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› HENBAKER Digital Night Vision Device CY789 User Manual

## HENBAKER CY789

# HENBAKER Digital Night Vision Device

Model: CY789

## 1. INTRODUCTION

The HENBAKER CY789 is an advanced digital night vision monocular designed for various outdoor activities such as hunting, camping, surveillance, and bird watching. It features powerful infrared illumination, high-resolution imaging, and versatile connectivity options, allowing for clear observation both day and night.

This manual provides detailed instructions on how to set up, operate, and maintain your HENBAKER CY789 device to ensure optimal performance and longevity.



Figure 1: The HENBAKER CY789 Digital Night Vision Device, showcasing its main components and compact design.

## 2. PRODUCT FEATURES

- **Dual Infrared Illuminators:** Equipped with two 5W infrared LED lights (850nm and 940nm) with 5-level adjustment, allowing for discreet observation in complete darkness up to 500 meters (1600 feet).
- **High-Resolution Display:** Features a 3.1-inch TFT LCD screen, which provides a viewing effect equivalent to a 6-inch display through the eyepiece lens, reducing eye strain.
- **Powerful Zoom:** Offers 4x digital zoom and 8x optical zoom with a 30mm objective lens aperture for detailed observation.
- **High-Definition Capture:** Supports photo resolution up to 3264x2448 and video resolution up to 1920x1080 at 30fps, capturing clear images and videos.
- **Versatile Connectivity:** Built-in WiFi for synchronization with mobile phones and USB connectivity for data transfer to computers.
- **Long Battery Life:** Operates for over 12 hours in daytime mode and 2-6 hours in night mode with a large capacity 21700 (compatible with 18650) lithium battery.
- **Adaptable Mounting:** Easily connects to 22mm Weaver and Picatinny classic fixed slides, and can be

mounted on various devices with appropriate settings.

- **Selectable Reticles:** Offers 7 types of cross marks for enhanced targeting, with options for red, green, black, and white colors.
- **Removable Eyecup:** Prevents light leakage during night use and can be removed for comfortable daytime viewing.

## Adjustable dual infrared lights for easier concealment

850nm ir illuminator

940nm ir illuminator



Figure 2: The device features adjustable dual infrared lights (850nm and 940nm) for optimal concealment and visibility in dark conditions.

# 3.1 inch supports wifi synchronization to take photos and videos



Figure 3: The 3.1-inch high-definition display supports WiFi synchronization for photo and video capture, shown here displaying a deer.

## 3. PACKAGE CONTENTS

Please check the package carefully to ensure all items are present and in good condition.

- HENBAKER CY789 Night Vision Device
- Protective Box
- 35mm-45mm Adapter
- Neck Strap
- USB Cable
- 21700 Battery (compatible with 18650 battery)
- Picatinny Rail
- User Manual
- Diopter Adjustment Tool

- Screw Set
- Track Clamp
- Cleaning Cloth



Figure 4: All items included in the HENBAKER CY789 product package, neatly laid out.

## 4. SETUP

### 4.1 Battery Installation

1. Locate the battery compartment on the device.
2. Insert the provided 21700 battery (or a compatible 18650 battery) according to the polarity indicators (+/-).
3. Close the battery compartment securely.

### 4.2 TF Card Installation

1. Locate the TF card slot, usually protected by a rubber cover.
2. Gently insert a TF card (up to 128GB, not included) into the slot until it clicks into place. Ensure the correct orientation.
3. Close the rubber cover to protect the slot from dust and moisture.

### 4.3 Mounting the Device (Optional)

The HENBAKER CY789 can be attached to a riflescope or other compatible devices using the provided adapter and rail system.

1. Attach the 35mm-45mm adapter to your riflescope's eyepiece.
2. Slide the night vision device onto the adapter, ensuring a secure fit.
3. Use the Picatinny rail and track clamp if mounting to a compatible rail system.



## ONE MACHINE FOR DUAL USE

Figure 5: The device can be used as a standalone monocular or attached to a riflescope for dual functionality.

## 5. OPERATING INSTRUCTIONS

### 5.1 Power On/Off

- To power on, press and hold the power button (usually marked with ) for a few seconds until the screen illuminates.
- To power off, press and hold the power button again until the screen turns off.

## 5.2 Mode Selection

The device typically supports different modes (e.g., Photo, Video, Playback). Use the mode button to cycle through available modes.

## 5.3 Zoom Adjustment

Use the zoom buttons (often marked with+ and -) to adjust the digital zoom level. The device also has optical zoom capabilities.

## 5.4 Infrared (IR) Illumination

In low-light or complete darkness, activate the IR illuminators. The device has two IR LEDs (850nm and 940nm) with 5 adjustable levels.

- Press the IR button to cycle through IR levels or turn IR on/off.
- The 940nm IR is less visible to the naked eye, offering more discreet operation.

## 5.5 Photo and Video Recording

- In Photo mode, press the shutter button to capture an image.
- In Video mode, press the record button to start/stop video recording.
- Ensure a TF card is inserted for saving media.

## 5.6 Reticle Selection

The device offers 7 types of reticles in red, green, black, and white colors for improved targeting.

- Navigate to the reticle settings in the menu.
- Select your preferred reticle type and color.

# Selectable reticle

 red  green  black  white



Magnification  
1-32X

Figure 6: Various selectable reticle patterns and color options (red, green, black, white) are available for different targeting needs.

## 5.7 WiFi Connectivity

- Enable WiFi in the device settings.
- Download the dedicated app on your smartphone.
- Connect your phone to the device's WiFi network to view live feed, control functions, and transfer media.

## 6. MAINTENANCE

- **Cleaning:** Use the provided cleaning cloth to gently wipe the lenses and screen. For stubborn smudges, use a lens cleaning solution designed for optics. Do not use abrasive materials.
- **Storage:** Store the device in its protective box in a cool, dry place away from direct sunlight and extreme temperatures. Remove the battery if storing for extended periods.
- **Battery Care:** Recharge the battery regularly, even if not in use, to maintain its lifespan. Avoid fully discharging the battery.

- **Water Resistance:** While designed for outdoor use, avoid submerging the device in water. Ensure all port covers are securely closed to prevent moisture ingress.

## 7. TROUBLESHOOTING

| Problem                      | Possible Cause  | Solution  |
|------------------------------|---|---|
| Device does not power on.    | Battery is low or not installed correctly.                              | Recharge or replace the battery. Ensure battery is inserted with correct polarity.      |
| Poor image quality.          | Lenses are dirty; IR illuminator is off or too low; focus is incorrect. | Clean lenses. Adjust IR level. Adjust focus ring.                                       |
| Cannot record photos/videos. | TF card is full, corrupted, or not inserted.                            | Insert a TF card. Format the TF card (this will erase data). Delete old files.          |
| WiFi connection issues.      | App not installed; device WiFi not enabled; interference.               | Ensure app is installed. Enable WiFi on device. Try connecting in a different location. |

## 8. SPECIFICATIONS

| Parameter               | Value                      |
|-------------------------|----------------------------|
| Brand Name              | HENBAKER                   |
| Model                   | CY789                      |
| Magnification           | 1~32x                      |
| Video Resolution        | 1920*1080                  |
| Photo Resolution        | 3264*2448                  |
| Frame Rate              | 30fps                      |
| Adapter Diameter        | 35-48mm                    |
| Infrared Wavelength (1) | 850nm                      |
| Infrared Wavelength (2) | 940nm                      |
| Infrared Range          | Up to 400m (1600 feet max) |
| Infrared Power          | 5W                         |
| Video Format            | MP4                        |
| Storage Type            | TF card (Max 128GB)        |
| Daytime Usage Time      | >12 hours                  |
| Night Usage Time        | 2~6 hours                  |
| Voltage                 | 3.7V                       |
| Dimensions              | 215 x 100 x 58mm           |

| Parameter           | Value  |
|---------------------|--|
| Weight              | 430g   |
| WiFi/App Support    | Yes  |
| Supported Languages | English, French, Russian, German, Portuguese, Italian, Japanese, Chinese, etc. |

## 9. WARRANTY AND SUPPORT

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For any questions or concerns regarding your HENBAKER night vision goggles, please feel free to contact customer service. US-based customer service is available daily via phone/email.

Please refer to your purchase documentation for specific warranty terms and conditions.

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