

Handheld Thermography Camera

Rescue/Fire/Safety

User Manual

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 Acknowledgement

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

Regulatory Information

FCC Information

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

FCC compliance: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against

harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Conditions

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

- 1. This device may not cause harmful interference.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement



This product and, if applicable, the supplied accessories are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Radio Equipment Directive 2014/53/EU, the EMC Directive 2014/30/EU, the RoHS Directive

2011/65/EU.



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.



2006/66/EC (battery directive): This product contains a battery that 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), 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.

Safety Instruction

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

The precaution measure is divided into Warnings and

Warnings: Neglecting any of the warnings may cause serious injury or death.

Cautions: Neglecting any of the cautions may cause injury or equipment damage.





Warnings Follow these safeguards to prevent serious injury or death. Cautions Follow these precautions to prevent potential

injury or material damage.



- The device should be used in compliance with local laws and electrical safety regulations. Refer to the appropriate documentation for detailed information.
- The device should be used in the environment within temperature range from -10 °C to 50 °C (14 °F to 122 °F), humidity \le 90%, and height \le 5000 m.
- The input voltage should conform to IEC61010-1 standard: SELV (Safety Extra Low Voltage) and the Limited Power Source ((5 V DC/0.3 A).
- Make sure the plug is properly connected to the power socket.
- If smoke, odor, or noise arises from the device, immediately turn off the power, unplug the power cable, and contact the service center.
- The installer and user are responsible for password and security configuration and its settings.



Cautions

- \bullet Do not drop the device or subject it to physical shock.
- Wipe the device gently with a clean cloth and a small quantity of ethanol, if necessary.
- 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 expose the device to high electromagnetic radiation or extremely hot, cold, dusty, or damp environments.
- \bullet Place the device in a dry and well-ventilated environment.
- Keep non-waterproof devices away from liquids.
- \bullet Keep the device in original or similar packaging while transporting it.
- 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.
- Never attempt to disassemble the device.
- 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 can not be dismantled. Please contact manufacture for repair if necessary. The battery type is £097-27-1P1518650, and the rated voltage and capacity is 3.6 VDC/3.35 Ah (12.06 Wh). The battery may explode if it is replaced by an incorrect type. Dispose of used batteries according to the instructions.
- For long-term storage of the battery, make sure you fully charge it every half year, to ensure the battery quality. Otherwise, you may damage the battery.

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

Laser Light Supplement Warning



Warning: The laser radiation emitted from the device can cause eye injuries, burning of skin or inflammable substances. Before enabling the Light Supplement function, make sure no human or inflammable substances are in front of the laser lens.

SAVE THIS MANUAL FOR FUTURE REFERENCE

1 Introduction

1.1 Box Content



Handheld Thermal Camera (×1)



Adapter

USB Cable Power



(×1)

Wrist Strap (x1)





Manual $(\times 1)$

Note: The Handheld Thermography Camera includes one battery and one Micro SD card.

1.2 Product Introduction

The handheld Thermography camera is a camera with thermal images. It can do thermometry, and snapshot capturing. The built-in highsensitivity IR detector and high-performance sensor detects the temperature change and measure the real-time temperature. The temperature measurement range is -20°C to 550 °C (-4 °F to 1022 °F) with thermometry accuracy ±2 °C. It helps the users to find the risky part and lower their property loss. The device supports live viewing, and capturing, etc.

The handheld Thermography camera, adopting ergonomic design, is easy to use The device is mainly applied to various industries, such as Firefighting, Search, Police and industry, etc.

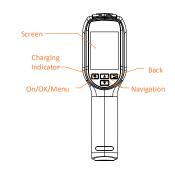
2 Appearance

2.1 Dimensions



The dimension may vary according to different camera model.

2.2 Interfaces



Hold: Power On/Off Press: Display menu or confirm operation

Exit the menu or return to previous menu.

Navigation Button
Press the v, \(\Delta\) button to select
parameter \(\psi\) button to
confirm.



Charging Indicator

When the device is charging, the LED indicator is red. When the device is fully charged, the LED indicator is green.

Charge the battery and export snapshots with the USB cable.

Trigger

USB

Interface

Pull the trigger to capture When the trigger to capture snapshots.
When the Laser function is switched on, pull the trigger to turn on/off the laser light.



The laser radiation emitted from the device can cause eye injuries, burning of skin or inflammable substances. Before enabling the Light Supplement

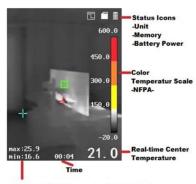
3 Basic Operations

3.1 Charging the Device

- Steps:
 1. Open the top cover of the camera.
 2. Connect the USB interface and the power adaptor with USB cable.



3.2 Interface Description



-Hot Tracker Max. Temperature Display (Red) -Cold Tracker Min. Temperature Display (Blue)

Capture Snapshots Steps:

- In the live view interface, pull the trigger to capture snapshot. The live view freezes and device displays the snapshot with temperature information.

 Press button to save the picture,
- press button to cancel it.

You can not capture when the device is connected with PC.

3.3 View Snapshots

Steps:

- Go to **Menu > Picture** to view the capture
- snapshots.

 Press button to view the selected picture, press button to switch pictures.
- press 💩 to see the picture.
- Press button to save and exit.

3.4 Export File

Connect the handheld Thermography camera to your PC with USB cable, you can export the captured snapshots.

Steps:

- Open the USB cover. 1.
- 2. Connect the camera to your PC with USB cable and open the detected disk.
- Select and copy the snapshots to PC and view the files.
- Disconnect the device from your PC.

Note:

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

Do not disconnect the USB connection from PC or pull out the Micro SD card during drive installation or it may cause the device damage.

3.5 Upgrade

- 1. Connect the thermography camera to your PC with USB cable and open the detected disk.

 Converte ungrade file and replace it to
- detected disk.
 Copy the upgrade file and replace it to the root directory of the device.
 Disconnect the device from your PC.
 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 **Menu** > **About**.

4 Palettes Mode

The Attackcam is started in the NFPA Mode For Fire Fighting / Rescue / Search / Safety Colour Temperatur Range

-150° Colour black-cold/white-Hot -300° Colour yellow -450° Colour orange -20° 150° 300°

-600° Colour Red More Informations over the Colour range and the sense under www.attackcam.net

Here is an example of setting the Mode.

Steps:

- In the live view interface, press 💩 to select the Palettes Mode
- Press button to save and exit. Further technical Palettes Mode to choose

Black hot, White hot, Rainbow, Ironbow

5 Main Configurations

5.1 Rule / Cold-Hot Tracker

Purpose: The thermometry (temperature measurement) function provides the real-time temperature of the scene and display it on the left of your screen. The thermometry function is turned on by default.

The thermometry parameters affect the accuracy of temperature measurement.

Steps:

- In the live view interface, press 👲 button show the menu bar.
- Press / button to select desired setting bar.
 - Rule: Select Hot Spot, Cold Spot to show the max. temperature, min. temperature in the live view interface.
- Press ___/ __ button to select desired parameter, and press 💩 button
- Press button to save and exit.

5.2 Laser Configurations

Here is an example of setting laser light function.

Steps:

- In the live view interface, press 👲 button show the menu bar.
- Press | button to select Laser.
- Press button to turn on / turn off laser light function.
- Press button to save and exit.
- In live view interface, pull the trigger to turn on laser light, release the trigger to turn off laser light.

Note: Other parameters, such as temperature measurement range, unit, palettes and so on, can be configured as steps above.

5.3 Unit

example of setting Unit function.

In the live view interface, press 💩 button show the menu bar. button for save and back.

5.4 Restore

example of setting Restore function.

In the live view interface, press 👲
button show the menu bar.
Press of for Ok and button for
cancel.

5.5 Auto on Off

example of setting Auto on Off function. In the live view interface, press button show the menu bar. Press button to select. Select between No auto off and 5/10/20 Min. To shut down the Cam. Press of for Ok and button for cancel.

5.6 Time & Date

example of setting Time & Date function.

In the live view interface, press 💩 button to show the menu bar. Press to choose 12h/24h. button to select the Time Panel. Press and Select H/M/AM-PM. Press to adjust and with button your are save the select. The same procedure for setting the date.

5.7 Save Picture/Laser

Pull the trigger to capture snapshots. Saving the Snapshot press 💩 button. Cancel with button. When the Laser function is switched on, pull the trigger to turn on/off the laser light.

6 System Information

Go to Menu > About to view the device information Press
No., FPGA Version No., Serial No., Capacity and so on. You can also set the auto power-off button duration, date and time in **Menu.** for back.

Frequently Asked Questions (FAQ)

Q: The charge indicator flashes red. A: Examine the items below.

- Examine whether the device is charged with the standard power adapter.
 2. Plug and unplug the battery once.
 3. Make sure the environment temperature is
- above 0°C (32°F).

Q:Capturing or recording fails.

- A: Examine the items below:

 1. Whether the device is connected to your PC and the capture function is unavailable.

 2. Whether the storage space is full.

 3. Whether the device is low-battery.

Q:The PC cannot identify the camera.
A: Examine whether the device is connected to your PC with standard USB cable.

Q:The camera can not be operated or no responding. A: Hold button to reboot the camera.

Applications and instructions at your language. Waranty conditions and extensions, and accessories items under www.attackcam.net

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