

Quick Start Guide

NV700LRF-4K

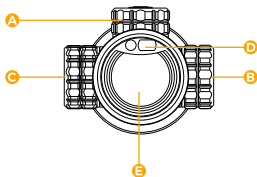
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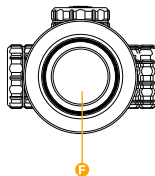
• Package Contents

- | | |
|--------------------------------|---------------------------------------|
| 1. NV700LRF-4K: 1pc | 2. USB Type-C data & power cable: 1pc |
| 3. Quick Start Guide: 1pc | 4. Warranty Card: 1pc |
| 5. Battery Charging Stand: 1pc | 6. Scope Ring: 1set |
| 7. IR Flashlight: 1pc | 8. Flashlight Ring: 1set |
| 9. Velvet Pouch: 1pc | 10. Allan Wrench: 1pc |

• Interfaces



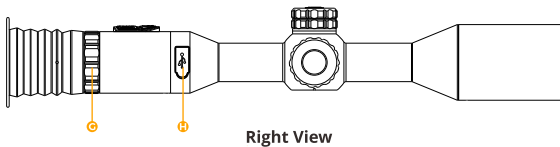
Front View



Back View

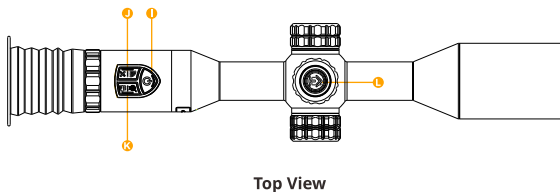
- A.** Zoom (+) or (-)/Menu/OK button/Leftward/Rightward
- B.** Objective lens focusing rotation ring
- C.** External battery compartment
- D.** Laser rangefinder, to measure the distance from the target
- E.** Objective lens, to collect available light to form the initial image
- F.** Eyepiece lens, to observe the imaging on the OLED screen

• Interfaces



G. Eyepiece diopter adjustment ring

H. TF card slot/Type-C power and data interface



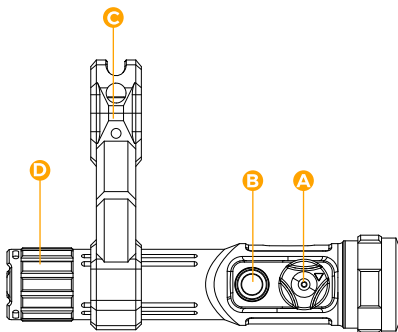
I. Power button, power on/off the device

J. Ranging button/WiFi switch

K. Quickly retrieve calibration data/Video

L. Menu/OK Button

• Interfaces



IR Flashlight

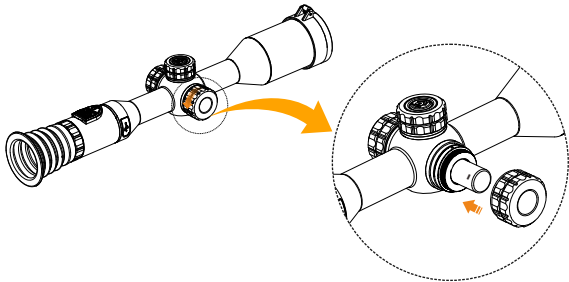
- A.** Dual infrared (850/940nm) adjustment knob. Rotating this knob can switch the wavelength of the IR Illuminator
- B.** Power Button: Long press this button to turn it on or off, short press to switch modes, with a total of 3 adjustable levels
- C.** Flashlight ring, used to connect the flashlight to the scope
- D.** Battery compartment, for installing a 18650 battery

• Installation Instructions

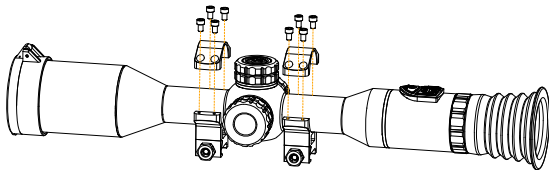
1. Preparation

1. NV700LRF-4K: 1pc
2. Scope ring: 1pc
3. IR flashlight: 1pc
4. Flashlight ring: 1pc
5. Allen wrench: 1pc
6. 18650, 3.7V battery: 1pc

2. Battery Installation

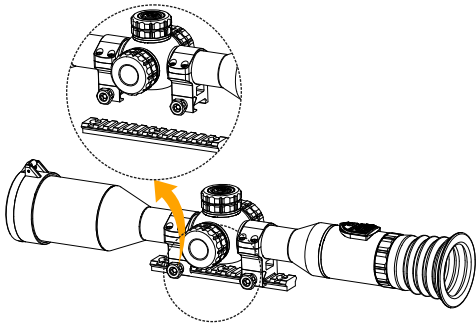


3. Scope Ring Installation

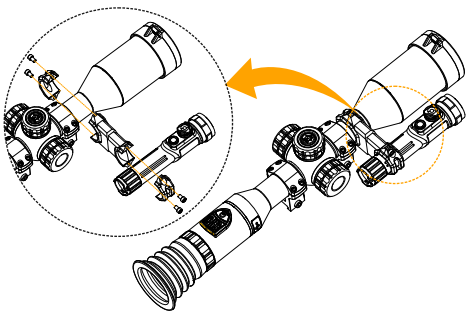


• Installation Instructions

4. Connect the night vision scope to the picatinny rail

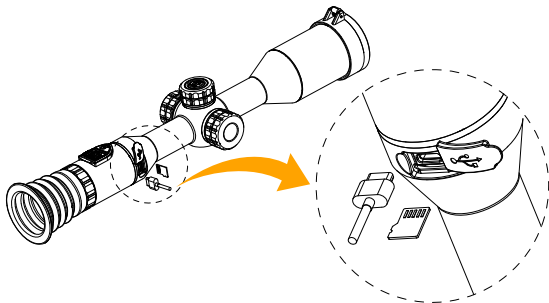


5. Connect the flashlight to the scope.



● Installation Instructions

6. Charging the device, set up the TF card



● Instructions for Operation

1. Shortcut Button Operation

	Short press(<1s) to enter/exit sleep mode, press and hold (>3s) to power on/off the device
	Short press(<1s) to quickly retrieve calibration data, press and hold (>1s) to open the video recording function
	Short press(<1s) to turn on/off the WiFi, press and hold (>1s) to enter the ranging mode
	press and hold to enter into the menu or return to the previous menu, short press to choose the option

● Installation Instructions

2. Eyepiece Lens Focusing

If you can't see the electronic icons on the screen clearly, rotate the diopter adjustment ring to suit your eyesight.

3.Objective Lens Focusing

Aiming at the target you want to see, rotate the focusing ring of the objective lens so that the target image can be clearly seen.

4.Wheel Operation

(1) Out of the menu: Rotating counterclockwise zooms out, rotating clockwise zooms in. Zoom in and out is cyclical; press and hold the wheel to enter the menu.

(2) In the menu: Rotating counterclockwise moves up or left; rotating clockwise moves down or right; press and hold the wheel to exit or return to the previous menu. Short press to choose the option.

● Menu Operation Instructions

1. General Settings

 Language	The interface supports 12 languages, which can be changed at any time.
 Color	Switch the interface color between color and monochrome mode.
 OLED Brightness	Adjustable across five levels.

• Menu Operation Instructions

 Contrast	Adjustable from 1 to 10.
 Exposure	Adjustable from -2.0 to +2.0.
 G-Sensitivity	Adjustable between Low, Medium, and High.
 Date/Time	Off/On. Rotate and briefly press the wheel to enter settings. Adjust values by rotating the wheel, and press shortly to save and move to the next item. Press and hold to return to the previous menu after completing all settings.
 Format	All data on the TF card will be erased after confirmation.
 Default Setting	All device parameters will be reset to factory defaults upon confirmation.
 Version	View the firmware version and serial number of the device.

2. Reticle Settings

 Reticle Shape	6 shapes available.
 Reticle Color	4 colors available.

• Menu Operation Instructions

 Zeroing	1. Enter the Zeroing menu and select any of the 45 groups from A100m to E900m. Here, we use A100m as an example. 2. Fire at a target 100 meters away while keeping the firearm steady, then briefly press the menu key to freeze the screen. The reticle adjustment interface will appear. 3. Rotate the wheel left or right to adjust the Y-axis position. After completing the Y-axis adjustment, briefly press the menu key to switch to the X-axis. Rotate the wheel again to adjust the X-axis position until the reticle aligns with the bullseye. 4. Then press and hold the menu key to enter the Save/Reset screen. Rotate and briefly press the wheel to save and complete the zeroing process. Users can repeat these steps at different zeroing distances as needed.
 Zeroing Info	All saved zeroing data is stored in Zeroing Info, where users can quickly access it. For example, if zeroing data for 100m and 200m in Group A has been saved, both sets will appear under Group A in Zeroing Info. Selecting the corresponding data will automatically adjust the reticle position accordingly.

3. Ballistic Calculator

Users can turn the ballistic calculator on or off by briefly pressing the menu button, depending on their actual needs. All ballistic parameters are displayed in this interface. To modify any parameter, connect the device to the "Ten Rings Shots" app and make adjustments there.

• Menu Operation Instructions

4. Ranging Settings

 Ranging	Turn the ranging function on or off.
 Ranging Unit	Switch the ranging unit between yards and meters.
 Ranging Position	Align the  with the actual ranging point. Briefly press the menu button to enter ranging positioning. Rotate the wheel left or right to adjust the Y-axis position. After completing the Y-axis adjustment, briefly press the OK button to switch to the X-axis. Rotate the wheel again to adjust the X-axis position until the  with the ranging point. Then press and hold the wheel to enter the Save/Reset interface.
 Ranging Mode	Set the ranging mode to Single or Continuous. In Single mode, the ranging value remains fixed until the range button is pressed again to update. In Continuous mode, the ranging value updates in real-time at a frequency of 1 Hz.

5. Picture in Picture

Press and hold the wheel to enter the menu settings interface. Rotate the wheel to select it. Then pop up with options such as "Off/ON".

You can choose 2x/4x/6x magnification according to the actual observation requirements, or turn off this function. This function is turned off by default.

• Menu Operation Instructions

6. Recording Settings

 Auto Recording	Turn on/off auto recording. When enabled, the device will automatically start recording each time it is powered on
 Loop Recording	Turn on/off loop recording. Once enabled, the device will perform loop recording in 60-second segments each time it is powered on.
 Audio Sync	Turn on/off audio sync. When enabled, audio will be captured simultaneously during video recording.
 Playback	Rotate the wheel to select the "Playback" option, and then press the wheel to enter the album. Rotate the wheel to select the file you want to check or delete, and short press the wheel. Delete: short press wheel, then select "Delete Current" or "Delete All" according to your needs. Then press and hold and hold the wheel to return to the exit.

7. WiFi

Press and hold the wheel to enter the menu settings interface.

Rotate the wheel to select the  and press the wheel to select "On" or "Off" on the sub-menu. After confirmation, the system can turn On or Off the WiFi.

Note: WiFi starts with "Ten Rings" and the default password is 12345678. You can find instructions on how to download the app in the subsequent sections of this guide.

Warning

1. Do not look directly at the IR Illuminator in a short distance, otherwise it will cause damage to the eyes!
2. The infrared light of this product will gather a lot of energy when it is on. It is strictly prohibited to aim at combustible objects in close range, otherwise it may cause fire. Please turn off the infrared light or go to sleep mode when it is not in use!
3. Never look at the sun through this night vision device (or any other optical instrument). It may permanently damage your eyes and equipment!
4. Do not walk, run, or use any form of transportation (bicycle, motorcycle, car etc.) when viewing through NV700LRF-4K. Doing so may prevent you from fully understanding your surroundings, including any potential obstacles or other hazards in your path!

● **Maintenance**

When using the NV700LRF-4K digital night vision device, please follow the following recommendations, guidelines and precautions:

1. Keep the device away from any heating, direct sunlight, moisture, air conditioning vents or other heating equipment.
2. Always store the device in a suitcase in a dry, well-ventilated space with a temperature above +15°C (60°F) and below +48°C (118°F). Do not store near heating equipment, in direct sunlight or high humidity (above 70%).

● Maintenance

3. Clean the optical lens with camera lens cleaning products, and clean the outside of the device with a clean soft cloth.
4. If the device is not used for more than a few weeks, please remove the battery.
5. Do not drop or shake the device in other ways. Although it has a rugged shockproof design for outdoor use, the device contains complex digital circuitry that can be damaged in extreme circumstances.
6. Do not open the device or attempt to repair the device in other ways.
7. Do not pour alcohol or any other liquid directly into the lens surface.
8. Do not use paper products (such as newspaper, textbook paper, etc) to clean the surface of the lens and unit, because it may damage the coating.
9. Do not attempt to remove the eyepiece, as the OLED display may be damaged.
10. Do not place the device in direct sunlight or rain. The device is waterproof, but not suitable for prolonged use which exposed to moisture and cannot be immersed in water.
11. Wait at room temperature for at least 3 hours after the equipment is operated at temperatures below 0°C to avoid the accumulation of condensed water on the internal surface of the lens and the consequent atomization temperature difference due to extreme conditions.
12. The device built-in one pieces 21700 battery, so if your didn't use for a long time,please charging it by type.c charger once per month,then it can extend the battery working life.

• Troubleshooting

1.The device does not turn on.

- (1) Reinstall the battery and ensure that the polarity(+/- terminal) direction is correct. Please refer to the silkscreen instructions on the battery installation direction on the cover.
- (2) Replace the battery.
- (3) Clean the battery compartment, especially the contact points.

2.Image Fuzzy

- (1) Refocus by adjusting the objective lens focusing adjustment ring.
- (2) Adjust the diopter setting by rotating the eyepiece as necessary until the display icon is clear.
- (3) Check the condition of the objective lens surface and eyepiece, and clean it if necessary.

3.In low-light conditions, the image disappears or degrades in quality.

First make sure you are in night mode and activate infrared lighting, while bright light sources (such as street lamps at night) may cause a decrease in visibility or contrast. Keep the device away from the light source and the visibility will be restored immediately.

4.Images viewed or recorded at night appear black and white.

This is a normal phenomenon and color cannot be reproduced in dim conditions when infrared lighting is used as the primary source of light.

5.When taking photos or recording videos, it is prompted that"please insert TF card".

- (1) Check if the insertion method of the TF card is correct.
- (2) Press the menu button and format the TF card.

● Troubleshooting

6. When connecting the scope to the APP, it cannot be connected or is unstable.

When the battery of the device is too low, the connection to the APP will be unstable. Please avoid connecting in a low battery state.

● TenRings Shots APP Installation & User Guide

1. How to Install?

(1) For iOS users:

- ① Open the APP Store on your mobile device
- ② Search for "TenRings Shots" in the search bar
- ③ Click the APP in the search results
- ④ Click "Get" and authenticate if required to download and install the APP.

(2) For Android users:

- ① Open the Google Play on your mobile device
- ② Search for "TenRings Shots" in the search bar
- ③ Click on the APP in the search results

● TenRings Shots Installation & User Guide

④ Click "Install" and wait for the APP to download and install on your device

(3) You can quickly get the APP by scanning the QR code below as well.



APP Store



Google Play

(4) When you open the APP for the first time, your mobile device will ask you for WiFi & Cellular permission. Please make sure to click allow and continue to enable this permission, ensuring the APP functions properly.



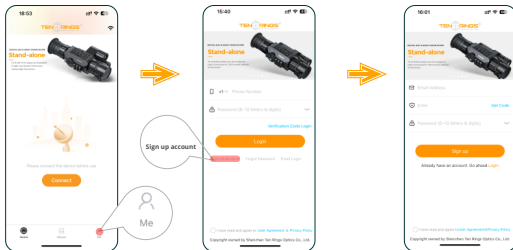
2. How to sign up and login?

(1) Enter the homepage, click "Me" in the bottom right corner of the screen. Then enter the login interface;

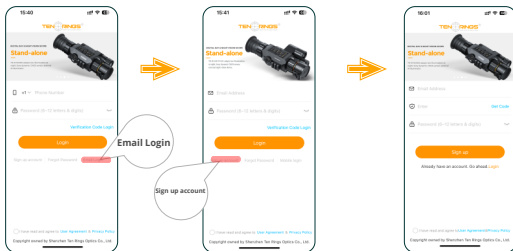
(2) If you don't have an account, please follow the steps below to sign up for an account first:

① Mobile sign up: click "Sign up account" first, then fill in the information and submit it according to the prompts on the interface.

● TenRings Shots Installation & User Guide

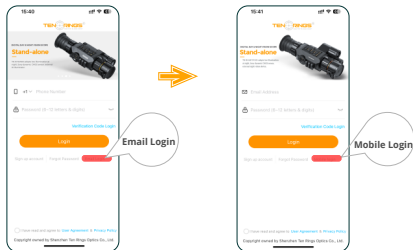


② Email sign up: click "Email login" first, then click "Sign up account", and fill in the information and submit it according to the prompts on the interface.



● TenRings Shots Installation & User Guide

- (3) If you already have an account, please log in by clicking the "Email login" or "Mobile login" to switch to the corresponding login interface, and then fill in your account information to log in.

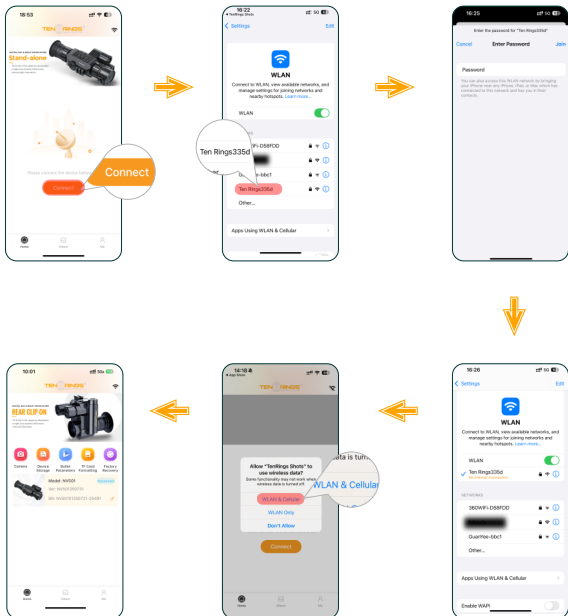


3. How to use the APP?

(1) How to connect to your scope?

- ① Turn on the WiFi of your Ten Rings scope, and check the ID and the password of the WiFi on the scope's screen;
- ② Enter the APP's homepage, click the "Connect", then turn to the WLAN list;
- ③ Choose the WiFi of your scope and enter the password, then click "Join";

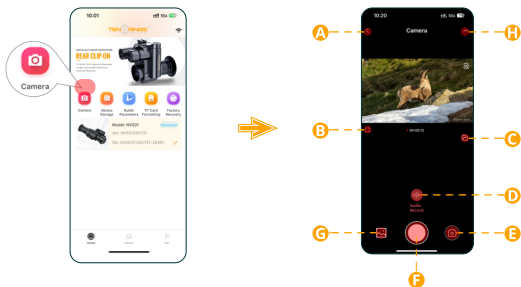
•TenRings Shots Installation & User Guide



●TenRings Shots Installation & User Guide

(2) How to use the APP to control the scope to take photos or videos?

① Click the "Camera", then click the "Shot button" to take photos or videos.



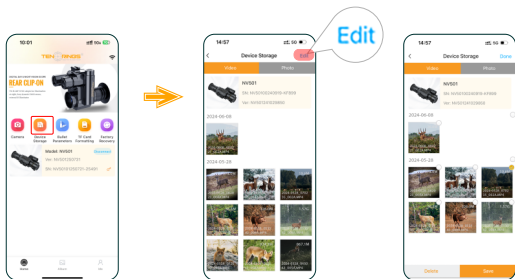
Here is the introduction to the camera interface icons:

- A.** Return to the homepage
- B.** Full screen display
- C.** Landscape display
- D.** Turn audio-record on or off
- E.** Switch the photo or video mode
- F.** Take a photo or video
- G.** Device Storage
- H.** Turn on/off the laser rangefinder; Zoom (+) or Zoom (-)

● TenRings Shots Installation & User Guide

(3) How to delete or download the files of device storage?

- ① Click "Device Storage", then click "Edit" in the top right corner of the album and select the file you want to delete or download;
- ② Click "Delete" or "Save" below. When you save a file, you may be asked for permission to get the album, please select allow. The saved documents will be placed in your local album for you to check at any time. The files cannot be recovered after confirmation, please use this function with caution!



(4) How to format the TF card or factory reset my scope?

Click "TF Card Formatting" or "Factory Recovery", and select "Confirm" in the pop-up alert bar. If you choose the "Confirm", files cannot be recovered after confirmation, please use this function with caution!

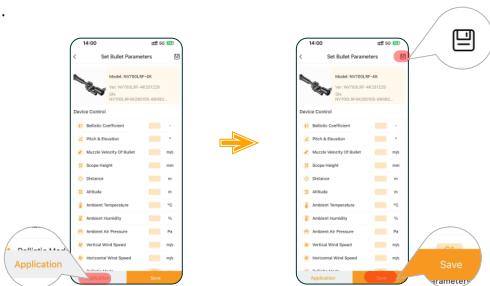
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(5) How to set ballistic parameters

① Click on 'Ballistic Parameters'.



② Fill in the actual values in the boxes next to each parameter, then click "Application" and the ballistic parameters will be synchronized to the device.

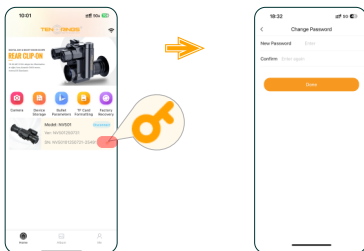


③ You can also click "Save" to store this set of values. Subsequently, you can quickly access your value records via clicking the .

● TenRings Shots Installation & User Guide

(6) How to change the WiFi password?

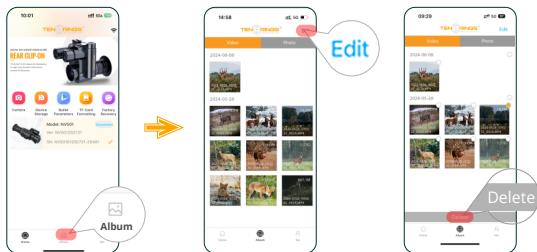
Click the "🔑" icon to enter the password change interface, enter the new password twice, and click "Done" to complete the password change.



(7) How to delete local files?

- ① Click "Album", then click "Edit" in the top right corner of the album, and select the file you want to delete;
- ② Click "Delete" that appears below, and files cannot be recovered after confirmation, please use this function with caution!

●TenRings Shots Installation & User Guide



(8) After connecting the APP, how to manually operate the scope?

① After connecting the APP, you can perform the following shortcut operations on the device.

Shortcut Operations Available after Connecting the APP

1) IR Button

Firstly, long press the  button (> 1s) to switch to Black & White mode, then short press (< 1s) the **IR** button to adjust the IR Illuminator (IR1-3/off), long press (> 1s) to turn off WiFi;

2) Button

Short press (< 1s) to realize Zoom (+) or (-), long press (> 1s) to switch to Black & White or Color mode;

② If you need to make other menu settings or shortcut operations, please long press the  button to exit WiFi mode.

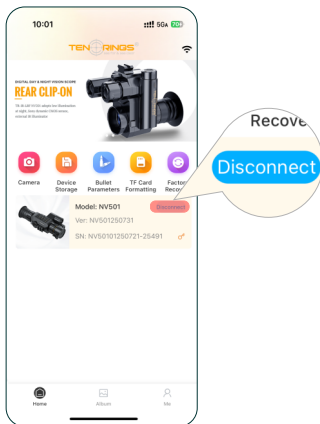
● TenRings Shots Installation & User Guide

3) Button

Long press(>1s) to wake up and release, then short press(<1s) to start ranging; long press(>1s) to exit

(9) How to disconnect?

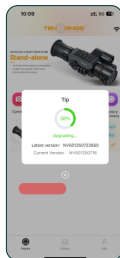
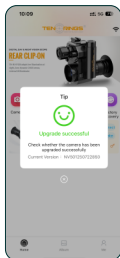
Click "Disconnect" on the APP homepage or long press the  button of the scope.



●Firmware Upgrade Guide

A. Upgrade Device via TenRings Shots APP

1. Connect the device with the app. If the firmware version of your device can be updated, "Updates" will appear on the homepage;
2. Click the "Update";
3. When the "Upgrade Successful" prompt appears, the upgrade is complete.



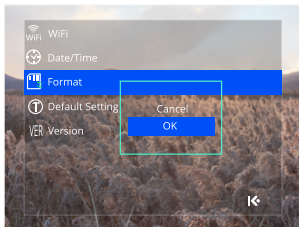
● Firmware Upgrade Guide

B. Upgrade Device via PC

1. Preparations before upgrading:

(1) Format the TF card with our night vision scope;

✓ **Note:** Before formatting, ensure you've backed up any important data on the TF card, as formatting will erase all content.



(2) Connect our night vision scope to the computer via Type-C cable, the pops up, then select it.



(3) Drag the new firmware into the TF card.

✓ **Note:** Please do not place firmware in a folder, just drag and drop the firmware file (.bin) to the TF card.

●Firmware Upgrade Guide

2. After preparations complete, please follow the steps below to upgrade the scope:

- (1) Make sure the updated firmware was saved in the TF card;
- (2) Please plug in the TF card to our night vision scope;
- (3) Long press the Power on/off button more than 2-3s;
- (4) Wait for about 25s, the firmware will be automatically upgraded. The screen will remain black until the upgrade is complete, and then the screen will automatically light up;
- (5) After the firmware upgrade completes, remember to format the TF card again with our night vision device to avoid of repeated upgrades.

●Regulatory and Compliance Information

Disposal Instructions

This product must not be disposed of with regular household waste. To prevent potential environmental and health hazards, please dispose of this device in accordance with local regulations for electronic waste. The symbol of the crossed-out wheeled bin indicates that the product should be collected separately for recycling. Please contact your local waste management authority or distributor for proper disposal and recycling options.

Transmission Power

This device operates using wireless transmission technology. Maximum transmission power: $[13 \pm 1.5\text{dBm}]$ The device complies with applicable radio frequency regulations and standards in the European Union. Please ensure the device is used in accordance with local frequency allocation and power limits to avoid interference.

EU Declaration of Conformity

This product complies with the essential requirements and other relevant provisions of the following EU directives:

- 2014/53/EU – Radio Equipment Directive
- 2011/65/EU – RoHS Directive
- 2012/19/EU – WEEE Directive

The product has been manufactured in accordance with applicable harmonized standards and bears the CE marking to indicate conformity with EU regulations. A copy of the declaration of conformity is available upon request and will be retained for 10 years after the product has been placed on the market.

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Note: Design and specifications are subject to change without prior notice.