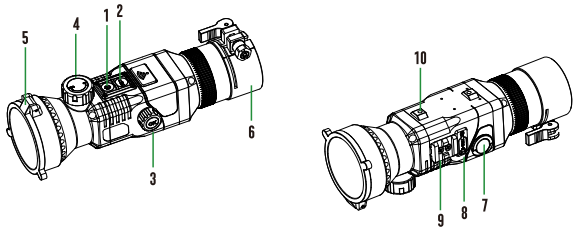
RS6
series

THERMAL IMAGER

QUICK GUIDE

1.BUTTONS AND FUNCTION



NO.	Buttons	Function
1	Power	• Short press: manual image correction • Long press: power on/off
2	Photo	• Short press: capture picture, and exit video recording • Long press: turn on the video recording
3	Knob Operation	• Short press: color palette switching In menu mode: function confirmation • Long press: enter/exit user menu • Rotate:zoom in In menu mode: left/right switching and value addition/subtraction
4	Focus Ring	Manually adjusting image clarity
5	Lens cap	Lens protection
6	Adapter ring	For use with optical riflescope
7	External Battery Compartment	Can be powered by external battery, battery type CR123A
8	Interface	Type-C interface, used for charging, external power supply, data transmission, system upgrade, and analog video output
9	Extended Dovetail Groove	For use with other accessories
10	Rail Interface	For use with Picatinny rail

2.OPERATION

Power

- Short press: manual image uniformity correction, can be performed manually to refresh a clear image.
- Long press: on/off device.

Photo

- Short press: take photos and exit the video recording.
- Long press: turn on the video recording.

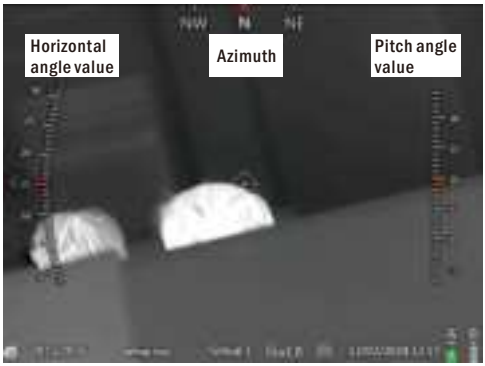
Knob

- Short press: color palette switching among White hot, Black hot, Emerald, Iron hot, Red hot and Green.
- Long press: enter/exit user menu.
- Rotate: 1.0～8.0x zoom in. Single step 0.1x zoom for fine on target image.

Combination Button function :

Power + Knob

Simultaneously press and hold the “Power＋Knob” button to switch between front/observation mode.



Capacity	Palette	Group	Zoom	WiFi	System time	Battery

3.USER MENU OPERATION

Knob Instruction

- Short press: function confirmation.
- Long press: return.
- Left/right switching and value addition/subtraction.

4.INTRODUCTION TO USER MENU FUNCTIONS

4.1 Functions menu

WiFi:off/AP/STA

AP mode:

Download the client program "IR-TRACKER V", install and run the mobile client program, and for the first time in use, find the instrument hot-spot "XXX_XXXXX" (WiFi name is "model serial number") in the mobile WiFi, with an initial password of "12345678". After successful connection, open the mobile "IR-TRACKER V" software, click on the software "Connect" to see the image, and use the mobile client software to achieve functions such as taking photos, recording, playback, and storage of the image. After connecting, the WiFi name and password can be customized on the client side. Click "Setting" on the homepage to enter the settings, select "WIFI settings", enter the desired WiFi name and password, click "Confirm the changes", and the STA mode setting is completed.

STA mode:

You need to first connect to the client in AP mode. Click "Setting" on the homepage to enter the settings, select "Router settings", enter the WiFi name and password you want to connect to, click "Confirm the changes", and the STA mode setting is completed. Select STA mode for local WiFi to automatically connect to the network.

Note: Turning on WIFI for a long time will increase the power consumption of the device, resulting in shorter standby time, please turn off this function when not in use.

OSD: on/off
Display and Hidden of Status Bar.

RAV: on/off
Enable RAV function. When the impact occurs, the local recording will automatically start, and a pre-recorded video of 10 seconds before the impact will be synthesized into the recording file.

Screen Brightness: 1/2/3/4/5
Support 5-level eyepiece display screen brightness adjustment.

Distance estimate
Automatically displays the estimated distance to a specific target size object on the scale.

Hot-spot tracking: on/off
When turned on, the main interface will appear to automatically track the cursor to display the highest temperature point on the screen.

Picture in Picture: off/Top/Bottom
It can be displayed in two fixed positions, top and bottom, and the center area will be enlarged twice.

Enhance: 0~15
Enhance the clarity of the image by up to 15 levels, the factory default is 5th level.

Auto NUC: on/off
When turned on, the device automatically zeroing for image refresh; When turned off, the device will no longer automatically refresh images. You can manually refresh images by short pressing the button "Power".

4.2 System setting

Language: English/Russian/German
Three languages are optional.

System information
Displays information such as device model/software version.

Formatting
The built-in memory card can be formatted, and a prompt will appear at the top after successful formatting.

ATTENTION: After formatting, all files in the built-in memory will be deleted. Please operate with caution.

Upgrade
Version upgrades are available.
The operation of version upgrade is as follows:
Preparation: Download the version upgrade program file through PC (for details, please contact the manufacturer's after-sales technical support), and copy the ".upp" upgrade program to the root directory of the local storage space of the device.
Device upgrade: Click the function in the device and select upgrade. After the upgrade is completed, press and hold the button"power " to turn off the device, and then turn on the device again to restart, the upgrade will be completed.

Save: on/off
When turned on, the recording will save the audio.

Compass calibration
After entering the compass calibration, rotate the device according to the prompts to correct the electronic compass.

Sleep: 0/5/30/60
The optional automatic sleep time is 0min/5min/30min/60min. If there is no operation during this time period, the eyepiece will be automatically turned off. The device will be in low-power standby mode, and press any button to restore.

4.3 Zeroing (Calibration)

Knob

- Short press: function confirmation.
- Rotate: Left/right switching and value addition/subtraction.

Group : 1/2/3/4/5
Five sets of user-defined parameters for riflescope calibration.

Cursor Type : 0~10
Ten cursor types are available, default "0" off.

Color: White/Red/Green/Yellow
Four cursor colors are available.

Freeze: on/off
Freeze the image.

Zoom in : 1X/2X/4X/8X
1x/2x/4x/8x centered on the cursors.

Left/Right : [-360,360]
Moves the cursor left/right on the X-axis.

Up/Down : [-270,270]
Moves the cursor up/down on the Y-axis.

Reset
Reset the cursor position to the initialized position (0,0).

Return
Saves the parameters and returns to the previous menu.

Note: The device can be calibrated by connecting to the "EASY SHOOT" client via WiFi, and the calibration data will be saved synchronously.

4.4 Image Setting

Dead pixel

Power

· Short press: fixes the dead spot in the cursor frame.

Knob

· Short press: function confirmation.

· Rotate: left/right switching and value addition/subtraction.

Left/Right:[0,719]
Moves the cursor left/right on the X-axis.

Up/Down:[0,539]
Moves the cursor up/down on the Y-axis.

Return
Saves the parameters and returns to the previous menu.

Restore Factory Settings
All parameters will be restored to the default values when turned on (except group parameters).

Red Display Trigger:[-100,100]
In the red hot mode, the red part displays the trigger value, which is the adjustment of the red rendering display position.
-100～100 adjustable, can be adjusted left or right by rotating the knob according to the on-site environment.

Brightness:[0,100%]
Infrared image brightness adjustment.
-100～100 adjustable, can be adjusted left or right by rotating the knob according to the on-site environment.

Contrast:[0,100%]
Infrared image contrast adjustment.
-100～100 adjustable, can be adjusted left or right by rotating the knob according to the on-site environment.

USB CHARGING/DATA INTERFACE

- Open the Type-C interface cover of the device and insert a USB charging cable (voltage DC5V/2A) for charging.
- Connect to computer with USB cable for photo video recording and upgraded data file copying.

REAL-TIME VIDEO OUTPUT

- Open the Type-C interface cover of the device and insert the configured cable to connect to the display or other long-distance transmission on the monitor.

PRECAUTIONS

- For uncooled infrared riflescopes use very sensitive thermal sensors, the lens must not be pointed directly at a source of strong amplitude (e.g., the sun, direct or reflected laser beams, etc.) under any circumstance (power on or off), or permanent damage to the uncooled infrared riflescopes will result!
- Use a mirror wipe and water to gently wipe clean, do not use organic solvents or sharp hard objects to clean the infrared lens, so as not to cause the lens film off and other conditions!
- When using the device for the first time, please check the battery capacity, and if necessary, charge the device for three hours before use. When charging, please place the device in a room temperature environment.
- Please do not open the casing or modify without authorization, maintenance can only be carried out by our authorized personnel.

FCC Statement

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, and
(2) This device must accept any interference received, including interference that may cause undesired operation.
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna.
- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement.
The SAR limit adopted by USA and Canada is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The highest SAR value reported to the Federal Communications Commission (FCC) the Industry Canada (IC) for this device type when it is tested for the properly worn on the body is under 1g 1.6W/Kg.