

Infrared thermal imaging telescope

Ork Hunter

User manual

Models: OH 25 / OH 35



Works with
mobile



Simplicity
of use



4 heat detection
modes



Automatic lock on
to the heat



Electronic
digital sight



4x digital
zoom

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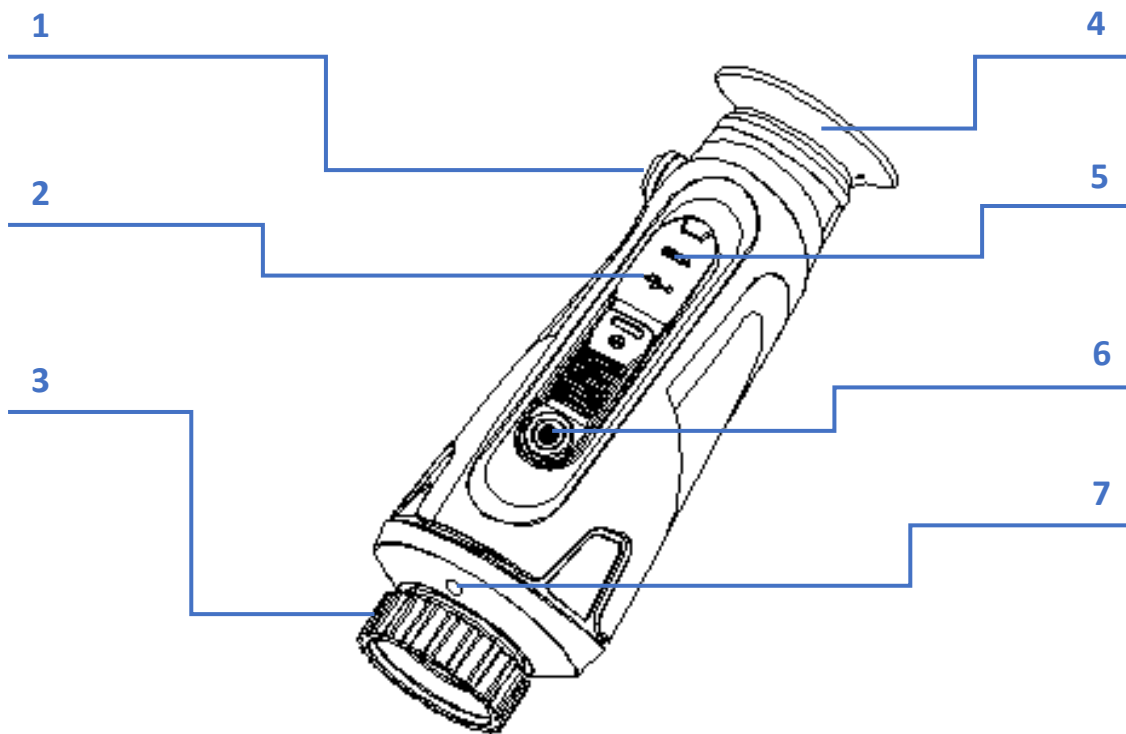
1. Product instructions

1. Because the uncooled infrared telescope uses a very sensitive thermal sensor, it is not allowed to directly aim the lens at a strong radiation source (such as the sun, direct or reflected laser beam, etc.) under any circumstances (turn on or off), otherwise it will Uncooled infrared telescopes cause permanent damage!
2. After the laser indicator function is turned on, please do not irradiate human eyes to avoid injury!
3. The instrument enters the automatic sleep state and can be woken up by pressing any key.
4. Please check the power when the instrument is used for the first time. If necessary, charge it for three hours before using it. When USB charging, please place the instrument in an environment below 40°C.
5. Do not open the case or modify it without authorization. Maintenance can only be carried out by authorized personnel of our company.



[1]	Power light
[2]	Power key/color code/brightness/zoom
[3]	Lens (lens cover)
[4]	Eyepiece/monitor
[5]	Visual adjustment
[6]	Charging (data) port/video port
[7]	Laser designator

2. General information



[1]	Diopter adjustment
[2]	USB Charging port
[3]	Lens
[4]	Eyepiece
[5]	Video interface
[6]	Tripod fixing hole
[7]	Laser pointer

[1] Diopter adjustment

According to the individual's degree of myopia, adjust the diopter of the knob.

[2] USB Charge

- When charging, remove the USB cover at the bottom of the instrument and insert the USB charging cable (voltage DC 5V, current not greater than 2A) for charging.
- The red indicator light is on when charging, and the green indicator light is on when the charging is completed.

[5] Video output

- When in use, remove the cover of the video interface at the bottom of the instrument and insert the configured video cable, which can be connected to the display or other long-distance transmission.

For example, you can connect the infrared thermal imaging telescope to Partizan DVR and see the image on a monitor that is connected to the same recorder.

Parameter configuration

- Type: Uncooled focal plane
- Focal length: 25 mm (for OH 25), 35 mm (for OH 35).
- Noise equivalent temperature difference: 0.05°C–30°C
- Focus range: 1 m~∞
- Focusing method: manual focus
- Pixel: 384×288
- Sampling frequency: 50 Hz
- Eyepiece: 1280*960

Detection distance

Model	OH 25	OH 35
Target size	25 mm focal length	35 mm focal length
Small animal 1.8*0.5 m	700 m	1000 m
Large animal 2.3*2.3 m	1100 m	1500 m

Recognition distance

Model	OH 25	OH 35
Target size	25 mm focal length	35 mm focal length
Small animal 1.8*0.5 m	350 m	500 m
Large animal 2.3*2.3 m	560 m	790 m

**Notice**

The illustrations of products, accessories, user interface, etc. in this manual are all schematic diagrams for reference only.

Due to product updates and upgrades, the actual product may be slightly different from the schematic diagram.

The whole machine is guaranteed for two years.

1. During the warranty period, due to the malfunction caused by the product itself, please contact the seller service department.
2. After purchasing the machine, please fill in the warranty card.
3. The following conditions belong to the paid warranty:
 - Failure and damage caused by improper use or mis operation
 - Failures and damages caused by unauthorized repairs, modifications, disassembly, and other liabilities that are considered the user's responsibility
 - Failure and damage caused by natural disasters such as fires, earthquakes, floods, wind disasters, thunder and lightning, and abnormal voltages
 - Failure caused by the use of the environment does not meet the requirements of this product
 - No warranty paper or warranty card has been changed privately
 - Warranty period expired
4. The warranty responsibility is limited to the fault repair of the product during the warranty period, and no other responsibilities are assumed.


3. Key and function description


Power key


- Long press for 3 seconds to turn on/off the thermal imager, and the green indicator light is on.
After the device is turned on, press the button to sleep the display eyepiece, and press any key to wake up the eyepiece.


Color code

- Short press to switch and display the built-in color code function, with four modes of color code: white hot, black hot, red hot, and pseudo-color.

-  White hot: relatively high temperature display is white.

-  Black hot: relatively high temperature display is black.

-  Red hot: relatively high temperature display is red.

-  Pseudo-color: relatively high temperature display is pseudo-color.

Long press for 3 seconds to turn on the **infrared menu**, short press again to switch the menu function options, then short press the "**Brightness**" or "**Zoom**" key to change the menu content, and long press the "**Color code**" again to exit the menu.

Brightness key







- Short press to adjust the brightness level of the eyepiece (level 5) and adjust the appropriate brightness according to the on-site environment.
- Long press for 3 seconds to turn on the laser indicator and sight function.

Electronical zoom key

- Short press single step magnification, long press continuous magnification, 1.0~4.0 times cycle.

4. The infrared menu setting instructions





Infrared parameter setting

-  Contrast setting: 0~100% adjustable, the factory default is: 50%, can be adjusted according to the on-site environment by pressing the "enlarge" or "brightness" key.
-  Brightness setting: 0~100% adjustable, the factory default of white heat mode is: 30%, and the factory default of iron red mode is: 20%, which can be adjusted by pressing the "Zoom" or "Brightness" key according to the on-site environment.
-  Image enhancement setting: 0~15 Factory default: 10, you can press the "Zoom" or "Brightness" key to adjust according to the on-site environment to get a clearer image.
-  Red display setting: -100%~100%, (factory default: 10%) is the range value for triggering the display of red, which can be adjusted by pressing the "Zoom" or "Brightness" key according to the on-site environment.
-  The distance estimation function setting can automatically display the target distance of the current image ruler after it is turned on, and the range can be adjusted by pressing the "Zoom" or "Brightness" key.
-  Wi-Fi switch function setting, you can press the "Brightness" button to turn on (AP) or turn off (N) the Wi-Fi function, and the icon will be displayed in the upper right corner of the image after it is turned on.



ATTENTION!

Turning on Wi-Fi for a long time will increase the power consumption of the instrument and shorten the standby time of the instrument. Please turn off this function when not in use.

-  The picture-in-picture function setting can be turned on or off by pressing the "Zoom" or "Brightness" key.
-  Hotspot tracking function, press "Zoom" or "Brightness" button to turn on or off, after turning it on, it will automatically track the highest temperature point on the display screen.
-  Display sleep time setting: 0/5/30/60 (min), factory default: 0. Press the "Zoom" or "Brightness" key to adjust.
-  Cursor setting, press "Zoom" or "Brightness" key to switch between cursor type and cursor display position, the position is adjustable, and it will be saved after adjustment.

5. Compatibility with mobile devices

Infrared thermal imaging telescope OH 25 and OH 35 are compatible with the **IR-TRACKER** mobile application for iOS or Android:



- **iOS:**

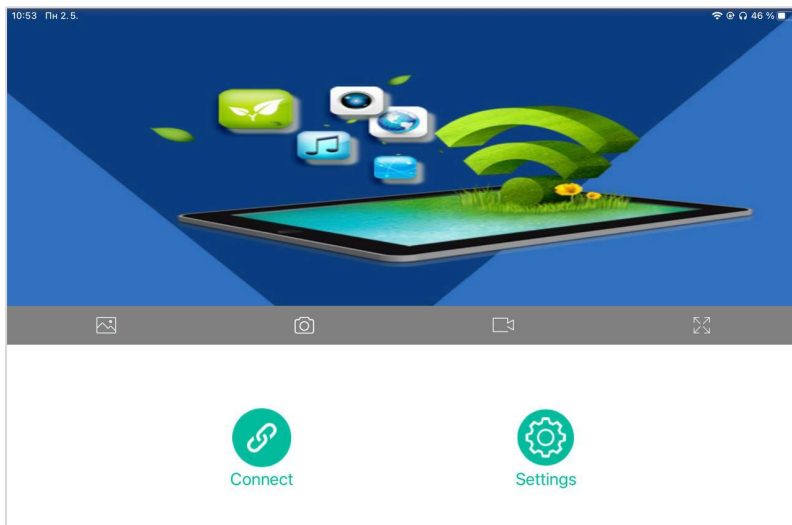
Search for "IR-TRACKER" in the Apple system, install and run the mobile client program, find the instrument hotspot "CHD_XX:XX:XX" in the mobile phone, connect and enter the password "12345678", after the connection is successful, open the IR-TRACKER mobile application, click the "Connect" to see the image, and the functions of image taking, video recording, playback and storage can be realized through the mobile client software.

- **Android:**

You can download and install mobile application.

6. IR-TRACKER Mobile Application

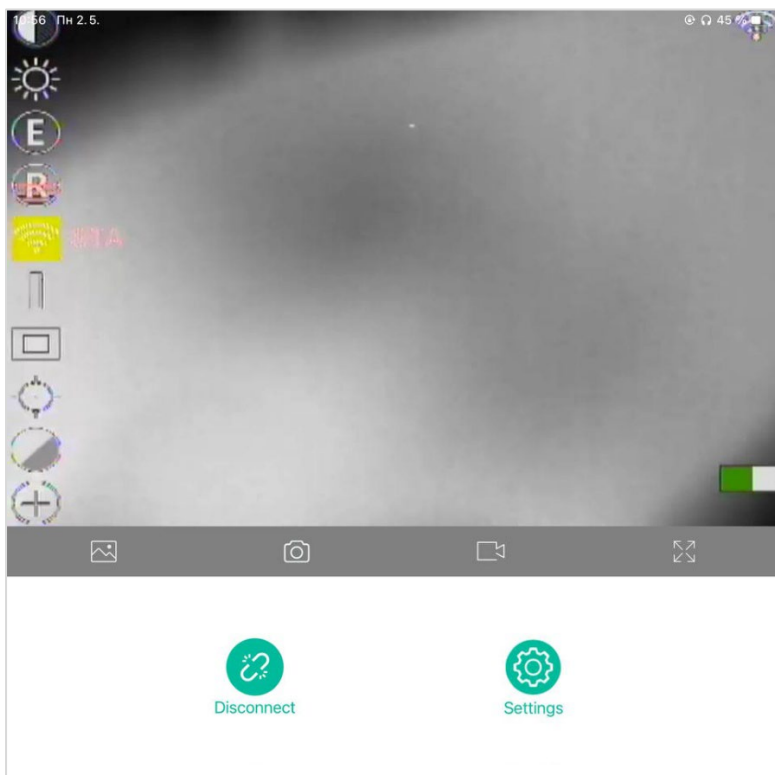
Connection screen



Tap the button to connect your device to the mobile application.

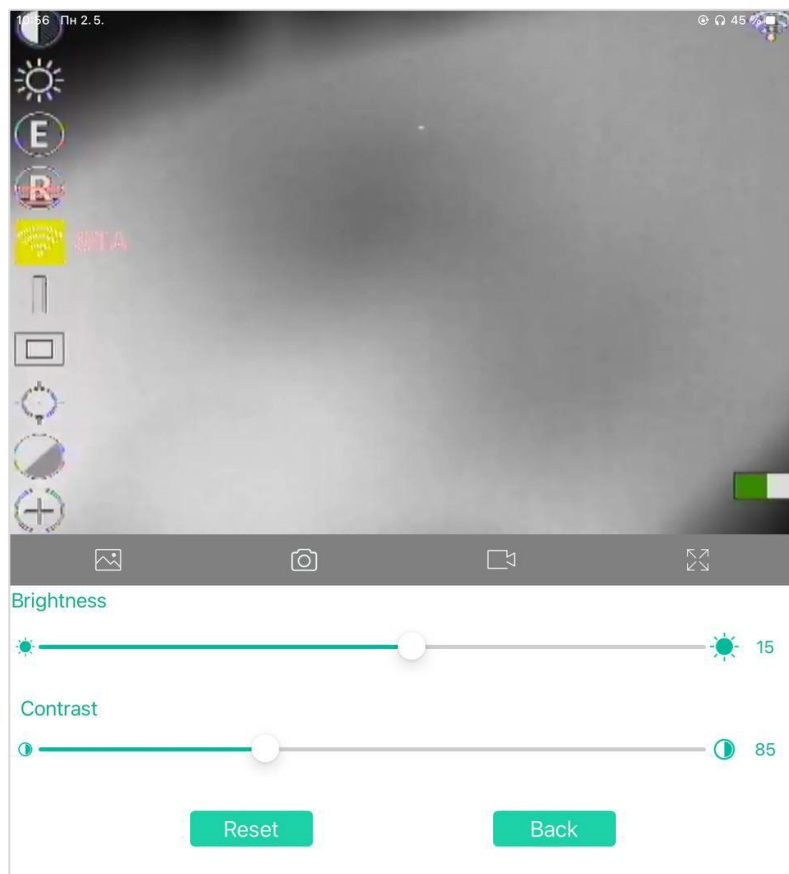
Main screen

After connection, the image from your device will be displayed on the mobile screen.

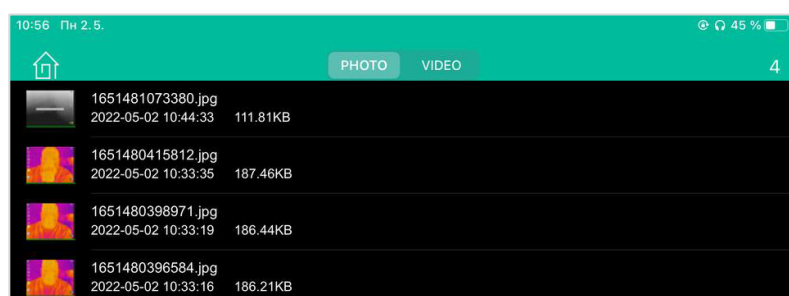




Tap the button to open the Brightness and Connect settings.



Tap to open the Gallery.



Tap to make a photo and save it to the Gallery.



Tap to record a video and save it to the Gallery.



Tap to turn on the full screen mode.