Sytong

HT Series

USER MANUAL

Night Vision Telescope

HT-70V2.0

CONTENTS

1. Important Safety Instructions 01

2. Product Components 02

3. Package Contents 03

4. Operation Instructions 03

5. Button Functions 04

6. Menu Functions 05

7. Device Connection 07

8. Technical Specifications 08

9. Maintenance and Care 10

1. Important Safety Instructions

1.Do not look directly at the IR illuminator when it is on. Direct exposure may cause eye injury.

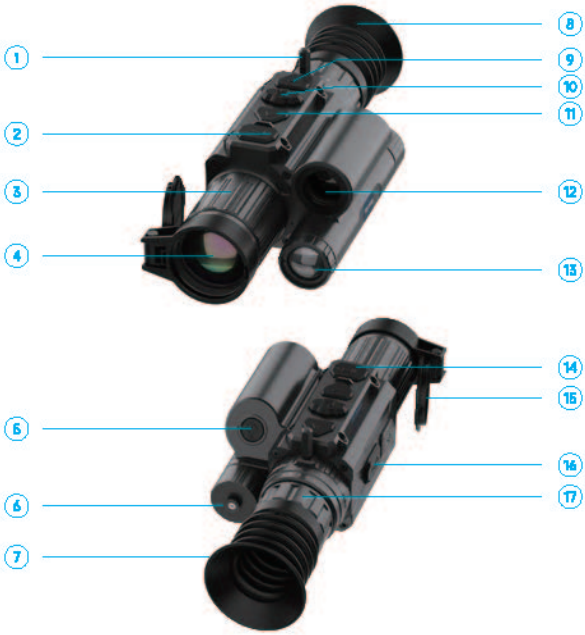
2.When the IR illuminator is on, it emits concentrated energy. Keep it away from flammable objects to avoid risk of fire. When not in use, turn off the IR illuminator or set the device to standby mode.

3.Use only rechargeable lithium-ion batteries rated at 3.6V.

4.Do not attempt to open the housing. If a malfunction occurs, contact the manufacturer for service. Unauthorized opening will void the warranty.

Note: Charge the device only with a charger rated at 5V or below. Do not use a charger rated above 5V.

2. Product Components



1. Magnification Encoder	2. Status Indicator	3. Objective Focus Ring
4. Objective Lens	5. Power Button	6. Battery Compartment Cover
7. Eyepiece	8. Eyepiece Cup	9. Down Navigation Button
10. Menu Button	11. Up Navigation Button	12. Rangefinder Module
13. IR Illuminator	14. Record Button	15. Lens Cap
16. Data Port Cover	17. Eyepiece Focus Ring	

3. Package Contents

- HT-70 V2.0 Night Vision Telescope
- 21700 Battery
- Carrying Case
- Type-c Cable
- 5V 2A Power Adapter
- User Manual
- Dual-Pin Mount (includes screws, hex nuts, and wrenches)

4. Operation Instructions

(1) Battery Installation: Unscrew the battery cover and insert one flat-top 21700 lithium-ion rechargeable battery rated at 3.6V with the positive terminal facing inward. Make sure the battery cover is tightened securely.
(2) Power On/Off: Press and hold the Power Button for 3 seconds to turn the device on. Press and hold the Power Button for 3 seconds to turn it off.
(3) Eyepiece Focus: Eyepiece focus, also known as diopter adjustment, allows users with different vision to see the display clearly. Rotate the focus ring until the text and icons in the corners of the screen appear sharp.
(4) Objective Focus: Before adjusting the objective focus, make sure the eyepiece focus (diopter adjustment) has been completed. Aim at the target you want to see and rotate the objective focus ring until the image is clear.
(5) IR Illuminator Adjustment: In black-and-white or green mode, briefly press the Power Button to adjust the IR illuminator level (IR1 through IR5). For distances beyond 100 meters or longer range, rotate and extend the illuminator housing to adjust the focus of the IR light.
(6) Mount Installation: Secure the mount (dual-pin mount) to the tubular mounting points located on both sides of the function adjustment knob on the night vision binoculars. Tighten using the hex wrench. The position of the mount can be adjusted via the mounting screws. The dual-pin mount is compatible with various types of rails.

5. Button Functions

Power Button

(1) Press and hold the Power Button for 3 seconds to turn the device on. When the device is on, press and hold the Power Button for 3 seconds to turn it off (countdown before shutdown).
(2) In preview mode, press and hold the Power Button for 1–3 seconds to enter standby mode. In standby mode, briefly press the Power Button to wake the device.
(3) After entering the menu, briefly press the Power Button to return to the main screen.

Record Button

(1) Press and hold to start recording; briefly press to take a photo.

Up Navigation Button

(1) Press and hold to switch between black-and-white mode and green mode.
(2) In preview mode, briefly press to adjust the IR illuminator brightness.
(3) After entering the menu, briefly press to move up.

Menu Button

(1) Press and hold to turn picture-in-picture (PIP) on or off.
(2) In menu mode, press and hold to return to the previous level.
(3) In preview mode, briefly press to open the menu. When rangefinding is active, briefly press to lock the measured distance.

Down Navigation Button

(1) Press and hold to turn the rangefinder on or off.
(2) In preview mode, briefly press to adjust the screen brightness.
(3) After entering the menu, briefly press to move down.

Magnification Encoder

(1) Adjusts the magnification level by stepping through the available settings.

6. Menu Functions

Icons	Main Menu	Function Descriptions
	Picture-In-Picture (PIP)	Short press the Menu button to enter the submenu, press Up or Down to select On or Off, then short press the Menu button to confirm and return to the main menu.
	Zeroing Storage	Used to save user-configured ballistic zeroing parameters.
	Reticle Zeroing Calibration	Short press the Menu button to freeze the image. Short press the Record button to move to the X or Y axis value, then press Up or Down to adjust the reticle position until it aligns with the point of impact. Short press the Record button to move to another option. After adjustment, move to the Save option and short press the Menu button to save and exit. Long press the Menu button to exit without saving. The set distance will be saved as the zeroing name in the Zeroing Storage menu.
	Rangefinder Unit	Select "Rangefinder Unit" with the cursor, then short press the Menu button to open the submenu. Choose "Meters" or "Yards" in the submenu to change the distance display unit. Short press the Menu button to confirm.
	Screen Brightness	**Select "Screen Brightness" with the cursor, then short press the Menu button to open the submenu. In the submenu, choose from five levels: Extra Dark, Dark, Normal, Bright, and Extra Bright. Short press the Menu button to confirm.**
	Color Enhancement	**Select "Color Enhancement" with the cursor, then short press the Menu button to open the submenu. Choose "Natural Color Mode" or "Enhanced Color Mode". Short press the Menu button to confirm.**
	Exposure Compensation	**Select "Exposure Compensation" with the cursor, then short press the Menu button to open the submenu. Options: 1-10.**
	Gyroscope	Select "Gyroscope" with the cursor, then short press the Menu button to open the submenu. In the submenu, select "On", "Off", or "Calibrate".
	WIFI	Select "Wi-Fi" with the cursor, then short press the Menu button to open the submenu. In the submenu, select "On" or "Off".
	BC	Select "BC" with the cursor, then short press the Menu button to open the submenu. The submenu contains three options: "Auto Ballistic On", "Auto Ballistic Settings", and "Off". (1) Auto Ballistic On: Enables the auto⊠ballistic function. (2) Auto Ballistic Settings: When enabled, detailed parameters can be set. Refer to the operation video for instructions. (3) Off: Disables this function.
	Record Audio	Select "Record Audio" with the cursor, then short press the Menu button to open the submenu. In the submenu, select "On" or "Off" to enable or disable audio recording when recording video.

	Date Stamp	Select "Date Stamp" with the cursor, then short press the Menu button to open the submenu. In the submenu, select "On" or "Off" to display or hide the date stamp on recorded videos and photos.
	Multi-Language	Select "Multi-Language" with the cursor, then short press the Menu button to open the submenu. Choose the desired language, then short press the Menu button to confirm.
	Auto Power Off	Options: 10 minutes, 20 minutes, 30 minutes, Off. Default is Off. After powering on, you can select 10, 20, or 30 minutes for automatic shutdown.
	Settings	Select "Default Settings" with the cursor, then short press the Menu button to open the submenu. (1) Date and Time: Select "Date/Time" with the cursor, then short press the Menu button to open the submenu. The cursor starts at the year field. Press Up or Down to adjust the year, then press the Record button to move the cursor to the month field. Press Up or Down to adjust the month, then press the Record button to move the cursor to the day field. Press Up or Down to adjust the day, then press the Record button to move the cursor to the hour field. Press Up or Down to adjust the hour, then press the Record button to move the cursor to the minute field. Press Up or Down to adjust the minute, then press the Record button to move the cursor to the second field. Press Up or Down to adjust the second, then press the Record button to move the cursor to the date format field. Press Up or Down to choose from three date formats: "YYYY/MM/DD", "MM/DD/YYYY", or "DD/MM/YYYY". Short press the Menu button to save and exit. (2) Format: Select "Format" with the cursor, then short press the Menu button to open the submenu. In the submenu, select "Confirm" or "Cancel". Please choose carefully! Once formatted, data cannot be recovered. (3) Screen Color Temperature: Select "Screen Color Temperature" with the cursor, then short press the Menu button to open the submenu. The submenu contains two options: "Cool" and "Warm". Selecting either will change the image color tone accordingly. (4) Default Settings: Select "Default Settings" with the cursor, then short press the Menu button to open the submenu. In the submenu, select "Confirm" or "Cancel" to restore the device to factory default settings. Please operate with caution! (5) Version: Select "Version Number" with the cursor, then short press the Menu button to view the device software version information.

7. Device Connection

Download the dedicated app to connect the device to your mobile device via WiFi.

Android/iOS: Scan to download

Google Play

Search "XVision" on Google Play to Download.

Download and install the app

Turn on the device and enable WIFI

Open the App

Select WIFI "xx" and connect

(Default WIFI password: 12345678)

8. Technical Specifications

83mm

225mm

HT-70V2.0

Objective Lens Focal Length	70mm
Magnification	5X
Digital Zoom	5X / 10X / 15X / 20X
Exit Pupil Distance	50mm
Diopter Adjustment	+5 / -5D
Focus Distance	5m – ∞
Field of View	6.3° × 3.5°
Detection Range	1000m
Color Modes	Color, Black & White, Green
Display Type / Resolution	0.49 inch/ OLED / 1920 × 1080
Sensor Resolution	2688 × 1520
IR Wavelength	940nm / 850nm (optional)
IR Illumination Distance	200m
IR Illuminator Power	5W
Battery	21700 Lithium-ion / 5000mAh
Voltage	3.6V
Operating Time	5 hours
Rangefinding Range	1000m

Ranging Accuracy	±1m
Dimensions	225 × 83 × 67 mm
Weight	574g ± 5g
Frame Rate	60 fps
Connectivity	Wi-Fi
Storage Type	TF card (FAT32 format)
Video Format	.mp4 / .jpg
Video Resolution	1920 × 1080
Water Resistance	IP67

9. Maintenance and Care

(1) After observation or if the device will not be used for an extended period while powered on, turn it off promptly to extend the effective operating time of the night vision binoculars.
(2) The lens of the night vision binoculars is an important optical component. During installation and use, avoid contact with oil, chemicals, or any substances that may damage the lens surface. After use, put the lens cap back on.
(3) When the night vision binoculars are not in use or during transport, remove the battery and store the device in its original packaging.
(4) For long-term storage or when not in use, keep the night vision binoculars in a cool, dry environment.
(5) Do not use chemical solvents, thinners, or similar products to clean the housing of the night vision binoculars. Use a clean, soft, dry cloth instead.
(6) Clean the lens of the night vision binoculars only when it is visibly dirty. Avoid touching the lens surface. Acidic residues from fingerprints can damage the lens coating and surface. Use only a dedicated lens cloth for cleaning.
(7) If the device will not be used for a long period, power it on for inspection and calibration once every six months.

FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
The device has been evaluated to meet general RF exposure requirements. The device can be used in portable exposure conditions without restriction.

Sytong

Sytong | Sytongnightvision | Sytong Night Vision | NSytong

support@sytong2013.com | https://www.sytongoptics.com