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GUOWENHA NV400B

User Manual for Night Vision Binoculars

GUOWENHA NV400B DIGITAL NIGHT VISION BINOCULARS

1. Product Overview

The GUOWENHA NV400B Night Vision Binoculars are designed for enhanced viewing in low-light conditions and complete darkness. Featuring infrared illumination, digital zoom, and a high-sensitivity CMOS sensor, these binoculars are suitable for various outdoor activities such as hunting, camping, wildlife observation, and surveillance. The device allows for both still image capture and video recording, with a clear 4-inch LCD display for real-time viewing and playback.



Figure 1: Front view of the NV400B Night Vision Binoculars, displaying a plant through its digital screen in monochrome night vision.

2. Package Contents

Please check the package for the following items:

- NV400B Night Vision Binoculars x1
- User's Manual x1
- Cleaning Cloth x1
- Pouch x1
- USB Cable x1
- TV Cable x1
- Neck Strap x1



Figure 2: The NV400B Night Vision Binoculars shown alongside its protective carrying case and original packaging.

3. Product Components

Familiarize yourself with the various parts and controls of your NV400B binoculars:



Figure 3: Top view of the NV400B, highlighting key components such as the objective focus, IR illuminator, and control buttons (Zoom, Snap, Mode, IR, On/Off).

Infrared Filter Cap: Protects the objective lens and can be removed for optimal IR performance.

Objective Focus: Adjusts the focus for clear viewing.

IR Illuminator: Emits infrared light for night vision.

Zoom Button: Controls the digital zoom level.

Snap Button: Captures still images or starts/stops video recording.

Mode Button: Switches between different operating modes (e.g., preview, playback).

IR Button: Adjusts the infrared illumination level.

On/Off Button: Powers the device on or off.

Ocular: The eyepiece for viewing.



Figure 4: Bottom view of the NV400B, showing the two battery compartments and the central tripod adapter for mounting.

Battery Cases: Compartments for inserting AA batteries.

Tripod Adapter: Standard thread for mounting the binoculars on a tripod.

4. Setup

4.1 Battery Installation

The NV400B requires 8 AA batteries for operation. Ensure correct polarity when inserting the batteries.

1. Locate the battery cases on the bottom of the binoculars (refer to Figure 4).
2. Open the battery compartment covers.
3. Insert 8 AA batteries, paying close attention to the positive (+) and negative (-) indicators inside the compartments.
4. Close the battery compartment covers securely.

4.2 SD Card Installation (Optional)

To store captured images and videos, an SD card (up to 32GB) is required. The SD card slot is typically located near the battery compartments or on the side of the device.

1. Locate the SD card slot.
2. Insert the SD card with the metal contacts facing down until it clicks into place.
3. To remove, gently push the card in until it springs out.

4.3 Initial Power On

Press and hold the **On/Off Button** (refer to Figure 3) for a few seconds until the display screen illuminates.

5. Operating Instructions

5.1 Power On/Off

- **To Power On:** Press and hold the **On/Off Button**.
- **To Power Off:** Press and hold the **On/Off Button** again until the screen turns off.

5.2 Mode Selection

Press the **Mode Button** to cycle through different operational modes:

- **Preview Mode:** Live view for observation.
- **Record Mode:** For capturing videos.
- **Capture Mode:** For taking still images.
- **Playback Mode:** To review stored images and videos.

5.3 Digital Zoom

Use the **Zoom Button** to adjust the digital magnification. The NV400B supports up to 2x digital zoom.

5.4 IR Illumination Control

The infrared (IR) illuminator enhances visibility in low light or complete darkness. Press the **IR Button** to cycle through 5 levels of IR intensity. Higher levels provide better visibility but consume more battery power.

5.5 Focusing

Rotate the **Objective Focus** ring (refer to Figure 3) until the image on the display screen is clear and sharp.

5.6 Capturing Images and Videos

1. Ensure an SD card is inserted.
2. Select either **Capture Mode** (for photos) or **Record Mode** (for videos) using the **Mode Button**.
3. Press the **Snap Button** to take a photo or to start/stop video recording.

5.7 Playback

1. Switch to **Playback Mode** using the **Mode Button**.
2. Use the navigation buttons (often shared with Zoom/IR buttons in playback mode, refer to on-screen prompts) to browse through your captured files.
3. Press the **Snap Button** to view an image or play a video.

5.8 Menu Navigation

The device features an OSD (On-Screen Display) menu for settings adjustments. Typically, pressing the **Mode Button** or a dedicated Menu button (if present, not explicitly labeled in diagram) will access the menu. Use the Zoom and IR buttons to navigate and the Snap button to confirm selections.

- **Power Save:** Adjust auto-off time (Off/1 min / 3min / 50 min).
- **System Reset:** Reset settings to factory defaults.
- **Light Freq:** Set to 50/60HZ based on region.
- **Date Input:** Set date and time.

- **Language:** Select preferred language (English, Chinese, Japanese, French, German, Korean, Italian, Portuguese, Russian, Spanish, Arabic).

6. Specifications

The following table outlines the technical specifications for the GUOWENHA NV400B Night Vision Binoculars:

	400B	400C
Model		
Video Resolution	400X500	1280X960
Image Resolution	640X480	1280X960
LCD	320X240	640X480
IR Illuminator	850nm, 3W	850nm, 5W
Optical Magnification	3.5X	7.2X
Digital Zoom	1X-2X	1X-2X
Objective Lens	31mm	31mm
FOV (Field of View)	9°	7°
Max. Viewing Distance	200m	200m
Close Focusing Distance	3m/9.84ft	5m/16.4ft
Sounds Recording	No	Yes
Speaker	No	Yes, 2W/8R
Power Supply	8pcs AA Batteries 8-12V	2pcs 18650 Rechargeable Li Batteries 7-8.4V

Figure 5: Detailed specifications comparison between NV400B and NV400C models. This manual focuses on the NV400B.

Feature	Specification (NV400B)
Magnification	3.5X (Optical), MAX 7x (Combined)
Digital Zoom	2 steps, Max 2x
Angle Of View	9°
Objective Aperture	31mm
Exit Pupil Distance	30mm
F# for Objective lens	1.2
Viewing Range (Daytime)	3m ~ ∞
Viewing Range (Darkness)	Up to 400M (monochrome)

Feature	Specification (NV400B)
Eyepiece Magnification	2x
TFT LCD Resolution	320x240
Image Resolution	640x480
Video Resolution	400x500
IR LED	3W Infrared LED with 850nm
Storage	Supports up to 32GB SD-Card
External Power Supply	5V/1A
Power Source	8 pcs AA battery (4.5V-6V)
Battery Life	6 hours (IR off)
Dimensions	210mm x 145mm x 65mm
Net Weight	750g (without battery)

7. Maintenance

7.1 Cleaning

- Use the provided cleaning cloth to gently wipe the lenses and display screen.
- For stubborn smudges, use a lens cleaning solution specifically designed for optical surfaces.
- Wipe the body of the binoculars with a soft, damp cloth. Do not use abrasive cleaners or solvents.

7.2 Storage

- When not in use for extended periods, remove all batteries to prevent leakage and damage.
- Store the binoculars in the provided pouch or a dry, cool place, away from direct sunlight and extreme temperatures.

7.3 Battery Care

- Always use fresh, high-quality AA batteries.
- Replace all 8 batteries at the same time. Do not mix old and new batteries or different battery types.
- Dispose of used batteries responsibly according to local regulations.

8. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; Incorrect battery polarity; Loose battery connection.	Replace batteries; Check battery orientation; Ensure battery compartment covers are secure.
Image is blurry or out of focus.	Objective focus not adjusted; Dirty lens.	Rotate the Objective Focus ring until clear; Clean the objective lens with the provided cloth.
Poor visibility in darkness.	IR illuminator off or set to low level; Distance too far for IR range.	Increase IR illumination level using the IR button; Ensure IR filter cap is removed; Note maximum effective range is 400M.
Cannot capture images/videos.	No SD card inserted; SD card full; SD card corrupted.	Insert an SD card; Delete old files or use a new SD card; Format the SD card (this will erase all data).

Problem	Possible Cause	Solution
Screen is blank or flickering.	Low battery; Device malfunction.	Replace batteries; Try resetting the device via the menu; If problem persists, contact customer support.

9. Applications

The GUOWENHA NV400B Night Vision Binoculars are versatile and can be used for a variety of purposes, including:

- Hunting and game scouting
- Security and surveillance
- Camping and exploring caves
- Nighttime navigation
- Night fishing and boating
- Wildlife observation
- Search and rescue operations

10. Warranty and Support

For warranty information and customer support, please refer to the documentation provided with your purchase or contact the seller directly. Keep your proof of purchase for any warranty claims.

If you encounter issues not covered in this manual, please reach out to the manufacturer or authorized service center for assistance.