

# CRONUS ATS THERMAL SCOPE

50-640 | 50-400 | 35-400



**RETICLE MANUAL** 

athlonoptics.com

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#### **DISCLAIMERS**

This product is for civilian use only and shall not be used for infringing the rights of third parties, medical, safety equipment or other applications where product failure may cause danger to life or personal injury. In the event of a conflict between the foregoing and applicable law, the law shall prevail.

#### **IMPORTANT INSTRUCTIONS**

This manual is a general manual for a series of products, which means that the product of a specific model you receive might differ from the picture herein. Please refer to the actual product received.

This user manual is prepared for the convenience of users to use and know our products. We have tried our best to ensure the accuracy of its contents, but we are still unable to guarantee its completeness since our products can be continuously updated and upgraded. Athlon Optics reserves the right to modify the manual at any time without notice.

#### **CAUTIONS**



#### **DANGER**

- 1) Please charge the battery with the method described in this guide and follow the charging procedure and precautions. Improper battery charging will cause heating, damage and even physical injury.
- 2) Do not try to open or disassemble the battery at any time.
- 3) The internal battery can only be charged through the USB-C port and the external battery does not charge the internal battery. The optic draws current from external battery first and the internal battery when external one runs out power.

#### A

#### WARNING

- 1) This scope contains advanced electronics. To prolong the life of this optic, avoid any undue physical damage or violent actions.
- 2) Do not use or store the equipment in an environment that exceeds the allowable operating or storage temperature.
- 3) Do not directly aim the equipment at high-intensity thermal radiation sources, such as the sun, lasers, spot welding machines, etc.
- 4) Avoid allowing debris to enter any ports in this optic.
- 5) Do not knock, throw or vibrate instruments and accessories to avoid damage.
- 6) Any modification, alterations or attempts to dissassemble this scope will void the user's warranty. All repairs must be made through Athlon Optics.
- 7) Avoid contaminating this scope with oils or solvents.
- 8) Please observe the following measures when wiping this Scope:
- · Non-optical surface: Use a clean and soft cloth to wipe the non-optical surface of the thermal scope.
- · Optical surface: When using the thermal scope, avoid contaminating the optical lens surfaces of this scope. Avoid touching the objective lens with your hands. Oils and solvents can degrade the lens coatings. When the surface of the optical lens is polluted, use special lens paper to wipe it carefully.
- 9) Do not place the battery in a high temperature or near a high-temperature object.
- 10) Do not short circuit the positive and negative poles of the battery.
- 11) Do not expose the battery to moisture or water.
- 12) Only use the original chargers and adapters provided with this scope.

#### **CHAPTER 1 - PRODUCT INTRODUCTION**

Athlon Optics thermal scope retains the appearance of a traditional daylight scope and perfectly incorporates latest premium thermal imaging technology. The design of this scope accommodates traditional hunters' habits of handling the scope and rifle. ATS series adopts  $400 \times 300/640 \times 480~12~\mu m$  high- sensitivity thermal detector with two different lens options of 35mm, 50mm, and its 10 sets of zero profiles that make it convenient to switch between different calibers of rifles.

#### **CHAPTER 2 - STORAGE AND TRANSPORTATION**

In order to prevent danger and property loss, please read this manual carefully before using the scope and strictly abide by it during its use.

#### STORAGE

- 1) The packaged product shall be stored in well-ventilated and clean rooms at -30°C 60°C, without condensing or corrosive gas, under relative humidity of no more than 95%.
- 2) Please regularly charge it every 3 months.

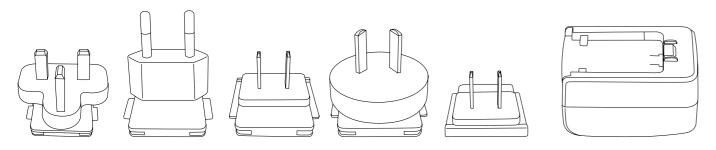
#### TRANSPORTATION

The product shall be protected from rain and water. This optic contains advanced electronics. To prolong the life of this optic, avoid any undue physical damage or violent actions.

#### **CHAPTER 3 - LIST OF ITEMS**

#### **CHAPTER 4 - TECHNICAL SPECIFICATION**

#### Standard items include



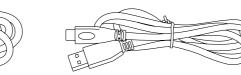
EU/CN/UK/US/AU PLUG

POWER ADAPTER



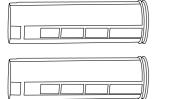
PICATINNY SUPPORT

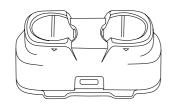


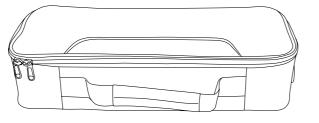


MICRO HDMI CABLE

TYPE C CABLE





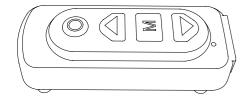


**BATTERY** 

CHARGER

**CARRYING BAG** 

#### Optional accessories



REMOTE CONTROL

Product Name		Thermal Imaging Riflescope		
Model		35 - 400 50 - 400 50 - 640		50 - 640
	Total Resolution	400×300 640×480 @12μm @12μm		640×480 @12µm
Datastan	Scope Material		Aluminum	
Detector	Effective Resolution	400>	×300	640×480
	Spectral		8-14µm	
	Focal length	35mm F1.0	50mm F1.0	50mm F1.0
Lens	Focusing		Manual	
	FOV	7.8° × 5.9°	5.5° x 4.1°	8.8° × 6.6°
Imaga	Frame Rate	50Hz		
Image	Electronic Amplification	1x - 4x 1x - 8x		1x - 8x
Power	Battery	1×18650 (Interna	al) + 2× Customized Ba	attery (External)
rowei	Charging		Chargeable, USB-C	
	USB	i i	er the Scope and charg al battery; can transmi	
	Video Interface		Micro HDMI	
Scope	WIFI	Realtime video transmission, 2.4G frequency range,		quency range,
Interface	Bluetooth	Bluetooth remote control, which can connect to Scope for wireless control		
	External Extension	External monitor through USB-C		SB-C
	Tube Diameter	30mm		

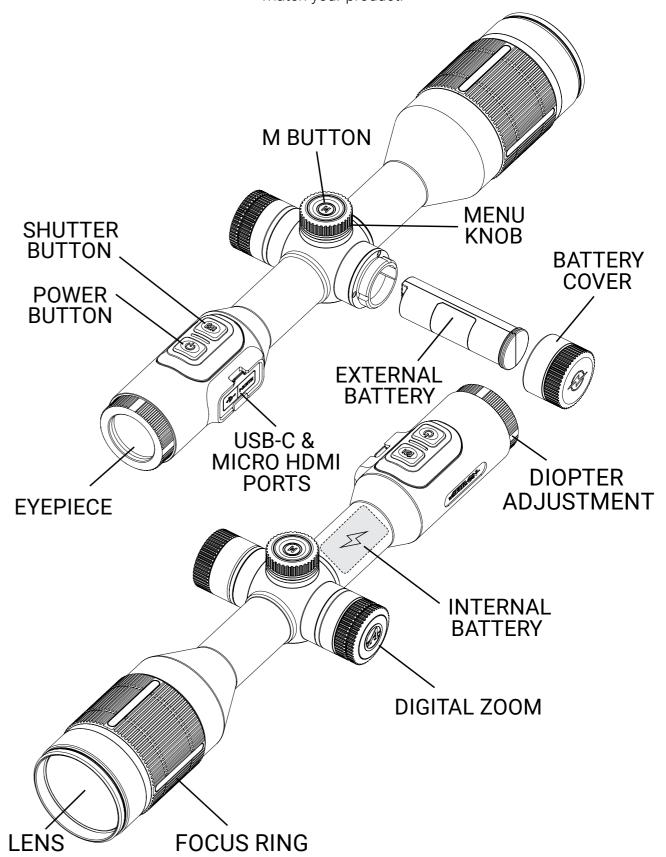
Product Name		35 - 400 50-400 50-640		50-640
	OLED	0.39 Inches OLED		
	Resolution	1440x1080,Full screen display -4 - +4		
	Diopter			
Display	Distance of exit pupil		48mm	
System	Diameter of exit pupil		8mm	
	Eyepiece magnification		14×	
	Scope Magnification	2.3x - 9.2x	3.2x - 12.8x	2.8x - 22.4x
	Video Output Standard		HDMI	
	Power on/off		Yes	
5	Menu knob (pressable)	Yes		
Button	Photo/Recording	Yes		
	Zoom-in knob		Yes	
	Linear Magnifying	Yes		
	Screen Brightness	5 levels		
	Detector Brightness		10 levels	
	Detector Contrast		10 levels	
	Image Enhancement		Yes	
Function	Scene Mode	Enhanced, Detect, Standard		ard
	Stadiametric Rangefinder		Yes	
	Eco Mode		Yes	
	Photo Capturing		Yes	
	Video Recording	Yes, through both Scope and APP		J APP

Product Name		35-400 50-400 50-640		50-640
	Video Recording with Audio  Video Recording with yes, through APP only			
	Color Palettes	White Hot, Black Hot, Adjustable Red Hot, Green Hot, Iron Red, Blue Hot		
Hotspoting Track		Yes		
	Compensation Mode	Scene Comp	pensation / Shutter Cor	mpensation
	Automatic Power-off	Off, Automa	tic power-off in 15/30/	60 minutes
	Auto Sleep	Off, Au	to sleep in 5/10/15 mi	nutes
	Charging Indicator Light	Light tha	t indicates if scope is o	charging
	Language Settings	English/F	rench/German/Italian/	/Spanish
	Time Settings		Yes	
	Watermark Settings		Yes	
Function	PIP	Upper Left/Upper Middle/Upper Right, Close		ght, Closed
(Continued)	Restore Default		Yes	
	Internal Memory	Yes, can	be formatted (64GB ca	apacity)
	Unit of Measurement		Meter/Yard	
	Bluetooth		Yes	
	Zero Setting		/100m/200m/300m/50 y/100y/200y/300y/500	
	Reticle type		10 types in total	
	Reticle color	Black/V	Vhite/Yellow/Green/Re	ed/Blue
	Reticle Brightness		10 levels	
	One Shot - Zero in		Yes	
	Screen Freeze for Zero in		Yes	
Firmware Upgrade Yes				

Product Name		35 - 400	50 - 400	50 - 640
System	Power-on Time	≤12s@25°C		
	Working Temperature	-30°C 50°C (external power supply only below -20°C)		y below -20°C)
	Storage Temperature		-45°C - 70°C	
	Humidity	10	0% - 95% no condensin	g
Environment Adaptation	Impact	800G/1ms 10Hz - 150Hz - 10Hz 0.15mm IEC60068-2-6 of IP67		
	Vibration			:60068-2-6
	Dust-proof / Water-proof			
	Certificate	RoHS	S, CE, FCC, UKAC, UN 3	38.8
	Items Included	Thermal Scope, USB-C cable, Eyepiece Rubber Cover, 5V2A adapter (US/EU/AU/EU), External Battery ×2, Battery charger, micro HDMI video cable, Scope Ring, Manual, Warranty Card		<2, Battery charger,
Package	Color	Black		
Weight 35.3 oz				
	Dimensions	14.3" x 4.2" x 2.7"		14.7" x 4.2" x 2.7"

#### **CHAPTER 5 - PRODUCT COMPONENTS**

This manual is applicable to many models of this series, and the illustration may not perfectly match your product.



#### **CHAPTER 6 - OPERATION INSTRUCTION**

#### **6.1 QUICK START**

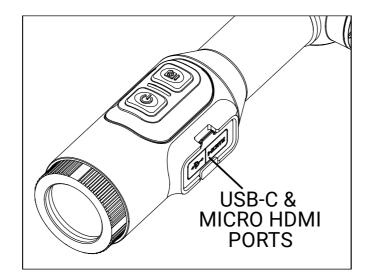
#### **6.1.1 USB TYPE C & MICRO HDMI**

#### **· USB TYPE C INTERFACE**

The external port with USB cable can be connected to the external power supply to charge the internal and external battery of the product. The output of the external power supply is 5V2A.

#### MICRO HDMI

A micro HDMI to HDMI cable can be connected to the optic to provide a live feed to an external monitor equipped with HDMI.



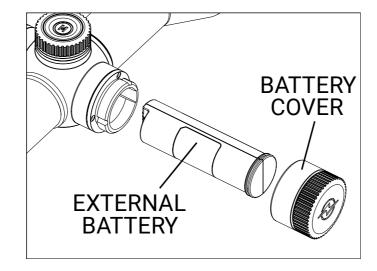
#### **6.1.2 POWER SUPPLY**

#### POWER CHARGING

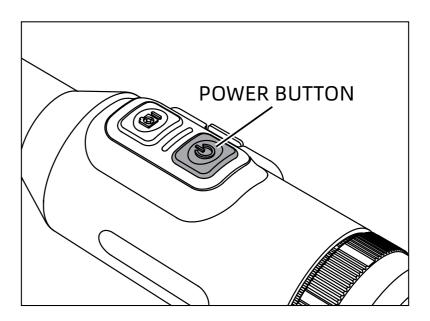
When using the product for the first time, be sure to charge the Scope for at least 4 hours. When charging, please leave the USB cover open, use the provided Type C USB charging cable and power adapter. The charging indicator light stays red, then turns green when charging is completed.

#### BATTERY COVER

To install or remove the battery, please remove the battery cover on the right side. Please insert the battery in the direction shown in the figure, do not force the battery in.



#### **6.1.3 POWER BUTTON**



#### - POWER ON

Long press and hold the power button until the startup picture appears in the eyepiece. If internal battery is completely discharged, the Scope can not be turned on with external battery only, and can be turned on with external power supply through USB-C port.

#### POWER OFF

- a. Manual power-off: long press and hold the power button, the power-off progress bar will be displayed, and the power-off is completed after the progress bar is finished.
- b. Automatic power-off: in the set automatic power-off time, without any button operation, the scope will power down.

#### · DISPLAY ON

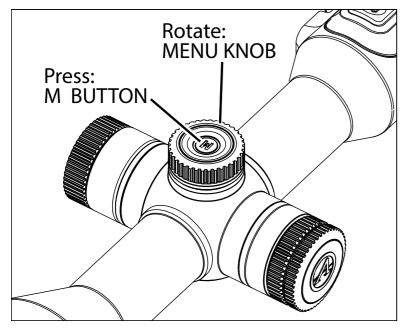
In display off mode, press any button to wake the screen.

#### DISPLAY OFF

Press and hold the power button, the progress bar of power-off will be displayed. Before the progress bar is finished, release the power-off button to cancel the power off process and activate the display off mode.

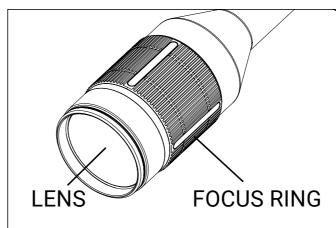
#### **6.1.4 LANGUAGE SETTINGS**

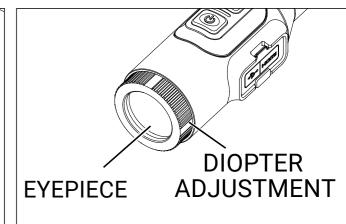




When the scope is powered on for the first time to select the language, rotate the "Menu Knob" to scroll up and down to select the language; Short press the "M Button" to confirm the language selection and jump to the Home interface; long press The "M Button" to return to the language scrolling selection.

#### **6.1.5 FOCUSING**





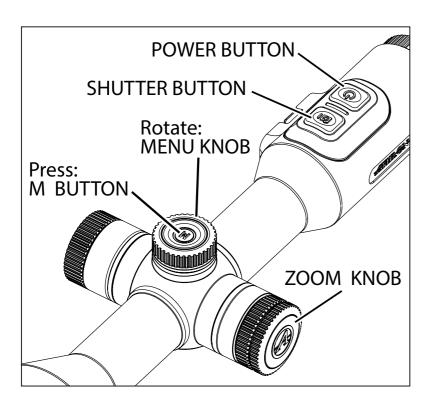
#### - DIOPTER ADJUSTMENT

After the thermal scope is powered on, rotate the diopter adjustment knob to correct differences for each individual's eye sight until a clear image is observed.

#### · FOCUS

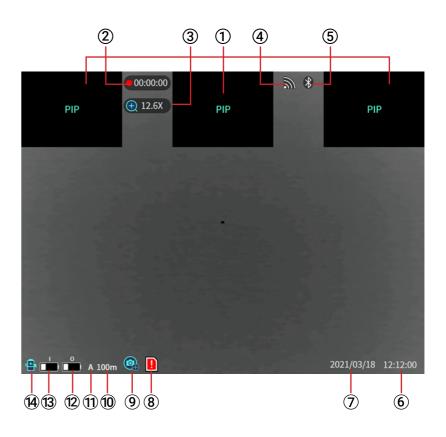
After the thermal scope is powered on, rotate the focus ring until the target image becomes clear. Repeat this step when distance to the target changes.

#### **6.2 BUTTON DESCRIPTION**



Button	Current device status	Rotation	Short Press	Long Press
	Power on	/	Compensation	Display off/Power Off
Power Button	Power off	/	/	Power on
	Display off	/	Display on	/
Manu Knah	Menu not activated	Switch to color palettes	/	/
Menu Knob	Menu activated	Toggle options	/	/
M Button	Menu not activated	/	Shortcut menu	Main Menu
	Menu activated	/	Select current option	Return to previous option
Zoom Knob	Menu not	Zoom	/	/
	activated	/	Quick Zoom	/

#### **6.3 HOME SCREEN LIST**



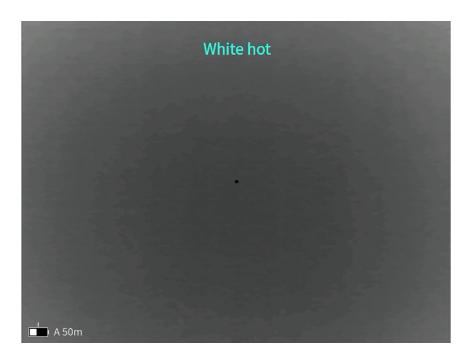
- 1) PIP: left top, middle top, right top display
- 2) Recording duration
- 3) Magnification power
- 4) WiFi connected
- 5) Bluetooth on
- 6) Time
- 7) Date
- 8) Internal memory full warning
- 9) Recording mode indication
- 10) Zero in distance
- 11) Zero profile
- 12) External battery capacity indication
- 13) Internal battery capacity indication
- 14) Eco-mode on

#### **CHAPTER 7 - FUNCTION DESCRIPTION**

#### 7.1 QUICK START

#### - MENU KNOB

Quick color palette switching: when it is turned on and the menu is not activated, turn the menu knob counterclockwise to switch between white hot, black hot, adjustable red hot, iron red, blue hot, and green hot pseudo color in turn.



#### - ZOOM KNOB

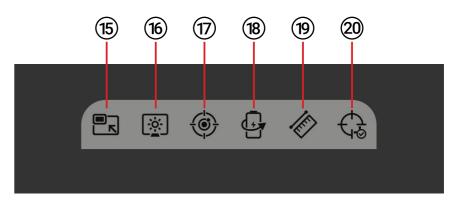
When it is turned on, rotate the zoom knob in the ZOOM-IN direction to enlarge the image, rotate the zoom knob clockwise to enlarge the image in 0.1X steps, and zooming stops when the maximum magnification is reached. Rotate the zoom knob in the ZOOM-OUT direction to shrink the image, rotate the zoom knob counterclockwise to shrink the image by 0.1X, and stops when it reaches the minimum value.

#### - QUICK ZOOM

The quick zoom can be obtained by short-pressing the button on the zoom knob.

#### - SHORTCUT MENU

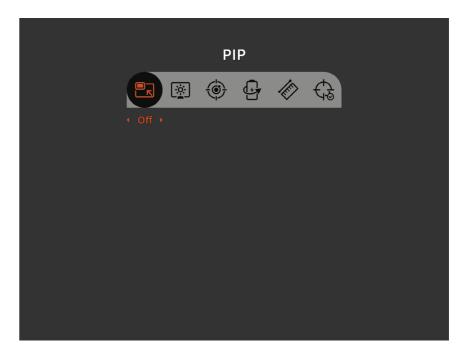
When the power is turned on and the menu is not activated, short press the "M Button" to display the shortcut menu options.







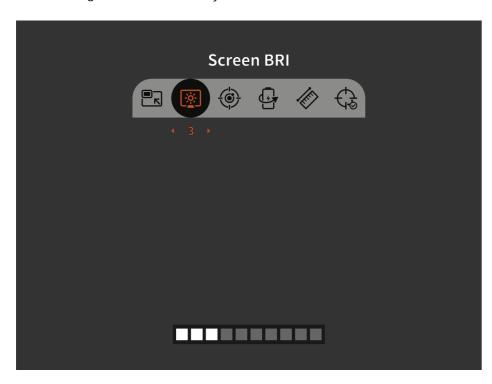
After Picture in Picture is turned on, there are three PIP positions to choose from: upper left, upper middle, and upper right.



#### (16) SCREEN BRIGHTNESS



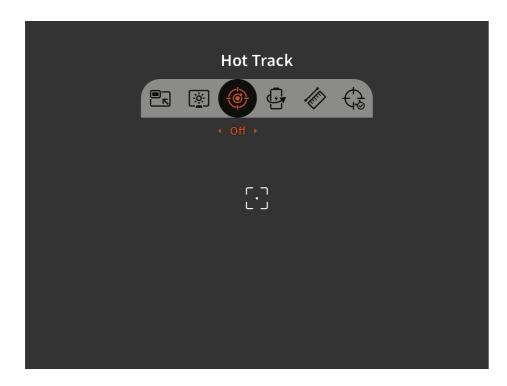
Screen brightness can be adjusted a total of 1-10 levels.



#### 17) HOT TRACK



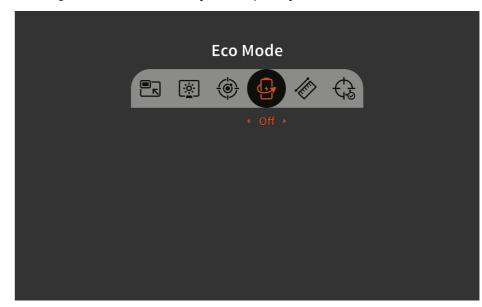
When hot track is turned on, a white box cursor is displayed to automatically track the highest temperature spot in the entire field of view.



#### 18 ECO MODE



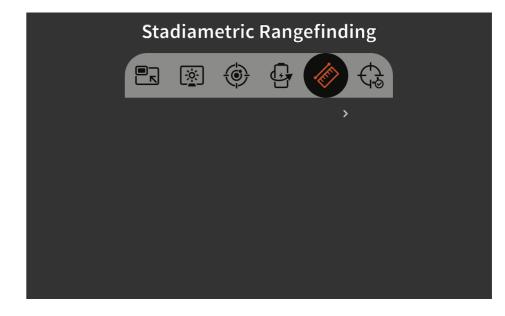
After being turned on, the scope will switch to power-saving mode, under which OLED brightness will be fixed to 20% and cannot be adjusted, and WIFI will not be turned on. If the current WIFI is already on, WIFI will be turned off, and the shooting record function cannot be turned on. If you are currently in shooting recording mode, the prompt is turned off. Zeroing distance: the current zeroing distance can be adjusted quickly.



#### 19 STADIAMETRIC RANGEFINDER



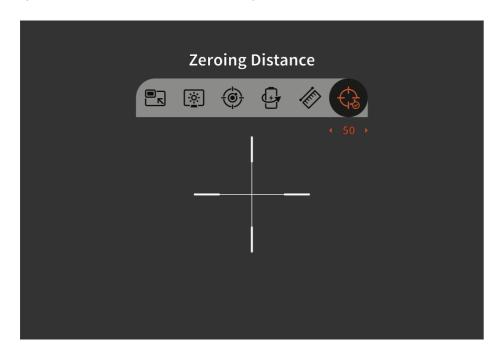
The position of the lower horizontal line remains unchanged and rotate the Menu knob to move the upper horizontal line until the spacing between the two lines is equal to the imageheight of the target. The distance from the target can be estimated by referring to the approximate ranging values of the four animals (rabbit - 14", coyote - 21", wild boar - 30", and deer - 36") in the upper left corner.



#### **20 ZEROING DISTANCE**

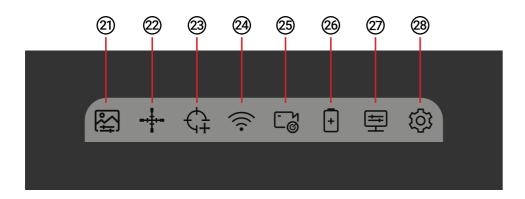


Zeroing distance can be adjusted and stored at distance of 50, 100, 200, 300, 500 in yard or meter. The shortcut menu offers quick access to choose from the preseted five distances.



#### 7.2 MAIN MENU OPERATION

After scope is turned on, long press M Button to activate main menu, exit, and go back to main category level after saving a setting change. Short Press M Button to select a category or a setting, and save changes and exit a setting. Rotate Menu Knob to cycle through categories, individual settings, and values of individual settings. Main menu stays on and turns off if no any input is made within 12 seconds, long press M Button to reactivate it.



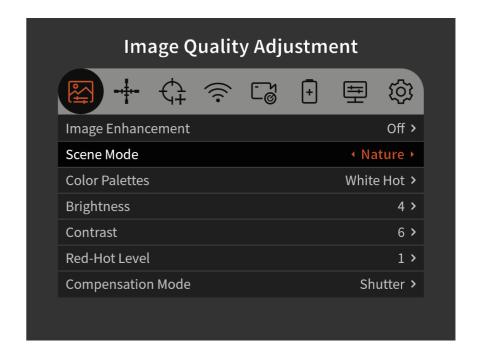
#### **21) IMAGE QUALITY ADJUSTMENT**



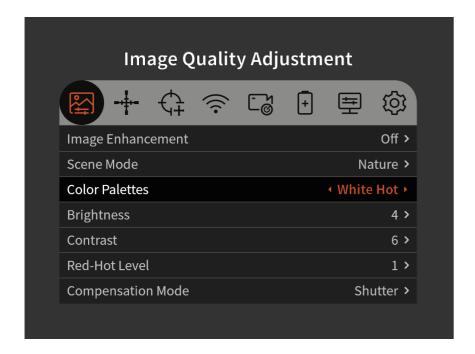
Image Enhancement: Turn on to enhance the image quality.



**Scene mode:** Three scene modes, natural/enhanced/highlight, can be set.

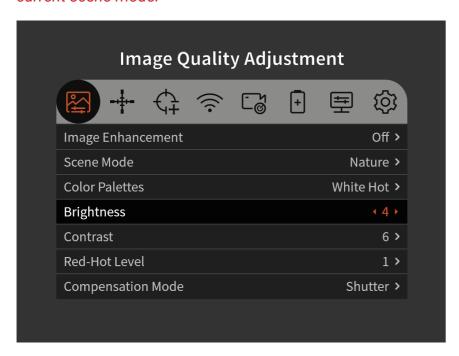


**Color palettes:** Can be set in white hot/black hot/adjustable red hot/iron red/blue hot/green hot.



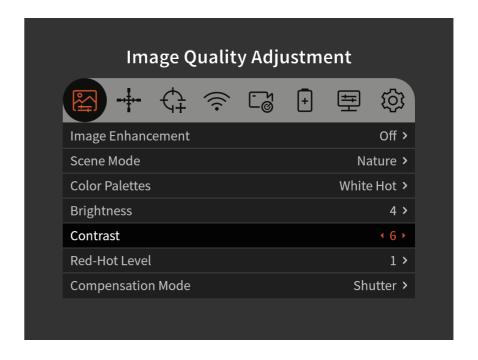
**Brightness:** Detector brightness can be adjusted within 1-10 levels.

NOTE: The value of adjusted brightness will be saved in the current scene mode.



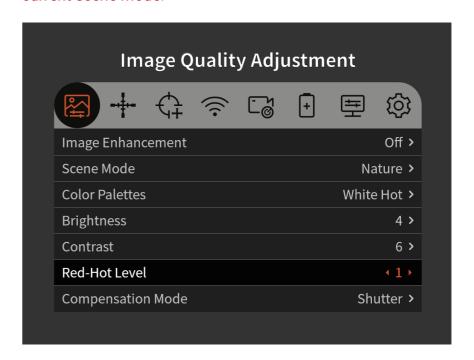
**Contrast:** Contrast can be adjusted within 1-10 levels.

NOTE: The value of adjusted contrast will be saved in the current scene mode.

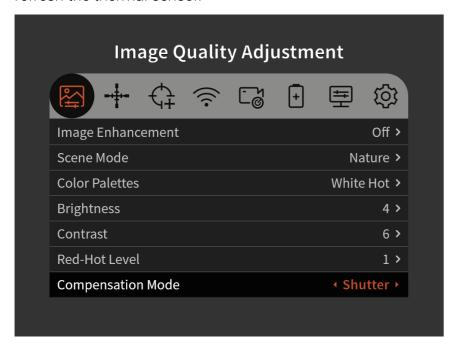


**Red Hot level:** Red hot level can be adjusted within 1-10 levels.

NOTE: When entering the red hot level, the image is switched to red hot in real time, and when exiting, it returns to the original color palette. The value of the red hot level is saved in the current scene mode.



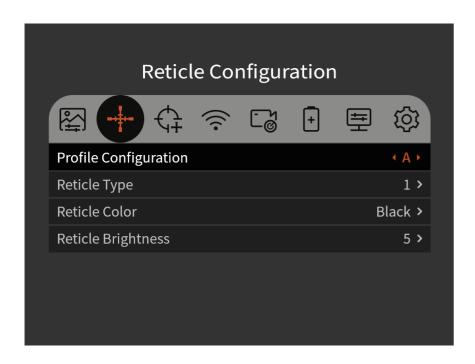
Compensation mode: Scene/Shutter Mode can be set through the Main Menu. Scene Mode sets short pressing the power button to capture an even temperature surface to refresh the thermal sensor. The best way to perform Scene Mode compensation is doing it with the lens cap closed. Shutter Mode sets short pressing the power button to close the device shutter and create an even temperature surface to refresh the thermal sensor.



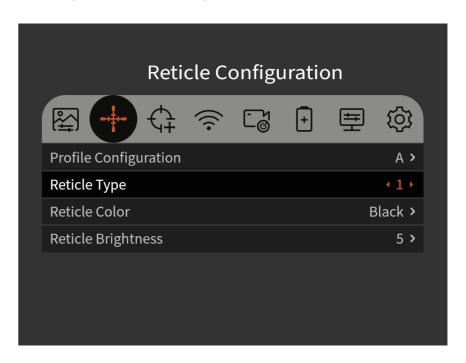
#### 22) RETICLE SETTINGS



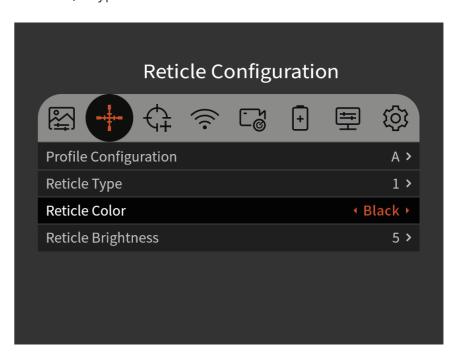
**Profile configuration:** 10 profiles of zero parameters can be saved: reticle types, reticle color, reticle brightness, zeroing distance, and zeroing locations.



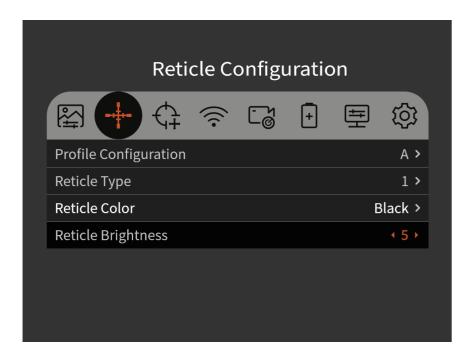
**Reticle type:** 10 reticle types in total can be selected. For details, please refer to Chapter 8.



**Reticle Color:** Can be selected in black/white/yellow/green/blue/red, 6 types in total.



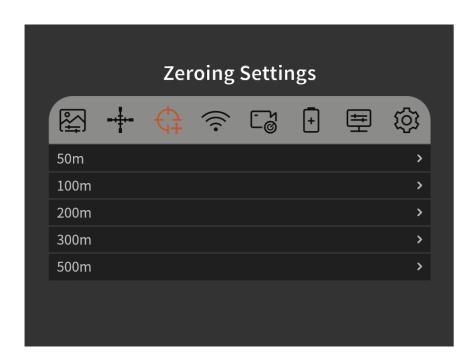
**Reticle BRI:** Reticle BRI can be adjusted within 1-10 levels.



#### **23) ZEROING SETTINGS**



**Zeroing settings:** Set zeroing distance at 50, 100, 200, 300, 500 yard or meter, freeze first point of impact screen shot, edit X, Y values, confirm and save zero position.

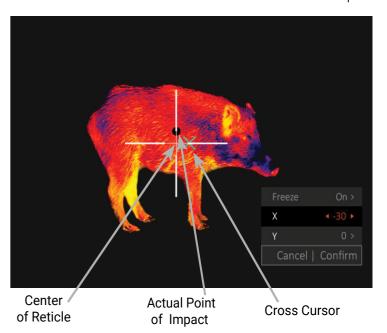


**One shot zeroing:** Prior to using the one shot zero function, you must set the Zeroing Distance by accessing the short menu.



Go to Zeroing Settings interface via the main menu, select the same distance preset by short cut menu to start zeroing in process. Aim the reticle center to the center of the target, and hold the rifle as stable as possible and fire a bullet. Rotate the menu knob to turn on the freeze option

in the pop-up window showing "X" and "Y" while making sure the light green X (cross cursor) still pointing at the center of target. After the image is frozen, short press M Button and then rotate the Menu knob to select and adjust the value of "X" (move left and right) or "Y" (move up and down) to move the center of the reticle until it overlaps with the actual point of impact. Use menu knob to select the "Confirm" option in the Pops up window, and short press the M button to confirm it. Each rotation of the Menu knob moves the center of the reticle by 1px. The cross cursor represents the original aiming point before any adjustment was made.





**WiFi On/Off:** When the phone APP and the Scope are connected, real-time video can be transmitted to the phone.

WiFi Name: CRONUS -ATS-XX-XXX

**NOTE:** Search and download Athlon Thermal APP in the mobile phone APP store, open the APP, find the WiFi name 'Cronus ATS XX-XXX' in the settings of mobile phone WiFi, and enter the password '12345678', to start remote operation after successful connection.

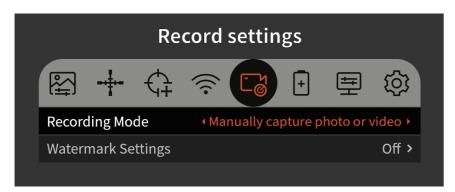


#### **25 RECORD SETTINGS**



**Record Mode:** After it is turned on, you can set the below three modes:

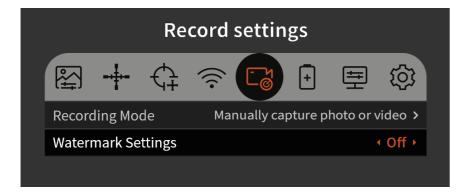
- Manually record: Short press shutter button to record and long press to stop
- Automatically take pictures: Automatically take 10 pictures continuously within 1s upon firing
- Automatically record video: Automatically record 3s video before and 7s after upon firing



Picture Information		
Format: JPG format		
File Location:/DCIM/ATHLON THERMAL		

Video Information		
Format:	H264 encoded MP4 format	
File Location:	/DCIM/ATHLON THERMAL	
Video resolution:	1024×768	
Video frame:	50Hz	

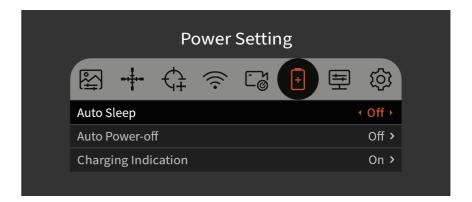
**Watermark settings:** When turned on, it can be selected from Time Only/Date Only/Time Date/Off.



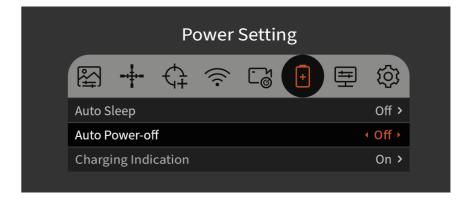
#### **26 POWER SETTING**



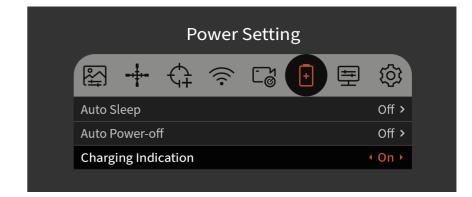
**Auto Sleep:** The Auto Sleep time can be set to 5/10/15 min. If there is no operation within the set time, the scope will enter sleep mode.



**Auto power-off:** The automatic Power-off time can be set to 15/30/60 minutes. If there is no operation within the set time, the power-off will be activated, and the scope will be powered off.



**Charging indication:** Switch that turns On/Off the charging port indication light.



#### **27) LOCAL SETTINGS**



**Unit Measurement:**Meter or Yard

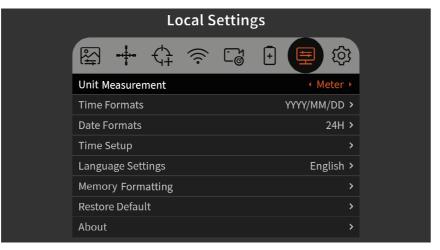
**Time Formats:** 

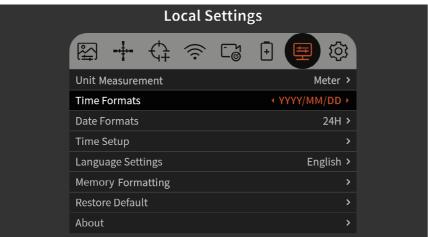
Optional from: YYYY-MM-DD MM-DD-YYYY DD-MM-YYYY

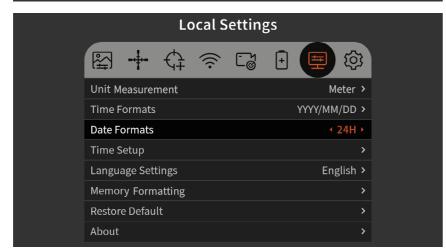
**Date Formats:** selectable between

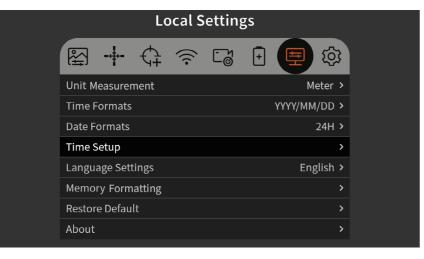
12H / 24H

Time Setup: Enter the Time Setup, rotate the Menu knob to move among different options, and press the "M" button to enter the next level adjustment, and then rotate the Menu knob to move between the specific time values









**Language Settings:** Available in English/French/German/Italian/Spanish

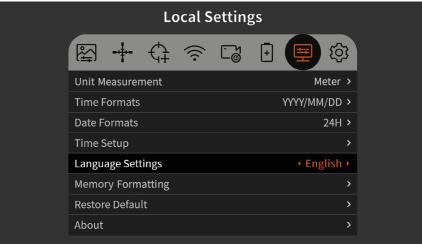
Memory Formatting: Select Memory Formatting. Select "Confirm" to confirm formatting, and select "Cancel" to cancel the operation

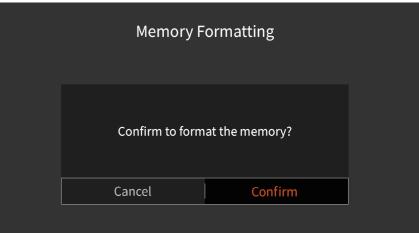
#### **SELECT WITH CAUTION!**

Restore Default: You can choose to restore the factory settings. Select "Confirm" to restore all parameters to factory settings; Select "Cancel" to cancel the operation

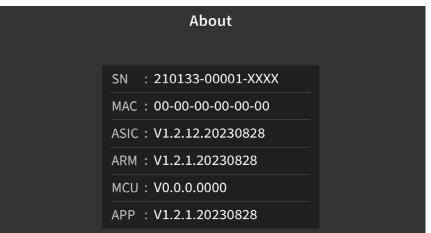
#### **SELECT WITH CAUTION!**

**About:** Check the current device in the APP version number and MAC address



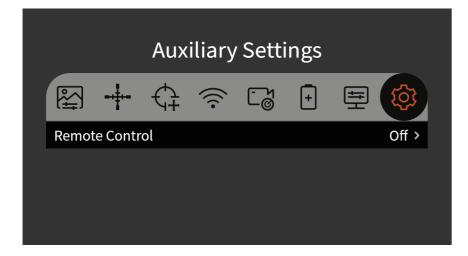






#### **28 AUXILLARY SETTINGS**





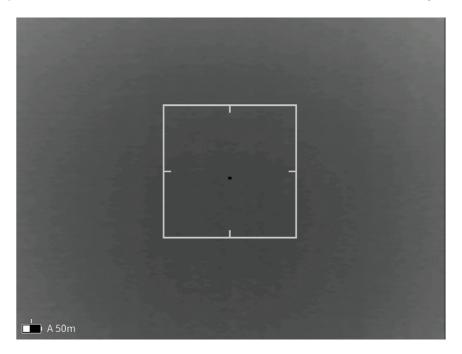
**Remote Control:** After being turned on, it will search for Bluetooth remote control connection. After successful connection, all functions of the button on the scope can be controlled by the Bluetooth remote control (except the function required by long press). The bluetooth remote has 1 hardware switch and 4 buttons. Among them, the hardware switch controls the on and off of the remote control itself. The 4 buttons correspond to the 4 buttons on the scope as shown in the figure below

NOTE: It needs to be used with optional accessories.

Remote controller button	Operation	Function	Current State
	Press	Compensation	Menu not activated
	Press and Release	Display off	
	Press	Take Photo	Menu not activated
	FIESS	Move Menu	Menu activated
	Long press	Zoom out	
	Press  Long press	Shortcut menu	Menu not activated
		To next menu Confirm option	Menu activated
		Main menu	Menu not activated
		Return/Exit Top Menu Cancel setting	Menu activated
	Droop	Start recording/Finish recording	Menu not activated
	Press	Function/Option toggle down or right	Menu activated
	Long press	Zoom in	

#### 7.3 PHOTOS &VIDEOS

**Photos:** When the camera is turned on and the menu is not activated, press the "Shutter Button," take a picture and freeze 300ms and then restore the real-time image.



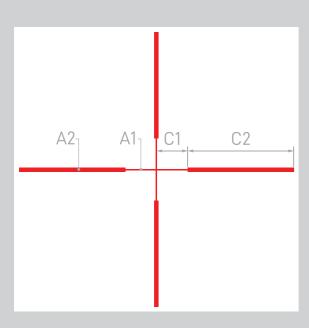
**Videos:** When the scope is turned on and the menu is not activated, long press the "Shutter Button" to start recording, and long press again to end recording. During the recording process, short press the "Photo Button" to take a photo and freeze it for 300ms, and then restore the real-time image.



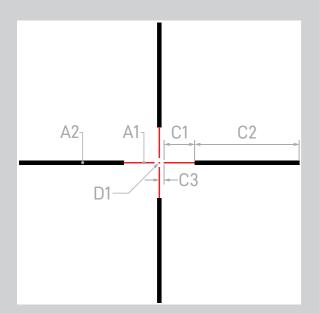
#### MOA RETICLES

# D1—\_\_\_\_\_\_\_\_\_

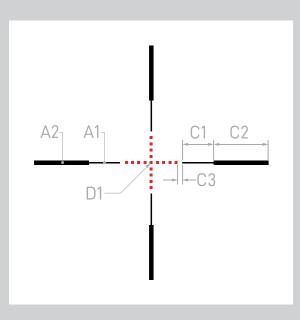
	RETICLE - MOA #01 - subtensions in moa -			
	50-640	50-400	35-400	
D1	2.08	1.84	2.6	



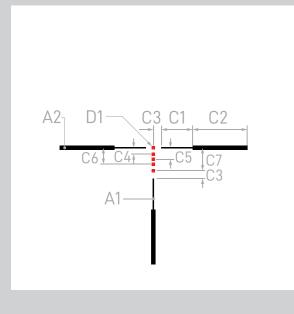
	RETICLE - MOA #02 - subtensions in moa -			
	50-640	50-400	35-400	
A1	1.04	0.92	1.3	
A2	3.12	2.76	3.9	
C1	20	20	20	
C2	68	68	68	



	RETICLE - MOA #03 - subtensions in moa -			
	50-640	50-400	35-400	
A1	1.04	0.92	1.3	
A2	3.12	2.76	3.9	
C1	20	20	20	
C2	68	68	68	
C3	3	3	3	
D1	1.04	0.92	1.3	



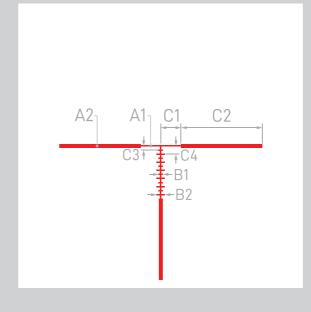
	RETICLE - MOA #04 - subtensions in moa -		
	50-640	50-400	35-400
A1	1.04	0.92	1.3
A2	3.12	2.76	3.9
C1	20	20	20
C2	35	35	35
C3	4	4	4
D1	2.08	1.84	2.6



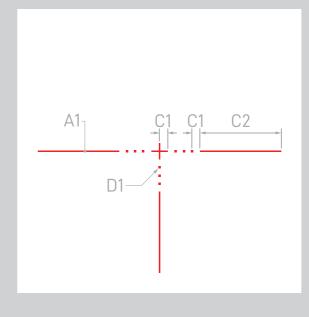
The MOA #05 reticle is a bullet drop compensation reticle specifically designed for 5.56 mm NATO /.223 REM round. The holdovers for bullet drop are extended to 200, 300, 400, 500, and 600 yards.

	RETICLE - MOA #05 - subtensions in moa -		
	50-640	50-400	35-400
A1	1.04	0.92	1.3
A2	3.12	2.76	3.9
C1	20	20	20
C2	35	35	35
C3	5	5	5
C4	4	4	4
C5	7.3	7.3	7.3
C6	10.4	10.4	10.4
C7	14.6	14.6	14.6
D1	2.08	1.84	2.6

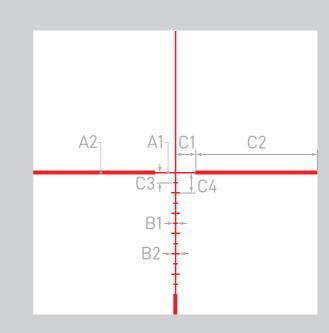
#### MIL RETICLES



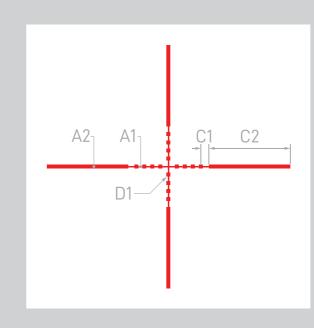
	RETICLE - MIL #01 - subtensions in mil -		
	50-640	50-400	35-400
A1	0.3	0.26	0.38
A2	0.9	0.78	1.14
B1	1	1	1
B2	2	2	2
C1	5	5	5
C2	20	20	20
C3	1	1	1
C4	2	2	2



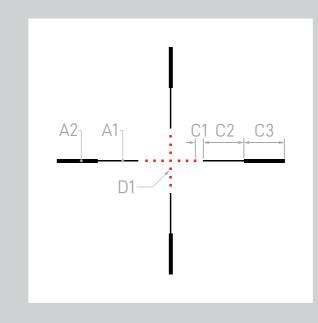
	RETICLE - MIL #02 - subtensions in mil -		
	50-640	50-400	35-400
A1	0.3	0.26	0.38
C1	2	2	2
C2	20	20	20
D1	0.6	0.52	0.76



	RETICLE - MIL #03 - subtensions in mil -		
	50-640	50-400	35-400
A1	0.3	0.26	0.38
A2	0.9	0.78	1.14
B1	1	1	1
B2	2	2	2
C1	5	5	5
C2	20	20	20
C3	2.5	2.5	2.5
C4	5	5	5



	RETICLE - MIL #04 - subtensions in mil -		
	50-640	50-400	35-400
A1	0.3	0.26	0.38
A2	0.9	0.78	1.14
C1	2	2	2
C2	20	20	20
D1	0.9	0.78	1.14

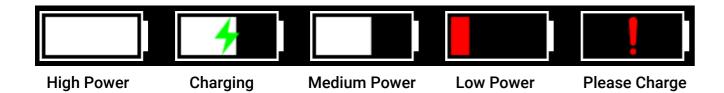


	RETICLE - MIL #05 - subtensions in mil -		
	50-640	50-400	35-400
A1	0.3	0.26	0.38
A2	0.9	0.78	1.14
C1	2	2	2
C2	10	10	10
C3	10	10	10
D1	0.6	0.52	0.76

#### **CHAPTER 9 - OTHER INSTRUCTIONS**

#### **9.1 POWER DISPLAY**

**Power Display:** When the thermal scope is turned on and the battery level changes, the battery indicator is displayed in the lower left corner of the screen, and the highlighted part of the battery indicator shows the remaining battery capacity.



NOTE: When the internal battery is low, please charge it as soon as possible. The scope can not be turned on when the internal battery is out of power, and can only be turned on with external power supply through the USB-C port.

#### 9.2 SOFTWARE CONNECTION

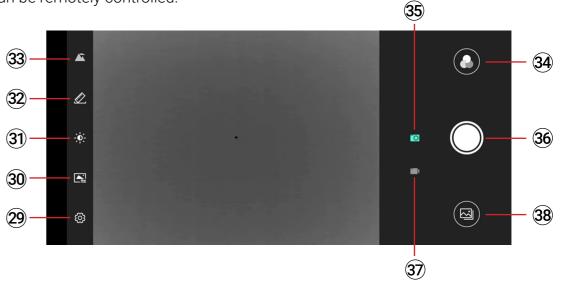
#### WiFi Connection:

- 1) Download the 'Athlon Thermal' APP on your mobile phone;
- 2) Turn on product's WiFi via main menu
- 3) Enter the mobile phone WiFi setting, select the WiFi name of "CRONUS ATS XX-xxxx', enter the password '12345678' to connect;
- 4) Return to "Athlon Thermal" APP on your mobile phone

NOTE: In order to ensure reliable Wi-Fi signal connection and stable data transmission, please keep the scope and the phone within 15 yard, and there are no obstacles (such as partition walls, etc.).

#### **App Function Description**

Control the Scope on the APP: After the APP is successfully connected to the device's WiFi, the Scope can be remotely controlled.

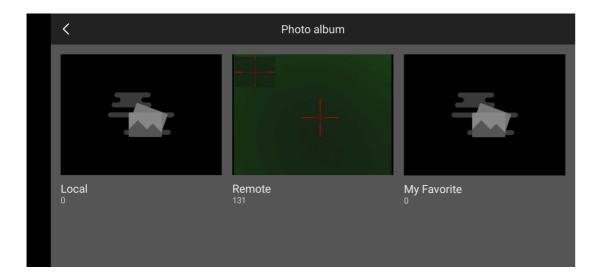


#### **Function Icons:**

- 29 Reticle Settings, Common Settings
- 30 Hot track, PIP, Image Enhancement
- 31) 0 Brightness Adjustment, Contrast Adjustment
- 32 Stadiametric Rangefinder
- 33 Natural/Enhanced/Highlight mode

#### Other Icons:

- White Hot/Black Hot/Red Hot/Iron Red/Blue Hot/Green Hot
- 35 Shooting Status Display
- 36 Shooting/Recording Control Key
- Recording Status Display
- 38 APP Gallery entry



#### Access files on the APP

Control the scope on the APP: After the APP is successfully connected to the device's WiFi, the scope can be remotely controlled.

- Local album: after the APP is connected to the scope's WIFI, the location of the file will
  be stored on the APP after pictures/videos are taken, and the files will be automatically
  saved to the local photo album of the mobile phone; the pictures/videos can be collected,
  shared and deleted.
- Remote Scope: after the APP is connected to device's WIFI, the location of the file will be stored on the APP after pictures/videos are taken; the photos/videos can be downloaded, deleted and so on. The files will be automatically saved to the local photo album of the mobile phone.
- My Favorites: The location where the pictures/videos are stored after they are added to my favorites.

#### CHAPTER 10 - COMMON TROUBLESHOOTING GUIDE

1) The device failed to be powered on.

Solution: Replace the battery or connect charger.

2) The device has trouble taking pictures/videos.

**Solution:** The internal storage space of the device is full and/or the memory card needs to be formatted.

3) The time displayed on the device does not match the actual time.

**Solution:** Reset the time and date of the device in the menu.

4) The screen goes off during the use.

**Solution:** Short press any button to wake up from sleep and light up the screen.

5) Image displayed on the device is blurry during operation.

**Solution:** Turn the lens to focus manually until the image is clear.

### PRODUCT WARRANTY CARD

#### Warranty Registration Required

This product carries a 3-year warranty from the date of purchase. For your product to qualify for this warranty, you must provide proof of purchase, the model and serial number of the device. Once activated, the device is warrantied 3 years from the date of purchase.

- 1) This warranty does not cover damages caused by deliberate damage, misuse, theft or maintenance provided by someone other than the Athlon Authorized Service Department.
- 2) Please note that any altering of the products, such as Duracoat, hyrdo dipping or spray painting, will void the warranty on all thermal devices.

# Scan the QR code to complete the online form to register your device.



#### Alternative Means of Registration

We strongly recommend that you register your product online using the form available by scanning the QR code. If you cannot register your device online or prefer to mail in a warranty card, please complete the following form and provide the original proof of purchase.

Original proof of purchase required. Must show date of purchase.

FIRST NAME	LAST NAME	
STREET ADDRESS		
CITY	STATE	ZIP CODE
EMAIL ADDRESS		Serial number is located on the bottom sticker of your products eyepiece.
DATE OF PURCHASE	PRODUCT SERIAL NUMBER	SN: 210XXX-XXXXX FCC ID: 2AKU5ZG26

Mail to Athlon Optics ATTN: Warranty Registration 801 N Meadowbrook Dr, Olathe KS 66062 For questions or assistance email contact@athlonoptics.com or call 1-855-913-5678.

## SHARP, TIGHT AND PRICED JUST RIGHT!

Toll free: 1-855-913-5678

contact@athlonoptics.com

801 N MEADOWBROOK DR, OLATHE, KS 66062

ATHLONOPTICS.COM