

# **ACCUFIRE MULTIFUNCTIONAL Day Night SIGHT**

## **NOCTIS TR1**

### Product Specification



---

## ACCUFIRE NOCTIS TR1



---

# Contents

<b>Product Features.....</b>	<b>3</b>
------------------------------	----------

<b>Operating Instructions.....</b>	<b>3</b>
------------------------------------	----------

Unpacking Inspection.....	3
Product Power Supply.....	4
Startup & Shutdown.....	4
Power Button and Knob.....	5
Focus Adjustment.....	5

<b>Interfaces.....</b>	<b>6</b>
------------------------	----------

Home Screen.....	6
Menu Item.....	7

<b>Functions.....</b>	<b>8</b>
-----------------------	----------

Primary Magnification.....	8
Distance.....	9
Sighting Area Magnification.....	9
Zeroing.....	10
Reticle Style.....	11
Sleep.....	12
Range finder.....	12
Day and Night Mode Switching.....	15
System settings.....	15
WiFi Setting.....	15
Factory Reset.....	15
Screen Brightness Setting.....	16
Quick Screen Brightness Adjustment.....	17
Time Setting.....	17
Picture preview.....	17

<b>Mode selection.....</b>	<b>19</b>
----------------------------	-----------

<b>Mobile Application.....</b>	<b>20</b>
--------------------------------	-----------

---

# Product Features

- 1080P HD Video
- High-Precision Trajectory Calculation
- Quick Calibration
- 1-16 Times Smooth Zooming
- Three-Axis Gyroscope
- Three-Axis Accelerometer
- Day and Night Mode Switching
- WiFi Video Image Transmission
- Micro OLED HD Screen Display

Product Specification			
Microphone	Yes	Micro SD card	2-32Gb
Ports	USB type C	battery type	Internal Lithium Battery
Dimensions	360*59*68mm	Weight	36.4 oz/2.3lb
IP rating	IPX4	Battery Life	10 hours
Mounting	30mm Standard Rings	Warranty	2 years

# Operating Instructions

## Unpacking Inspection

Please follow the steps below before using the sight:

1. Take the sight out from the packing box.
2. Check whether there are accessories: sight, light shield, hood, TYPE-C data cable.
3. Before use, please ensure that the surface of the lens is smooth.

---

## Product Power Supply

When the external power supply is used, the external power supply can supply power to the sight and charge the built-in lithium battery at the same time.



## Startup & Shutdown

Start up the device: press and hold the power button until the ACCUFIRE icon appears on the screen.

Shut down the device: press and hold the power button until the screen is turned off.



---

## Power Button and Knob

**Three operating modes of power button:**

Short-press 1 time: take photo

Short-press 2 times: start video

Long-press: startup & shutdown



**Three operating modes of knob:**

Rotate: switch option

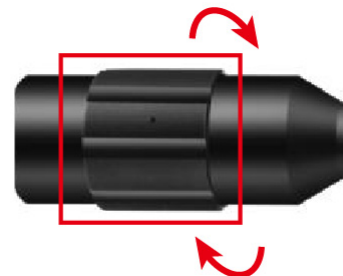
Short-press: enter option

Long-press: enter or quit main menu



## Focus Adjustment

Rotate the focus knob to ensure that a clear picture may be presented at any distance.



# Interfaces

## Home Screen

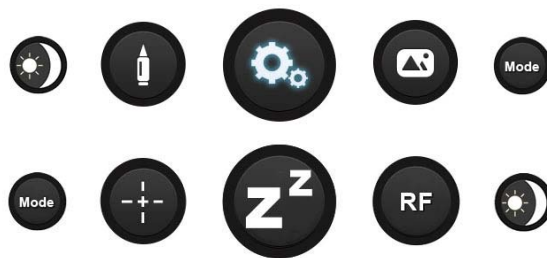










No.	Name	Functions
1	Home screen magnification	Edit and display current magnification of the sight
2	Distance	Edit and display current distance of the target
3	Sighting area magnification	Edit and display current magnification of the sighting area
4	Horizontal trajectory compensation	Edit and display horizontal trajectory compensation at the current distance
5	Vertical trajectory compensation	Edit and display vertical trajectory compensation at the current distance
6	Hunting/observing mode	Switch between hunting and observing modes
7	Pitch angle scale	Display attitude pitch angle scale
8	Roll angle scale	Display attitude roll angle scale
9	Logo	Display product logo
10	Time display	Display cumulative time of video during video, and display the current time during non-video

11	Video indicator	Flicker during video
12	Day and night mode display	Prompt to use day/night mode currently
13	Bullet category	Display the currently used bullet category
14	Battery level	Flicker at low battery level and prompt the remaining time
15	SD card identifier	Indicate whether the SD card exists
16	Wifi identifier	whether the WiFi is opened

## Menu Item

Long-press the knob, and release the knob after the home menu interface appears. There are 7 menu items in total, and various menu items can be cyclically switched by rotating the knob.



Pattern	Description
	Reticle Style 10: click the knob to select the cross division line style
	Sleep: click the knob to make the sight enter the sleep mode and turn off the screen
	Range finder: click to enter the range configuration interface; turn on or off the range function, and select the range target.
	Day and night mode switch: click the knob to switch day and night vision modes
	Bullet type: click and enter the bullet type management interface, you can select, add, and delete bullet lines.
	System setting: click the knob to set the time, battery type, sighting area, wifi, screen brightness and factory reset
	Picture preview: preview the pictures that have been shot.
	Mode selection: select setting to use Traditional mode or Ballistic mode.



# Functions

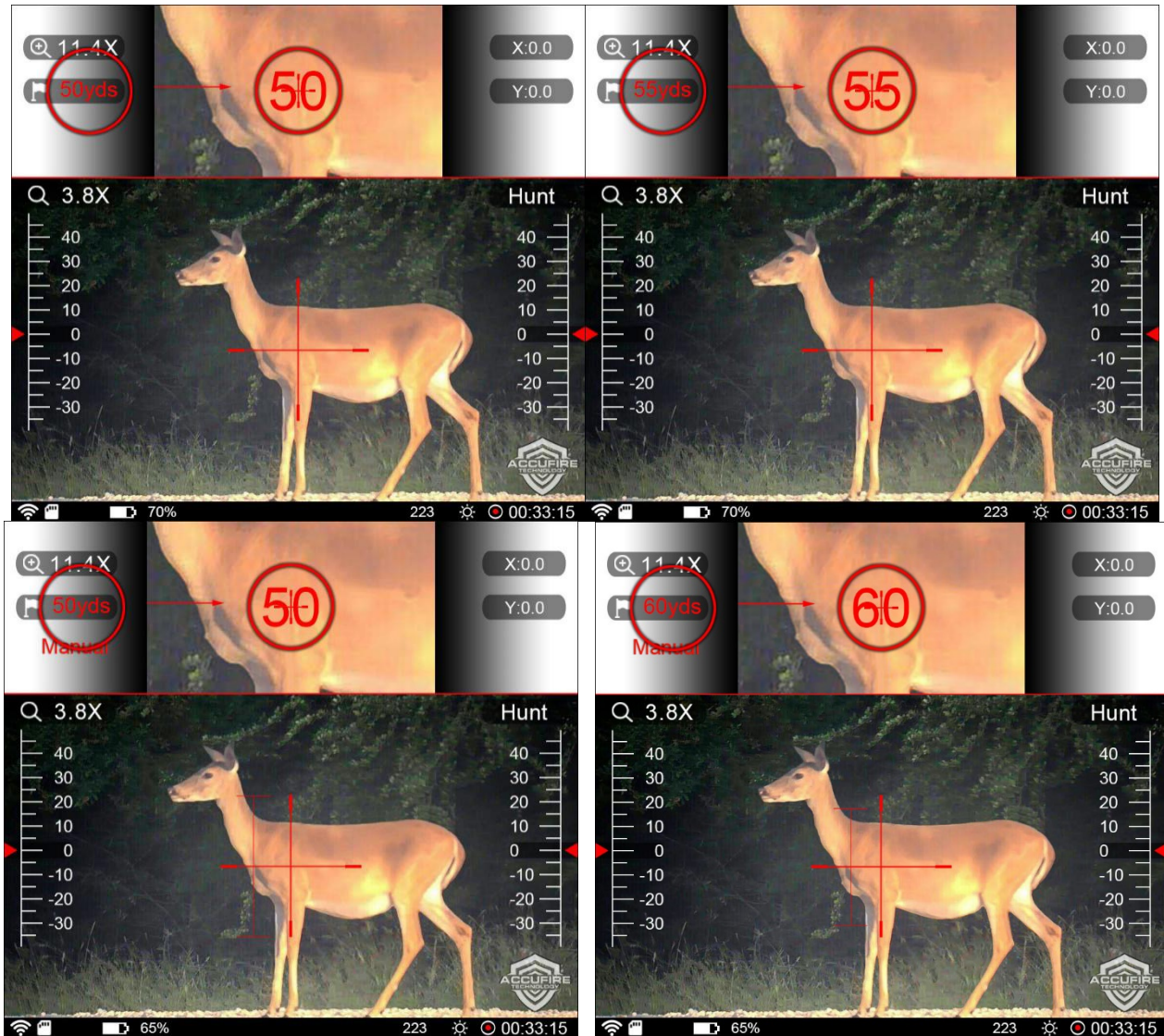
## Primary Magnification

Rotate the knob to select “Primary Magnification”, click to enter the edit mode, rotate the knob to adjust the primary magnification from 1x to 2x to magnify the image, otherwise reduce the image. When the magnification reaches 4 times and above, the sighting crossline will be automatically thickened.



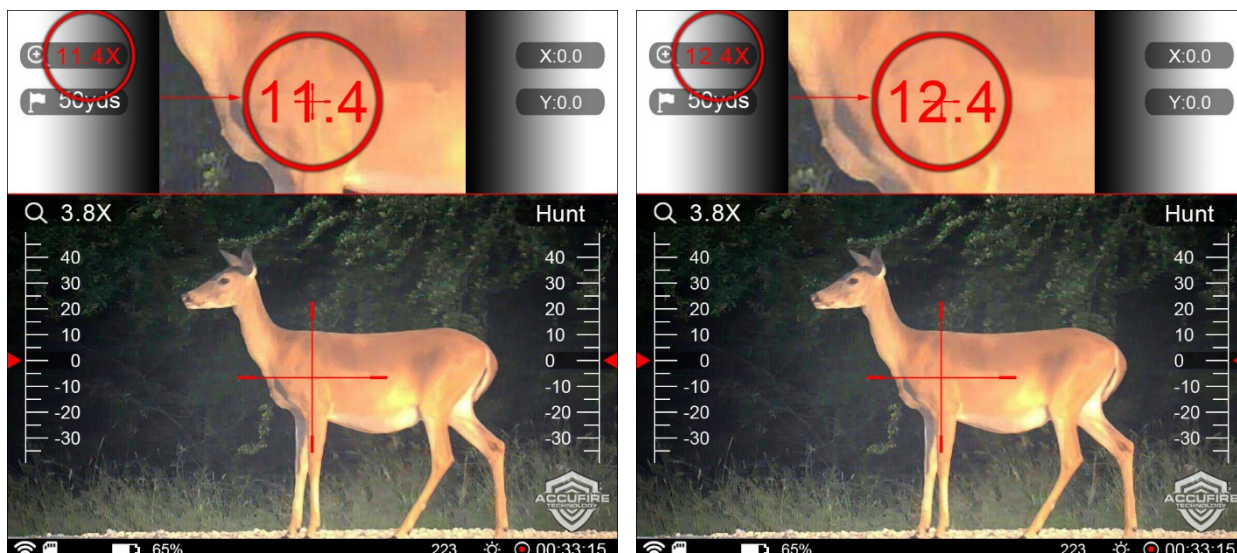
## Distance

Rotate the knob to select the distance option, click the knob to set the distance value, and rotate the knob to increase or decrease the distance value. With the ranging function on, rotate the knob for real-time ranging.



## Sighting Area Magnification

Rotate the knob to select the sighting area magnification option, click the knob to set the sighting area magnification, and rotate the knob to increase or decrease the sighting area magnification.



## Zeroing

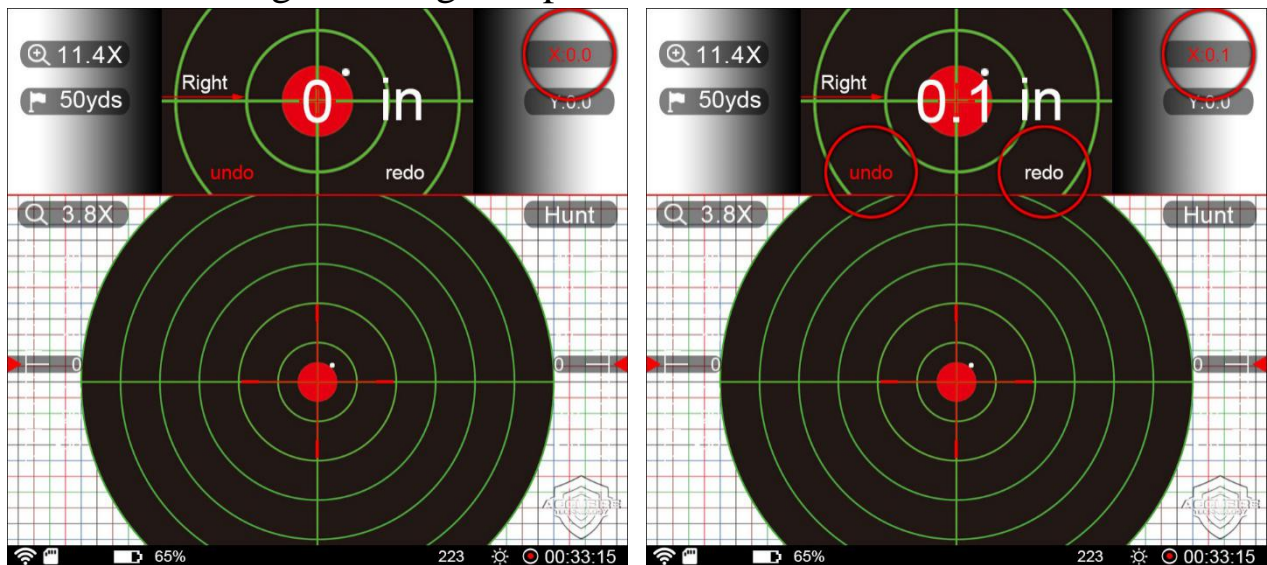
Set up a target at 50 yards and change distance on scope to 50 yards. Fire one shot at 50 yards and record where the bullet strikes the target on the X and Y axis. Input the X value(Inch) of shot into the X setting on the scope and then do same for Y. Fire a second shot after first shot has been entered on scope. If the second shot doesn't direct hit the center of target, record the 2nd shot and enter the coordinates in the X and Y settings on scope again, and then fire the 3rd shot. Continue these steps until your bullet strikes the center of target.

Once zeroed at 50 yards, adjust the target to 100 yards and change distance on scope to 100 yards, and repeat above steps until you strike center of the target.

During the zeroing process, input the correct value according to the deviation position of the impact point. When the value is input, the interface indicates that the direction of the input value is in the target

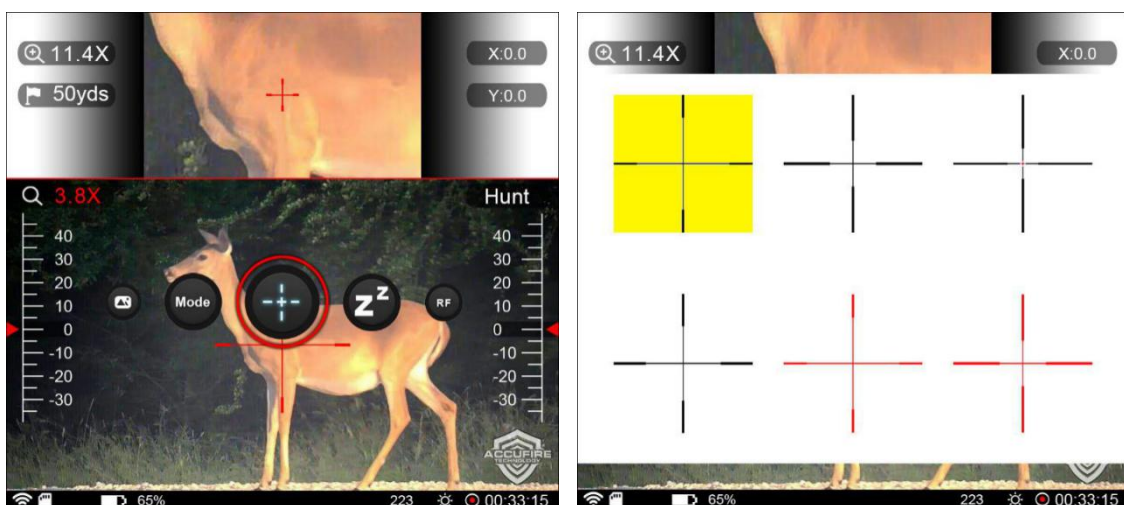


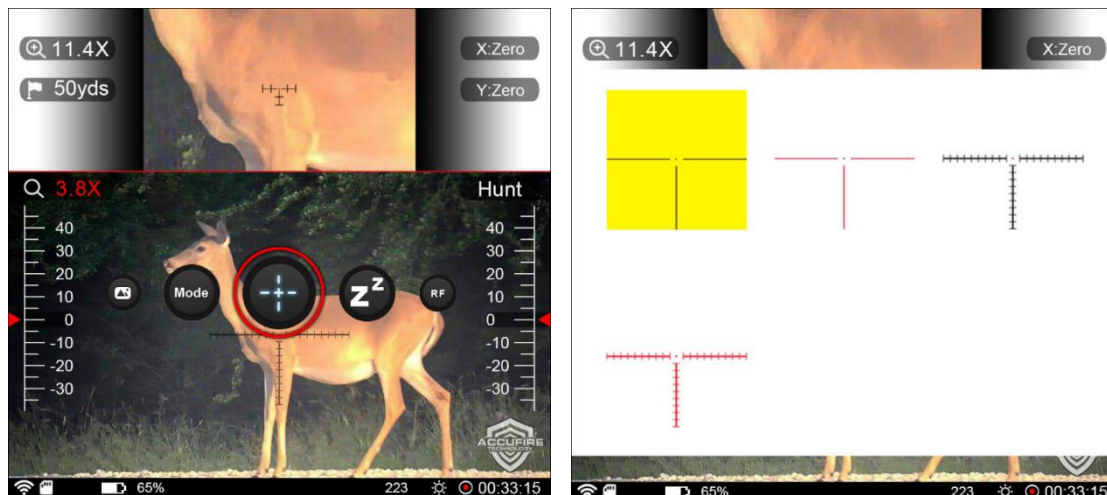
center, including Left, Right, Up and Down.



## Reticle Style

Enter the home menu item, select the reticle style, Enter the cross pattern in the main menu, rotate the knob to select the cross, click to enter the cross selection interface, rotate the knob to switch the cross pattern, click to select and return to the main interface. At this point, if the ranging function is enabled, the color of the ranging ruler line and the selected cross color will be automatically switched to the same; in the cross selection interface, if you do not make any selection on cross pattern, long press to exit.





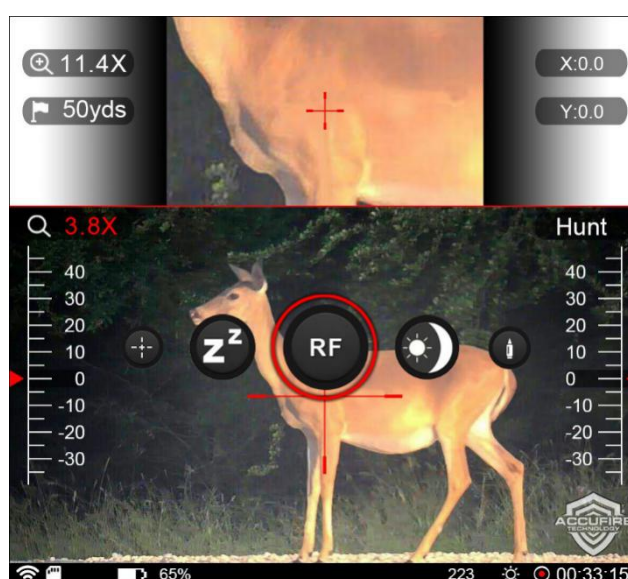
## Sleep

Enter the home menu item, select the sleep icon, and click the knob, the sight enters the sleep mode, and in the sleep mode, quits the sleep mode by clicking the power button.



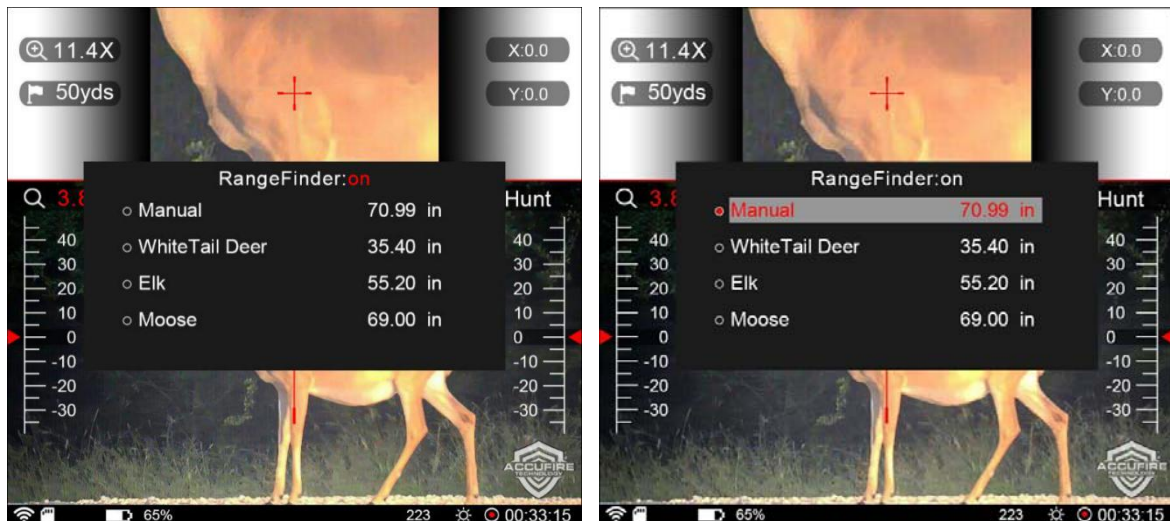
## Range finder

Click the ranging icon.

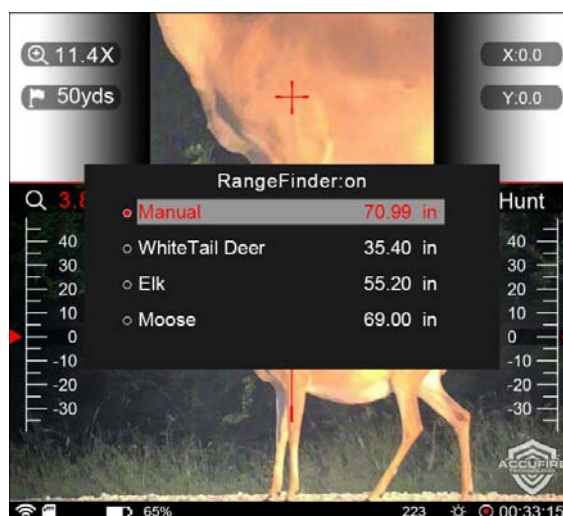


Click “ranging” to display the setting interface. Click “off” to switch to

“on” and display the height list of the target object, and the unit is inch.  
 “Manual” means to set manually which is used when the target object is not in the list; there are data of various targets, which can be chosen through knob switch.

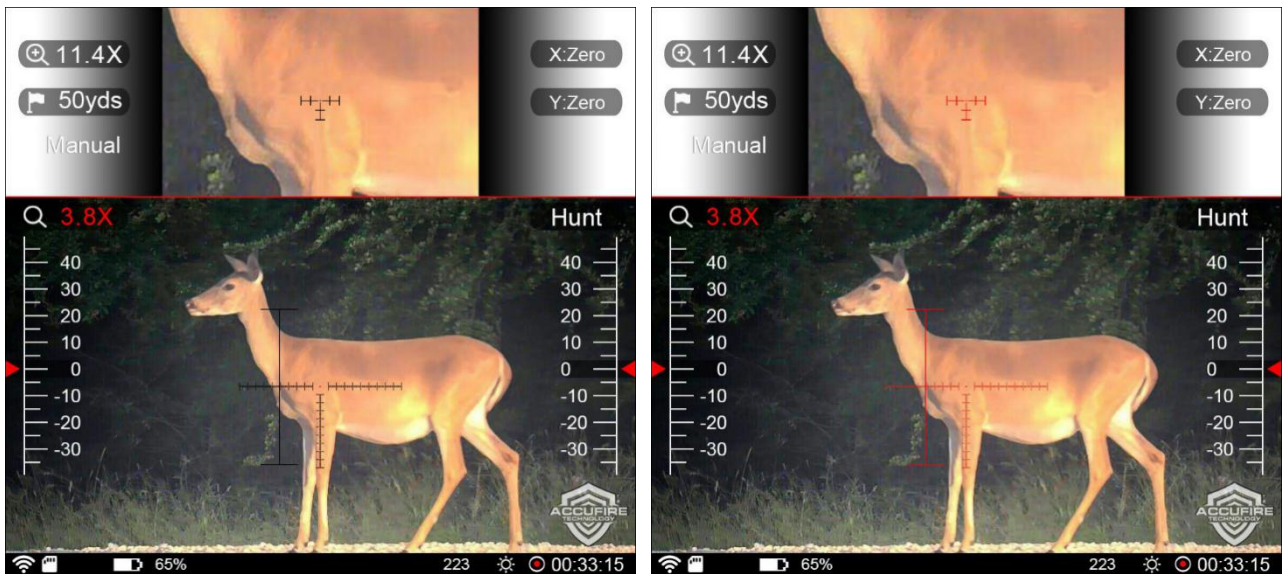


Click the selected record and check the selection box to display. At this time, the parameter value can be modified by rotating the knob. After modification, if you do not want to select the target, click exit selection. In the check state, the long press means to select the target and to return to the home screen; in the ticked state.

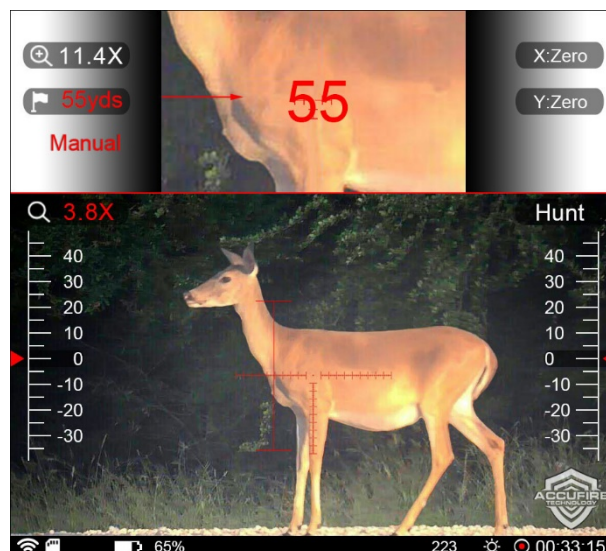




Distance measuring ruler. When measuring distance, the inner edge of the ruler line is used to match the bottom and top of the object. The color of the ruler line is used to match the bottom and top of the object. The color of the ruler changes with the color of the cross; this function is effective both in dense bit mode and automatic computation mode.

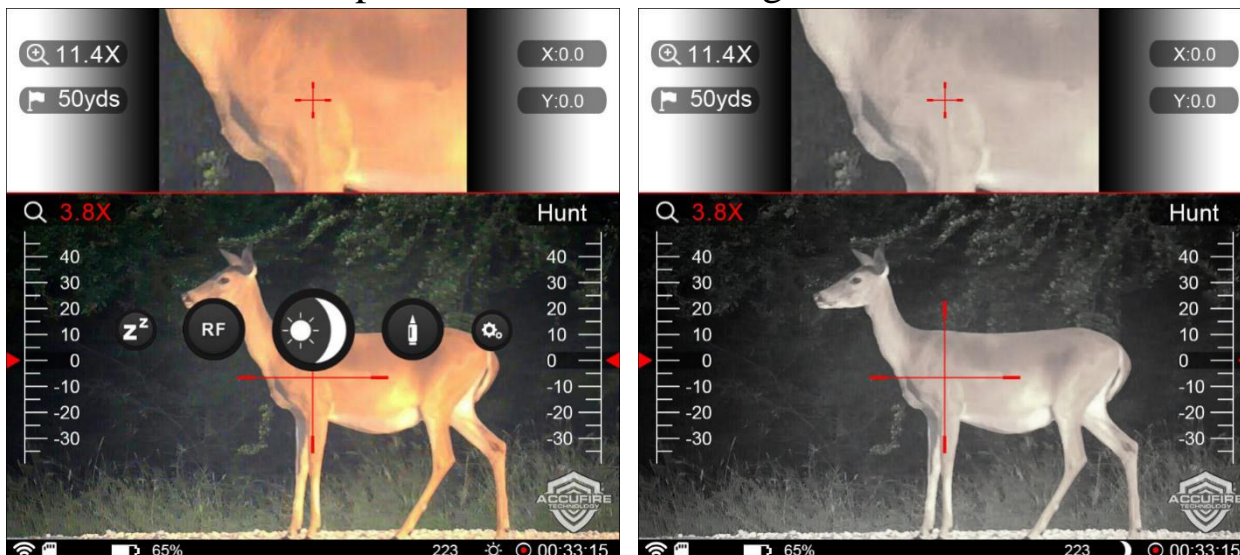


After returning to the main interface, click the distance option and turn the knob to start the distance measurement.



## Day and Night Mode Switching

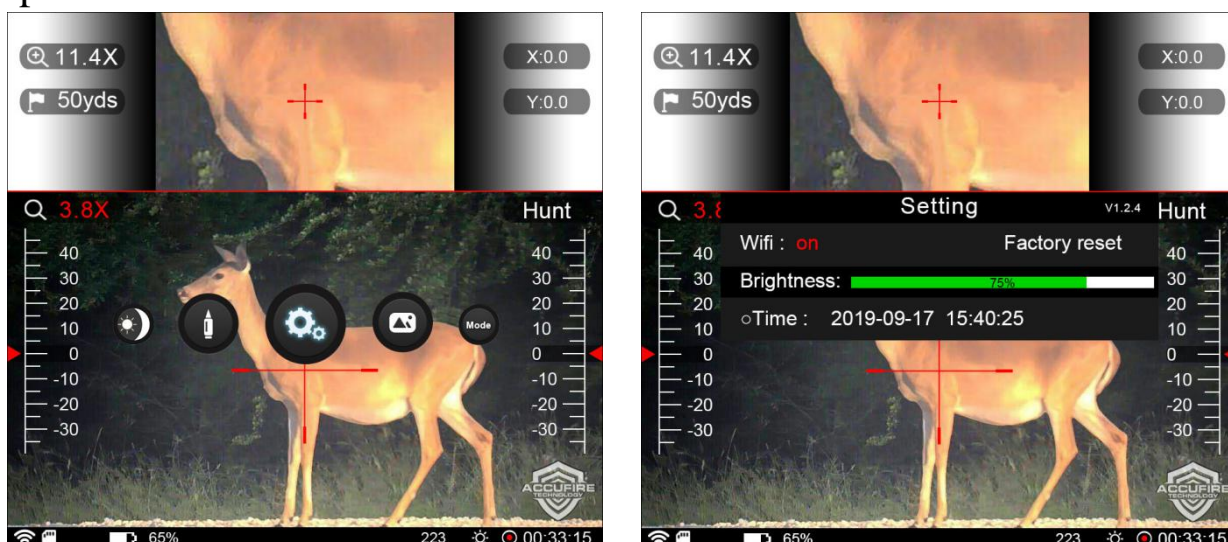
Enter the home menu item, select day and night mode switching, and click the knob to complete the mode switching.



## System settings

### WiFi Setting

Open the WiFi or close the WiFi.



### Factory Reset

Click the knob, pop-up the prompt box, select “accept” to ensure that the

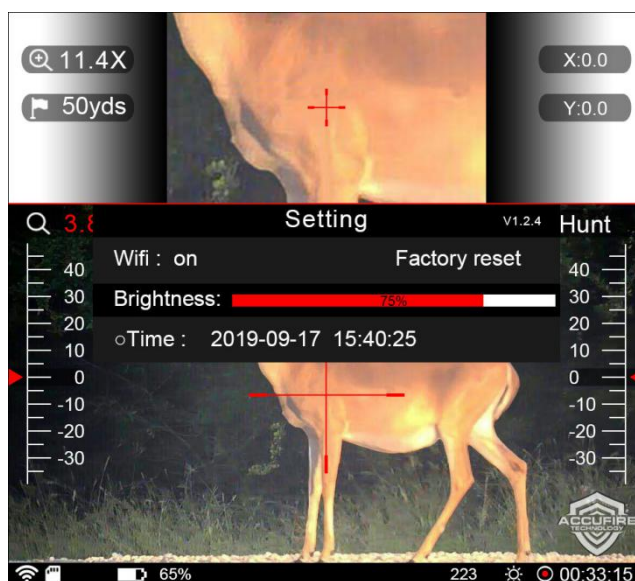


sight restores the factory settings, and select “Ignore” to ensure that it quits the current operation.



## Screen Brightness Setting

In the system setting option, rotate the knob to select “Brightness”, click the knob to enter the adjustment status, and rotate the knob to adjust the screen brightness. Screen brightness levels are 1%, 2%, 3%, 4%, 5%, 6%, 7%, 8%, 9%, 10%, 15%, 20%, 25%, 50%, 75% and 100%.

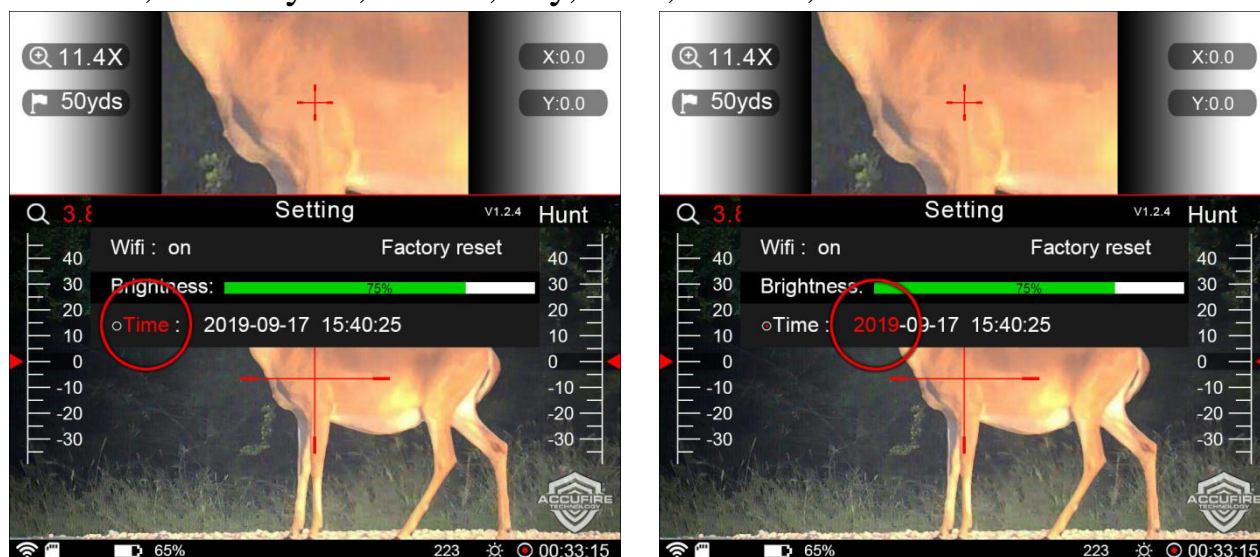


## Quick Screen Brightness Adjustment

In the home screen, long-press the knob to pop up the home menu interface, and at this time, long-press and hold the knob for 2 seconds to enter the quick screen brightness adjustment mode, and rotate the knob to adjust the screen brightness. After the screen brightness adjustment is completed, long-press the knob to quit the quick screen brightness adjustment after about 3 seconds.

## Time Setting

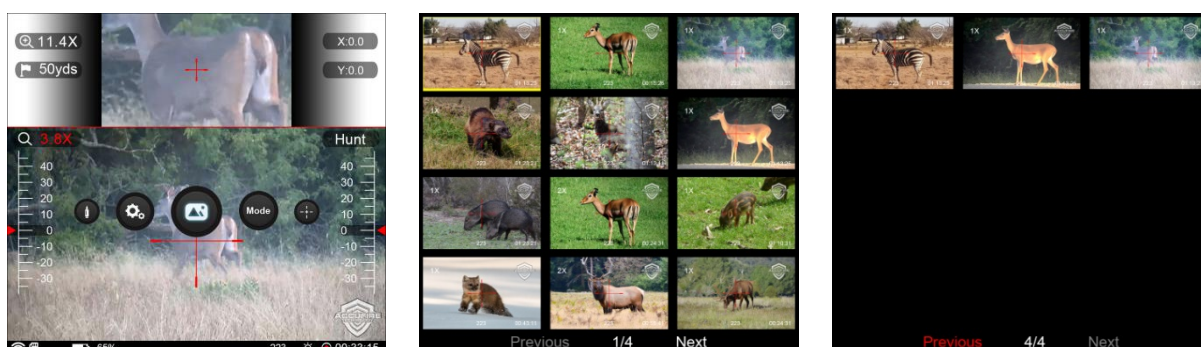
In the system setting option, rotate the knob to select the “Time” option, click the knob to enter the time setting. Rotate the knob to select the position to set the time, click to enter, rotate the knob to increase or decrease the value, and click again to quit the setting of this time position. As such, set the year, month, day, hour, minute, and second in this order.



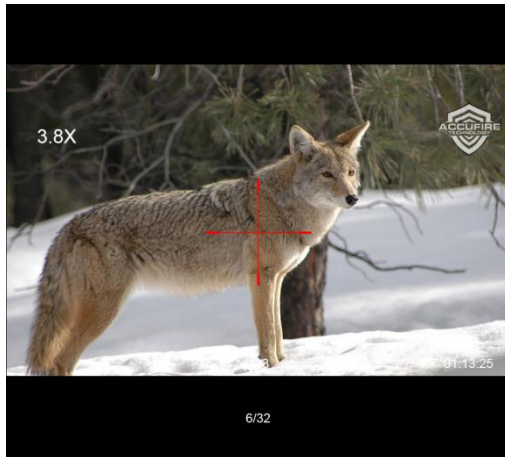
## Picture preview

Long press the knob and the main menu pop up; select the picture

preview icon, and click. If the SD card does not exist or there is no picture, it will prompt “No Picture”. If there is, it will enter the Picture list and the pictures will upload in sequence; before the uploading is finished, the button operation cannot be conduct. In the picture list, a maximum of 12 thumbnails can be displayed at one time, with 3 labels at the bottom of the picture, i.e. “Previous”, “Next” and “current page/total pages”. Click “Previous” to go to the Previous page, and click “Next” to go to the Next page. If the current page is the first page, “Previous” is the gray unclickable state; if the current page is the last page, “Next” is the gray unclickable state.



Rotate the knob and select the picture. The background of the selected picture is yellow. Click the knob to display the large picture. In the big picture preview interface, the picture is displayed in the center, and the label at the bottom shows “the current picture/total number of pictures”. In the big picture preview interface, rotate the knob to switch the picture preview.



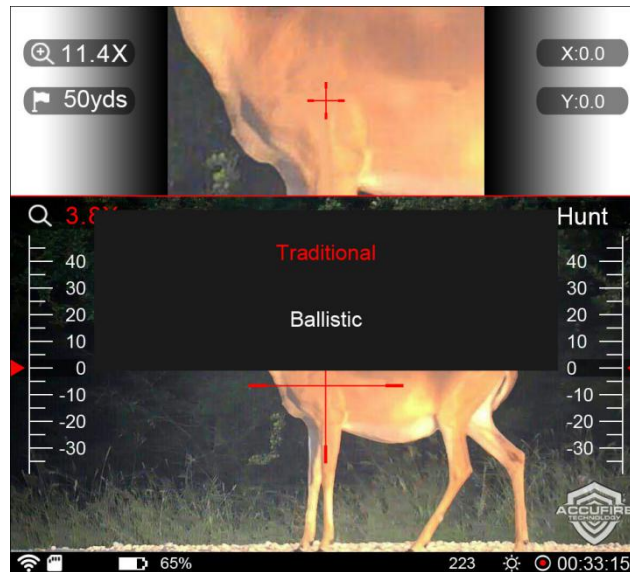
In the picture preview interface, long press the knob to return to the picture list interface. In the picture list interface, long press the knob to return to the main interface. In the Picture list screen or the big Picture preview screen, if you pull out the SD card, it will prompt “No Picture” to exit the preview and return to the main screen.



## Mode selection

Click the mode selection menu, the mode selection interface will pop up; turn the knob to switch and select, and click ok to change the mode. If you do not want to set the mode, long press to exit.





## Mobile Application

THERE WILL BE BRIEF INTRODUCTION AFTER OPENNING THE APP.

- Click the menu button in the upper left corner and select “NOCTIS TR1”。
- Click “Connect Device” on the home page to enter the live preview interface. If the hotspot exists and is successfully connected, the live view will be displayed.



Figure 1

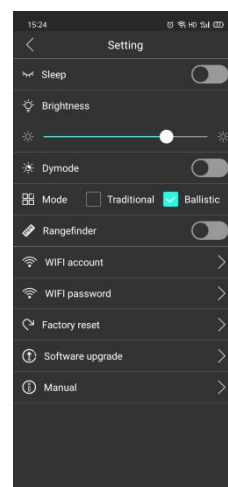
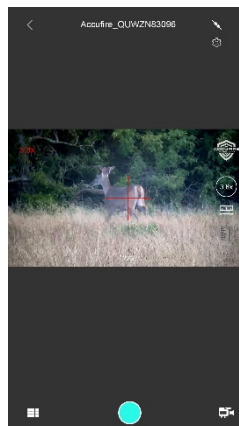
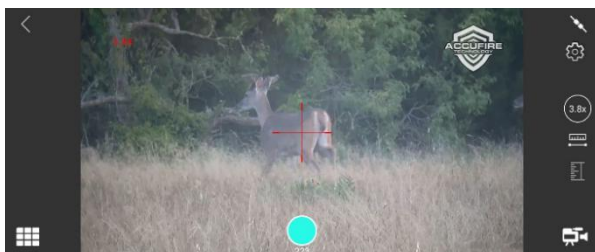




Figure 2


- App can switch between horizontal screen and vertical screen. You need to turn on the automatic rotation function in the mobile phone.




Real-time preview page. The page shows the views from camera in real time.

 **Function setting :** operation setting, various functions of the sight, including sleep, screen brightness, day and night mode, use mode, ranging switch, WiFi name, WiFi password, factory reset, sight software update and user manual download.

 **Magnification setting :** operation setting, real-time magnification of sight.


 **Ranging,** operation, distance measurement.

 **Video/Photo switching.**

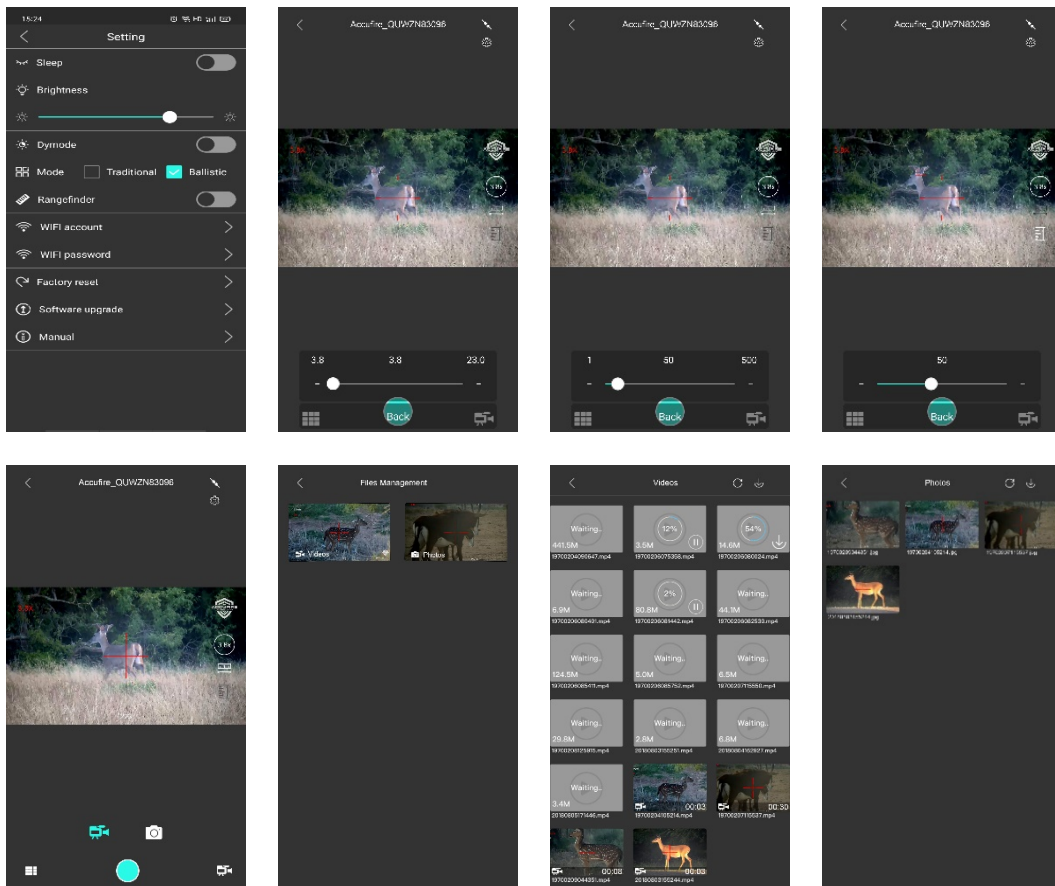
 **Video/photo file management menu.** After clicking, it will go to the page as shown in Figure 4.

 **Start video/take photo**


 **Connection status indicator**

When the connection is normal, it will show .

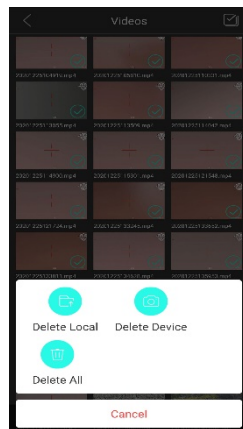
When the connection is abnormal, it will show .




The functions of video file management:

- Download all video files: it will download all the video files when clicking .
- Download one video file: it will download a single file when you click an un-downloaded video file.
- Resume download: it will resume the download when clicking a pause download video file.
- Video playing: when clicking a downloaded video file, it will go to the video play page as shown in figure 7.

- 
- Video clipping: In figure 7, after clicking the “Clip” button, it will go to the clipping page as shown in figure 8.
  - Delete video file: when long-pressing any one video file, it will switch to the video choose status. You can choose all files when clicking the top-right button, or a part of files when clicking each file which plan to delete. After clicking the “delete” button on the bottom, all the chosen files will be deleted.



The functions of photo management:

- Download all photos: it will download all the photos when clicking 
  - Download one photo: it will download a single photo when you click an un-downloaded photo file.
  - Delete Photo: the operation is as same as deleting video file.
  - Photo sharing.
1. Video clipping: you can clip any one downloaded video file after clicking it on video play page. The clipping page is as shown in figure 8. The minimal of video file is 3s, and the maximal is 15s. You can choose the time duration based on the start and end indicator on the bottom of page.



- 
2. After choosing the start and end time, you can click “next” button to go to the sharing page. The sharing target button is on the top-right of page as shown in figure 9. Currently, there is a support for sharing it to YouTube and Facebook.

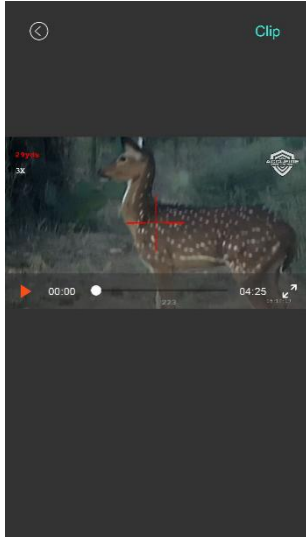


Figure 7

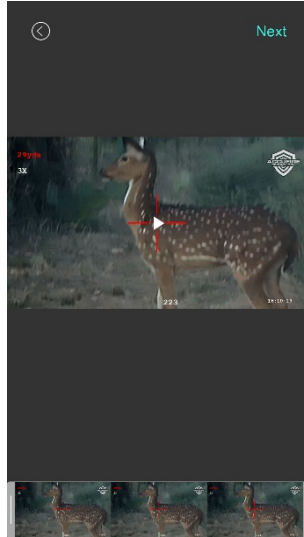


Figure 8

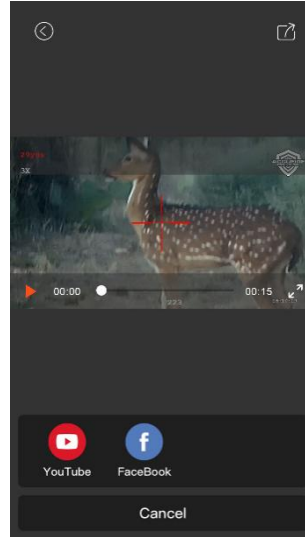


Figure 9

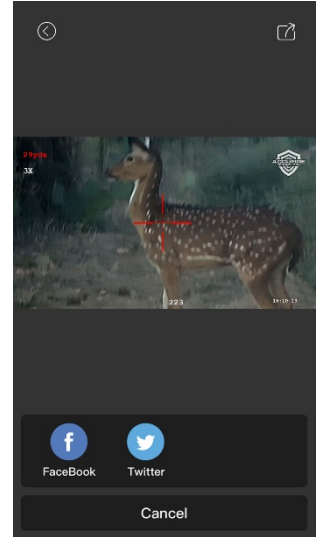


Figure 10

Photo sharing: you can share any one photo when clicking it on the photo management page, the sharing page is as shown in figure 10. Currently, there is a support for sharing it to Facebook and Twitter.

### **FCC STATEMENT :**

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.

**Warning:** 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.

**FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

### **SAR Information Statement**

The product is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health. The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. Tests for SAR are conducted with the product transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the product while operating can be well below the maximum value. This is because the product is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output. Before a product model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model product when tested for use worn on the body, as described in this user guide, use at the body is 0.246W/kg .

(Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various product and at various positions, they all meet the government requirement for safe exposure. The FCC has granted an Equipment Authorization for this model product with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model product is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on.

**FCC ID:** 2AYNU-NOCTISTR1 Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site at <http://www.wow-com.com>. \* In the United States and Canada, the SAR limit is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

### **Body-worn Operation**

This device was tested for typical body-worn operations. To comply with RF exposure requirements, a minimum separation distance of 0mm is used between the user's body and the handset, including the antenna. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.

## **FCC STATEMENT :**

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.

**Warning:** 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.