Sytong

PRODUCT INSTRUCTION

Shenzhen Shi Yutong Technology Co., LTD

Cautions

*.Please use rechargeable battery with rated voltage of **3.7V**.

*.If item is defective, notify point of purchase contact for maintenance. Attempts to disassemble or repair the device unauthorized will make the warranty invalid.

⚠️

Note : only suitable for charging voltage below 5v. Do not charge the device with voltage over 5v.

Digital Night Vision

Laser Range Finder

Buttons/Funtions

Laser adjustment hole

Power/Sleep button

Objective lens focusing adjustment ring

Eyepiece dioptre adjustment ring

Sytong

Short press to switch magnification
Long press to activate range finder (In Menu Mode press ▲ to move up)

Short press Photo taking
Long press Recording

Short Press this button to activate Laser Dot
Long press to switch Black/White mode
(In Menu Mode press ▼ to move down)

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

AV output

USB charging port

TF card slot

Components

1*HT-77 ; 1* Micro USB cable; 1*Adapter；
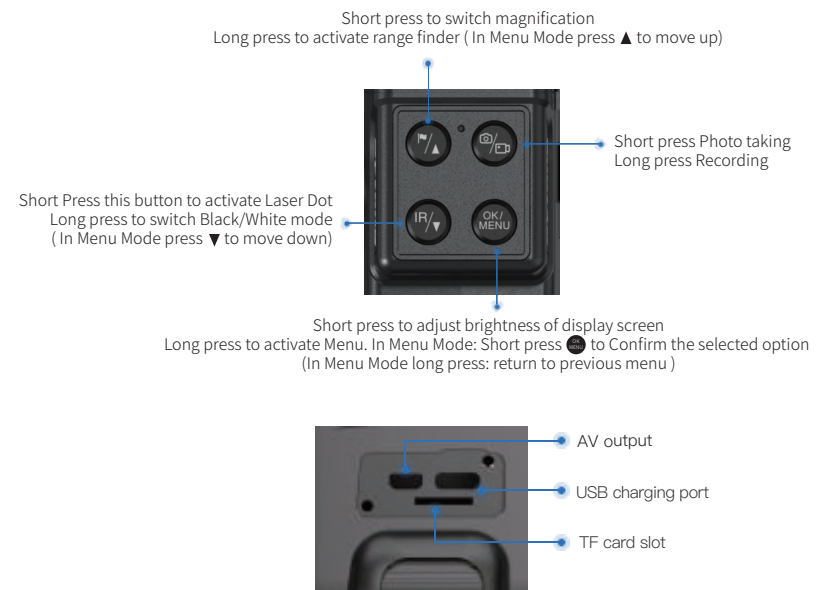2*Hex-nut wrenches; 1* Cotton bag; 1*Power Adapter;

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 chargeable 3.7V flat battery 18650. Remove battery compartment cap and make sure setting the positive polar towards to the direction inward. Put the cap back and screw it until tight. (Fail to do so may result in restarting!).

2. Adjustments

To check the function 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 clear image), then rotate the Objective lens adjustment ring until you can see your target clearly. Second, switch to different modes, test IR, Red dot or Rangefinder.

3. Adapter installation

Outfit the adapter to front side of the device, screw it to the bottom to fix the adapter tight. Using screws to fix the device onto scope. (Or use tape to assist the installation).

Instructions

1.Turn On/Off

Long press the Power button for 3 seconds to turn on the device. Turn off the device with a long press of Power button. Power indicator will keep ON when the device is turned on.

2.Sleep Mode

Enter sleep mode with a short press of Power/Sleep button when the device is turned on. Power indicator will keep ON when the device entering sleep mode.

3.The Eyepiece Dioptre Adjustment

The purpose of dioptre adjustment is to get a clear image for users with different vision. Rotate and adjust the dioptre adjustment ring until
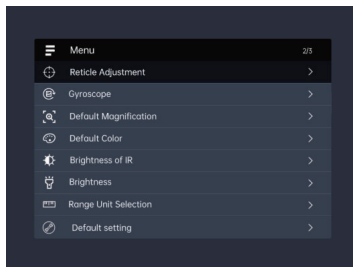
you get a clear view of the four–character icon on the screen. One adjustment only for each eye–view.

(Please note it's possible that the image is not clear without the adjustment of objective lens.)

4.The Objective Lens Adjustment

Make sure the eyepiece dioptre adjustment is finished. Aiming at your target, rotate and adjust the objective lens ring until you get a clear and well–focused image.

5.Infrared NV Mode

Long press IR button to enter into Black/White mode, turn on the external IR light to have better Night Vision experience.

6.Red dot Adjustment

Turn on the device, then turn the laser on/off with a short press of IR button. The position of laser can be adjusted on the laser adjustment holes by a hex–nut wrench.

7.Menu operation

Enter the menu with a long press of Menu button. Press ⬍ button to select options. Enter a submenu with a short press of OK button. Exit the menu with a long press of Menu button.

1 >Reticle Adjustment

Long press Menu button to activate Main Menu, press "Down" button to switch to "Reticle Adjustment" and then short press "Menu" button to activate the adjustment display.

Short press "Record" button to switch between "X" or "Y", press "UP" or "Down" button to adjust the "X" or "Y" until the reticle locate at the centre of the image. Short press "Record" to switch to "SAVE" option. Short press OK button to save the setting.

2 >Gyroscope

Enter the submenu Gyroscope with a short press of OK button. Select "Display" or "Calibration" with a short press of ⬍ button. Select "On" or "Off" to turn on/off the gyroscope after entering "Display". Turn on the gyroscope before youselect "Calibration". Enter "Calibration" by pressing OK button. Keep the machine level and remain still for about 8 seconds to complete the calibration.

3 >Default Magnification

Enter the submenu Default Magnification with a short press of OK button. Select "1.0x/ 1.5x/ 2.0x/ 2.5x/ 3.0x/ 3.5x" as default magnification. Confirm your selection with a short press of OK button.

4 >Default Color

Enter the submenu Default Color with a short press of OK button. Select "Color" or "Black & White" mode with a short press of ⬍ button. Confirm your selection with a short press of OK button.

5 >Brightness

Enter the submenu Brightness with a short press of OK button. Select "Ultra Dark" "Dark" "Normal" "Bright" "Ultra Bright", with a short press of ⬍ button. Confirm your selection with a short press of OK button.

6 >Auto Recording

Enter the submenu Auto Recording with a short press of OK button. Select "Off" or " On" with a short press of ⬍ button. Confirm your selection with a short press of OK button.

7 >Loop Recording

Enter the submenu Loop Recording with a short press of OK button. Select "Off" , "3 minutes", "5 minutes" or "10 minutes" with a short press of ⬍ button. Confirm your selection with a short press of OK button.

8 >Date Stamp

Enter the submenu Date Stamp with a short press of OK button. Select "Off" or " On" with a short press of ⬍ button. Confirm your selection with a short press of OK button.

9 >Record Audio

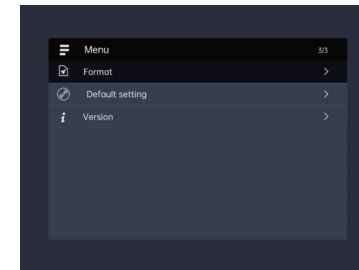Enter the submenu record audio with a short press of OK button.

Select "Off" or "On" with a short press of ⬍ button. Confirm your selection with a short press of OK button. This setting is to realize an audio or a silent video.

10>Beep sound

Enter the submenu beep sound with a short press of OK button. Select "Off" or " On" with a short press of ⬍ button. Confirm your selection with a short press of OK button. This setting is to choose whether the keyboard press sound will be recorded into the video or not.

11 >WiFi

    Enter the submenu WiFi with a short press of OK button②.

    Select"Off" or "On" with a short press of ↕ button. Confirm your selection with a short press of OK button②. Exit WiFi with a long press of Menu button . (The Menu page can not be opened while WiFi is turned on) The corresponding APP is available in its official website.

12 >Exposure

    Enter the submenu exposure with a short press of OK button②. Select one of the options with a short press of ↕ button. Confirm your selection with a short press of OK button②.

13 >Language

    Enter the submenu Language with a short press of OK button②. Select one of the options with a short press of ↕ button. Confirm your selection with a short press of OK button②.

14 >Date/ Time

    Enter the submenu "Date/Time" with a short press of OK button②. Select one of the options with OK button②. Select a correct value for year, month and date with a short press of ↕ button. Select "YY /MM/DD", "MM/DD/YY"or "DD/MM/YY"as your date format with a short press of ↕ button. Save selected date and exit the submenu with a short press of Menu button.

15 >Format

    Enter the submenu "Format" with a short press of OK button ②. Select "Memory" or " TF card" with a short press of ↕ button. Confirm your selection with a short press of OK button②.

    Please be careful, the data can not be recovered after the device is formatted.

16 >Default Setting

    Enter the submenu "Default Setting" with a short press of OK button ②. Select "Cancel" or " OK" with a short press of ↕ button. Confirm your selection with a short press of OK button②.

8. Shortcuts

    ⏻ Power/Sleep button

Turn on the device with a long press of power button, turn off the device with a long press of power button. Enter or exit sleep mode with a short press of sleep button.

①.Short Press to choose different magnifications; Long press to turn on Range Finder.

②.Short press: take photos; Long press: Record

③.Short press: activate laser dot; Long press: Black/White Mode

④.Short press: adjustment of display brightness Long press: Main Menu

Specifications

Model	HT–77LRF	Battery	18650X1	Dimension	139mmX106mm X62mm
Magnifying power	1x–3.5x	Focusing	2.5m–∞	Eyepiece resolution	1024X768
Voltage	3.7V	Laser rangefinder range	5–1000m	Range Finder Accuracy	±1m
Output type	AVI	Data transmission	WIFI	Frame rate	30fps
Battery life	>8h	Video resolution	1080p	Storage type	TF card(FAT32)

Warranty card

Warranty

This product is warranted against defects in materials and workmanship for a period of one year from the date of purchase.

This warranty is for the original purchaser only!

Notice:

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.
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.

Key Specifications

General Specifications

(1) 1x1 2.4GHz frequency band (channels 1—11)

(2) PHY supporting IEEE 802.11b/g/n

(3) MAC supporting IEEE 802.11 d/e/h/i/k/v/w

(4) Built–in PA and LNA, integrated with TX/RX Switch and Balun

(5) Station (STA) and access point (AP) modes, up to six STA devices allowed for access as an AP

(6) WFA WPA, WFA WPA2 personal, and WPS2.0

(7) 2/3/4–line PTA solution with BT and BLE chips coexisting

(8) Input voltage range: 2.3—3.6 V; I/O power voltage: 1.8 V or 3.3 V

(9) RF auto–calibration solution

PHY Features

(1) All single—antenna data rates of IEEE802.11b/g/n

(2) Maximum rate of 72.2Mbit/s@HT20 MCS7

(3) Standard 20MHz bandwidth

(5) STBC RX

(6) Short GI

MAC Features

(1) A—MPDU and A—MSDU

(2) Blk—ACK

(3) QoS

Other Information

(1) Operating temperature: —40°C to +85°C (—40°F to 185°F)

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 resi— dential 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 communica— tions. However, there is no guarantee that interference will not occur in a particular installa— tion. 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 encour— aged 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 uncon— trolled environmen