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## GUOWENHA R18

# GUOWENHA R18 Digital Night Vision Binoculars User Manual

Model: R18

## 1. Introduction

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Thank you for choosing the GUOWENHA R18 Digital Night Vision Binoculars. This device is designed for observation in both low light and complete darkness, offering high-definition imaging and video recording capabilities. Please read this manual carefully to ensure proper use and maintenance of your device.

## 2. Product Overview

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Familiarize yourself with the components and controls of your R18 Digital Night Vision Binoculars.

## ➤ Product Overview



1. Power Button	2. Shot Button USB port/Micro SD card slot Cover
3. Mode Button 、 Menu Button	4. IR Down/Zoom out/Down Button
5. IR Up/Zoom in/Up Button	6. TFT screen
7. Strap Hole	8. TF card / USB
9. IR LED	10. focus wheel
11. Battery Cove	12. Tripod
13. Mic	14. Objective reference

Figure 1: GUOWENHA R18 Digital Night Vision Binoculars with labeled components.

No.	Component
1	Power Button
2	Shot Button / USB Port / Micro SD Card Slot Cover

No.	Component
3	Mode Button / Menu Button
4	IR Down / Zoom Out / Down Button
5	IR Up / Zoom In / Up Button
6	TFT Screen
7	Strap Hole
8	TF Card / USB Port (under cover)
9	IR LED
10	Focus Wheel
11	Battery Cover
12	Tripod Mount
13	Microphone (Mic)
14	Objective Reference

## 3. Setup

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### 3.1 CHARGING THE DEVICE

The R18 Night Vision Binoculars feature a built-in 3800mAh Lithium Battery. Before first use, fully charge the device.

1. Locate the USB Port (2/8) on the device.
2. Open the protective cover.
3. Connect the included USB cable to the device and a compatible USB power source (e.g., computer, wall adapter).
4. The charging indicator will show the charging status.

### 3.2 INSERTING A TF CARD

A TF (Micro SD) card is required to store still images and videos. The device supports up to 128GB.

1. Locate the Micro SD Card Slot (2/8) under the protective cover.
2. Gently insert the TF card into the slot with the gold contacts facing down until it clicks into place.
3. To remove, press the card gently until it springs out.

### 3.3 ATTACHING THE STRAP AND TRIPOD

- **Strap:** Thread the included shoulder strap through the Strap Hole (7) on the device for secure carrying.
- **Tripod:** The device includes a Tripod Mount (12) at the bottom, allowing it to be mounted on a standard tripod for stable observation.

# 4. Operating Instructions

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## 4.1 POWER ON/OFF

- **Power On:** Press and hold the Power Button (1) for a few seconds until the screen illuminates.
- **Power Off:** Press and hold the Power Button (1) again for a few seconds until the screen turns off.

## 4.2 MODE SELECTION

Press the Mode Button (3) to cycle through available modes: Still Image, Video Recording, and Playback.

## 4.3 FOCUSING

Rotate the Focus Wheel (10) to adjust the clarity of the image on the TFT Screen (6).

## 4.4 DIGITAL ZOOM

The device features 5X digital zoom.

- Press the IR Up / Zoom In / Up Button (5) to zoom in.
- Press the IR Down / Zoom Out / Down Button (4) to zoom out.

## 4.5 INFRARED (IR) ADJUSTMENT

The R18 features a 3W, 850nm infrared spotlight with 7-speed adjustment for enhanced night vision.

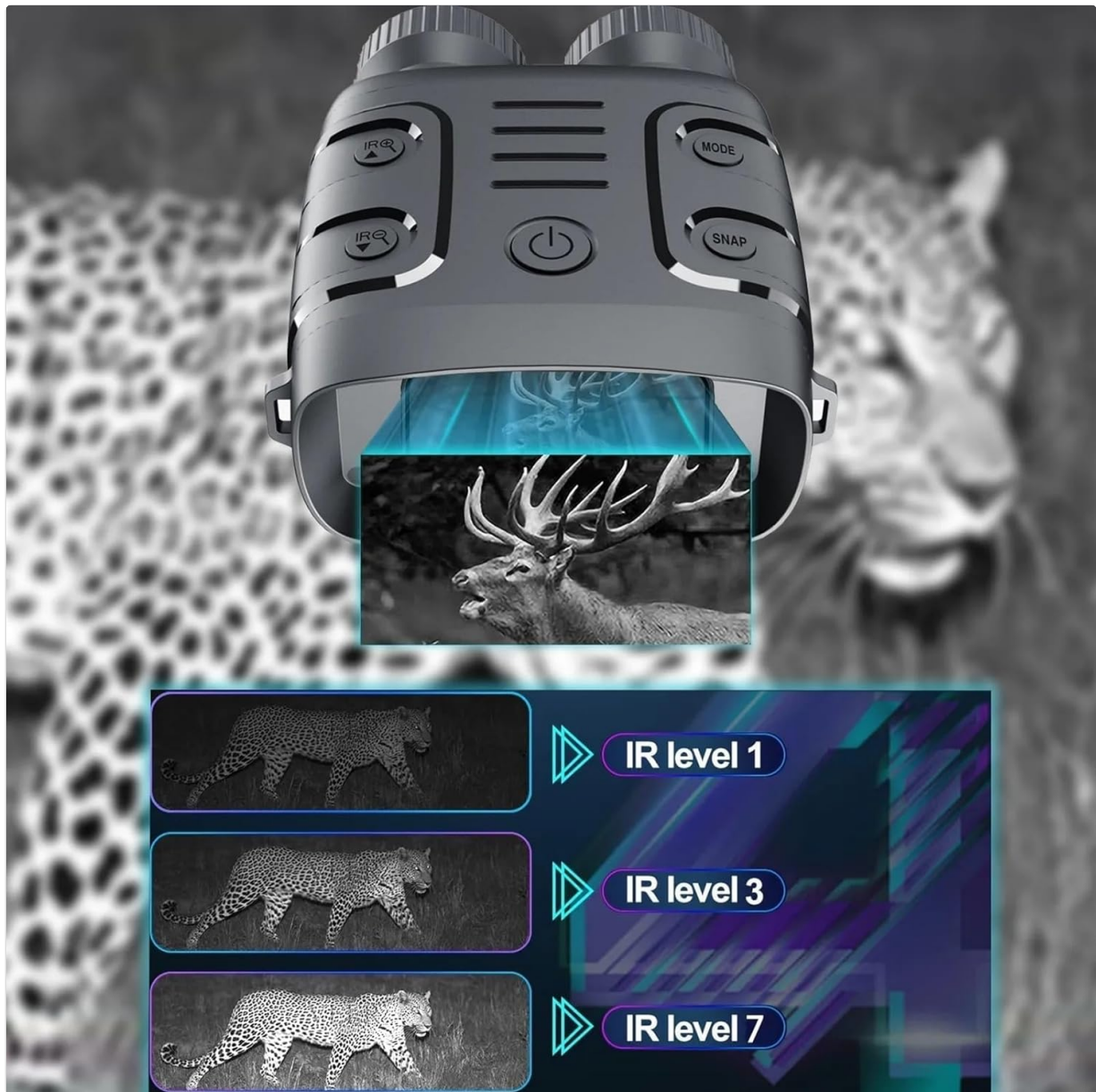


Figure 2: Infrared (IR) levels demonstrate varying illumination for night observation.

- Press the IR Up / Zoom In / Up Button (5) to increase the IR intensity.
- Press the IR Down / Zoom Out / Down Button (4) to decrease the IR intensity.
- Adjust the IR level based on ambient light conditions for optimal viewing in darkness.

#### 4.6 CAPTURING IMAGES AND VIDEOS

- **Still Image:** In Still Image mode, press the Shot Button (2) to capture a photo.
- **Video Recording:** In Video Recording mode, press the Shot Button (2) to start recording. Press it again to stop recording.

#### 4.7 DAY AND NIGHT USE

The device is designed for both day and night observation. In daylight, the IR illuminator should be off. For night use, activate and adjust the IR illuminator as needed.

# DAY & NIGHT USE CLEAR



Built in **3800mAh** Rechargeable Battery & support mobile power supply

Figure 3: The device supports both day and night observation, with IR usage impacting battery life.

## 4.8 VIEWING ON LCD SCREEN

The integrated 2.4-inch TFT LCD screen (6) provides a direct display of the observed scene and captured media.



Figure 4: Direct viewing through the 2.4-inch LCD screen.

## 4.9 DATA TRANSFER

Connect the device to a computer using the Mini USB 2.0 cable to transfer captured images and videos from the TF card.

## 5. Maintenance

### 5.1 CLEANING

- **Lenses:** Use a soft, lint-free cloth specifically designed for optical lenses. Do not use abrasive materials or harsh chemicals.
- **Body:** Wipe the device body with a soft, damp cloth. Avoid getting moisture into ports or openings.

### 5.2 STORAGE

- Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- If storing for extended periods, ensure the battery is partially charged (around 50%) to prolong its lifespan.

## 5.3 BATTERY CARE

- Avoid fully discharging the battery frequently.
- Charge the battery regularly, even if not in use, to maintain its health.

## 6. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted battery.	Charge the device fully using the provided USB cable.
Image is blurry.	Focus not adjusted.	Rotate the Focus Wheel (10) until the image is clear.
Poor visibility in darkness.	IR illuminator off or set too low.	Increase the IR intensity using the IR Up Button (5).
Cannot capture images/videos.	No TF card inserted or card is full/corrupted.	Insert a TF card or replace the current one. Format the card if necessary (refer to menu options).
Device freezes or malfunctions.	Software glitch.	Press and hold the Power Button (1) to force a shutdown, then restart the device.

## 7. Specifications

- **Still Image Size:** 10M(4032\*2520) / 8M(3800\*2160) / 5M(3200\*1800) / 3M(2560\*1440) / VGA(640x480)
- **Video Size:** 960P(1280x960@30FPS) / VGA(640x480@30FPS)
- **Aperture:** F 1.2 f=25mm
- **Lens:** FOV=10°, diameter 24mm
- **Screen Size:** 2.4" TFT LCD
- **Digital Zoom:** 5X
- **Power Supply:** Built-in 3800mAh Lithium Battery
- **Operating Temperature:** -20°C to +60°C
- **Storage Temperature:** -30°C to +70°C
- **Product Size:** Approximately 120mm \* 150mm \* 60mm
- **Product Weight:** Approximately 290g
- **Storage Medium:** TF card, maximum support 128GB
- **Low Light Observation Distance:** 3 meters to infinity
- **All Black Observation Distance:** 200m ~ 300m
- **Infrared Light:** 3W, 850nm, strong infrared spotlight, 7-speed infrared adjustment
- **USB Interface:** Mini USB 2.0

## 8. Package Contents

The following items are included in your package:

- 1 \* GUOWENHA R18 Digital Night Vision Device
- 1 \* USB Cable
- 1 \* User Manual (this document)
- 1 \* S Tripod
- 1 \* Shoulder Straps

## 9. Warranty and Support

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For warranty information, technical support, or any inquiries regarding your GUOWENHA R18 Digital Night Vision Binoculars, please contact the seller or manufacturer directly through your purchase platform. Please retain your proof of purchase for warranty claims.