

# THERMAL IMAGING SIGHTS



## AM-LRF SERIES QUICK START GUIDE

Shenzhen Shi Yutong Technology Co., LTD



1. Objective Lens	2. Lens Focusing Ring	3. Record Button (REC)
4. Navigation UP Button	5. MENU Button	6. Navigation DOWN Button
7. Dioptre Adjustment Ring	8. Eyeshade	9. Red Laser Pointer
10. Laser Rangefinder	11. Power (ON/OFF) Button	12. Data Compartment
13. Lens Cover	14. Device LED Indicator	15. Battery Cap (Make sure to tighten the battery cover before using the device)

# | In The Box

- Thermal Imaging Sight
- Manual
- Mount (with screws and hex-nut wrenches)
- Type-C Cable
- 5V 2A Adapter
- Battery

# | Quick Start

## Power On and Image Settings

- Hold the power (ON/OFF) button (11) for 3 seconds to power on.
- Rotate the dioptre adjustment ring (7) to get a clear image of the icons on the display.
- Rotate the lens focusing ring (2) to get a clear image of the observed object.
- Press the navigation UP button (4) to select the operating modes (White Hot, Sky Mode, Black Hot, Red Hot, Fusion).
- Press the navigation DOWN button (6) to select digital magnification (1x, 2x, 4x, 8x).
- Press the MENU button (5) to enter the menu to select the appropriate parameter.
- Hold the power (ON/OFF) button (11) for 3 seconds to power off. The LED indicator will be turned off after the device is powered off.

# Buttons

## Button Legend



### Power (ON/OFF) Button

Hold the power (ON/OFF) button (11) for 3 seconds to power off. The LED indicator will be turned off after power off.  
Hold the power (ON/OFF) button (11) for 1-3 seconds to go into sleep mode. The LED indicator will be green when the device is in sleep mode. Wake the device by pressing the power (ON/OFF) button.

\*Press the power button to refresh the device.



### Record Button (REC)

Press to take a picture.

Hold for 1-3 seconds to record a video. Hold for 3 seconds to stop recording.



### ↑ Navigation UP Button

In menu mode : Press to switch menu items upwards.

When not in menu mode : Press to change operating mode. Hold to turn on or off the Picture in Picture.



### MENU Button

In menu mode : Press to confirm selection. Hold to exit main menu or submenu.

When not in menu mode : Press to enter menu mode. Hold to turn on or off the red laser pointer.

When LRF is on : Press to lock or unlock rangefinding values.



### ↓ Navigation DOWN Button

In menu mode : Press to switch menu items downwards.

When not in menu mode : Press to change set-up zoom 1x, 2x, 4x, 8x. Hold to turn on or off laser rangefinder.

# Menu Functions

Number	Main Menu Description	Sub Menu Description
1	Operating Modes	<p>Options: "White Hot"/"Sky Mode"/"Black Hot"/"Red Hot"/"Fusion" Default mode is "White Hot"</p> 
2	Video Output	<p>Options: "On"/"Off" The video output function CVBS will be on/off accordingly.</p>
3	WiFi	<p>Options: "On"/"Off" Turn on WiFi on both the device's Menu and user's phone. On user's phone, find and connect to "Sytong-AM-XXX" WiFi network with password 12345678. Live image will be displayed on the App after the phone is connected to the device's WiFi.</p>
4	Picture In Picture	<p>Options: "On"/"Off"</p>
5	Reticle Type	<p>Options: Off/Select the preferred reticle type from 8 choices</p>

6	<b>Reticle Color</b>	Options: Black, White, Gray, Red, Green
7	<b>Reticle Profiles</b>	Select one of the saved profiles (Max. 10 profiles).
8	<b>Reticle Adjustment (Zeroing)</b>	Freeze the image by pressing the MENU button. Move the reticle horizontally or vertically with the UP/DOWN buttons. Switch between horizontal and vertical adjustments by pressing REC button. After the reticle matches the point of impact, press the MENU button to save the position. Input the target distance and select the unit (Meter/Yard). The reticle profile will be saved with the distance as it's name.
9	<b>Gyro</b>	Options: On/Off
10	<b>Laser Rangefinder Unit</b>	Options: Meter/Yard
11	<b>Laser Rangefinder Mode</b>	1.Single distance measurement 2.Continuous distance measurement
12	<b>OLED Brightness</b>	Options: 1-10
13	<b>Target Brightness</b>	Options: 1-10
14	<b>Contrast Ratio</b>	Options: 1-10
15	<b>Image Detail Boost</b>	Options: 1-5

16	<b>Date/Time</b>	Move the options by pressing the MENU button. Change the value using the UP/DOWN button. Confirm the values by pressing the MENU button. Quit by holding the MENU button.
17	<b>Language</b>	Options: English/Chinese/Other Languages
18	<b>Record Audio</b>	Options: On/Off Default is off
19	<b>Format</b>	Options: Confirm/Cancel
20	<b>Auto Power Off</b>	Options: 3 Min/5 Min/Off Default : Off
21	<b>Default</b>	Options: Confirm/Cancel
22	<b>Pixel Cure</b>	Select "Pixel Cure" and press MENU button to get to the submenu. The lens should be covered with lens cover before performing the pixel cure. Press the MENU button and follow the prompts to fix the bad pixels. After repair, please remember to save it. Hold the UP/DOWN button to move X/Y position. Press the Power button to switch between X/Y/Save.
23	<b>Image Adjustment</b>	Options: "Cancel"/"Confirm" Select "Image Adjustment" in the main menu. Press MENU button to select "Confirm" and cover the lens if the image adjustment is required.

24	<b>Auto Ballistic Calculator (BC)</b>	Select BC and press the MENU button to get to the sub menu: On/Off/Setting. Press <b>【Record Button】</b> to move to set parameters. Press <b>【Up/Down Button】</b> to set values.
25	<b>Version</b>	Select "Version" to view the device's software version.

## | Installing The 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!).

## | Using The Integrated Laser Rangefinder

- Hold the power (ON/OFF) button (11) for 3 seconds to power on the device.
- Hold the navigation DOWN button (6) for 3 seconds to activate the laser rangefinder.
- The rangefinder indicator (a small box) will appear at the center of the display.
- Point the rangefinding indicator at an object to measure the distance (the distance will be displayed at the top right corner of the display).

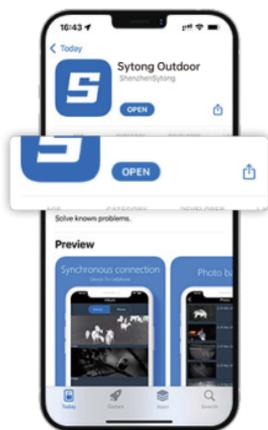
## | Installation Of Mount

- Attach the mount to the base of the scope using a hex-nut wrench and screws.
- The mounting holes in the base of the scope enable the mount to be installed in one of the multiple positions. The choice of the mounting position helps the user to ensure the correct eye relief depending on the device type.
- The scope is ready to be installed on a device and to be zeroed.
- Before using the device, please follow instructions in the section "Reticle Adjustment (Zeroing)".

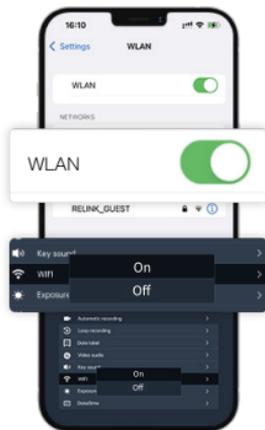
# APP Connection



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



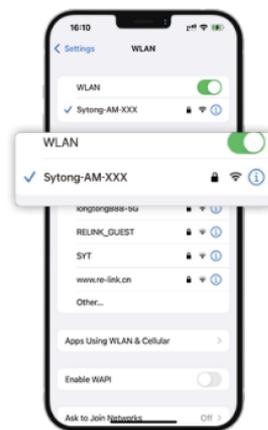
Download the APP



Turn on WiFi on AM and phone



Enter APP



Choose WiFi "Sytyng..." to connect WiFi  
(Password: **12345678**)

# AM-03LRF

## Sensor

Type	Uncooled VOx	Resolution	384x288 Super Sensitive
Frame Rate	50 Hz	Pixel Size	12μm
NETD	≤30mk		

## Optical Characteristics

Objective Lens	35mm/50mm	Magnification	2.8X/4X
Digital Zoom	1 x/ 2x / 4x / 8x	Eye Relief	50 mm
Dioptre Adjustment	+5/-5 D	Focus Scope Range	5m-∞
FOV	7.5°X5.7° / 5.3°X4.0°	Detection Distance (Target Size : 1.7m x 0.5m)	1750m / 2500m

## Display

Operating Mode	White Hot, Sky Mode, Black Hot, Red Hot, Fusion	Type / Resolution	0.39 inch / OLED / 1024X768
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## Operational Characteristics

3D Gyroscope	Yes	Waterproof Rating	IP66
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Power Supply	3-4.2 V	Battery	18650 /3500mAh
External Power Supply	5V (USB)	Operating Time (At Temperature =22°C)	5 hours
Max. Recoil Power, Joules	10000	Operating Temperature	- 20°C to +50°C
Dimensions	209.5X62.2X87.3mm	Weight (Without Battery/ Mount)	633g

## Video Recorder

Video / Photo Resolution	1024x768	Video / Photo Format	.mp4 / .jpg
Supported Memory Type	Built-in 32G Memory Card		

## Wifi Channel

Frequency	2.4GHz	Standard	802.11 b/g
WiFi Signal Range	15m		

## Rangefinder

Wavelength	905nm	Max. Measuring Range	800m
Measuring Accuracy	+ /-1m		

# AM-06LRF

## Sensor

Type	Uncooled VOx	Resolution	640x512 Super Sensitive
Frame Rate	50 Hz	Pixel Size	12μm
NETD	≤30mk		

## Optical Characteristics

Objective Lens	50mm	Magnification	2.5X
Digital Zoom	1 x/ 2x / 4x / 8x	Eye Relief	50 mm
Dioptrre Adjustment	+5/-5 D	Focus Scope Range	5m-∞
FOV	8.8°X6.6°	Detection Distance (Target Size : 1.7m x 0.5m)	2500m

## Display

Operating Mode	White Hot, Sky Mode, Black Hot, Red Hot, Fusion	Type / Resolution	0.39 inch / OLED / 1024X768
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## Operational Characteristics

3D Gyroscope	Yes	Waterproof Rating	IP66
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Power Supply	3-4.2 V	Battery	18650 /3500mAh
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## Video Recorder

Video / Photo Resolution	1024x768	Video / Photo Format	.mp4 / .jpg
Supported Memory Type	Built-in 32G Memory Card		

## Wifi Channel

Frequency	2.4GHz	Standard	802.11 b/g
WiFi Signal Range	15m		

## Rangefinder

Wavelength	905nm	Max. Measuring Range	800m
Measuring Accuracy	+ /-1m		

# **| Notice!**

## Operating Instructions For Accessories

### **Power Adapter**

Used only to charge batteries equal to or below 5V/2A.

### **Red Laser Pointer Adjustment**

Hold the MENU button to turn on/off the red laser pointer. Adjust the position of the red laser pointer by using an inner hexagon wrench.

### **Connect to a Computer**

Turn off the device and connect to the computer with a Type-C cable. Hold the power button to turn on the device. The computer will read the memory card of the device.

# Sytong

 Sytong Thermal

 Sytonightvision

 Sytong Night Vision

 NSytong

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 <https://www.sytong2013.com>