

# THERMAL IMAGING SIGHTS



## XM SERIES QUICK START GUIDE

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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. Storage Card Compartment
13. Lens Cover	14. Device LED Indicator	15. Battery Cap

# | In The Box

- Thermal Imaging Sight
- Manual
- Mount (with screws and hex-nut wrenches)
- Type-C Cable
- 5V 2A Adapter
- Handbag
- 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 (12) for 3 seconds to power off. The LED indicator will be turned off after power off.  
Hold the power (ON/OFF) button (12) for 1-2 seconds to go into sleep mode. The LED indicator will be red 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: Take a picture.  
Hold seconds: Record a video.



### ↑ 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.  
Long press to turn on or off ranging.

# Menu Functions

Number	Main Menu Description	Sub Menu Description
1	Operating Mode	<p>Options: "White Hot"/"Sky Mode"/"Black Hot"/"Red Hot"/"Fusion" Default mode is "White Hot"</p> 
2	Video Output	<p>The video output function of the CVBS is enabled or disabled</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 "APPshow-XMLRF-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: Off/Zoom 2x/Zoom 4x/Zoom 8x</p>
5	Reticle Type	<p>Options: Off/Select the preferred reticle type from 8 choices</p>
6	Reticle color	<p>Options: Black, white, gray, red, green</p>
7	Reticle Profiles	<p>Select one of the saved profiles (Max. 10 profiles).</p>

8	Reticle Adjustment (Zeroing)	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	Gyro	Options: On/Off
10	Laser Rangefinder Unit	Options: Meter/Yard
11	Laser Rangefinder Mode	1.Single distance measurement 2.Continuous distance measurement
12	OLED Brightness	Options: Super Dark/Dark/Normal/Bright/Super Bright
13	Target Brightness	Options: 1-5
14	Contrast Ratio	Options: 1-10
15	Image Detail Boost	Options: 1-4
16	Date/Time	Move the options by pressing the REC button. Change the value using the UP/DOWN button. Confirm the values by pressing the MENU button. Quit by holding the MENU button.
17	Language	Options: English/Chinese/Other Languages
18	Record Audio	Options: On/Off
19	Format	Options: Confirm/Cancel
20	Auto Power Off	Options: 3 Min/5 Min/Off Default : Off

21	<b>Default Setting</b>	Options: Confirm/Cancel
22	<b>Pixel Fix</b>	Select "Pixel Fix" and press MENU button to get to the sub menu. The lens should be covered with lens cover before performing the pixel fix. Press the MENU button and follow the prompts to fix the bad pixels. After repair, please remember to save it. Navigation key up/down move cursor, power button to switch options, short press M key to save.
23	<b>Image Correction</b>	Enter the menu of image correction. If image correction is required, select and confirm, close the lens cover, and press "M" to correct the background image uniformity. After correction, it will automatically save and exit.
24	<b>BC (Ballistic Calculator)</b>	Select BC and press the MENU button to get to the sub menu: On/Off/Parameter. Select On and press MENU button to turn on automatic BC. Select Off and press MENU button to turn off automatic BC. Note: Please turn on "Laser Rangefinder" before using BC.
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 (4) for 3 seconds to activate the laser rangefinder.
- The rangefinding 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).



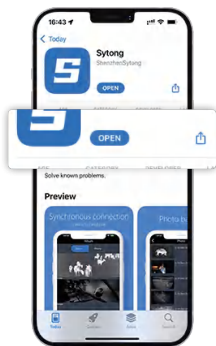
# Installation Of Mount

- 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)".

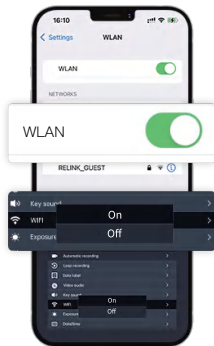
# APP Connection



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



Download the APP



Turn on WiFi on XM and phone



Enter APP



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

# XM03-LRF

## Sensor (Military Grade)

Type	Uncooled	Resolution	384x288 Super Sensitive
Frame Rate	50 Hz	Pixel Size	12μm
NETD	<25mk		

## Optical Characteristics

Objective Lens	F35mm/50mm	Magnification	2.8X/4X
Digital Zoom	1 x/ 2x / 4x / 8x	Eye Relief	50 mm
Dioptre Adjustment	+5/-5 D	Close-Up Range	5m-∞
FOV	7.5°X5.7° / 5.3°X4.0°		

## 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
Power Supply	3-4.2 V	Battery	18650 /3200mAh

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	224X92X69mm	Weight (Without Battery/ Mount)	668g

## Video Recorder

Video / Photo Resolution	1024x768	Video / Photo Format	.mp4 / .jpg
Supported Memoery 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	1200m
Measuring Accuracy	+ /-1m	Detection Distance (Target Size : 1.7m x 0.5m)	1750m/2500m

# **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.

**FCC Warning Statement:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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 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.

#### **FCC Radiation Exposure Statement**

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.



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