## GOYOJO GNG2K

# GOYOJO GNG2K Night Vision Monocular User Manual

Model: GNG2K

## INTRODUCTION

The GOYOJO GNG2K Night Vision Monocular is a high-performance digital night vision device designed for various low-light and no-light applications. It features 2K resolution, a 60Hz refresh rate, 940nm stealth infrared illumination, and multiple color modes. This manual provides essential information for the safe and effective use of your device.

Image: The GOYOJO GNG2K Night Vision Monocular, showcasing its compact design and key features like 2K video, 45-degree field of view, 940nm stealth IR, 4 color modes, 60Hz refresh rate, and IP66 rating.

## WHAT'S IN THE BOX

Verify that all items are present in the package:

- GNG2K NVG (x2 for this variant)
- Binoculars mounting bracket
- Mounting screws
- Charger (USB wall plug and micro USB charging cable)
- User manual
- 18650 Lithium Polymer Batteries (x2, included)
- Lens cloth

# PARTS DESCRIPTION

Familiarize yourself with the components of the GNG2K Night Vision Monocular:



Image: Detailed diagram illustrating the various parts of the GOYOJO GNG2K Night Vision Monocular, including objective lens, focus wheel, IR illuminator, mounting interface, control buttons, eyepiece, battery compartment, USB port, SD card slot, and indicator light.

1. **Objective Lens:** Collects light from the scene.
2. **Objective Focus Adjustment Wheel:** Used to adjust the focus for distant objects.
3. **Infrared Illuminator:** Emits invisible infrared light for viewing in total darkness.
4. **Mounting Interface (Adapter Bracket Port):** For attaching to helmet mounts or other accessories.
5. **Zoom Key (Up Button):** Increases digital zoom level.
6. **IR Key (Down Button):** Activates and adjusts infrared illuminator intensity.
7. **Power On/Off (Confirm Button):** Powers the device on or off, and confirms menu selections.
8. **Eyepiece Diopter Adjustment Ring:** Adjusts focus for individual eye vision.
9. **Eyecup:** Provides comfort and blocks ambient light.
10. **Battery Compartment Cover:** Secures the battery.
11. **USB Port:** For charging and data transfer.
12. **SD Card Slot:** For inserting a microSD card for recording photos and videos.
13. **Indicator Light:** Shows device status (e.g., power, recording).

# SETUP

## 1. Battery Installation

The GNG2K requires two 18650 Lithium Polymer batteries. Ensure they are fully charged before first use.

1. Locate the Battery Compartment Cover (Part 10 in the diagram).
2. Unscrew or open the cover.
3. Insert the two 18650 batteries according to the polarity indicators inside the compartment.
4. Securely close the Battery Compartment Cover.

## 2. Helmet Mounting

The GNG2K can be mounted to compatible tactical helmets for hands-free operation.

Image: The GOYOJO GNG2K Night Vision Monocular shown both handheld and mounted on a tactical helmet, illustrating its versatility.

1. Attach the provided binoculars mounting bracket to the GNG2K's Mounting Interface (Part 4).
2. Use the mounting screws to secure the bracket.
3. Connect the assembled monocular and bracket to a compatible helmet mount. Ensure it is securely fastened and adjusted for comfortable viewing.

### 3. Focus Adjustment

Adjust the focus for clear viewing:

- **Objective Focus:** Rotate the Objective Focus Adjustment Wheel (Part 2) to sharpen the image of distant objects.
- **Eyepiece Diopter:** Adjust the Eyepiece Diopter Adjustment Ring (Part 8) to compensate for individual eyesight differences, ensuring the display is clear for your eye.

## OPERATING INSTRUCTIONS

## 1. Power On/Off

- To power on, press and hold the Power On/Off (Confirm Button) (Part 7) until the display activates.
- To power off, press and hold the Power On/Off (Confirm Button) again until the display shuts down.

## 2. Infrared (IR) Illuminator

The 940nm IR illuminator allows viewing in complete darkness without being easily detected.



Image: Comparison of day vision and night vision using the GOYOJO GNG2K, highlighting the effectiveness of the 940nm advanced infrared illuminator for 2K video in total darkness.

- Press the IR Key (Down Button) (Part 6) to activate the infrared illuminator.
- Press the IR Key repeatedly to cycle through the 3 intensity levels (Low, Medium, High) or to turn it off.

## 3. Color Modes

The GNG2K offers four distinct color modes for various environments and preferences.

Image: Displaying the four color modes of the GOYOJO GNG2K: White Phosphor, Night Green, Color (with reddish-purple tint), and Black & White, each with compass readings.

- Access the menu (refer to the full user manual for detailed menu navigation).
- Navigate to the "Color Mode" setting.
- Select from: Night Green, Black & White, White Phosphor, or Color (with a reddish-purple tint).

## 4. Digital Zoom

Magnify your view with the digital zoom function.

Image: A user observing with the GOYOJO GNG2K Night Vision Monocular, demonstrating the 1x, 2x, and 4x digital zoom capabilities and its IP66 waterproof rating.

- Press the Zoom Key (Up Button) (Part 5) to increase the digital zoom level (1x to 4x).
- Pressing it repeatedly will cycle through the available zoom levels.

## 5. Video Recording

The GNG2K supports 2K video recording and comes with a 16GB SD card.

## Parts Description

1. Objective Lens
2. Objective Focus Adjustment Wheel
3. .Infrared Illuminator
4. Mounting Interface
   (Adapter Bracket Port)
5. Zoom Key (Up Button)
6. IR Key (Down Button)
7. Power On/Off Key (Confirm Button)
8. Eyepiece Diopter Adjustment Ring
9. Eyecup
10. Battery Compartment Cover
11. USB Port
12. SD Card Slot
13. Indicator Light

Image: The GOYOJO GNG2K Night Vision Monocular with an overlay showing a wolf, indicating its 2K video recording capability and inclusion of a 16GB SD card.

- Insert a microSD card into the SD Card Slot (Part 12).
- Access the recording function via the device's menu.
- Press the designated button (usually the Power/Confirm button or a dedicated record button) to start/stop recording.

## 6. Compass Navigation

A built-in electronic compass assists with orientation.

- The compass reading is displayed on the screen.
- Ensure the device is held level for accurate readings.

## 7. Video Demonstration

Your browser does not support the video tag.

Video: A demonstration of the GOYOJO GNG2K Night Vision Monocular's capabilities in various low-light conditions.

## MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your GNG2K Night Vision Monocular.

- **Cleaning Lenses:** Use the provided lens cloth or a soft, lint-free cloth to gently wipe the objective and eyepiece lenses. Avoid abrasive materials or excessive force.
- **Body Cleaning:** Wipe the device body with a soft, damp cloth. Do not use harsh chemicals or solvents.
- **Storage:** Store the monocular in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.
- **Water Resistance:** The device is IP66 rated, meaning it is protected against powerful water jets. While it can withstand rain and splashes, avoid submerging it in water.

Image: A comparison table highlighting the superior features of the GOYOJO GNG2K (2K clarity, 60Hz refresh rate, 45-degree FOV, 940nm stealth IR, 4 color palettes, IP66 all-weather use) against other night vision devices.

## TROUBLESHOOTING

If you encounter issues with your GNG2K, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
| Device does not power on. | Low or depleted batteries; incorrectly inserted batteries. | Charge batteries fully. Ensure batteries are inserted with correct polarity. |
| Image is blurry or out of focus. | Incorrect objective or diopter adjustment. | Adjust the Objective Focus Adjustment Wheel and Eyepiece Diopter Adjustment Ring. |
| Poor visibility in total darkness. | IR illuminator is off or set to low intensity. | Activate the IR illuminator and increase its intensity using the IR Key. |

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
| Cannot record videos/photos. | No SD card inserted; SD card full or corrupted. | Insert a compatible microSD card. Format or replace the SD card if full/corrupted. |

## SPECIFICATIONS

- **Model:** GNG2K
- **Resolution:** 2688x1520 (2K)
- **Refresh Rate:** 60Hz
- **Infrared Wavelength:** 940nm (Stealth IR)
- **Field of View:** 45°
- **Digital Zoom:** 1x-4x
- **Color Modes:** Night Green, Black & White, White Phosphor, Color
- **Waterproof Rating:** IP66
- **Power Source:** 2x 18650 Lithium Polymer batteries (included)
- **Product Dimensions:** 4.61 x 2.24 x 2.68 inches
- **Item Weight:** 5.06 pounds
- **Objective Lens Diameter:** 20 Millimeters
- **Focus Type:** Manual Focus

## SAFETY INFORMATION

Please read and adhere to the following safety guidelines:

- Do not look directly into strong light sources (e.g., sun, lasers) through the device, as this can damage the sensor and your eyes.
- Avoid disassembling the device, as this may void the warranty and cause damage.
- Keep the device away from extreme temperatures, humidity, and corrosive substances.
- Use only specified batteries and charging accessories.
- Dispose of batteries according to local regulations.

## WARRANTY AND SUPPORT

For warranty information or technical support, please contact GOYOJO customer service. Refer to the packaging or the official GOYOJO website for contact details.