HT-99LRF Digital Night Vision

Instruction Manual

Cautions

1.Please don't look at the IR fill-light at close range, or it'll damage your eyes.

2.The infrared light will focus much energy when it turns on. Strictly forbidden to aim it directly at flammable objects at close range, or it may cause fire. Please turn off the IR fill-light or fall into sleep mode when not in use!

3.Please use a lithium-ion rechargeable battery with a rated voltage of 3.7V!

4.Don't open the device housing without authorization. please contact the manufacturer promptly if got a malfunction, or it'll be considered to give up warranty service.

Note: Only suitable for charging voltage below 5V. Don't charge it at voltages over 5V.

Note: Our products are fixed on the equipment and controlled by WiFi connected app. They can't be close to human eyes and will be damaged. They can only be used fixedly, with a distance of more than 20cm from human body.

① Laser Rangefinder	② Power/Sleep button
③ Objective lens	④ 1/4 source nipple
⑤ Battery compartment cap	⑥ Stretchable IR lamp
⑦ Eye shade	⑧ Eyepiece dioptre adjustment ring
⑨ Objective lens focusing adjustment ring	⑩ Picatinny rail
⑪ laser red dot	⑫ TF slot/USB port

Short press to switch magnification
Long press to turn on ranging (In Menu Mode press it to move up)

Short press to adjust brightness of display screen
Long press to activate Menu.
In Menu Mode: Short press it to Confirm the selected option
(In Menu Mode long press: return to previous menu)

Short press to take photos
Long press to record videos

Short press to swtich the IR illuminator brightness
Long press to switch color modes
(In Menu Mode press it to move down)

1.Hold the power button for 3 seconds to power on/off.
2.Short press: In observation interface, a short press enters or wakes from sleep mode.
In menu mode, a short press returns to the observation interface.

Components

1*HT-99 ; 1* Micro USB cable; 1*Adapter；
2*Allen Hex Key; 1* Cotton bag; 1*Power Adapter;
This product does not include a memory card. If you want to use functions such as taking pictures and recording, you need to prepare a FAT32 format TF card (up to 128G)

Installation

1. Battery

Please use lithium-ion chargeable 3.7V battery 18650. Remove battery compartment cap and make sure setting the positive polar towards to the direction inward. Put the cap back and rotate it tightly.

2. Adjustments

Turn on the device after the installation of battery. First, rotate and adjust the eyepiece dioptre adjustment ring until you see the four-character icon on the screen (there's no need to see a crisp image), then rotate the Objective lens adjustment ring until you can see the target clearly. Second, switch to different modes and test the functions available.

3. Adapter installation

Outfit the adapter to front side of the device, rotate it to the bottom to fix the adapter tightly. Fix the device with screws while the black tapes can also help.

Menu Instructions

1.Center Position Adjustment

Long press Menu button to enter into Main Menu.Short press Menu button to get the submenu X/Y/SAVE.
Switch between X/Y/SAVE by short press of Camera button. Press UP/Down button to adjust the X or Y values until the reticle moves to the center of the image.
Short press Camera button to switch to SAVE option. Short press Menu button to save.

2. Gyroscope Display

Enter the menu with a press of the button OK, open/ close the menu with a press of the button UP/DOWN, confirm the option with a short press of button OK.

3. Gyro Calibration

Enter the calibration page with a press of the button OK, place the device horizontally,start calibration with a short press,and exit with a long press.

4. Red Dot Laser

Press the "OK" button to access the sub-menu. Use the up and down navigation buttons to choose "Open" or "Close", and then press the "OK" button to confirm.

5.Picture in Picture

Press OK button to enter into the submenu:Close/2.0X/3.0X/4.0X. Press UP/DOWN button to select one of the options.Short press OK button to save.

6.Picture in Picture Adjustment

Make sure the Picture in Pictures is open before adjusting the position.Press OK button to enter into the submenu.Short press Menu button to get the options X/Y/SAVE.Switch between X/Y/SAVE by short press of Camera button. Press UP/Down button to adjust the X or Y values.Select Save and press OK button to confirm.

7.Power on Digital Zoom

Select the magnification from 6 options "1.0x/ 1.5x/ 2.0x/ 2.5x/ 3.0x/ 3.5x" and Press OK button to confirm. The options will take effect only after restart of the device. The default magnification is 1.0X.

8.Power on Color

Press OK button to enter into submenu: Colorful,Black/White,Green. Press UP/DOWN button to select from the 3 color modes.Press OK button to confirm.

9.Default IR Luminance

Press OK button to enter into submenu: Close/1/2/3. Press OK button to confirm.

10.OLED Brightness

Press OK button to enter into the submenu: Super dark/Dark/Normal/Bright/Super bright. Press OK button to confirm. The default brightness is Normal.

11.Auto Record

Press OK button to get the two options:Close/Open.Select Open and press OK button to confirm. Restart the device and the Auto Recording is Open.

12.Cycle Record

Press OK button to get the 4 options:Close/3 minutes/5 minutes/10 minutes.Press OK button to confirm. The option takes effect after restart of the device. The default mode is Close.

13.Time Stamp

Press OK button to get the 2 options: Close/Open. Press OK button to confirm. Time will be showed in the videos.The default mode is Close.

14.Record Audio

Press OK button to get the 2 options: Close/Open. Press OK button to confirm. The videos will have sound if Open is confirmed.The default mode is Close.

15.Playback

Long press the camera button to record videos. Short press the camera button to take pictures.Select Playback to check the previous videos or pictures.

16.WiFi

Press OK button to get the 2 options: Close/Open. The default mode is Close.
1、Turn on WIFI both in menu and phone, find xxx-xxx -xxx... and the password is 12345678.
2、Taking pictures/ Video Recording can be checked through APP, APP can control ON/OFF REC button but the device can not control the APP.

17.EV Compensate

Select from the options:-2、-5/3、-4/3、-1、-2/3、-1/3、+0/0、+1/3、+2/3、+1、+4/3、+5/3、+2,Press OK button to confirm. The default mode is +0/0.

18.Ranging unit

Short press the OK button to enter the submenu, use the up and down keys to select the appropriate distance measurement unit, and short press the OK button to confirm.

19.Date/Time

Press OK button to get the submenu. Switch between the options by short press of Camera button. Change the option values by press of UP/DOWN button. Press OK button to confirm. Quit by long press the OK button.

20.Language

Select a language with UP/DOWM button and confirm with a short press of OK button.

21.Format

Press OK button to get the submenu: Cancel/Sure.Press OK button to confirm.

22.Default setting

Press OK button to get the submenu: Cancel/Sure.Press OK button to confirm.
The system will be restored to the factory default setting after confirmation.

23.Version information

Short press the OK key to enter and select to view the version information.
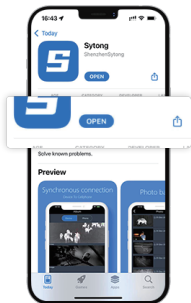
APP Download/Connection

Download APP by Scanning the QR code
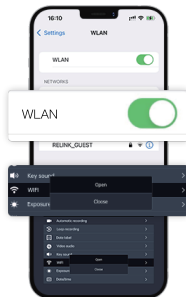according to the mobile phone system.
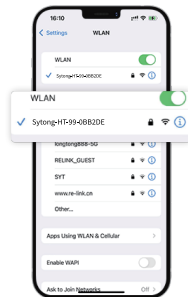

Search "XVision" on Google Play to Download.

Download and install APP
Sytong

Turn on WIFI on your phone and device

Turn on APP Sytong

Select with"Sytong—..."and connect

(WIFI password： 12345678)

Specifications

Model	HT-99LRF	Operating Time (At t=22°C)	6 hours
Type	CMOS	Max. Recoil Power, Joules	6000
Resolution, Pixels	2592x1944	Degree of Protection	IPX5
Objective Lens Focus	16mm	Operating Temperature	-20°C...50°C
Magnification	1-3.5x	Dimensions	144.5x77.1x124.3mm
Focal ratio, D/f'	1X	Net Weight	409g
Eye Relief	30 mm	Video / Photo Resolution	2304x1728
Filed of View	16°X12.5°	Video / Photo Format	.mp4 / .jpg
Diopter Eyepiece Adjustment	+5/-5 D	Memoery Type	TF card(FAT32), max.support 128G
Min. Focusing Range	0.1m	Frequency	2.4GHz
Type / Wavelength, nm	850/940	Standart	802.11 b/g
Type / Resolution	0.39 inch / OLED / 1024x768	Line-of-Sight Reception Range	15m
Power Supply	3-4.2 V	Wavelength	905nm
Battery	18650 /3500mAh	Max. Measuring Range	1000m
External Power Supply	5V (USB)	Measuring Accuracy	+/- 1m

Warranty

Thank you for buying this product, we will comply with the warranty terms to provide you with the highest quality service.

1:Warranty Policy
We guarantee to the users of this product that the warranty will be effective under the following conditions.
(1) This warranty card shall be provided at the same time.
(2) During the warranty period, non-human factors caused by the fault, free replacement of spare parts will be offered accordingly and the maintaince service is for free.

2:Warranty Limits
No warranty will be provided if the damage is caused by the following reasons:
(1) Do not disassemble the night vision device by yourself. If there is any trouble,please contact the factory in time. If the repair, modification or product seal sticker is not approved by the company, it will not be covered by the warranty.

(2) All damage caused by human factors or accidental product damage, including use in abnormal working conditions, damage caused by failure to follow the instructions and installation, is not covered by the warranty.

(3) The manufacturer reservers the rights of modification and interpretation for above terms.

FCC Warnning

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

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, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

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 into 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.
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environmen.

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