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› Sytong HT-60 Night Vision Rifle Scope User Manual

Sytong Sytong HT-60

Sytong HT-60 Night Vision Rifle Scope User Manual

Model: Sytong HT-60

Brand: Sytong

INTRODUCTION

The Sytong HT-60 is a versatile digital night vision rifle scope designed for both daytime and nighttime use. It functions as a full-color digital scope during the day and seamlessly transitions into a powerful night vision scope with the press of a button. It can also be detached and used as a standalone night vision monocular.

This device features a military-grade quality OLED 1080P screen and is housed in a high-grade aviation aluminum alloy shell, ensuring durability and high performance. It is waterproof with an IPX7 rating and boasts exceptional shock resistance, capable of handling recoil up to 6000 joules.

The large internal 1024x768 screen provides a high-resolution, clear image of your surroundings. With a 6.5x base magnification, digitally boostable up to 13x, it allows for identification and engagement of targets at longer distances.

An integrated 940nm infrared (IR) illuminator offers three intensity settings and can be focused for optimal performance at various ranges, up to 200 meters (656 feet). This makes it an ideal tool for hunting, observation, and farming activities at night.



Figure 1: Top view of the Sytong HT-60 Night Vision Rifle Scope, showing the main body, controls, and objective lens.

PRODUCT COMPONENTS AND FEATURES

Familiarize yourself with the key components and features of your Sytong HT-60 device.



Figure 2: Detailed diagram illustrating the various parts of the Sytong HT-60, including the objective lens, focusing ring, power button, menu button, IR illuminator, battery compartment, eyepiece dioptre adjustment ring, Picatinny rail, data cap, HDMI interface, TF card slot, and USB charging port.

1. **Power/Sleep Button:** Controls device power and sleep mode.
2. **Menu/Laser Red Dot:** Accesses the menu system and activates the laser red dot.
3. **Eyepiece Dioptre Adjustment Ring:** Adjusts focus for individual eye sight.
4. **Objective Lens Focusing Adjustment Ring:** Adjusts the focus of the main objective lens.
5. **Stretchable Fill Light:** Integrated IR illuminator.
6. **Laser Adjustment Holes:** For fine-tuning the laser.
7. **Power Indicator:** Shows device power status.
8. **Battery Compartment Cap:** Secures the battery.
9. **Picatinny Rail:** For mounting accessories.
10. **Data Cap:** Protects data ports.
11. **HDMI High-Definition Interface:** For video output.
12. **TF Card Slot:** For memory card insertion.
13. **USB Charging Port:** For charging the device.

SETUP

1. Battery Installation

The Sytong HT-60 requires 1 Lithium Ion battery (included). To install the battery:

1. Unscrew the Battery Compartment Cap (refer to Figure 2).
2. Insert the Lithium Ion battery, ensuring correct polarity.
3. Securely screw the Battery Compartment Cap back into place.

2. Mounting the Scope

The HT-60 is designed to be mounted on a rifle using its integrated Picatinny rail. Ensure your rifle has a compatible mounting system.



Figure 3: The Sytong HT-60 shown with its mounting bracket, ready for attachment to a Picatinny rail.

1. Align the Picatinny rail of the HT-60 with the rail on your rifle.

2. Secure the scope using the appropriate mounting hardware (not specified if included, assume standard).
3. Ensure the scope is firmly attached and does not wobble.

3. Initial Focus Adjustment

Before operation, adjust the focus for clear viewing.

1. Adjust the Eyepiece Dioptre Adjustment Ring (3) until the internal display and reticle appear sharp to your eye.
2. Adjust the Objective Lens Focusing Adjustment Ring (4) to bring the target image into sharp focus.

OPERATING INSTRUCTIONS

1. Powering On/Off and Sleep Mode

- To power on, press and hold the Power/Sleep Button (1) until the display activates.
- To power off, press and hold the Power/Sleep Button (1) until the device shuts down.
- To enter sleep mode, short press the Power/Sleep Button (1) during operation. Short press again to wake.

2. Day and Night Vision Modes

The HT-60 automatically or manually switches between day (full color) and night vision modes.

Day Color & Night Vision AMOLED Display



Figure 4: Illustrates the difference between the full-color daytime display and the monochrome night vision display of the Sytong HT-60.

- In sufficient light, the device operates in full-color daytime mode.
- In low light conditions, press the IR button to activate night vision mode and the built-in IR illuminator.

3. Magnification Adjustment

The device offers a 6.5x base magnification, digitally boostable up to 13x.

Picture-in-Picture with more details



Figure 5: Demonstrates the Picture-in-Picture (PIP) function, showing a magnified view (13x) of the target within the main 6.5x field of view.

- Use the magnification control buttons (usually indicated by '+' and '-' or arrows) to adjust the digital zoom level.

4. IR Illuminator Operation

The built-in 940nm IR illuminator enhances visibility in complete darkness.

IP67 water and dustproof

wavelength **940nm**



Figure 6: Shows the Sytong HT-60's IP67 water and dustproof capability, along with a visual representation of the three IR illuminator intensity levels (Level 1, Level 2, Level 3) for varying light conditions.

- Press the 'IR' button to cycle through the three intensity settings (Low, Medium, High).
- Rotate the front part of the IR illuminator to focus the beam for optimal performance at different distances.

5. Reticle Selection and Zeroing

The HT-60 offers 7 types of reticles in three colors (Red, Yellow, Green).

7 Kinds of Reticles / Cross Hairs

With Three colors Red ,Yellow and Green

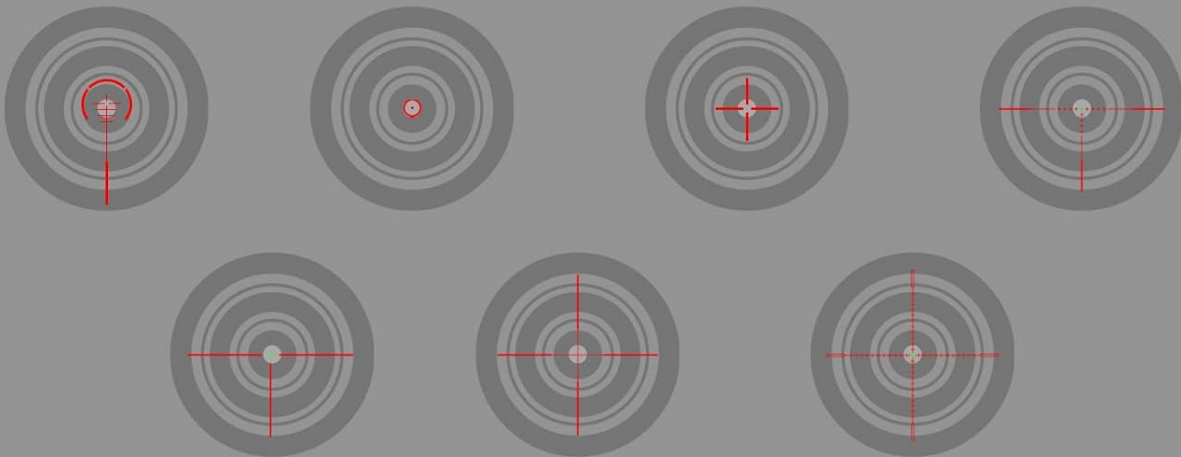


Figure 7: Displays the seven available reticle patterns and an example of the Sytong HT-60 mounted on a rifle, ready for use.

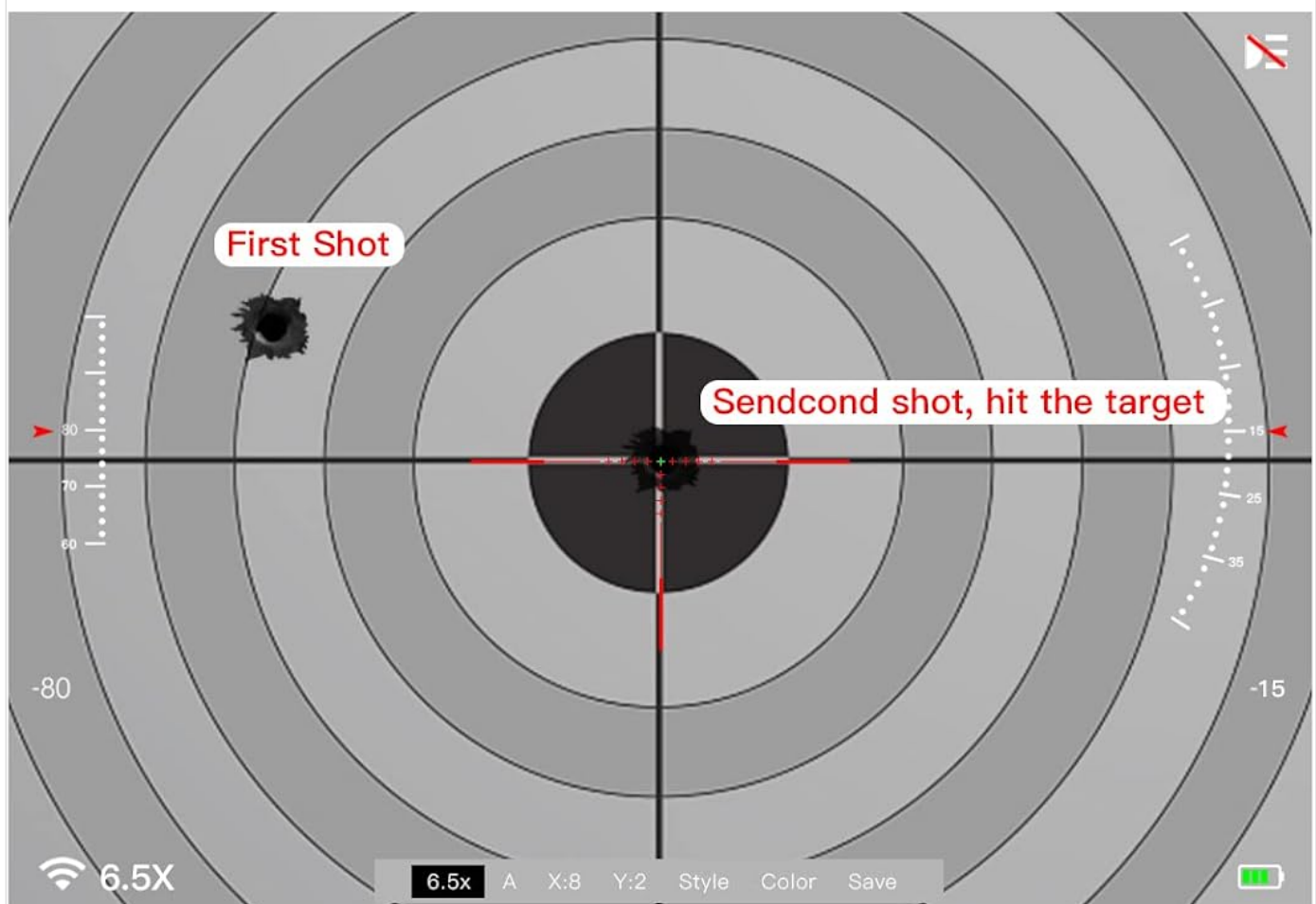
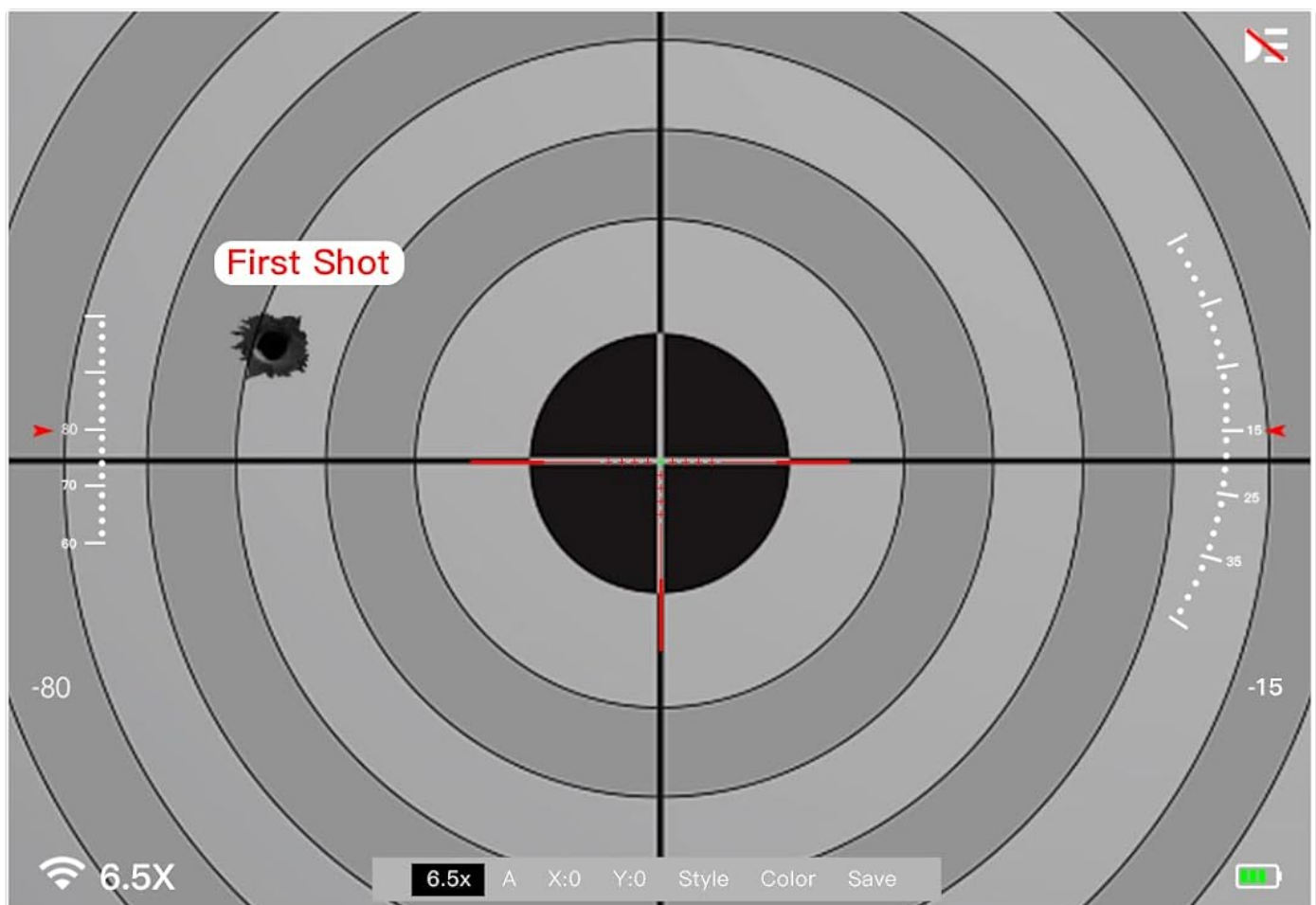


Figure 8: Illustrates the zeroing process, showing the first shot impact and the adjustment to align the reticle for the second shot to hit the target.

- Access the menu (Menu/Laser Red Dot button) to select your preferred reticle type and color.
- Follow the on-screen instructions for zeroing the scope to your rifle. This typically involves firing a shot, noting the impact point, and adjusting the reticle's X and Y coordinates to match the point of impact with the point of aim.

MAINTENANCE

1. Cleaning

- Use a soft, lint-free cloth to clean the exterior of the scope.
- For lenses, use a specialized lens cleaning cloth and solution. Avoid abrasive materials.
- Do not use harsh chemicals or solvents.

2. Storage

- Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- Remove the battery if the device will not be used for an extended period to prevent leakage.

3. Waterproofing

The Sytong HT-60 is IP67 waterproof, meaning it is protected from dust and can withstand immersion in water up to 1 meter for 30 minutes.

- Ensure all caps (e.g., data cap, battery compartment cap) are securely closed before exposing the device to water or dust.
- Do not intentionally submerge the device beyond its rated depth or duration.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or dead battery; incorrectly installed battery.	Charge or replace the battery. Ensure battery is installed with correct polarity.
Image is blurry.	Incorrect focus adjustment (eyepiece or objective lens).	Adjust the Eyepiece Dioptre Adjustment Ring and the Objective Lens Focusing Adjustment Ring until the image is clear.
Night vision performance is poor.	IR illuminator off or set to low intensity; IR focus incorrect.	Activate IR illuminator and cycle through intensity settings. Adjust IR beam focus.
Reticle is not aligned with point of impact.	Scope needs zeroing.	Perform the zeroing procedure as described in the Operating Instructions.
Wi-Fi function not connecting.	Incorrect Wi-Fi settings; interference; app issue.	Ensure Wi-Fi is enabled on the device and your smartphone. Restart both devices. Check for app updates.

SPECIFICATIONS

Model: Sytong HT-60

Magnification: 6.5x (optical), up to 13x (digital)

IR Illuminator Wavelength: 940nm

IR Illuminator Range: Up to 200m (656ft)

Display Type: OLED

Display Resolution: 1024x768 (internal screen)

Video Resolution: 1080P

Material: Aviation Aluminum Alloy

Waterproof Rating: IP67

Shock Resistance: Up to 6000 joules

Power Source: 1x Lithium Ion battery (included)

Product Dimensions: 14.8 x 7.1 x 5 cm

Item Weight: 420 g

Connectivity: WiFi Function, HDMI, TF Card Slot, USB Charging Port

Reticles: 7 types, 3 colors (Red, Yellow, Green)

WARRANTY AND SUPPORT

Sytong is committed to customer satisfaction. If you have any questions or require assistance with your Sytong HT-60 Night Vision Rifle Scope, please do not hesitate to contact us.

As a factory direct store, we aim to provide prompt support and will reply to your inquiries within 24 hours.

For support, please visit the official Sytong store on Amazon or contact their customer service directly via the contact information provided with your purchase or on the official Sytong website.

Note: Please retain your proof of purchase for any warranty claims or support requests.

