



NIGHT VISION



► NV168

USER MANUAL

NIGHT VISION

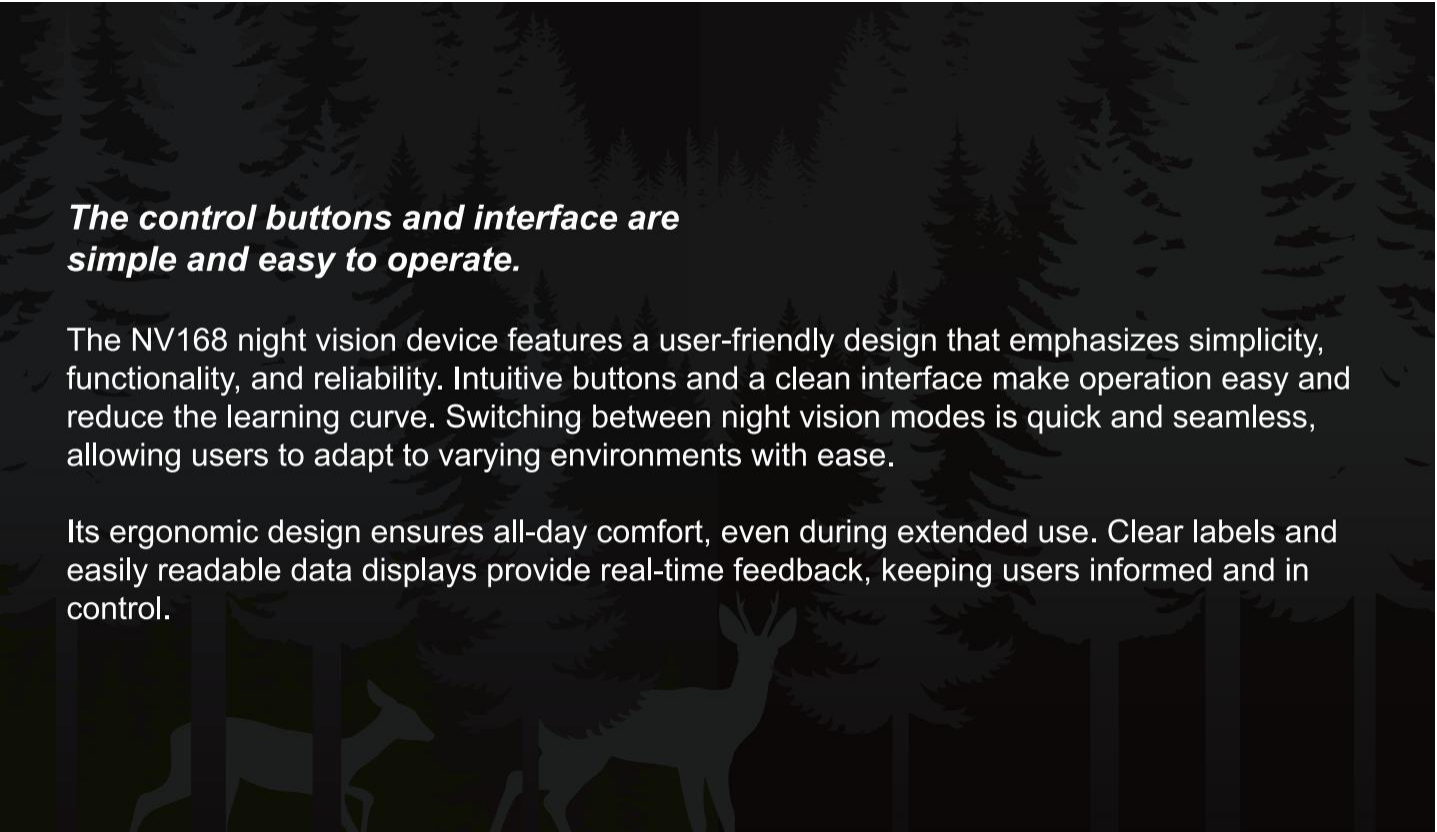




The NV168 night vision device features advanced infrared imaging technology and supports 4K audio and video recording. Whether in daylight, low light, or total darkness, it can capture stunningly clear photos up to 48MP. Equipped with 8× digital zoom, a starlight-grade CMOS sensor, and a built-in infrared illuminator, it delivers a crisp, detailed view up to 2,000 feet (approximately 656 yards) in complete darkness, helping you capture amazing moments in any environment and enjoy exceptional night vision performance.

The Perfect Fusion of Ultra-clear Night Vision and Outstanding Performance
—— A starlight-grade CMOS sensor ——

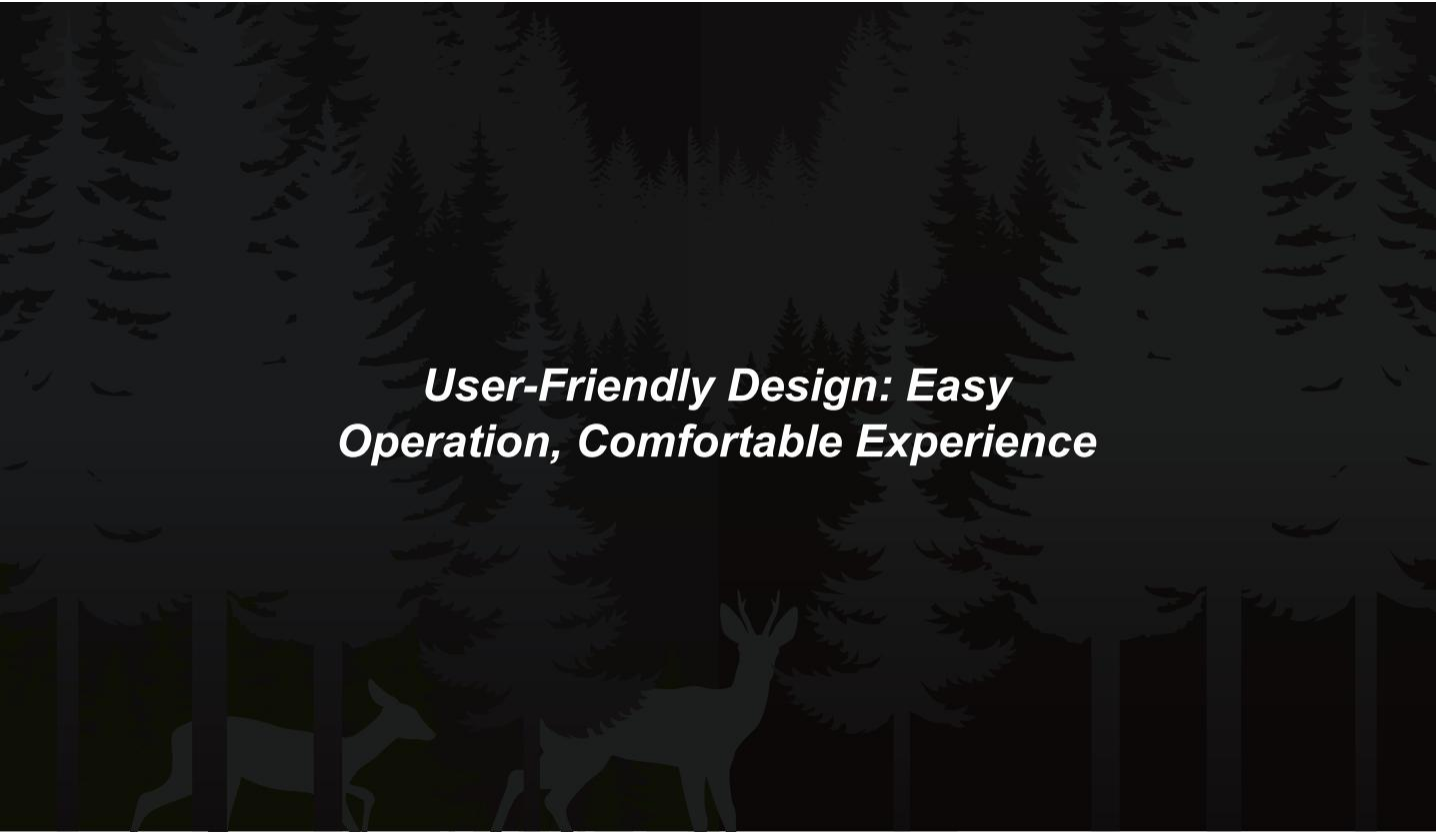




The control buttons and interface are simple and easy to operate.

The NV168 night vision device features a user-friendly design that emphasizes simplicity, functionality, and reliability. Intuitive buttons and a clean interface make operation easy and reduce the learning curve. Switching between night vision modes is quick and seamless, allowing users to adapt to varying environments with ease.

Its ergonomic design ensures all-day comfort, even during extended use. Clear labels and easily readable data displays provide real-time feedback, keeping users informed and in control.

The background of the slide is a dark, monochromatic illustration of a forest. It features numerous evergreen trees of varying heights and silhouettes of deer. One deer is prominently shown in the lower center, facing right, while others are scattered throughout the scene, some partially obscured by the trees. The overall tone is dark and atmospheric.

***User-Friendly Design: Easy
Operation, Comfortable Experience***

Modern Sci-Fi Design, Leading the Fashion Trend

Inspired by modern science fiction, our night vision devices feature a streamlined form with unique textures that highlight a futuristic aesthetic. The NV168 adopts an integrated, minimalist design that emphasizes both style and function. Its ABS plastic casing provides a comfortable, non-slip grip while enhancing the device's modern tech appeal. This design not only meets rigorous technical standards but also ensures you stay stylish during outdoor adventures.



Multiple Assurances of Environmental Responsibility, Endurance, and Versatility

The NV168 night vision device features a built-in 10,000mAh rechargeable lithium-ion battery, providing up to 21 hours of use without the need for disposable AA batteries—reducing waste and supporting sustainability. With IP65 waterproofing, it performs reliably in harsh weather and tough environments. It also supports tripod mounting, making it ideal for hunting, camping, and wildlife observation. Designed for eco-conscious outdoor use, the NV168 balances high performance with environmental responsibility.

10000 mAh
10000mAh lithium-ion
rechargeable battery

21h
21 hours of
usage time

IP65
IP65 waterproof
performance

ILLUMINATION



Night Vision

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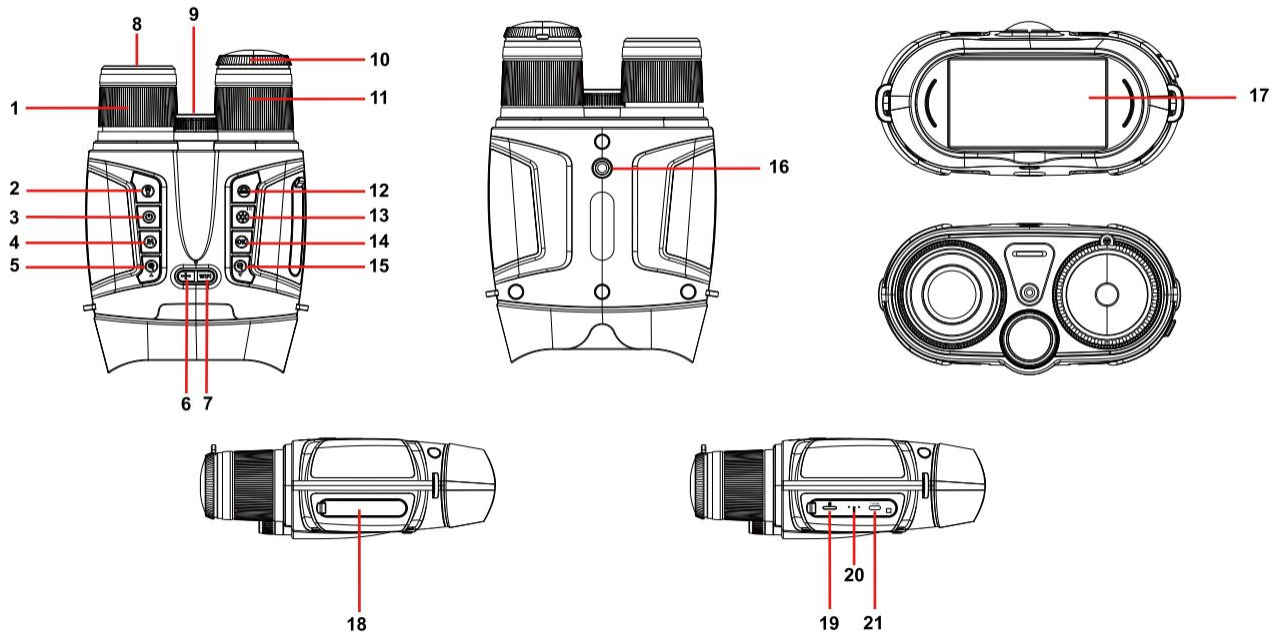
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PRODUCT OVERVIEW



The key operation functions are as follows:

- 1.Focus Ring

2.Flashlight Button

3.Power On/Off

4.Menu

5.IR Up/Zoom In/UP Button

6.Cross Ruler

7.WiFi
- 8.Lens

9.Tactical Light

10.IR-Cut Filter

11.Infrared Light

12.Backlight Switch

13.IR Mode

14.OK/Shot Button
- 15.IR Down/Zoom Out/Down Button

16.Fixed Bracket Hole

17.Display Screen

18.Charging Card Slot

19.Type-C Port

20.Reset Button

21.MicroSD card Slot
(Pre-installed with a 128GB memory card)

FLASHLIGHT FUNCTION

Note: This feature can still be used while the device is powered off.

Power-On Status	Continuous mode	Flashing
Light Mode	The flashlight stays on continuously at maximum power of 0.4W.	The flashlight flashes at 0.3W power with a frequency of 6Hz.
Purpose	Provides general illumination in low-light or dark environments.	Used as a warning signal or for tactical purposes.
Cautions	Turn it off when not in use to avoid excessive power drain.	Do not shine the light directly into your own or others' eyes to prevent discomfort.

BUTTON DESCRIPTION



Flashlight Button

- Press once to turn on the steady fill light.
- Press again to switch to strobe mode.
- Press a third time to turn it off.



Power On/Off

- Press and hold to turn the device on or off.
- Press to switch between Photo, Video, and Playback modes.
- Functions as the Back button.



Menu Button

- In Photo and Video modes, press to enter the settings menu.
- In Gallery mode, press to open the delete menu.



IR+/Zoom In/Up

- In Photo and Video modes, press to increase exposure; long press and hold to zoom in.
- In Playback mode, press to switch videos/photos.
- In Menu mode, press to move up.



Button Light key

- Press to turn the button light on or off.



IR

IR Mode

- Adjust the infrared light mode in Photo or Video mode according to nighttime needs. The infrared light has 3 grades of infrared night vision.



OK/Shot Button

- In Photo and Video modes, press to take a photo or start/stop recording.
- In Gallery mode, press to play or pause a video.



IR-/Zoom Out/Down

- In Photo and Video modes, press to decrease exposure; long press and hold to zoom out.
- In Gallery mode, press to switch videos/photos.
- In Menu mode, press to move down.



Cross Ruler Button

- Press to enable or disable the crosshair. It is enabled by default.



WiFi Button

- Press to turn WiFi on or off.

Reset Button

- Press with a pin to force shutdown if the device freezes.

Memory card Slot

- Memory card slot.

Charging Port

- Type-C port.
- Power the night vision device.
- Connects to PC for data transfer.

OPERATION INSTRUCTIONS

Photo Mode

1. Press and hold the "  " button to turn on; the device will enter Photo Mode by default. Press the "  " button to take a photo.
2. Press the "  " button to increase or decrease the exposure. Long press to zoom in or out.
3. Press the "  " button to open the settings menu. Press it again to exit.
4. Press the "  " button to turn on the key backlight. Press it again to turn it off.
5. Press the "  " button to cycle through strobe light modes (steady on, strobe, off).
6. Press the "  " button to switch the infrared light mode (ON, Level 1/2/3, OFF).
7. Press the "  " button to enable or disable the crosshair. It is enabled by default.
8. Press the WiFi button to enable WiFi mode. Press again to exit.
9. Press the "  " button to switch to Video Mode.

Note: While recording, if the screen saver turns on, press any button to wake the screen. You can adjust or turn off the screen saver in the settings. This device supports loop recording — when the memory card is full, new footage automatically overwrites the oldest, ensuring continuous recording.

Video Mode

1. When on, Press the "  " button again to enter Video Mode.
2. Press the "  " button to start recording. A red dot and timer appear in the top right corner to indicate recording is active. Press "  " again to stop and save.
3. Press the "  " / "  " button to adjust exposure. Press and hold to zoom in or out.
4. Press the "  " button to open the settings menu. Press again to exit.
5. Press the "  " button to turn on the key backlight. Press again to turn it off.
6. Press the "  " button to cycle through strobe light modes (steady on, strobe, off).
7. Press the "  " button to switch the infrared light mode (ON, Level 1/2/3, OFF).
8. Press the "  " button to enable or disable the crosshair. It is enabled by default.
9. Press the WiFi button to enable WiFi mode. Press again to exit.
10. Press the "  " button to switch to Video Mode.

Playback Mode

1. When on, Press the "  " button again to enter Playback Mode.
2. Press the "  " / "  " button to select the photo or video folder, then press OK to open it.
3. When playing a video, press "  " to play or pause. Press "  " / "  " to fast forward or rewind.
4. Press and hold for 1 second to enter the photo zoom adjustment screen. Press and hold "  " to increase the magnification, and press and hold "  " to decrease the zoom level. Single press "  " to move up, single press "  " to move down, single press "  " to move left, and single press "  " to move right.
5. Press the "  " button to open the delete menu.
6. Press the "  " button to switch to Photo Mode.

WiFi Mode

1. When off, press and hold the Power button to turn on. Press the WiFi button to enter WiFi Mode.
2. Scan the built-in QR code to download the app. Connect your phone to the WiFi ID "NV168-WFXXXXXXXXXXXX" (shown at the top left of the screen) and enter the password "12345678" to link with the app and control the device.

Menu Mode

1. When on. In Photo or Video Mode, press the "  " button to enter Menu Mode.
2. Press the "  " / "  " button to select menu options up and down.
3. Press "  " to confirm and save changes.
4. Press the "  " button to exit the menu (or press the "  " button again).

WARNING: Do not insert or remove the memory card while the device is operating to avoid file corruption or device malfunction.

SPECIFICATIONS PARAMETERS

Product Name	NV168 Night Vision
IR	3W, 850nm Powerful Infrared Spotlight
Display Brightness	7-Level Adjustable Brightness
Display Screen	3.0-inch TFT Ultra HD Display (Resolution: 360×640)
Battery Capacity	Built-in 10,000mAh Lithium Battery
Storage Expansion	Supports up to 128GB memory card
Waterproof Rating	IP65
Digital Zoom	8x Digital Zoom
WIFI	Built-in 2.4 GHz Wi-Fi
Battery Life	≈6H (IR ON, Max) / ≈21H (IR OFF)

FUNCTION OVERVIEW

After powering on, tap the "  " button to set the device's functions and parameters.

◆ Image Resolution

Select the pixel resolution for photos. Enter the settings menu, select Photo Resolution, press "  " to confirm, then press "  " or "  " to choose from 48MP, 40MP, 30MP, 25MP, 20MP, 10MP, 8MP, 5MP, or 3MP. Default is 48MP.

◆ Delayed Capture

Set the photo delay. The default is usually Off, meaning the photo is taken immediately. Options include Off, 2 s, 5 s, and 10 s.

◆ Photo Burst

Continuous rapid shooting of multiple photos can be set to Off or 3-shot burst.

◆ Anti-Shake

Default is OFF. Turning it ON electronically stabilizes the image to reduce shake and blur while taking photos.

◆ White Balance

Default is ON. Choose white balance when taking photos. Enter the setting interface, select white balance, short press "  " to confirm, short press "  " or "  " to choose from auto, daylight, cloudy, tungsten, and fluorescent modes.

◆ Exposure Compensation

Default is 0. Adjust exposure control. Choose from 3 / 2 / 1 / 0 / -1 / -2 / -3 exposure values. Press "  " button to confirm, then press "  " switch to go back to the main setting menu.

◆ Cross Ruler

Enabled by default. Can be turned on or off in the settings.

◆ Video Resolution

Default is 1080FHD. Adjust the resolution of recorded videos. Enter the setting interface, select video resolution, short press "  " or "  " to choose from 4K UHD, 2K UHD, 1080FHD, 720P, and other modes.

◆ Loop Recording

Optional loop durations — Off, 3, 5, or 10 minutes. Default is 3 minutes.

◆ Audio Recording

Default is enabled. When video recording is on, surrounding sounds are also recorded. If audio recording is turned off, the device will not capture surrounding sounds.

◆ Video Speed

Default is Normal. Choose from Normal, Slow motion, or Time-lapse.

◆ **Date Tag**

Default is enabled. Automatically overlays the current date and time on photos and videos for easy tracking and record keeping.

◆ **Screen Brightness**

Default is level 7. Adjustable levels: 1, 2, 3, 4, 5, 6, and 7.

◆ **Screen Saver**

Default is 2 minutes. Set the automatic screen off time. Options: 1 minute, 2 minutes, 3 minutes, or Off.

◆ **Auto Shutdown**

Set the automatic shutdown time. The default is 10 minutes. You can choose from 3 minutes, 5 minutes, 10 minutes, or disable it. Once idle for the set time, the device will shut down automatically to save power.

◆ **Language Setting**

Supports 12 language options, including French, Simplified Chinese, German, Italian, Spanish, Traditional Chinese, Portuguese, English, Russian, Japanese, Thai, and Korean.

◆ System Volume

Set the speaker volume. The default is level 7. Adjustable levels: 1, 2, 3, 4, 5, 6, and 7.

◆ Format Memory Card

Format the memory card and delete all videos, photos, and audio files. Display the remaining memory on the memory card.

◆ Date/Time

Enter the settings menu, then press "  "or "  "to adjust the Date/Time settings.

"  ": Increase year/month/day/hour/minute/second. "  ": Decrease year/month/day/hour/minute/second.

Press "  " to confirm the year — the system will automatically move to the month setting.

◆ Restore Default Settings

Restore the device to factory default settings.

◆ System Information

Firmware version information.

WIFI FEATURE

Function Overview

The night vision device features a built-in 2.4GHz WiFi module and the dedicated TERUNSOUL app. Connect your smartphone via WiFi to preview images and videos in real time, download files, and adjust device settings with ease.

NOTE: You are currently in Wi-Fi mode. All buttons except the tactical light are disabled. Please exit Wi-Fi mode to restore full button functionality.

APP User Guide

Step 1: Download and Install

You can download the TERUNSOUL app through any of the following methods:

- Scan the app QR code on the night vision device's screen sticker.
- Press the WiFi button on the night vision device; the screen will display the TERUNSOUL app download QR code, which you can scan to download and install directly.
- Scan the app QR code on the back of the product packaging.
- Search for "TERUNSOUL" in the Apple App Store or Google Play Store.
- Scan the QR code on the right to download



APP AND WIFI FUNCTION

Step 1: Sign up for an account using your email.



Step 2: Add camera.



Step 3: Tap "Connect Wi-Fi"



Step 4: Select the Wi-Fi that starts with "NV168-WFXXXXXXX" and enter the password: 12345678

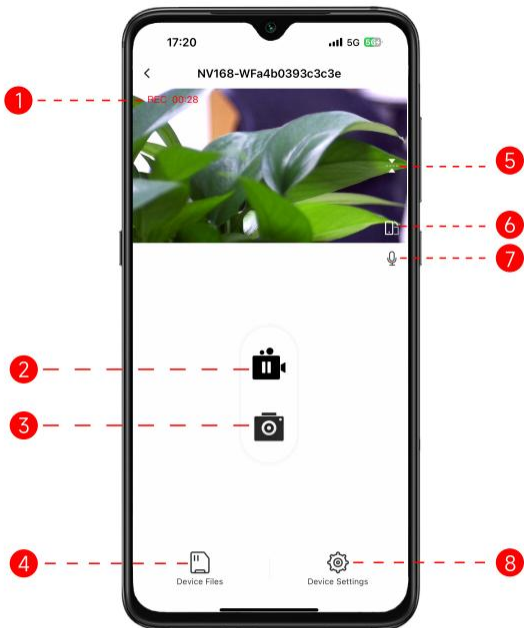


Step 5: Click on "Stay Connected".



Step 6: Enter the main interface of the APP





No.	Function Name	Function Description
1	Video Recording	Start or stop continuous video recording
2	Pause/Resume Recording	Temporarily pause or resume the ongoing recording
3	Snapshot	Take a still photo from the live video feed
4	Files	Opens the storage folder for viewing saved videos and snapshots
5	Vertical Mirror	Flips the image vertically (upside down).
6	Switch Orientation	Toggle between portrait and landscape display modes
7	Audio Recording	Enable or disable audio recording during video capture
8	Settings	Access the device settings to customize features

App Usage Notes

- ◆ When using the app for the first time, please allow access to Bluetooth, location, Wi-Fi, and storage to ensure proper functionality.
- ◆ The night vision device connects to your phone via a Wi-Fi hotspot. During connection, mobile data may be temporarily unavailable—this is normal.
- ◆ Keep the device and app connected during firmware updates. Do not exit the app or power off the device to avoid update failure.
- ◆ Putting the app in the background or letting the phone sleep may cause disconnection. Keep the app active while in use.
- ◆ Regularly check for app updates to enjoy the latest features and improved performance.
- ◆ Some physical buttons (e.g., menu, photo) may be disabled while connected to the app. Use the app for control, or disconnect to use device buttons.
- ◆ Real-time previews are transmitted via Wi-Fi and may experience some delay or stuttering. Use in areas with strong signals and minimal interference.
- ◆ When connecting to the device's Wi-Fi, iPhones may show a “No Internet Connection” alert. This is normal—please select “Keep Using Wi-Fi.”

NIGHT VISION & APP OTA UPGRADE INSTRUCTIONS

1. Night Vision OTA Upgrade

① Automatic Upgrade

If the night vision device has previously connected to the app, the app will automatically check for firmware updates when reopened and the phone is connected to an internet-enabled network. If a new version is available, a prompt will appear. Tap [Upgrade Now] and follow the instructions to reconnect the device. The app will automatically complete the upgrade.

② Manual Upgrade

Open the app and go to "More" > "About" > "Firmware Update." The app will check the current firmware version. If an update is available, tap "Update Now" and follow the instructions to connect your device. The update will proceed automatically.

2. APP OTA Upgrade

① Open the app and go to [More].

② Tap [About] → [Version Update].

③ If a new version is available, tap [Start Upgrade].

④ Do not close the app or disconnect during the upgrade process.

UPGRADE WARNING:

1. During the upgrade process, make sure the device is connected to a power source to ensure sufficient power supply and prevent upgrade failure due to power loss. Also, maintain a stable connection between the device and your phone or computer until the upgrade is successfully completed.
2. Do not turn off the device during the upgrade. Powering off may cause malfunction or render the device permanently unusable.

DEVICE CONNECTION GUIDE

How to Connect the Device to a Computer via Card Reader or USB Cable:

—Using a Card Reader

- 1.Remove the memory card from the device.
- 2.Insert the memory card into the card reader.
- 3.Connect the card reader to your computer using a USB port.

—Using a USB-C Cable

- 1.Power off the device and make sure the memory card is inserted.
- 2.Connect the device to your computer using a USB-C cable, then power the device back on.
- 3.When two options appear on the screen, select the first option to enter Storage Mode.
- 4.Open My Computer or File Explorer, locate the removable disk for the memory card, and open it.
- 5.Copy the files from the memory card to your computer or another drive for viewing or backup.

NOTES:

1. When the device is connected to a computer via a USB cable, a menu will appear on the screen with two mode options :

- ◆ Storage Mode: Use the device as a USB drive to access and manage videos, photos, and music files on your computer.
- ◆ PC Camera Mode: When this mode is enabled, your computer or laptop will recognize the night vision device as a webcam and display its live footage through the camera software.

2. How to Select a Mode:

- ◆ Use the directional buttons on the device to navigate between options.
- ◆ Press the "OK" button to select the desired mode.

ATTENTIONS

- ◆ When turning on the flashlight, do not shine it directly into your own or anyone else's eyes.
- ◆ Turn off the flashlight when not in use to prevent excessive battery drain and potential battery damage.
- ◆ Do not apply excessive force to the product. Do not clean the product with chemicals. Use a soft cloth to clean the surface.
- ◆ Keep the product away from direct sunlight and extreme temperatures. Avoid placing it in overly hot or cold environments.
- ◆ Avoid strong vibrations or impacts. Place the product securely to prevent accidental drops, and always keep it out of reach of children.
- ◆ Do not disassemble the device without authorization.
- ◆ Product details are subject to change without prior notice. In case of any discrepancies, the actual product shall prevail.
- ◆ Do not use this product in areas where electronic devices are prohibited (such as on airplanes).
- ◆ This product contains a rechargeable polymer lithium battery. To maintain battery health, charge it at least once every 3 months if not used for an extended period.
- ◆ The battery must be replaced by authorized service personnel only. Do not attempt to replace the battery yourself.
- ◆ Use the included adapter to charge the product. It is normal for the device to become slightly warm during charging.

**This night vision device is equipped with a dedicated mobile application
— TERUNSOUL —
developed to provide optimized remote control, live viewing, and feature
configuration via a 2.4GHz Wi-Fi connection.**



FCC Warning

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 device can be used in portable exposure condition without restriction.

4K



NIGHT VISION

Made in China



FCC ID: 2BPRI-NV168