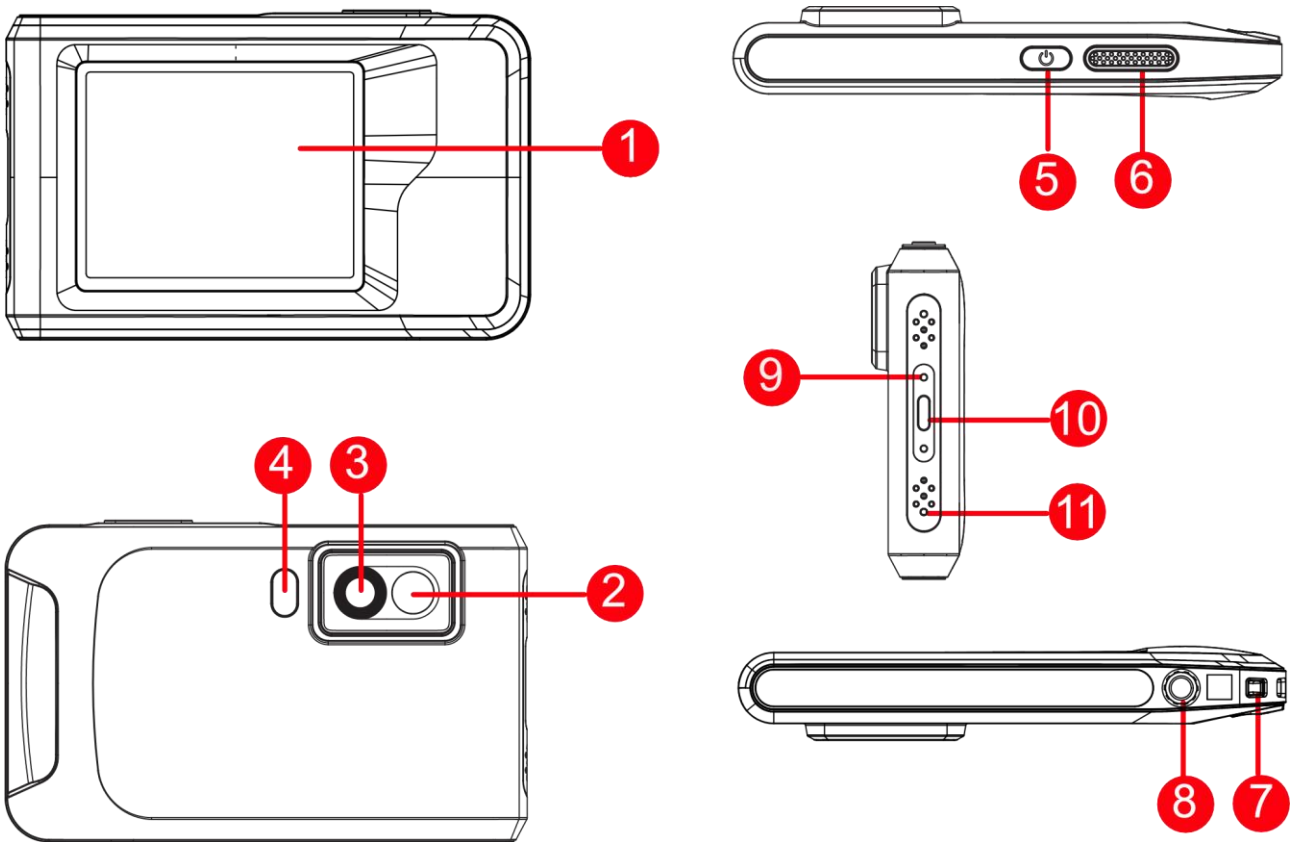

Figure 1-1 Appearance

Table 1-1 Button and Interface Description

No.	Description	Function
1	Touch Control	View image and operate device with touch

No.	Description	Function
	Screen	control.
2	Visual Lens	View the optical image.
3	Thermal Lens	View the thermal image.
4	Flash Light	Fill light on objects and output flashing alarm.
5	Power Key	Hold to power on/off the device.
6	Capture Key	Press to capture an image. Hold to start recording a video and press again to stop.
7	Strap Attachment Point	Mount the wrist strap.
8	Tripod Mount	Mount the tripod.
9	Charging Indicator	Indicate the charging status of the device. ● Solid red: charging normally ● Flashing red: charging exception ● Solid green: fully charged
10	Type-C Interface	Charge the device or export files with Type-C cable.
11	Microphone	Record audio.

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 "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 2 Preparation

2.1 Charge Device

Plug in the cable, and connect the device to the power supply to charge the device.
Check the indicator for the charging status.

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

2.2 Power On/Off

Power On

Hold ⏻ for over three 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 6 s until the device is ready for using when you power on it.

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 Duration

Select ⚙, and go to **Device Settings** → **Auto Power-off** to set the automatic shutdown time for device as required.

2.3 Operation Method

The device supports touch-screen control. You can tap the screen to operate the device.

2.4 Menus and Operations

Live View Interface

After starting-up, the screen shows the live view interface.
The layout and function introduction are as follows.

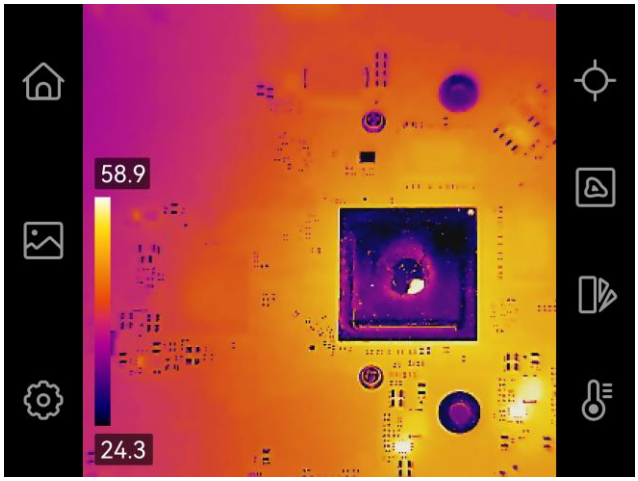

Figure 2-1 Live View Interface

Return to live view interface.

Enter albums to view captured images and videos. See ***5.3 Manage Albums*** for instructions.

Adjust device local settings.

Turn on/off measurement tools. See ***4.2 Set Image Measurement*** for instructions.

Switch live image display mode from thermal, visual, fusion, etc. See ***3.2 Set Display Image Mode*** for instructions.

Switch thermal image color palettes. See ***3.3 Set Palettes*** for instructions.

Adjust temperature range for thermal image display. See for ***3.4 Adjust Display Temperature Range*** instructions.

Swipe-down Menu

In live view interface, swipe down from the top of the screen to invoke the swipe-down menu. With this menu, you can turn on/off device function, change display theme, and adjust screen brightness.

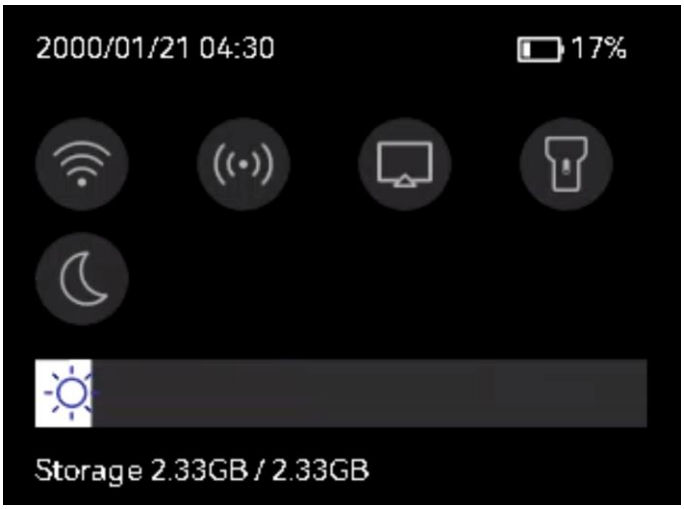

Figure 2-2 Swipe-down Menu

Turn on/ off Wi-Fi. For Wi-Fi configuration, see ***Chapter 8 Connect Device to Wi-Fi*** for instructions.

Turn on/ off hotspot. For hotspot configuration, see ***Chapter 9 Set***

Device Hotspot for instructions.

Turn on/ off USB cast screen. See ***Chapter 7 Cast Device Screen to PC*** for instructions.

Turn on/ off LED light.

Switch themes, day and night are supported.

Adjust screen brightness.

Chapter 3 Display Settings

Note

Your device 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 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 device.

3.1 Set Screen Brightness

Go to **Settings** → **Device Settings** → **Screen Brightness** to adjust the screen brightness.
Or tap ☼, and drag it to adjust the screen brightness from swipe-down menu.

3.2 Set Display Image Mode

You can set the thermal/optical view of the device. **Thermal**, **Fusion**, **PIP**, **Visual**, and **Blending** are selectable.

Steps

1. Tap
2. Tap the icons to select an image mode.

In thermal mode, the device displays the thermal view.

In fusion mode, the device displays the combined view of thermal channel and optical channel.

Note

When selecting the fusion mode, you need to set the parallax correction in the live view interface according to the distance to the target, so as to better overlap the thermal and optical images.

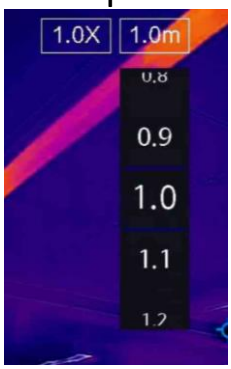

Figure 3-2 Adjust Parallax Correction

In PIP (Picture in Picture) mode, the device displays thermal view inside the optical view.

Figure 3-3 Adjust PIP Frame Size

Note

You can adjust the size, distance and digital zoom of the PIP.

In visual mode, the device displays the optical view.

In blending mode, the device displays the mixture view of thermal channel and optical channel. You can adjust the **Optical-Thermal**

Ratio to change the optical-thermal ratio. The lower the value is, the better the optical effect is.

Note

When selecting the blending mode, you can adjust the Optical-Thermal Ratio from 0 to 100 in the live view interface. The higher the value is, the clearer the thermal images are.

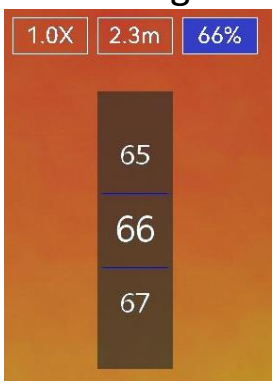

Figure 3-4 Adjust Blending Level

3. Tap screen to exit.

3.3 Set Palettes

The palettes allow you to select the desired colors.

Steps

1. Tap .
2. Tap the icons to select a palette type.

White Hot

The hot part is light-colored in view.

Black Hot

The hot part is black-colored in view.

Rainbow

The target displays multiple colors. It is suitable for scene without obvious temperature difference.

Ironbow

The target is colored as heated iron.

Red Hot

The hot part is red-colored in view.

Fusion

The hot part is yellow-colored and the cold part is purple-colored in view.

Rain

The hot part in the image are colored, and the else is blue.

Blue Red

The hot part in the image is colored red, and the else is blue.

3. Tap screen to exit.

3.4 Adjust Display Temperature Range

Set a temperature range and the palette only works for targets within the temperature range. You can adjust the temperature range.

Steps

1. Tap .
2. Select auto adjustment or manual adjustment .

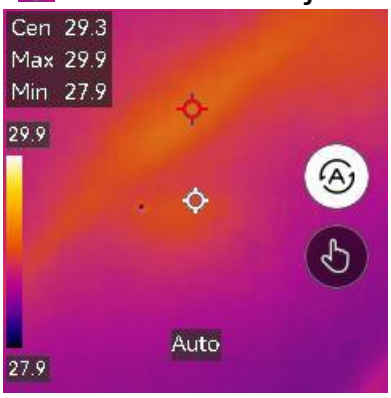

Figure 3-5 Level and Span

Auto	Select . The device adjusts the temperature range for display automatically.
Manual	a. Select .

b. Tap on an interest area of the screen. A circle is displayed around the area, and the temperature range readjusts to show as many details of the area as possible.
c. Tap on the value on screen to lock or unlock a value.
d. Scroll the adjustment wheel on the screen to fine-tune the max. temperature and the min. temperature respectively.
e. Tap **OK** to finish.

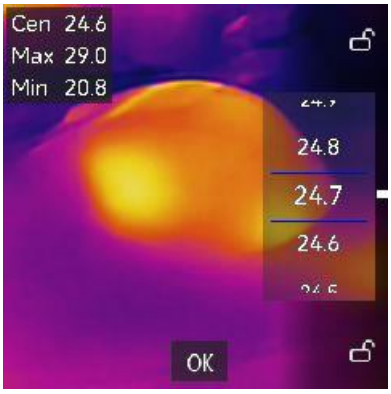

Figure 3-6 Manual Level & Span

3.5 Adjust Digital Zoom

Steps

1. Tap the live view interface to call the digital zoom frame.
2. Tap the digital zoom frame.

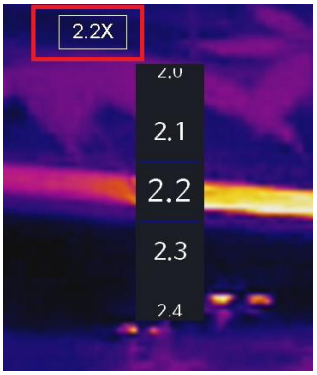

Figure 3-7 Adjust Digital Zoom

2. Select the digital zoom value as required

3. Tap the screen to save and exit.

3.6 Display OSD Info

Tap ⚙ and go to **Settings** → **Display Settings** to enable the information for on-screen display.

Time and Date

Device time and date.

Parameters

Temperature measurement parameters, for example, target emissivity, temperature unit, etc.

Brand Logo

The brand logo is a manufacturer logo displayed on the upper right corner of the screen.

Chapter 4 Temperature Measurement

The temperature measurement function provides the real-time temperature of the scene and display it on the left of your screen.

4.1 Set Measurement Parameters

You can set measurement parameters to improve measurement accuracy.

Steps

1. Tap ⚙ and go to **Settings** → **Measurement Settings**.
2. Set the **Temperature Range**, **Emissivity**, etc.

   Temperature Range

   Select the temperature measurement range. The device can detect the temperature and switch thermography range automatically in **Auto Switch** mode.

   Emissivity

   Refer to ***Common Material Emissivity Reference*** to set the emissivity of your target.

   Reflection Temperature

   If any object (not the target) of high temperature is in the scene, and the target emissivity is low, set the reflection temperature as the high temperature to correct the thermography effect.

   Distance

   The distance between the target and the device. You can customize the target distance or select the target distance as **Near**, **Middle**, or **Far**.

   Humidity

   Set the relative humidity of current environment.
3. Tap < to save and exit.

Note

You can go to **Settings** → **Device Settings** → **Device Initialization** → **Remove All Measurement Tools** to initialize the temperature measurement parameters.

4.1.1 Set Unit

Tap ⚙ and go to **Settings** → **Device Settings** → **Unit** to set the temperature unit and distance unit.

4.2 Set Image Measurement

You can set measurement tools to measure the min., max., and center temperatures of the current scene.

Steps

1. Tap ⊙.
2. Tap to select the measurement tools as required. **Hot**, **Cold**, and **Center** are selectable.

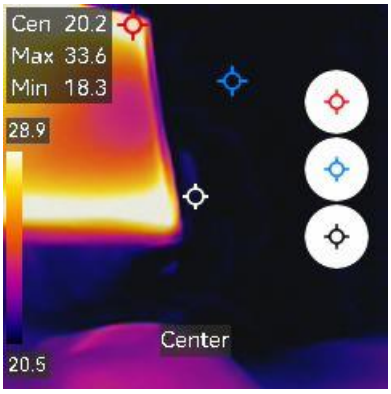

Figure 4-1 Set Measurement Tool

3. Tap screen to save and exit.

Note

- The min., max., and center temperatures are displayed on the left top of the screen.
- Tap the tool again to delete.

4.3 Set Temperature Alarm

When the temperature of targets triggers the set alarm rule, the device will perform configured actions, such as flashing the LED light.

Steps

1. Tap ⚙ and go to **Settings** → **Measurement Settings** → **Alarm Settings**.
2. Enable **Temperature Alarm** and set the alarm parameters.

   Alarm Threshold

   When the tested temperature exceeds the threshold, the device sends alarm notification to the client software. The device will buzz if the audible warning is enabled, and the flashlight will flash if the flashing alarm is enabled.

   Alarm Linkage

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

4. Tap 〈 to save and exit.

Chapter 5 Picture and Video

Note

- The device does not support capturing or recording when the menu is shown.
- When the device is connected to your PC, it does not support capturing or recording.
- Tap ⚙ and go to **Settings** → **Capture Settings** → **Filename Header**, you can set the filename header for capturing or recording to distinguish the files recorded in a specify scene.
- Tap ⚙ and go to **Settings** → **Device Settings** → **Device Initialization** to initialize the storage as needed.

5.1 Capture Picture

Before You Start

Enable the flashlight via the swipe-down menu in dark environment.

Steps

1. Tap ⚙ and go to **Settings** → **Capture Settings** to set capture parameters
   1) Set **Capture Mode**. Three modes are available.

      Capture One Image

      Press 📷 once to capture one image.

      Continuous Capture

      Set the continuous capture amount after select this mode.
      Press 📷 in live view, and device captures the set amount of images continuously.

      Scheduled Capture

      Set the interval for scheduled capture after select this mode.
      Press 📷 in live view, and the device captures images according to

the set interval. Press 📷 again to stop capturing.

2) Set the naming rule for the saved files. The default image naming is filename header + saving time. **Filename Header** is configurable. Saving time is the device system time when the saving occurs.
3) Optional: If a visual image is needed to be saved separately, enable **Save Visual Image**.
4) Optional: If the thermal images are exported and viewed on a high resolution screen, enable **SuperIR** before capturing. Resolution of captured images with **SuperIR** is 4 times as high as the original one.

2. Tap 〈 to exit. In the live view interface, aim the lens to your target and press 📷 to capture images.

Note

- For **Capture One Image**, the live image freezes and is saved in the default saving album.
- For **Continuous Capture/Scheduled Capture**, a counter displays in top of the screen showing the completed amounts of capturing.

What to do next

- Tap 🖼 to enter albums to view and manage files and albums. See ***5.3 Manage Albums*** and ***5.5 Manage Files*** for operation instructions.
- You can connect your device to PC to export local files in albums for further use. See ***5.6 Export Files***.

5.2 Record Video

Before You Start

Enable the flashlight via the swipe-down menu in dark environment.

Steps

1. In the live view interface, hold the capture key to start recording. The recording icon and count down number display in the interface.
2. When you finish, press the capture key to stop recording. The recording video will be saved automatically.
3. Refer to ***5.6 Export Files*** to export the videos.

5.3 Manage Albums

The recorded image/video files are saved in the albums. You can create new albums, rename an album, change the default album, move files between the albums, and delete albums.

Task	Operations
Create a New Album	1. Tap to enter **Albums**. 2. Tap to add a new album. 3. A soft keyboard is displayed, where you can enter the name of the album by touching the screen. 4. Tap to finish. **Note** The newly created album becomes the default saving album and appears at the top of the album list.
Rename an Album	1. Press to enter **Albums**. 2. Select the album to rename. 3. Tap ···, and select **Rename**. A soft keyboard is displayed. 4. Tap to delete the old name, and enter the new name for the album by touching the screen. 5. Tap to finish.
Change the Default Saving Album	1. Press to enter **Albums**. 2. Select the album you want to use as the default saving album. 3. Tap ···, and select **Set as Default Saving Album**.

Task	Operations
	Note The default saving album appears at the top of the album list.
Delete an Album	1. Press to enter **Albums**. 2. Select the album you want to delete. 3. Tap ···, and select **Delete**. A prompt box appears on the interface. 4. Tap **OK** to delete the album. **Note** The files in an album are deleted as well when deleting the album. Move the files to other albums if they are still needed. See ***Manage Files*** for instructions.

5.4 View Recorded Files

Steps

1. Press to enter **Albums**.
2. Tap to select the album storing the files.
3. Tap to select the video or snapshot to view.
4. View the selected file and relevant information.

Note

- Files are arranged in chronological order, with the most recent at the top. If you fails to find the most recently taken snapshots or videos,

please check the time and date settings of your device. See ***11.2 Set Date and Time*** for instructions. When you are viewing files, you can switch to other files by tapping ❮ or ❯.

- For more information contained in capture snapshots or videos, you can install the thermography client to analyze them.

5.5 Manage Files

You can move, delete, edit the recorded files, and add text notes to the files.

Task	Operations
Delete a File	1. Tap to enter **Albums**. 2. Tap to select the album storing the file to be deleted. 3. In the album, tap to view the file to be deleted. 4. Tap the screen to show the menu bar below, and tap . A prompt box appears on the interface. 5 Tap **OK** to delete the file.
Delete Multiple Files	1. Tap to enter **Albums**. 2. Tap to select the album storing the files to be deleted. 3. In the album, tap , and tap the files to be deleted. 4. Tap . A prompt box appears on the interface. 5. Tap **OK** to delete the files.

Task	Operations
	Note You can also delete a single file in this way.
Move a File	1. Tap to enter **Albums**. 2. Tap to select the album storing the file to be moved. 3. In the album, tap to view the file to be moved. 4. Tap the file to show the menu bar below, and select . The album list is displayed. 5. Tap to select the album to move to.
Move Multiple Files	1. Tap to enter **Albums**. 2. Tap to select the album storing the files to be moved. 3. In the album, tap to select the files to be moved. 4. Tap . The album list is displayed. 5. Tap to select the album to move to. **Note** You can also move a single file in this way.
Add Text Note on File	1. Tap to enter **Albums**. 2. Tap to select the album storing the file to be edited. 3. In the album, tap to view the file to be edited. 4. Tap the screen to show the menu bar below, and tap . A soft keyboard is displayed. 5. Enter the text note by touching the screen. 6. Tap to finish.

Task	Operations
	What to do next You can open the edited photo to view the text note.

Note

You can tap ☑ to select all files, and tap ⊟ to cancel the selection.

5.6 Export Files

Connect the device to your PC with supplied cable, you can export the recorded videos and captured snapshots.

Steps

1. Connect the device to your PC with cable and open the detected disk.
2. Select and copy the videos or snapshots to PC to view the files.
3. Disconnect the device from your PC.

Note

- Please make sure to turn off **Cast Screen** before connecting the device to your PC.
- For the first-time connection, the driver will be installed automatically.

Chapter 6 Set LED Light

Tap the flashlight button on the swipe-down menu to enable the LED light.

Chapter 7 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 a type-C cable, and cast the real-time live view of the device to your PC.

Steps

1. Go to **Settings** → **Connections** → **USB Cast Screen**.
2. Tap to enable the function.
3. Open UVC Alarm Client on your PC.
4. Connect the device to your PC via a type-C cable.

Note

Exporting files via USB connection is not allowed when you are casting the screen.

What to do next

For more instructions about how to cast the screen, please visit our website: ***https://www.hikmicrotech.com***.

Chapter 8 Connect Device to Wi-Fi

Steps

1. Go to **Settings** → **Connections** → **WLAN**.
2. Tap to enable Wi-Fi, and the searched Wi-Fi will be listed.

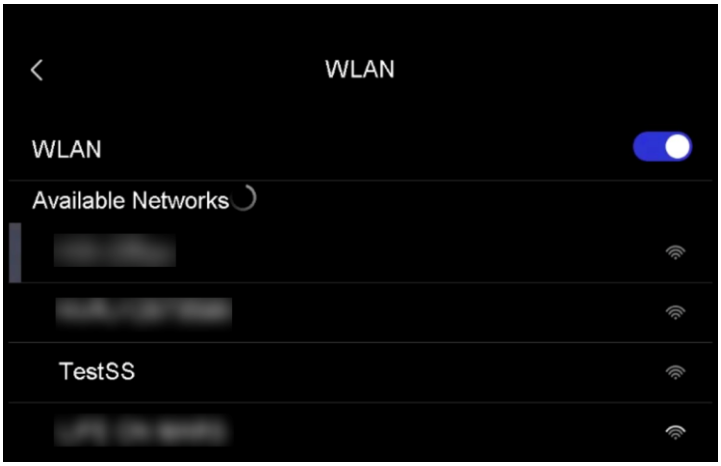

Figure 8-1 Wi-Fi List

3. Select the Wi-Fi to connect to. A soft keyboard is displayed.
4. Enter the password by touching the screen.

Note

- DO NOT tap **space** in your password, or the password may be incorrect.
- Please tap to enter password into the password field.

5. Tap to save and connect Wi-Fi.

Result

A Wi-Fi icon shows on the main interface when the connection is completed.

Chapter 9 Set Device Hotspot

With the device hotspot, other equipment with Wi-Fi function can join the device for data transmission.

Steps

1. Go to **Settings** → **Connections** → **Hotspot**.
3. Tap to enable the hotspot function. The hotspot name is the last 9 digits of the device serial No.
4. Tap **Set Hotspot**. A soft keyboard is displayed.

Figure 9-1 Set Hotspot

5. Set the password for the hotspot.

Note

- DO NOT tap **space** in your password, or the password may be incorrect.
- The password should at least contain 8 digits, consisting of numbers and characters.
- Please tap to enter password into the password field.

6. Tap to save.

Chapter 10 Thermal View Mobile Client Connection

The device supports both Wi-Fi connection and hotspot. Connect the device to HIKMICRO Viewer, and you can control the device via mobile client.

10.1 Connect via Wi-Fi

Before You Start

Download and install HIKMICRO Viewer on your phone.

Steps

1. Connect your device to a Wi-Fi network. See ***Chapter 8 Connect Device to Wi-Fi*** for instructions.
2. Connect your phone to the Wi-Fi network that the device is in.
3. Launch the app and follow the startup wizard to create, and register an account.
4. Search and add the device to the mobile client.

Result

You can view the live view, capture snapshots, and record videos via the client.

10.2 Connect via Hotspot

Before You Start

Download and install HIKMICRO Viewer on your phone.

Steps

1. Turn on the device hotspot and complete hotspot settings. See ***Chapter 9 Set Device Hotspot*** for instructions.
2. Connect your phone to the Hotspot of the device.

3. Launch the app and follow the startup wizard to create, and register an account.
4. Search and add the device to the mobile client.

Result

You can view the live view, capture snapshots, and record videos via the client.

Chapter 11 Maintenance

11.1 View Device Information

Go to **Settings** → **Device Settings** → **Device Information** to view the device information.

11.2 Set Date and Time

Steps

1. Go to **Settings** → **Device Settings** → **Time and Date**.
2. Set the date and time.
3. Press 〈 to save and exit.

Note

Go to **Settings** → **Device Settings** → **Display Settings** to enable or disable time and date display.

11.3 Upgrade Device

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.

Steps

1. Connect the device to your PC with cable and open the detected disk.
2. Copy the upgrade file and paste 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 upgrading, the device reboots automatically. You can view the current version in **Settings** → **Device Settings** →**Device Information**.

11.4 Restore Device

Go to **Device Settings → Device Initialization → Restore Device** to initialize the device and restore default settings.

13.5 Initialize Storage

Go to **Device Settings** → **Device Initialization**→ **Format Storage** to initialize the storage.

Caution

If there are files, make sure that the files has been backed up before formatting. Once the storage is initialized, data and files cannot be recovered.

13.6 About Calibration

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 refer to https://www.hikmicrotech.com/en/support/calibration-service.html

Chapter 12 Appendix

12.1 Common Material Emissivity Reference

Material	Emissivity
Human Skin	0.98
Printed Circuit Board	0.91
Concrete	0.95
Ceramic	0.92
Rubber	0.95
Paint	0.93
Wood	0.85
Pitch	0.96
Brick	0.95
Sand	0.90
Soil	0.92
Cloth	0.98
Hard Paperboard	0.90
White Paper	0.90
Water	0.96

12.2 Device Command

Scan the following QR code to get device common serial port commands. Note that the command list contains the commonly used serial port commands for HIKMICRO thermal cameras.

12.3 Device Communication Matrix

Scan the following QR code to get device communication matrix.
Note that the matrix contains all communication ports of HIKMICRO thermal cameras.

12.4 FAQ

Scan the following QR code to get device common FAQ.

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