

RS5
series

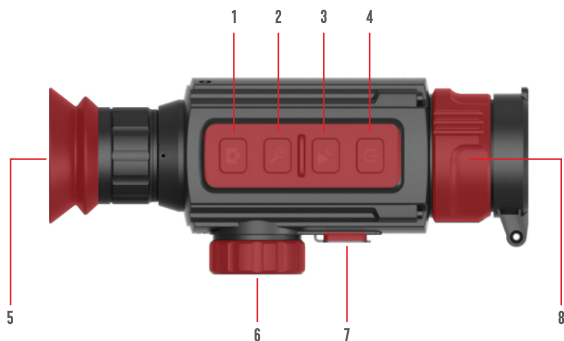


INFRARED THERMAL IMAGING RIFLESCOPE

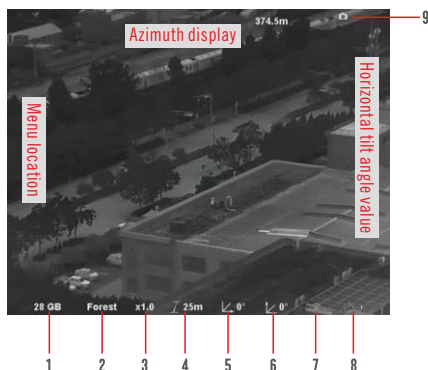
QUICK GUIDE

PRODUCT BUTTONS INTRODUCTION

- | | |
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| ① Photo/video | ⑤ Eyepiece adjust |
| ② Zoom in/correct | ⑥ Battery compartment |
| ③ Color code/menu | ⑦ Type-C port |
| ④ Power /hibernate | ⑧ Lens adjust |



- 1 Remaining storage capacity
- 2 Color code status
- 3 E zoom status
- 4 Calibrated distance value
- 5 Calibration of horizontal angle values
- 6 Calibrating pitch angle values
- 7 WIFI statu
- 8 Battery status
- 9 Camera recording status



Power

- Long press to turn on/off the thermal imager.
- After power on, short press to make the eyepiece hibernate, and press any key to wake it up.
- When setting calibrating data, short press to turn on/unfreeze the image function.

Colour code

- Short press to switch colour scale. WHot (white-hot), BHot (black hot), IHot (iron red), Roth (red hot), Forest (forest mode), the factory default is WHot (white hot).
- Long press to enter the user menu, and long press again to exit the current menu.

Zoom in

- Short press for electronic zoom, 1X, 2X, 4X cycle zoom.
- Long press to enable manual image uniformity correction.

Photo

- Short press to take pictures.
- Long press to start the recording function, and short press again to end the recording.





Function key combination

- Press and hold the "Zoom in" key  and the "Photo" key  at the same time to enable or disable the horizontal tilt angle value.



Diopter adjustment

- According to the individual degree of far and nearsightedness, adjust the eyepiece knob to adjust the diopter until the image and text are clear.



Menu

- Press and hold the "Color code" key  to enter or exit the menu mode.
- In the menu mode, press the "Zoom in" key  or the "Photo" key  to select a function, and press the "Color mode" key  to select a function.





- **"RANGING FUNCTION SETTING:** Laser ranging can be performed on targets within 1000m. Press the "Zoom in" key  or the "Photo" key  to turn this function on or off, and the factory default is turned off. (*Requires optional laser ranging module)



- **"ZERO SETTING:** can turn on or off automatic zero. Press the "Zoom in" key  or the "Photo" key  to turn this function on or off, and it is turned on by default.



- **"PICTURE-IN-PICTURE FUNCTION:** the centre area is enlarged by 2 times by default. When the electronic zoom is activated at the same time, the picture-in-picture image is enlarged cyclically by 2X, 4X, and 8X. Press the "Zoom in" key  or the "Photo" key  to turn this function on or off, and it is turned off by default.



- **WIFI FUNCTION:** Android system can enter the official website to download the mobile client program "IR-TRACKER V", after installing and running the mobile client program, in the first use state, find the instrument hotspot "RS5_ xxxxxxxx" in the mobile phone WIFI, the initial password "12345678", the connection is successful. After that, open the "IR-TRACKER V" software of the mobile phone, click the software "connect" to see the image, and realize the functions of taking pictures, video recording, playback and storage of the images through the mobile phone client software. The WiFi name and password can be customized by the client after connecting. Press the "Zoom in" key or the "Photo" key to turn this function on or off, and it is turned off by default.

NOTE: Turning on WIFI 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.



- **ENHANCED FUNCTION:** When enabled, it will display an enhanced image to increase image details. Press the "Zoom in" key or the "Photo" key to turn this function on or off, and it is turned on by default.



- **HOT SPOT TRACKING FUNCTION:** After it is turned on, it will take effect after exiting the menu, which can assist in tracking the highest temperature target on the screen. Press the "Zoom in" key or the "Photo" key to turn this function on or off, and it is turned off by default.




NOTE: When the hot spot tracking function is turned on, the electronic zoom operation cannot be performed at the same time.






- **CURSOR TYPESETTING:** ten cursor types can be selected (1~10), and no cursor mode (0) can be selected. Press the "Zoom in" key or the "Photo" key to switch the cursor type, and press the "Color mode" key to select the cursor. And save, the factory default is "0".



- **CALIBRATION DATA SET:** 5 sets of calibration data can be saved, press the "Zoom" key or the "Photo" key to switch the custom calibration data set, and press the "Color mode" key to select the custom set for setting.

NOTE: After entering the calibration data setting menu, perform aiming and calibration shooting. When the target heat appears on the screen, short press the "Power" button  to freeze the image, and then do the following operations. If you need to unfreeze, you can also short press the "power" button  again, or long-press the "colour mode" button  to exit the current menu and automatically unfreeze.






- **MAGNIFICATION:** Selectable calibration electron magnification, 1x/2x/4x. Press the "Zoom in" key  or the "Photo" key  to change the parameters, and press the "Color mode" key  to select and return.









- **CALIBRE:** You can select the calibration calibre size (Imperial), the range is 0.20~1.80. Press the "Zoom in" key  or the "Photo" key  to change the parameters, and press the "Color mode" key to select and return.




- **DISTANCE:** Selectable calibration distance, 25/50/100. Press the "Zoom in" key  or the "Photo" key  to change the parameters, and press the "Color mode" key  to select and return.




- **CROSS RETICLE:** You can move the red cross reticle to the target point. Short press the "colour mode" button  to switch between horizontal (X-axis)  and vertical (Y-axis) ; press the "zoom in" button  or "photo" button  to change the coordinate value; after reaching the target position, long-press the "colour mode" button  to save the score. Swipe the position and return to the previous menu.





- **MODIFY:** Modify and save the current group setting parameters. Press the "colour mode" key  to save the modified parameters.



- **RETURN:** return to the previous menu, and press the "colour mode" key  to return to the previous menu.






- **SCREEN BRIGHTNESS SETTING:** Support 5-speed eyepiece display screen brightness adjustment, press the "Zoom in" key  or "Photo" key  to switch gears, the factory default: 3.










- **IMAGE SETTING:** Contrast, brightness and red display trigger settings can be set. Press the "Zoom in" key  or the "Photo" key  to adjust the parameters, and press the "Color mode" key  to confirm saving and exit.




- **SLEEP SETTING:** The optional automatic sleep time is 0min, 5min, 30min, and 60min. The screen will automatically sleep if there is no operation during this time period. Press any key to restore the sleep state. The default factory setting is 0min. Press the "Zoom in" key  or the "Photo" key  to switch the time, and press the "Color mode" key  to confirm saving and exit.






- **SYSTEM SETTINGS:** After entering, the system settings can be performed on the following functions of the instrument.

 Repair the dead point: short press the "colour mark" button to switch between horizontal (X-axis)  and vertical (Y-axis) ; press the "zoom in" button  or "photo" button  to change the coordinate value; after aligning the box with the dead point, short press "Power" button  to repair the dead point; after completing the dead point repair, long-press the "colour mode" button  to save the parameters and exit.







- **THREE-AXIS CALIBRATION:** Motion sensor and compass recalibration can be performed. The calibration operation is as follows: After entering this function, place the instrument horizontally and rotate the horizontal (space X-axis) clockwise three times. After completion, short press the "colour mode" key  to save the parameters and exit.






- ***MALE-FOOT UNIT SWITCHING:** switch between feet "l" and meters "m". Press the "Zoom in" key  or the "Photo" key  to switch units, and press the "Color mode" key  to confirm saving and exit. The factory default is m. (*This function is the distance unit switch of the ranging version)






- **SYSTEM UPGRADE:** version upgrade is available. The filename of the version upgrade program is "bin", which can be downloaded from the PC (for details, please contact the manufacturer's after-sales technical support). Copy the program to the root

directory of the instrument's local storage space, press the "Zoom in" key  or the "Photo" key  to switch between "YES" and "NO", and short press the "Color mode" key  to confirm. After the instrument upgrade is completed, press and hold the "Power" button  for 10 seconds, the instrument will be forced to shut down, and the upgrade will be completed after restarting.




- **FORMATTING:** The stored content can be formatted. Press the "Zoom in" key  or the "Photo" key  to switch between "YES" and "NO", and short press the "Color mode" key  to confirm.



- **RESTORE FACTORY SETTINGS:** You can restore factory settings. Press the "Zoom in" key  or the "Photo" key  to switch between "YES" and "NO", and short press the "Color mode" key  to confirm.



- **LOCAL INFORMATION:** You can view the local information.
- Press and hold the "Color mode" key  to exit the menu mode.

USB CHARGING/DATA PORT

- When charging, open the Type-C port cover of the instrument and insert the USB charging cable (voltage DC5V/2A) to charge.
- Pull off the interface cover of the device, connect the computer with a USB cable, and copy the photo and video data files.

LIVE VIDEO OUTPUT

- When in use, open the Type-C interface cover of the device and insert the configured cable, which can be connected to the display on the monitor or other long-distance transmission.

NOTES:

- Because the uncooled infrared telescope uses a very sensitive thermal sensor, under any circumstances (on or off), the lens must not be aimed directly at a strong radiation source (such as the sun, direct laser beam or reflection, etc.) Or else, permanent damage would happen to the uncooled infrared telescopes!
- Use the lens cleaning cloth and water to gently clean the infrared lens. Do not use organic solvents or sharp and hard objects to clean the infrared lens, in case to cause the lens film falls off!
- After the laser ranging function is turned on, please do not irradiate the human eyes to avoid injury!
- Please check the power when the device is used for the first time, if necessary, charge it for three hours before using it. When charging by USB, please place the device at room temperature.
- Do not open the case or modify it without authorization. Maintenance can only be done by authorized personnel of our company.