

# THERMAL IMAGING SIGHTS



## NM SERIES QUICK START GUIDE

Shenzhen Shi Yutong Technology Co., LTD



1. Objective lens	2. Lens focusing ring	3. Recording button REC
4. Navigation button UP	5. Button MENU M	6. Navigation button DOWN
7. Dioptre adjustment ring	8. Eyeshade	9. Laser rangefinder
10. Laser red dot	11. External rail	12. Power On/Off button
13. Battery pack ring	14. Lens cover	15. battery pack
16. Charging base	17. LED indicator	

## Package Contents

- Thermal Imaging Sight
- Battery Charger
- 5V2A adapter
- Type-c USB cable
- Manual
- Mount(with screws and hex-nut wrenches)
- Battery Pack
- Handbag

## Getting Started

### TURNING ON AND IMAGE SETUP

- Open the lens cover (14)
- Turn the device on with a short press of the ON/OFF (12) button.
- Rotate the dioptre adjustment ring (7) to see crisp image of the icons on the display.
- Rotate the lens focusing ring (2) to see a crisp image of the object observed.
- Select the required operating mode in the main menu(WHITE HOT,TARGET HIGHLIGHT,RED-HOT,FUSION) with a short press of the (4) button.
- Select the required magnification (1x,2x,4x,6x,8x) with a short press of the (6) button.
- Select the required menu items with a short press of (5) button.
- Turn the device off with 3 seconds press of the ON/OFF (12) button.

## Buttons

### Button Legend



#### Power ON/OFF button

Turn the device on with a brief press. Turn the device off with 3 seconds press. With power on, press the power button for 1-3 seconds, the screen will appear sleep icon and the device will go into sleep. Wake up the device with a short press.

[Short press to switch the shutter.](#)



#### Recording button REC

Brief press: Take a picture

Long press: Recording

[Remark: Please turn the camera on before taking pictures or recording.](#)



#### ↑ Navigation button UP

Brief press: Switch menu items upward / Change display mode without menu

Long press: ON/OFF picture in picture



#### Menu button

Brief press: Quick menu access/Confirm selection

Long press: ON/OFF laser pointer/Back to previous menu

With LRF ON: lock/unlock range finding values with a brief press of MENU button.



#### ↓ Navigation button DOWN

Brief press: Switch menu items downward/change set-up zoom without menu

1x,2x,4x,6x,8x

Long press: ON/OFF laser rangefinder

## Menu Functions

Number	Main menu description	Sub menu description
1	Operating modes	Options:WHITE HOT,BLACK HOT,TARGET HIGHLIGHT,REDHOT,FUSION.Default mode is WHITE HOT.
2	Taking photos/ Video Recording	Options:ON/OFF
3	WIFI connection	1.Turn on WIFI both in menu and phone, find Sytong-Thermal and the password is 12345678. 2.Live images can be observed by APP after WIFI connection.
4	Picture in picture	Options:OFF,set-up zoom 2x,4x
5	Reticle type	Options:OFF,select a type from 8 choices
6	Zeroing Profile	Select one of the saved profiles.(Max.10 profiles)
7	Zeroing setup	Freeze the image with brief press of M (5) button. Then move the reticle horizontally or vertically with UP (4) / DOWN (6) buttons until the reticle matches the point of impact. Switch between movement directions of the reticle from horizontal to vertical with a brief press of REC (3) button. Select the target distance and units (yd/m).Save the new position of the reticle with SAVE.The reticle will now move to the point of impact.(The saved zeroing will be named as distance in each profile.)
8	Gyroscope	Options: ON/OFF
9	Distance units	Options:m/yd
10	Rangefinding	Modes: single measure,continuous measure
11	Display brightness	Options:super dark, dark, normal, bright, super bright

12	Target Brightness	Options: 1-5
13	Contrast Ratio	Options: 1-10
14	Image Detail Boost	Options: 1-4
15	Date/Time	Move the options with short press of REC button. Change the option values with UP/DOWN button. Confirm the values with short press of MENU button. Quit with long press of MENU button.
16	Formatting	Enter into sub menu of Format, confirm or cancel with a brief press of MENU button.
17	Languages	Options:Chinese, English, other languages
18	Record Audio	Options:ON,OFF
19	Auto turn off	Options:3MIN,5MIN,OFF
20	Default	Options:confirm, cancel
21	Pixel Cure	Select "pixel cure"and press Menu button to get the sub menu. The lens should be covered by lens cover to cure the bad pixels. Follow the prompts to cure the bad pixels.After repaired , please member to save it.
22	BC	Select BC and briefly press MENU button to get the sub menu:Open/Close/Parameter. Select "open" and briefly press MENU button to turn on the automatic BC. Select "close" and briefly press MENU button to turn off the automatic BC. Select "parameter" and the parameter dialog will pop out. Fill the parameter values and select OK to save. Long press MENU button to quit.
23	Version	

## | Installing The Battery Pack

- Lift the ring(13). Remove the Battery Pack (15)from the charging base.
- Insert the Battery Pack (15) into the thermal imager.
- Fix the battery by rotating the ring (13)

## | Charging the Battery Pack

- Insert the battery pack (15) into the supplied charging base (16) .Close the ring (13) .
- Connect the USB cable to the supplied adaptor then connect to power supply 100V-240V.
- Red LED (17) means charging. Green LED means full charged.

## | Using the intergrated laser rangefinder

- Turn the device on with brief press of the button ON/OFF (12). Activate the rangefinder with long press of Button DOWN (6). A rangefinding indicator (a small box) will appear in the center of the display. Point the rangefinding indicator (a small box) at an object to mesure. Distance value will automatically appear in the top right corner of the display.

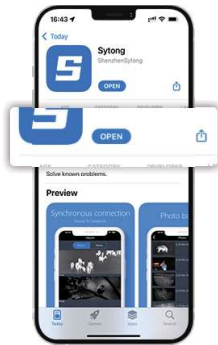
## | Installation of mount

- Attach the mount to the base of the scope using a hex-nut wrech 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 going to legal hunt, please follow instructions in the section “Zeroing”.

# APP Connection



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



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



Enter into the menu and turn on WIFI.



Enter into APP



choose wifi "Sytong ..." to connect WIFI (password: **12345678**)

# NM03

## Sensor (military grade)

Type	non refroidi	Resolution, pixels	384x288 super sensitive
Frame rate	50 Hz	Taille pixels	12µm
NETD	<30mK		

## Optical characteristics

Objective lens	f35/f50 mm, F1.2	Magnification	2.8x/4x
Continuous digital zoom	1 x/ 2x / 4x / 6x/ 8x	Eye relief	50 mm
Dioptre adjustment	+5/-5 D	Close-up range	5m

## Display

Colour Palettes	Black Hot, White Hot, Red Hot, Fusion, Target Highlight	Type / Resolution	0.39 inch / AMOLED / 1024X768
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## Operational characteristics

3D Gyroscope	yes	Waterproof rating	IP65
Power supply	3-4.2 V	Battery	Li-Ion Battery Pack /6000mAh / DC 3.7V

External power supply	5V (USB)	Operating time (at t=22°C)	9 hours
Max. recoil power, Joules	10000	Operating temperature	- 20°C...50°C
Dimensions	305X94X75 mm	Weight (without battery/ mount)	1030g

### Video recorder

Video / photo resolution	1024x768	Video / photo format	.mp4 / .jpg
Memory type	TF card(FAT32), max.128G		

### Wifi channel

Frequency	2.4GHz	Standard	802.11 b/g
Line-of-sight reception range	15m		

### Rangefinder

Wavelength	905nm	Max. measuring range	1800m
Measuring accuracy	+/- 1m		

## NM06

### Sensor (military grade)

Type	non refroidi	Resolution, pixels	640x480 super sensitive
Frame rate	50 Hz	Taille pixels	12µm
NETD	<30mK		

### Optical characteristics

Objective lens	f35/f50 mm, F1.2	Magnification	1.7x/2.5x
Continuous digital zoom	1 x/ 2x / 4x / 6x/ 8x	Eye relief	50 mm
Dioptré adjustment	+5/-5 D	Close-up range	5m

### Display

Colour Palettes	Black Hot, White Hot, Red Hot, Fusion, Target Highlight	Type / Resolution	0.39 inch / AMOLED / 1024X768
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### Operational characteristics

3D Gyroscope	yes	Waterproof rating	IP65
Power supply	3-4.2 V	Battery	Li-Ion Battery Pack /6000mAh / DC 3.7V

External power supply	5V (USB)	Operating time (at t=22°C)	9 hours
Max. recoil power, Joules	10000	Operating temperature	- 20°C...50°C
Dimensions	340X94X75 mm	Weight (without battery/ mount)	1030g

#### Video recorder

Video / photo resolution	1024x768	Video / photo format	.mp4 / .jpg
Memory type	TF card(FAT32), max.128G		

#### Wifi channel

Frequency	2.4GHz	Standard	802.11 b/g
Line-of-sight reception range	15m		

#### Rangefinder

Wavelength	905nm	Max. measuring range	1800m
Measuring accuracy	+/- 1m		

## Attention!

Remind of using accessories

### Power adaptor

Only applicable to charging voltage below **5v/2A**.

### Adjust the laser red dot

ON/OFF laser red dot with a long press of MENU button. The position of the laser red dot can be adjusted by hex wrenches.

**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.**

**This product can only be used in legal fields such as scientific research, observation, emergency search and it is strictly prohibited to be used on illegal purposes. Our company reserves the right to pursue legal liability of illegal users.**



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## INTERNAL IMAGING SIGHTS



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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.

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 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.

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