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Sytong HT-77

HT-77 Digital Night Vision Monocular Instruction Manual

Brand: Sytong | Model: HT-77

Introduction

The Sytong HT-77 is an advanced 1080P Digital Night Vision Monocular designed as an add-on rifle scope. It features a built-in 850/940nm IR illuminator, providing clear imaging for various night viewing applications such as hunting, farming, nature observation, outdoor exploration, security, and night patrol. This manual provides essential information for the proper setup, operation, and maintenance of your HT-77 device.



Figure 1: Sytong HT-77 Digital Night Vision Monocular

Key Features

- **High-Resolution Imaging:** Produces 1080P high-resolution images in full color during daytime, and green or black & white for night vision mode.
- **Advanced OLED Screen:** Military-grade 2nd Generation OLED Screen with an upgraded Sony Bigger Size Sensor for extraordinary night vision performance.
- **Digital Zoom:** Supports 1X-3.5X digital zoom, providing a sharp and clear image without losing details.
- **Built-in IR Illuminator:** Integrated 850nm IR illuminator with three intensity settings, focusable for optimal performance up to 200 meters (656 feet).
- **Durable Construction:** High-grade aviation aluminum alloy shell offers exceptional shock resistance, capable of handling recoil up to 6000 Joules.
- **IP67 Protection:** Rated IP67 for waterproof and dustproof performance.
- **Video Recording:** Records Full HD 1080P video.

- **Wi-Fi Connectivity:** Features 2.4GHz Wi-Fi (Standard: 802.11 b/g/n) for connectivity.



Figure 2: IP67 Waterproof and Dustproof Design



Figure 3: Day and Night Vision Capabilities



Figure 4: High Definition OLED Display

Setup

1. Battery Installation and Charging

- Before initial use, ensure you remove the sticker from the battery.
- Use only rechargeable batteries with a rated voltage of 3.7V.
- Charge the device using a charger with a voltage below 5V. Do not charge with voltage over 5V to prevent damage.

2. Adapter Installation

The HT-77 comes with a standard 45mm adapter. Ensure the adapter is securely attached to your rifle scope for proper alignment and stability.



Figure 5: Included Accessories

Operating Instructions

1. Power On/Off

- Press and hold the power button to turn the device ON or OFF.

2. Day/Night Mode

- The device automatically adjusts to full color in daytime conditions.
- In low light or darkness, it switches to green or black & white night vision mode.

3. Digital Zoom

- Utilize the digital zoom function (1X-3.5X) to magnify your view.
- The Picture-in-Picture (PIP) mode supports 2X-4X zoom without losing details.

4. IR Illuminator Control

- The built-in 850nm IR illuminator has three intensity settings. Adjust as needed for varying distances and light conditions.
- Focus the IR beam to optimize performance for close range or long distances up to 200 meters.

5. Focusing

- Adjust the objective lens focus from 2.5cm to infinity for a clear image.

6. Recording Video and Photos

- The device supports recording FHD 1080P video and taking photos.
- Ensure a Class 10 TF card (max support 128G) is inserted for storage.





Figure 6: Control Buttons Layout

7. Wi-Fi Connection

- The device supports 2.4GHz Wi-Fi connectivity.
- The default Wi-Fi password is **12345678**.

8. Operational Video

Watch this video for a demonstration of the Sytong HT-77 in action, showcasing its night vision capabilities.

Your browser does not support the video tag. Please update your browser to view this content.

Video 1: Sytong HT-77 Digital Night Vision Monocular in use, demonstrating its night vision clarity and functionality.

Maintenance

- Keep the lenses clean using a soft, lint-free cloth. Avoid abrasive materials.
- Store the device in a dry, cool place away from direct sunlight and extreme temperatures.
- Ensure the battery is charged periodically if the device is not used for extended periods.
- Do not attempt to disassemble the device, as this will void the warranty.

Troubleshooting

- **No Power:** Ensure the battery is properly installed and fully charged. Remove any protective stickers from the battery

terminals.

- **Poor Image Quality:** Check if the objective lens is clean and free from smudges. Adjust the focus ring for clarity. Ensure sufficient IR illumination in dark conditions.
- **Wi-Fi Connection Issues:** Verify the Wi-Fi password (default is 12345678). Ensure your connecting device is within range and on the 2.4GHz band.
- **Recording Problems:** Check if a Class 10 TF card is inserted and has sufficient free space. Reformat the card if necessary (this will erase all data).

Specifications

Feature	Specification
Model	HT-77
Objective Lens Focus	12mm/16mm
IR Illuminator Distance / Wavelength / Power	200m / 850nm / 5W
OLED Screen Video/Photo Resolution	1920x1080
Eyepiece Display Type / Resolution	AMOLED / 1280x960
Magnification	1X-3.5X digital zoom
Focusing Range	2.5cm-∞
Max. Recoil Power	6000 Joules
Degree of Protection	IP67
Operating Temperature	-40℃ to 85℃
Dimensions	137mm x 96.5mm x 62mm
Frame Rate	30fps
Memory Type	Class 10 TF card, max support 128G
WiFi Frequency	2.4GHz
WiFi Standard	802.11 b/g/n

Warranty and Support

Sytong is committed to providing excellent customer service. As a Sytong Factory Direct Store, we offer direct support for our products.

- If you have any questions or require assistance with your HT-77 device, please feel free to contact us.
- We aim to reply to all inquiries within 24 hours.
- Our service goal is 100% customer satisfaction.

For further information or to explore other Sytong products, please visit theSytong Store on Amazon.

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