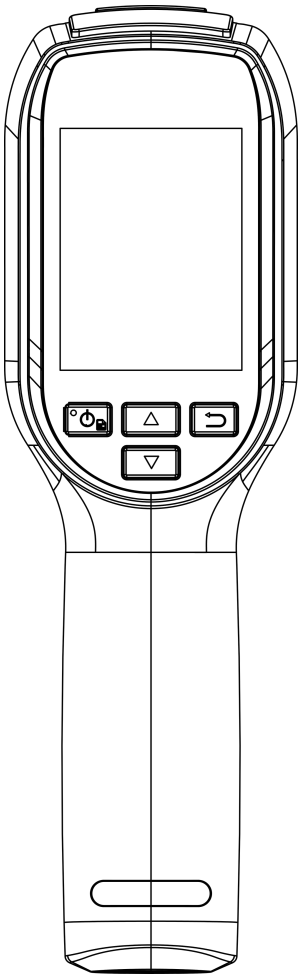
FUTECH

USER MANUAL

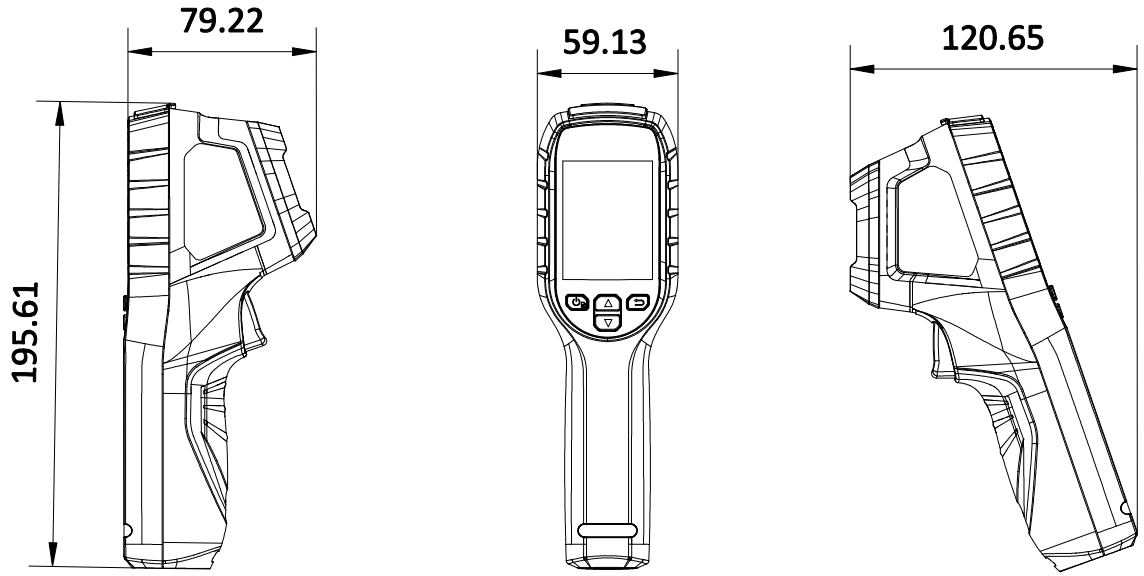
EN / ENGLISH

TEMPVIEWER 9200



The FUTECH TEMPVIEWER 9200 handheld thermal camera is based on the thermal technology, specially designed for the needs of temperature measuring applications. People can quickly troubleshoot faults on-site.

- Thermal resolution: 96 × 96 (9,216 pixels)
- 112:1 Distance to spot ratio (D:S)
- SuperIR: 240 × 240 (57,600 pixels)
- NETD: < 50 mK (@ 25°C, F# = 1.0)
- Measurement presets: center spot, hot spot, cold spot, off
- 25 Hz image frequency
- Laser pointer
- Built-in 4 GB flash memory: 30,000 pictures
- Up to 8 hours continuous running
- Thermal/Visual/Fusion



Unit: mm

SPECIFICATIONS

Infrared Image	
IR Resolution	96 × 96 (9 216 pixels)
SuperIR	240 × 240 (57 600 pixels)
Distance to Spot Ratio (D:S)	112:1
Image Frequency	25 Hz
NETD	< 50 mK (@ 25°C, F# = 1.0)
Detector Pitch	12 µm
Focal Length	1,35 mm
Spectral Range	7,5 à 14 µm
F-number	F1.0
Field of View (FOV)	50° × 50°
Spatial Resolution (IFOV)	8,89 mrad
Min. Focus Distance	0,1 m (0,33 ft)
Focus Mode	Sans mise au point
Image Display	
Display	240 × 320 Resolution, 2,4" LCD Screen
Image Modes	Thermal / Visual / Fusion
Color Palettes	White Hot, Black Hot, Rainbow, Ironbow, Red Hot
Color Alarm	Above alarm
Visual Camera	640 × 480
Measurement and Analysis	
Object Temperature Range	-20°C to 550°C (-4°F to 1022°F)
Accuracy	Max. (±2°C/3,6°F, ±2 %) for ambient temperature 15°C to 35°C (59°F to 95°F) and object temperature above 0°C (32°F)
Measurement Toolds	Center Spot, Hot Spot, Cold Spot
Level and Span Mode	Auto
Data Storage and Communication	
Storage Media	Built-in 4 GB flash memory
Image Storage Capacity	Approx. 30 000 Images

General	
USB Interface	USB Type-C
Laser	Yes, Class II
Battery Type	Rechargeable Li-ion battery
Battery Charging Time	Approx. 3 hours fully charged(Adapter Output: 5 V 2 A)
Battery Operating Time	Approx. 8 hours
Protection Level	IP54
Drop Test Height	2 m (6,56 ft)
Working Temperature Range	-10°C to 50°C (14°F to 122°F)
Température de stockage	-40°C to 70°C (-40°F to 158°F)
Relative Humidity	< 95 %, non-condensing
Weight	Approx. 335 g (0,74 lb)
Dimension	196 × 117 × 59 mm (7,7" × 4,6" × 2,3")
Tripod Mounting	UNC ¼"-20

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 0D5+.
- 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 (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 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 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.
- 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.

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.

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.

CONTENT

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 clients, software, and all their functions mentioned (or not mentioned) in this manual.
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 palettes, and you can choose different palettes for vivid image.

EnhancedIR

Device supports **EnhancedIR** to enhance the object outlines for better image display.

Palettes

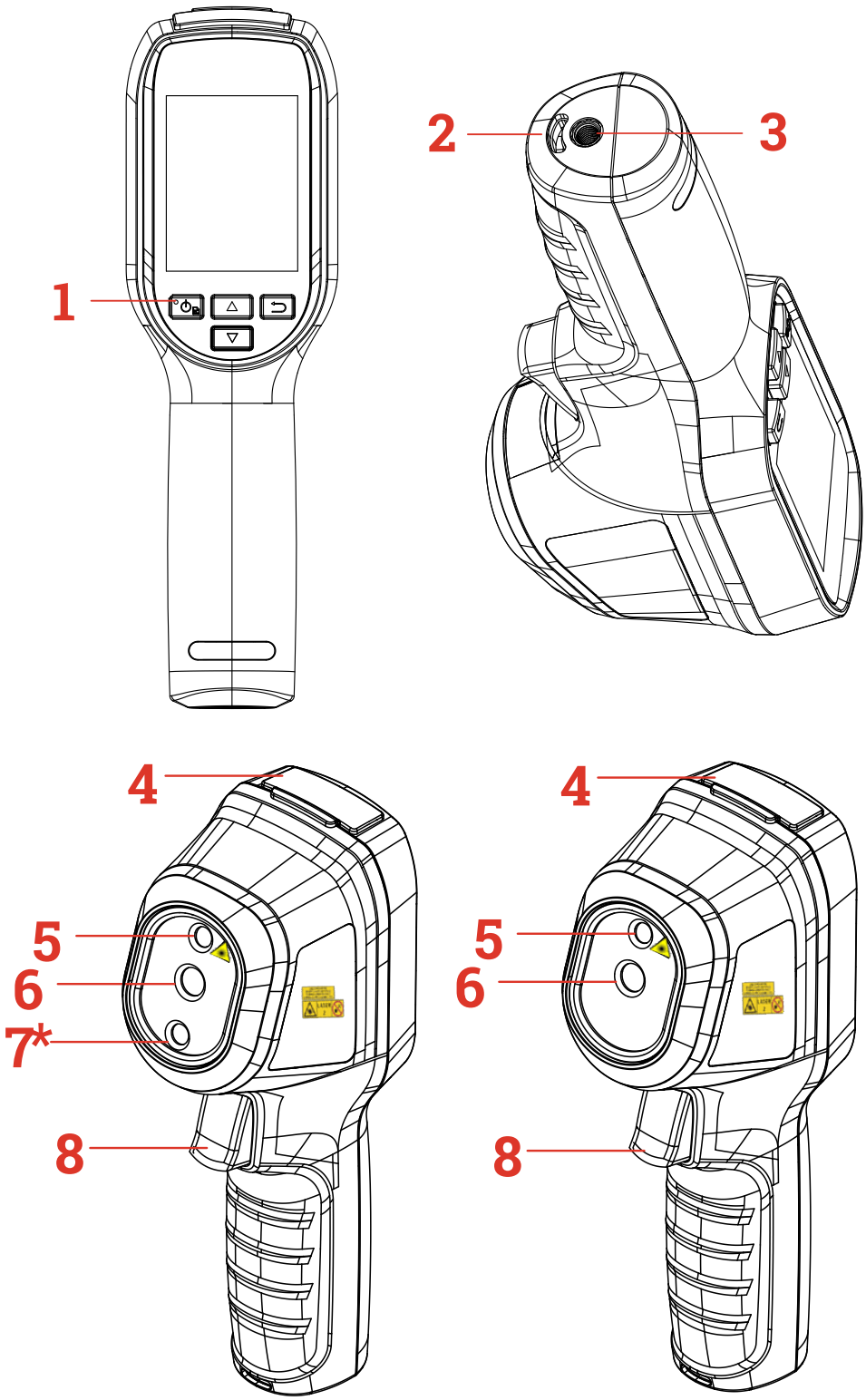
The camera supports multiple color palettes for different targets and user preference.

Alarm

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

1.3 Appearance

The appearances and components of camera models might be different. Please refer to the actual products.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No.	Component	Function
1	Charging Indicator	◆ Solid Red: Charging. ◆ Solid Green: Fully charged.
2	Wrist Strap Hole	Mount the wrist strap.
3	Tripod Mount	Connect to UNC 1/4"-20 tripod.
4	Type-C Interface	Charge the battery or export files.
5	Laser	Locate the target position with laser light (only supported by certain models).
6	Thermal Lens	View the thermal image.
7*	Visual Lens*	View the visual image (only supported by certain models).
8	Trigger	In live view: ◆ Press: Capture snapshots. ◆ Hold: 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). In menu mode, press the trigger to go back to live view.

Button	Function
	◆ 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 image modes (only supported by certain models). Press ▽ to switch palettes.

NOTE

◆ The appearance and button functions vary according to different models.
◆ The visual lens is 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.

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

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

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.

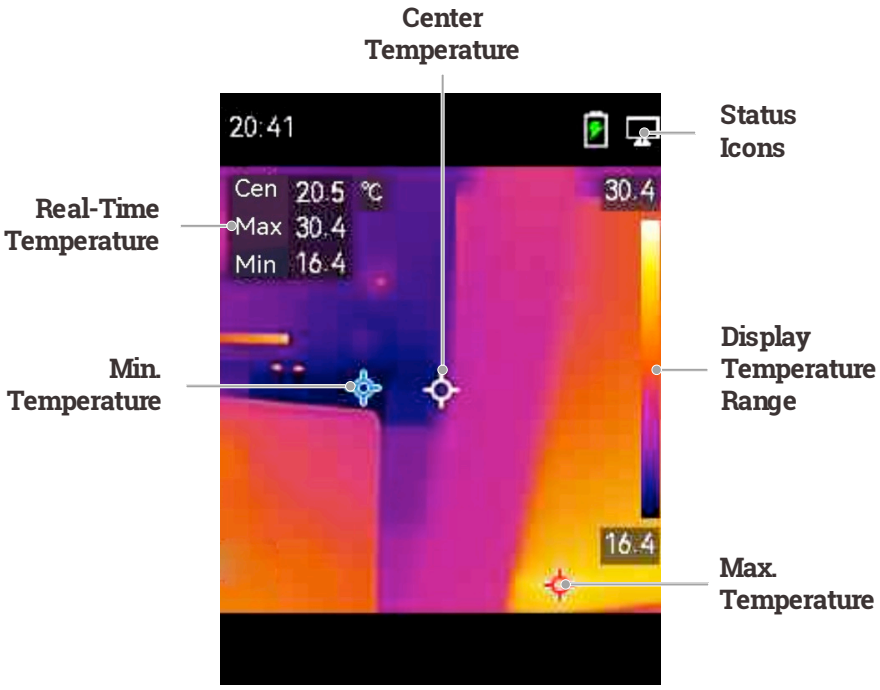
2.2.1 Set Auto Power-Off

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.
- 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.

CHAPTER 3 DISPLAY SETTINGS

3.1 Set EnhancedIR

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

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

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

3.2 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.

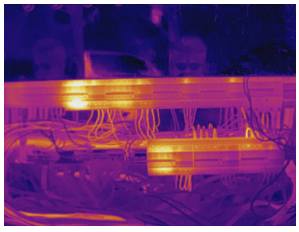
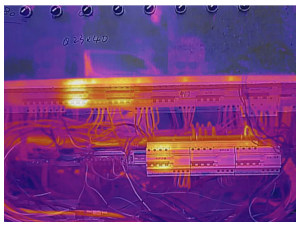
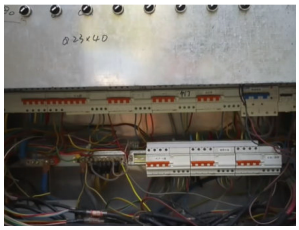
Image Mode	*Description*	*Example*
Thermal	In thermal mode, the device displays the thermal view.	
Fusion	Thermal object image with visual outlines. This function is only supported by the models with visual lens.	

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.

3.3 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.

3.4 Set Level & Span

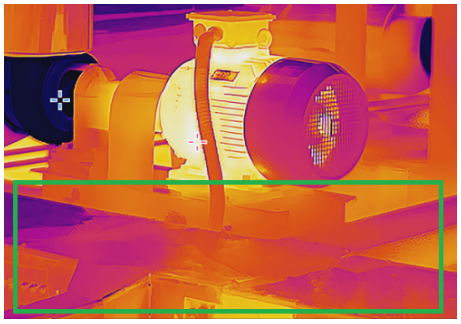
Set a display temperature range and palette only works for targets within the temperature range. You can get better image contrast by adjusting the level & span parameters.

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.

3.5 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. Tap 〈 to save and exit.

NOTE This function is only supported in auto level & span.

3.6 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.
- **Temperature Scale:** Display the palettes bar and temperature range on the right side of the screen.

CHAPTER 4 TEMPERATURE MEASUREMENT

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

1. Set temperature measurement parameters. See ***4.1 Set Temperature Measurement Parameters.***
2. (Optional) Users set spot tools to get the real-time temperature of the highest/lowest/center temperature spot. See ***4.2 Set Measurement Tools.***
3. (Optional) Users can enable the thermometer mode to use the laser pointer function. See ***4.3 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 ***4.4 Set Temperature Alarm.***

4.1 Set Temperature Measurement Parameters

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

1. In the live view interface, press  to show the menu.
2. Press  to select desired parameters.
   - **Temperature Range**: Select the temperature measurement range. The device can detect the temperature and switch temperature measurement range automatically in Auto Switch mode.
   - **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 device.
   - **Unit**: Go to **Display Settings** > **Unit**, and press  to set the temperature unit.
3. Press  to save and exit.

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. Press  to save and exit.

Result

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

4.3 Set Thermometer Mode

The Thermometer Mode utilizes a laser pointer to help users quickly locate temperature measurement points. When enabled, the laser pointer indicates the target in the scene, allowing users to visualize its temperature in real time. Devices without laser do not support this mode.

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, hold the trigger. The device will emit laser to aim at the target. A red laser 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. Release the trigger.
   - If video recording is enabled (see *5.2 Record Video*), the device will continue recording, and the laser dot will disappear.
   - If video recording is not enabled, the device will automatically capture an image of the current scene and save the temperature data.

NOTE
- In Thermometer Mode, the laser pointer cannot be turned off. To turn off the laser, disable this mode first.
- In Thermometer Mode, the maximum, minimum, and center temperature values are not displayed in the top-left corner of the observation interface.

4.4 Set Temperature Alarm

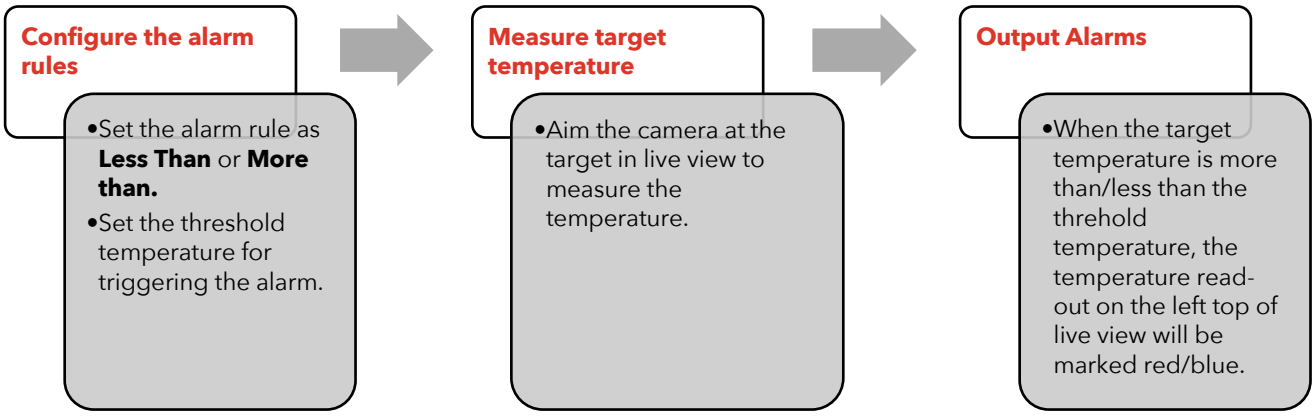
Set the alarm rules and the device will alarm when the temperature triggers the rule.

1. In the live view interface, press  to show the menu.
2. Press  , and select **Alarm**.
3. Press  to enable the **Alarm Linkage** function.

- **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.
5. Press to save and exit.



CHAPTER 5 SNAPSHOTS AND VIDEOS

5.1 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	◆ **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.

5.2 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.

5.3 View Snapshots and Videos

5.3.1 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.

5.3.2 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.

5.4 Export Snapshots and Videos

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 files 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 6 MAINTENANCE

6.1 Set Time and Date

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

6.2 Set Language

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

6.3 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 **More Settings** > **Save Logs**.
You can connect the camera to PC using the supplied USB-C to USB-A 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.

6.4 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.

6.5 View Device Information

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

6.6 Restore Device

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

CHAPTER 7 LEGAL 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 company website

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

Trademarks

Trademarks and logos mentioned are the properties of their respective owners.

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CHAPTER 8 DECLARATION OF CONFORMITY

CE

FUTECH declares under its own responsibility that this device:
- 324.009 - TEMPVIEWER 9200
is in conformity with the standards:

LOW VOLTAGE DIRECTION DIRECTIVE 2014/35/EU

- EN 61010-1:2010 / A1:2019
- EN 60825-1: 2014 / A11: 2021

DIRECTIVE 2014/30/EU

- EN 55032:2015 / A1:2020
- EN 50130-4:2011 / A1:2014
- EN IEC 61000-3-2:2019 / A1:2021
- EN 61000-3-3:2013 /A2:2021

Lier, Belgium,
June 27, 2025
Patrick Waûters

USER MANUAL

other languages:

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DE DEUTSCH

ES ESPAÑOL

ET EESTI KEEL

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