

Bestguarder WG-50 Plus

Bestguarder WG-50 Plus Infrared HD Night Vision Monocular User Manual

Model: WG-50 Plus | Brand: Bestguarder

PRODUCT OVERVIEW

The Bestguarder WG-50 Plus is an infrared HD night vision monocular designed for long-duration surveillance and observation in low-light or complete darkness. It features a 5x optical magnification via a 50mm objective lens and includes an integrated IR illuminator for enhanced viewing distances.

- **Magnification:** Offers 5x optical magnification with a 50mm objective lens, suitable for long-range observation up to 1150 ft (350m) in full darkness.
- **Wi-Fi Connectivity:** Enables wireless sharing of photos and videos to iOS and Android devices, eliminating the need for traditional data cables.
- **Recording Capabilities:** Captures HD photos (up to 2592x1944 pixels) and records videos with sound (up to 1280x720 pixels).
- **Ergonomic Design:** Provides enhanced comfort and ease of operation. It is tripod mountable with two tripod jacks.
- **Power Source:** Operates on 4 AA batteries (not included).



Figure 1: Bestguarder WG-50 Plus Night Vision Monocular with included accessories.

SETUP

1. **Battery Installation:** Locate the battery compartment, typically at the rear of the device. Insert 4 AA batteries, ensuring correct polarity.
2. **Memory Card Insertion:** Open the side access panel to insert a micro SD card (up to 64GB, not included) for storing photos and videos.
3. **Power On:** Press and hold the power button (usually marked with a power symbol) to turn on the monocular.
4. **Focus Adjustment:** Adjust the focus ring on the objective lens (front) and the eyepiece (rear) until the image appears clear.
5. **Wi-Fi Connection (Optional):**
 - Activate the Wi-Fi function on the monocular via its menu.
 - On your smartphone or tablet, search for available Wi-Fi networks and connect to the network generated by the monocular.
 - Open the Bestguarder app (available for iOS and Android) to view live feed, transfer files, and control settings.

Connected to Mobile Phone, Easy Use

Support most smartphone, with 2 tripod jack, free your hands, comfortable.



Share fun with friends



Figure 2: Wi-Fi connectivity for mobile device integration.

OPERATING INSTRUCTIONS

Basic Operation

- **Power On/Off:** Press the power button to turn the device on. Press and hold to turn off.
- **Zoom Control:** Use the zoom buttons (+/-) to adjust the digital zoom level. The monocular has a fixed 6x optical zoom.
- **IR Illuminator:** Press the IR button to cycle through different infrared illumination levels (up to 9 levels) to enhance visibility in dark conditions. The illuminator emits a visible red light.
- **Mode Selection:** Use the mode button to switch between photo, video, and playback modes.

Photo and Video Recording

- **Taking Photos:** In photo mode, press the REC button to capture a still image.

- **Recording Videos:** In video mode, press the REC button once to start recording and again to stop. Videos are recorded with sound.
- **Playback:** In playback mode, use the navigation buttons to browse recorded photos and videos.



Figure 3: Digital night vision camera functions including photo, video, time lapse, and audio recording.

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Video 1: Overview of the Bestguarder WG-50 Plus Night Vision Monocular, demonstrating its features, controls, and night vision capabilities with examples of deer observation at various distances.

MAINTENANCE

- **Cleaning Lenses:** Use a soft, lint-free cloth specifically designed for optical lenses to clean the objective and eyepiece lenses. Avoid abrasive materials or harsh chemicals.
- **Battery Care:** Remove batteries if the device will not be used for an extended period to prevent leakage.
- **Storage:** Store the monocular in a cool, dry place, away from direct sunlight and extreme temperatures. Use the

provided carrying case for protection.

- **Water Resistance:** The device has an IPX4 waterproof rating, meaning it is resistant to splashing water from any direction. It is not designed for submersion.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; incorrect battery installation.	Replace with fresh AA batteries, ensuring correct polarity.
Image is blurry or out of focus.	Improper focus adjustment; dirty lenses.	Adjust objective and eyepiece focus rings. Clean lenses with an optical cleaning cloth.
Poor night vision performance.	IR illuminator off or set too low; excessive ambient light.	Increase IR illuminator level. Ensure observation is in sufficiently dark conditions.
Cannot connect to Wi-Fi.	Wi-Fi function not activated; incorrect app settings.	Ensure Wi-Fi is enabled on the monocular. Reconnect Wi-Fi on your phone and restart the app.
Screen appears sideways when held vertically.	This is a design characteristic of the device.	This is normal operation. The device is designed for optimal viewing in a horizontal orientation or when mounted.

SPECIFICATIONS

- **Model Name:** WG-50 Plus
- **Magnification:** 6x (Optical), 5x (Digital Zoom)
- **Objective Lens Diameter:** 50 mm
- **Infrared Illuminator:** 850NM 3W Infrared LED
- **Viewing Distance (Full Darkness):** Up to 1150 ft (350m)
- **Photo Resolution:** 2592x1944, 1600x1200, 640x480 pixels (JPEG)
- **Video Resolution:** 1280x720, 640x480 pixels (30FPS with sound)
- **Display:** 1.5" TFT LCD
- **Storage:** Supports Micro SD card (up to 64GB)
- **Power Source:** 4 x AA batteries (not included)
- **Waterproof Rating:** IPX4
- **Mounting Type:** Tripod Mount (1/4" thread)
- **Item Weight:** 1.54 Pounds
- **Material:** Aluminum
- **Dimensions (LxWxH):** 7.87 x 3.94 x 2.76 inches

50MM Expensive Large Glass Lens

The glass material lens has better light transmittance and clearer



Multi-Coated Lens



6X Optical Zoom



850NM IR (IR1 to 4 Level)



5X Digital Zoom



Figure 4: Illustration of the 50mm objective lens and optical/digital zoom capabilities.




WARRANTY AND SUPPORT

While specific warranty details are not provided, Bestguarder offers professional 24-hour after-sales services to ensure a satisfactory customer experience.

For any questions, technical assistance, or valuable advice regarding your Bestguarder WG-50 Plus, please contact the Bestguarder service team.

Refer to the official Bestguarder website or your purchase documentation for the most current support contact information.

Related Documents - WG-50 Plus

<div><div>5mp 6x50 Digital Night Vision Monocular</div><div></div><div><p>INSTRUCTION MANUAL</p><p>For the 5mp 6x50 Digital Night Vision Monocular, please read this instruction manual carefully before using the device. This manual contains important information about the device's operation, safety, and maintenance. Please read this manual carefully and keep it for future reference.</p><p>Version: 1.0</p></div></div>	<p>Bestguarder WG-50 5mp 6x50 Digital Night Vision Monocular User Manual</p> <p>Comprehensive user manual for the Bestguarder WG-50 5mp 6x50 Digital Night Vision Monocular, covering setup, operation, features, technical specifications, and troubleshooting.</p>
<div><div>Bestguarder®</div><div>Digital Night Vision wide dynamic range with 4" Display</div><div>4.5-22.5x40mm</div><div>Model NV-900</div><div></div><div><p>INSTRUCTION MANUAL</p><p>Please read this instruction manual carefully before using the device. This manual contains important information about the device's operation, safety, and maintenance. Please read this manual carefully and keep it for future reference.</p><p>Version: 1.0</p></div></div>	<p>Bestguarder NV-900 Digital Night Vision Binoculars Instruction Manual</p> <p>Comprehensive guide for the Bestguarder NV-900 Digital Night Vision Binoculars. Learn about features, operation, menu settings, precautions, and troubleshooting for enhanced night observation.</p>
<div><div>Bestguarder®</div><div>Digital Night Vision</div><div>Model: NV-880/VC-2000</div><div></div><div><p>INSTRUCTION MANUAL</p></div></div>	<p>Bestguarder NV-880/VC-2000 Digital Night Vision User Manual and Specifications</p> <p>This document provides a comprehensive user manual and technical specifications for the Bestguarder NV-880/VC-2000 Digital Night Vision device. It covers device controls, usage instructions, function modes, menu settings, connectivity options (USB and WiFi), firmware upgrades, technical specifications, FCC compliance, disposal guidelines, parts list, warranty information, and frequently asked questions.</p>
<div><div>How to pair the device with a detector?</div><div><p>Please click the link to see the video:</p><p>https://www.youtube.com/watch?v=...</p></div><div><p>Operating Steps</p><ol style="list-style-type: none">1. Turn on the device.2. Press and hold "Power" button on the back of the device for 5 seconds.3. Press and hold "Menu" button on the back of the device for 5 seconds.4. Press "Power" button on the device.5. Turn on the device. Select a power supply and select a detection mode.6. Turn on the device. Press and hold "Power" button for 5 seconds. After pressing the button, the device will show "Power" button and "Power" button on the screen.7. Turn on the device. Press and hold "Power" button for 5 seconds. After pressing the button, the device will show "Power" button and "Power" button on the screen.8. Press and hold "Power" button on the device.9. Press and hold "Power" button on the device.10. Press and hold "Power" button on the device.11. Press and hold "Power" button on the device.12. Press and hold "Power" button on the device.13. Press and hold "Power" button on the device.14. Press and hold "Power" button on the device.15. Press and hold "Power" button on the device.16. Press and hold "Power" button on the device.17. Press and hold "Power" button on the device.18. Press and hold "Power" button on the device.19. Press and hold "Power" button on the device.20. Press and hold "Power" button on the device.</div></div>	<p>How to Pair a Receiver with a Detector - Bestguarder</p> <p>Step-by-step guide on how to pair a Bestguarder receiver with a detector, including operating procedures and important notices for successful connection. Learn about the SY-007PLUS model.</p>