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> Sytong XS03 384x288 25mm Thermal Imaging Monocular Scope User Manual

Sytong XS03

Sytong XS03 Thermal Imaging Monocular User Manual

Model: XS03 | Brand: Sytong

1. INTRODUCTION AND OVERVIEW

The Sytong XS03 is a compact and portable handheld thermal imaging monocular designed for various observation and hunting applications. It features advanced thermal sensor technology to provide clear thermal imagery in diverse environmental conditions, both day and night. Its ergonomic design and intuitive controls make it suitable for extended use in the field.



Figure 1.1: The Sytong XS03 Thermal Imaging Monocular, showcasing its compact design and integrated hand strap.

2. SAFETY INFORMATION

- Do not point the device directly at strong heat sources (e.g., the sun, lasers) as this may damage the sensor.
- Keep the device away from extreme temperatures, humidity, and direct sunlight.
- Avoid dropping or subjecting the device to severe impacts.
- Do not attempt to disassemble or modify the device. Refer all servicing to authorized personnel.
- Use only the specified battery type and charger. Improper use can lead to fire or explosion.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Upon opening the package, verify that all items listed below are present and in good condition:

- Sytong XS03 Thermal Imaging Monocular
- Hand Strap (pre-attached or included)
- User Manual (this document)
- Charging Cable (if applicable, not specified but common)
- Protective Pouch/Case (if applicable, not specified but common)

If any items are missing or damaged, please contact Sytong customer support immediately.

4. PRODUCT FEATURES

The Sytong XS03 is equipped with several key features to enhance your thermal observation experience:

- **Compact and Portable Design:** Features a small, comfortable hand strap for easy carrying during hunting or outdoor activities.
- **High-Resolution Sensor:** Utilizes an excellent 384 × 288 sensor with a high-sensitivity detector for detailed thermal imagery.
- **OLED Display:** Equipped with a 1024 × 768 resolution OLED display for clear and crisp viewing.
- **Multiple Color Palettes:** Offers 5 distinct color palette options: Black Hot, White Hot, De-fogging, Red Hot, and Fusion.
- **Digital Zoom:** Provides continuous digital zoom capabilities (x1, x2, x4, x6, x8) for flexible magnification.
- **Media Recording:** Supports video recording and photo capture directly on the device.
- **Wi-Fi Connectivity:** Allows for wireless connection to compatible devices for streaming and data transfer.

5. SETUP

5.1 Battery Installation

The Sytong XS03 typically uses a rechargeable battery (type not specified, assume common 18650 or similar). To install the battery:

1. Locate the battery compartment cover, usually at the bottom or side of the device.
2. Open the cover by twisting or sliding it according to the indicator.
3. Insert the battery, ensuring the correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.

5.2 Initial Charging

Before first use, fully charge the battery. Connect the charging cable to the device's charging port and to a suitable USB power source. The charging indicator will show the charging status.

5.3 Powering On/Off

To power on the device, press and hold the **Power button** (usually marked with a circle and vertical line) for a few seconds until the display illuminates. To power off, press and hold the Power button again until the display shuts down.



Figure 5.1: Top view of the Sytong XS03, highlighting the power and control buttons.

6. OPERATING INSTRUCTIONS

6.1 Focusing

Rotate the objective lens focus ring (at the front of the device) to achieve a clear image of your target. Rotate the diopter adjustment ring (near the eyepiece) to sharpen the display for your individual eyesight.

6.2 Digital Zoom

The XS03 offers continuous digital zoom. Use the **Up/Down arrow buttons** (often marked with triangles) to adjust the magnification level. The available zoom levels are x1, x2, x4, x6, and x8.

6.3 Menu Navigation

Press the **Menu button** (often marked 'M' or similar) to enter the main menu. Use the Up/Down arrow buttons to navigate through menu options. Press the Menu button again or a dedicated 'OK' button (if present) to select an option or confirm a setting. Press and hold the Menu button to exit the menu.



Figure 6.1: Side view of the Sytong XS03, illustrating the lens and control button placement.

7. COLOR PALETTES

The Sytong XS03 provides five color palettes to optimize thermal image viewing for different scenarios and preferences. These can typically be cycled through via a dedicated button or within the menu:

- **Black Hot:** Hot objects appear black, cold objects appear white. Ideal for detecting objects against a cooler background.
- **White Hot:** Hot objects appear white, cold objects appear black. A common and versatile palette.
- **De-fogging:** Optimized for improved visibility in foggy or hazy conditions.
- **Red Hot:** Displays hotter areas in shades of red, providing a clear indication of heat intensity.
- **Fusion:** Uses a spectrum of colors to represent temperature differences, often from blue (cold) to red/yellow (hot).

8. RECORDING AND WI-FI

8.1 Photo Capture

To capture a still image, briefly press the **Photo/Record button** (often integrated with the Menu button or a separate dedicated button). The image will be saved to the device's internal memory or an inserted memory card (if applicable).

8.2 Video Recording

To start video recording, press and hold the Photo/Record button for a few seconds. A recording indicator will appear on the display. To stop recording, press the button again. Videos will be saved to the device's memory.

8.3 Wi-Fi Connectivity

The Sytong XS03 supports Wi-Fi connectivity for remote viewing, control, and file transfer via a dedicated mobile application. Refer to the device's menu for Wi-Fi settings. Typically, you will:

1. Enable Wi-Fi in the device's settings menu.
2. Download and install the official Sytong app on your smartphone or tablet.
3. Connect your mobile device to the XS03's Wi-Fi network (SSID and password usually displayed on the monocular's screen).
4. Open the app to view the live feed, control settings, and access recorded media.

9. MAINTENANCE

9.1 Cleaning the Device

- Use a soft, lint-free cloth to clean the device body. Do not use abrasive cleaners or solvents.
- For the lens, use a specialized lens cleaning cloth and solution. Gently wipe in a circular motion from the center outwards.
- Ensure the device is powered off before cleaning.

9.2 Battery Care

- Charge the battery regularly, even if the device is not in use, to maintain battery health.
- Store the device and battery in a cool, dry place when not in use for extended periods.
- Remove the battery if the device will not be used for a long time to prevent leakage.

9.3 Storage

Store the Sytong XS03 in its protective pouch or case to prevent scratches and damage. Avoid storing it in areas with extreme temperatures or high humidity.

10. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Battery is depleted or incorrectly installed.	Charge the battery. Ensure battery is inserted with correct polarity.
Image is blurry or out of focus.	Focus rings not adjusted correctly.	Adjust the objective lens focus ring and the diopter adjustment ring.
Wi-Fi connection fails.	Incorrect Wi-Fi settings or app issues.	Ensure Wi-Fi is enabled on the device. Re-enter Wi-Fi password. Restart both devices. Update the mobile app.
Short battery life.	Battery old or not fully charged.	Fully charge the battery. Consider replacing old batteries. Reduce screen brightness if possible.

11. SPECIFICATIONS

Feature	Detail
Model	Sytong XS03
Objective Lens	f25mm, F/1.0
Optical Magnification	1.5x / 2.0x / 2.8x
Continuous Digital Zoom	x1 / x2 / x4 / x6 / x8
Frame Rate	50 Hz
Pixel Size	12µm
NETD	<30mK
Sensor Resolution	384 × 288
Display Resolution	1024 × 768 OLED
Dimensions (L×W×H)	156 × 54 × 75 mm
Weight (without battery/mount)	308g
Color	Black
Material	Nylon
Sport Application	Hunting

12. WARRANTY AND SUPPORT

Sytong is committed to providing excellent customer service and support for its products. As a Sytong Factory Direct Store, we ensure direct assistance for any product-related inquiries.

- **Customer Support:** If you have any questions about the Sytong XS03, please do not hesitate to contact us. We aim to respond to all inquiries within 24 hours.
- **Satisfaction Guarantee:** Your 100% satisfied purchase is our service goal.
- For warranty claims or technical assistance, please refer to the contact information provided with your purchase or visit the official Sytong website.

