



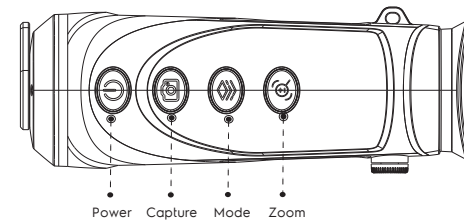
Thermal Monocular Camera

TA10-256

User's Manual

V1.0.2

Button Description



- **Power button:** Press and hold for 3 seconds to power on or power off. Press to enable or disable the laser. The laser will automatically turn off after 10 seconds.

Technical specification of the laser pointer:

- ◆ Wavelength: 650 nm
- ◆ Beam diameter < 15 × 20 mm (10 m)
- ◆ Maximum average output power: 0.9 mW

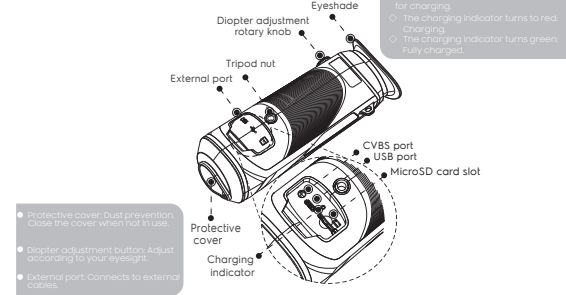


LASER RADIATION

Laser can cause damages to eyes. Do not look directly at the laser beam or observe the beam with optical devices when the

- **Capture button:** Press to capture. Press and hold for 3 seconds to enable or disable recording.
- **Mode button:** Press to enter the main menu. Press and hold for 3 seconds to restore to default settings.
- **Zoom button:** Press for digital zoom. Press and hold for 3 seconds to measure range.

Port Description



- Protective cover: Dust prevention. Close the cover when not in use.
- Diopter adjustment button: Adjust according to your eyesight.
- External port: Connects to external cables.

- CVBS port: Connects to CVBS display.
- USB port: Connects to USB data cable for charging.
- The charging indicator turns to red: Charging.
- The charging indicator turns green: Fully charged.

The viewing interface and the main menu can display SD card status.

- White icon: MicroSD card is correctly installed.
- Red icon: The memory of the MicroSD card is full.
- Red icon with "X" mark: The MicroSD card is not installed.
- Red icon with "!" mark: The MicroSD card runs into fault. The interface displays formatting prompt.

Main Functions

Colorization

Different colorization modes display different effects.

Range Measurement

Marks the top and bottom of the target. Automatically displays the distance of the target from the device.

Hot Point Tracking

Detects and marks the highest and lowest temperature point.

Storage

Built-in storage (up to 256 GB), supports recording and capturing.

Digital Zoom

Supports 1×, 2×, 3× and 4× digital zoom. The number might differ depending on devices.

Fire Warning

Track fires in real-time in the scene.

Laser Light

Turn on the light to indicate positions. Do not aim the light to eyes to avoid damages.

Automatic Suspend and Shutdown

Supports setting time of automatic suspend and shutdown.

Function Description

Charging

The screen will display battery information once it has been turned on. When the battery is low, charge the device immediately.

- When charging, the temperature is required at 32 °F to 113 °F (0 °C to 45 °C). Otherwise the charging function will be automatically disabled.
- Charge the device with the USB data cable that comes with the delivery.

Step 1 Open the sealing cover of the USB port when charging.

Step 2 Connect the USB data cable to the USB port to charge the device.

- Alternate flash of red and green: Charging error.
- Solid red: Charging.
- Solid green: Full power.
- Off: Not connected to data cable to charge.

Menu Description

When the device is on, press to enter the main menu. Functions of all buttons are as follow.

- Press to move upward the cursor.
- Press to move downward the cursor.
- Press to confirm.
- Press to return.

Image Adjustment

Diopter Adjustment

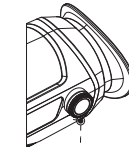
You can adjust the knob to fit your eyesight for clear images.

You must adjust the diopter for first-time use before configuring the functions.

Step 1 After powering on the device, remove the protective cover of the lens.

Step 2 Aim the lens at the target, and then put your eyes close to the eyeshade.

Step 3 Adjust clockwise or counterclockwise the rotary knob according to your eyesight.



Diopter adjustment knob

Colorization

Different colorizations display different effects. On the main menu, press to select colorization.

- **White Hot:** Objects that with high temperatures are white. The higher the temperature the brighter the color.
- **Alarm:** Objects with high temperature are red. The objects can stand out.
- **Iron Red:** Objects with high temperature are red. The higher the temperature, the brighter the color.
- **Rainbow:** Objects with different temperatures display as different colors creating a rainbow-like image.

Digital Zoom

Digital zoom helps to zoom in to view the image.

On the home page, press to realize this function. Digital number changes, and the image changes along.

External Display

The device connects to PAL screen to zoom in and expand the output images for you to check the details. The description is for reference only, and might differ from the actual product.

The port of the screen is connected to the CVBS port of the device.

Step 1 On the main menu, press , and then select Screen Mode.

Step 2 Press , and then select PAL.

After the connection, the external screen will display the images from the device.

Range Measurement

Measure the range towards targets.

When measuring the range, keep your hand steady. Otherwise the accuracy might

Step 1 On the main menu, press , and then select Ranging Mode.

Step 2 Press to switch ranging modes. Press to save. You can select from **Rabbit**, **Wolf**, **Human** or **Customize**. The default heights of wolf, human and rabbit are 3.93ft (1.2 m), 5.90ft (1.8 m) and 0.98ft (0.3 m).

Step 3 Aim the lens at the target. Adjust the distance between the two green lines to making sure the above line is aligned with the head of the target and the bottom line is aligned with the bottom of the target. After adjusting, the upper-left corner of the image will display the actual result.

Hot and Cold Point

Perform a real-time tracking for the points with the highest and lowest temperature. The description is for reference only, and might differ from the actual product.

Step 1 On the main menu, press , and then select Hot Point.

Step 2 Press  to switch to On. Press  to confirm.

The image will display the hot and cold point icons. The icons will automatically locate at the points with the highest and lowest temperature.

Buzzer

- **Buzzer:** Enter the main menu, and then select  to turn on and off of the buzzer.
- **KeyBuzzer:** Enter the main menu, and then select  to turn on and off of the keybuzzer.

Fire Warning

Perform a real-time tracking for fire in the scene. The description is for reference only, and might differ from the actual product.

Step 1 Press  to enter the main menu.

Step 2 Press  to set on and off of the fire warning.

 Sensitivity can be selected from High, Middle and Low.

USB Mode

- Enter the main menu, select USB Mode, and then select Mass to view images and recordings taken by the device.
- Enter the main menu, select USB Mode, and then select UVC. You can connect to the computer to view live images, live videos and live snapshots.
- Enter the main menu, select USB Mode, and then select Off to exit USB Mode.

Video and Snapshot

You can manually record videos or snapshots when the device is installed with MicroSD card and is in the live view.

Recording

On the viewing interface, press and hold  for 3 seconds to enable recording function. The OSD with flash on the screen and the recording time will display.

Press and hold again for 3 seconds to stop the recording. When the recording stops, the recording time will display normally.

Capturing

On the viewing page, press  to capture.

The page will display an icon when the capturing succeeds.

Exporting File

Export the recording and capturing files.

- Connect the cables before turning on the device.
- Do not hot swap the USB port of the device.
- Turn on the device and select USB Mode and select Mass.

Step 1 Allow the driver to install. This should automatically install after being connected and USB Mode is selected.

Step 2 Enter the disk of the computer, you can open the device disk at a mobile storage device.

Step 3 Select the export files and copy them to the computer.

Step 4 Disconnect the USB data cable with the computer. After the connection between the device and the computer, images can be displayed on the device, but the functions of recording and capturing will not be available.

Auto Suspend

Step 1 Press  to enter the main menu.

Step 2 Select **Auto Suspend**.

Step 3 Press  to set auto suspend time.

-  • Off: Disable the auto suspend.
- 1 Min: The device will automatically suspend and the screen will turn off in 1 minute.
 - 3 Mins: The device will automatically suspend and the screen will turn off in 3 minutes.

Step 4 Press  to finish the auto suspend settings.

 When the device is in sleep, press the mode button, you can return to the main menu.

Auto Shutdown

Step 1 Press  to enter the main menu.

Step 2 Select Auto Shutdown.

Step 3 Press  to set the auto shutdown time.

-  • Off: Disable the Auto Shutdown.
- 1 min: The device will automatically shut down in 1 minute.
 - 3 mins: The device will automatically shut down in 3 minutes.
 - 10 mins: The device will automatically shut down in 10 minutes.
 - 30 mins: The device will automatically shut down in 30 minutes.

Step 4 Press  to finish the auto shutdown settings.

 After finishing auto shutdown, the device will suspend first, and then shutdown.

Safety Instructions

The following signal words might appear in the manual.

Signal words	Meaning
 DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
 WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
 CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, or lower performance.
 LASER RADIATION	Indicates a laser radiation hazard. Take care to avoid exposure to a laser beam.
	Provides additional information as a supplement to the text.

About the Manual

- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.
- This manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual.

There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.

- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.

- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

Important Safeguards and Warnings

Transportation Requirements

WARNING

- Transport the device within the allowed humidity and temperature conditions.
- Do not drop, squeeze, violently vibrate, or immerse the device in liquid when transporting.
- Do not transport the device without packaging. Use the factory default packaging or material of equal quality to pack the device when transporting to avoid damage.

Storage Requirements

WARNING

- Store the device within the allowed humidity and temperature conditions.
- Do not place the device in a humid, dusty, extremely hot or cold area. Do not squeeze, violently vibrate or immerse the device in liquid.
- Do not mechanically vibrate or drop when storing.
- Store the device in a well-ventilated area that has no strong electromagnetic radiation.

Operation Requirements

CAUTION

- Do not dismantle the device. Dismantling it without professional assistance might cause water seeping in which may result in producing poor quality images. Operating temperature: -4 °F to +122 °F (-20 °C to +50 °C).

Maintenance and Repair Requirements

DANGER

- Prevent liquid from getting into the device to avoid damage to the internal components. If liquid enters the device, immediately stop using, turn off the power, and disconnect all cables.
- Before cleaning the device, make sure to turn off the power to prevent electric shock.

CAUTION

- Clean the body of the device with a piece of soft dry cloth. For any dirt that is hard to remove, pick up a piece of clean and soft cloth, dip it into a little neutral detergent and gently wipe the dust away. After that, wipe away all the remaining liquid with another dry cloth. Never use volatile solvents such as alcohol, benzene and thinner, or cleaners that are strong and abrasive. Otherwise, the device's surface coating will be damaged and its working performance will be encumbered.
- Save the factory packaging. If the device malfunctions, contact us directly for support or troubleshooting.

Contact Us

Have questions about your device?

Give us a call toll free: 888-212-7538
Email us at: www.amcrest.com/othersupport
For other contact information please visit
www.amcrest.com/contact

