

ATHLON
RIDICULOUSLY GOOD OPTICS

CRONUS ATS PRO THERMAL SCOPE

35-400 | 50-640



QUICK START GUIDE

athlonoptics.com

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- IMPORTANT -

Welcome to the Athlon family and thank you for your purchase. Please read this guide before use and keep it for future reference.

This is a general guide for Cronus ATS PRO family of thermal scopes, which means that the specific model you receive may differ from the pictures in this guide.

- FCC WARNING -

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

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.

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

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 rating information is located at the bottom of the unit.

- PRECAUTIONS -

WARNING

- 1) Do not try to open or disassemble the battery at any time.
- 2) This scope contains advanced electronics. To prolong the life of this optic, avoid any undue physical damage or violent actions;
- 3) Do not use or store the equipment in an environment that exceeds the allowable operating or storage temperature;
- 4) Do not directly aim the equipment at high-intensity thermal radiation sources, such as the sun, lasers, spot welding machines, etc.;
- 5) Avoid allowing debris to enter any ports in this optic.
- 6) Do not knock, throw or vibrate instruments and accessories to avoid damage;
- 7) Any modification, alterations or attempts to disassemble this scope will void the user's warranty. All repairs must be made through Athlon Optics.
- 8) Avoid contaminating this scope with oils or solvents.
- 9) Please observe the following measures when wiping this device:

- Non-optical surface: Use 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;

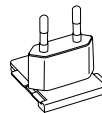
10) Do not place the battery in a high temperature or near a high-temperature object;

11) Do not short circuit the positive and negative poles of the battery;

12) Do not expose the battery to moisture or water;

13) Only use the original chargers and adapters provided with this scope.

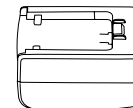
- LIST OF PARTS -



PLUG



PICATINNY
COMPATIBLE



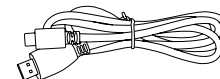
POWER
ADAPTER



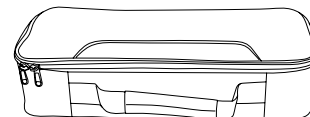
CHARGER



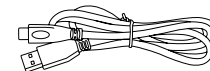
EXTERNAL
BATTERY



MICRO HDMI
CABLE

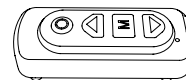


BAG



TYPE-C CABLE

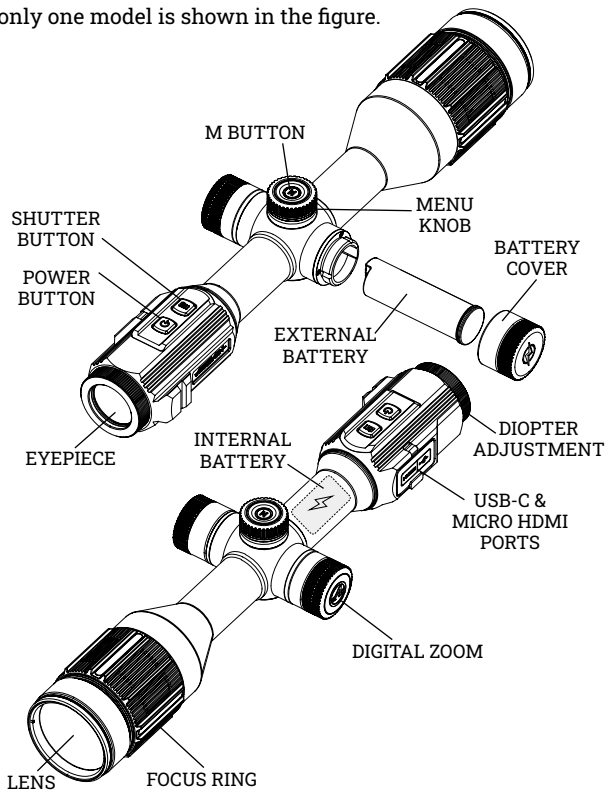
Optional:



REMOTE CONTROL

- PRODUCT COMPONENTS -

This guide is applicable to many models of this series, and only one model is shown in the figure.



▲ The device draws current from external battery first and then internal battery when external one runs out power. When external power is connected to the USB-C port, the device will charge internal battery first, and then external battery when internal one is fully charged.

1. FOCUS RING

The focus ring acts like the parallax adjustment on a traditional riflescope. Adjust the focus ring to bring your target into focus.

2. LENS COVER

To protect the lens, the supplied lens cover should be used when the scope is not in use.

3. USB-C PORT

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

4. 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.

5. BATTERY COVER

▲ NOTE: please insert the battery in the direction shown in the figure, and do not push the battery forcibly.

- QUICKSTART INSTRUCTIONS -

Button	Current Device Status	Rotation	Short Press	Long Press
Power button	Power on	/	Compensation	Display on/off
	Power off	/	/	Power on
	Display off	/	Display on	/
Menu knob	Menu bar not shown	Switch to color palettes	/	/
	Menu bar displayed	Toggle options	/	/
M button	Menu bar not shown	/	Shortcut menu	Menu
	Menu bar displayed	/	Select current option	Return to previous option
Zoom knob	Menu bar not shown	Zoom	/	/
		/	Quick zoom	Holdover distance menu

[BUTTON DESCRIPTION]

1. POWER BUTTON

POWER ON▪

Long press and hold the power button until the startup picture appears in the eyepiece.

▲ NOTE: If internal battery is completely discharged, the device can not be turned on with external battery only. It can be turned on with the included power adapter through USB-C port.

POWER OFF▪

- 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.
- Automatic power-off:** In the set automatic power-off time, without any button operation, the scope will power down.

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.

DISPLAY ON▪

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

COMPENSATION

When it is turned on and the menu is not activated, short-press the power on/off button to refresh the thermal sensor. Two Compensation modes, manual and automatic, can be set through the Main Menu.

2. MENU KNOB

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

Menu movement: When the menu is activated, turn the menu knob clockwise to move menu or option down/to the right; Turn the knob counterclockwise to move menu or option up/to the left.

3. MENU BUTTON ("M")**SHORTCUT MENU**

When it is powered on and the menu is not activated, short-press the "M" button, and the shortcut menu option will appear.

MAIN MENU

Main menu option is activated by long-pressing the "M" button.

CONFIRM AND BACK/EXIT

When it is powered on and the menu is activated, short-

press the "M" button to confirm the current selection and return to the previous menu; Press and hold the "M" button to return to or exit the menu without saving the current settings.

4. DIGITAL ZOOM KNOB**ZOOM-IN**

When it is turned on, rotate the zoom knob counterclockwise to enlarge the image in 0.1X steps, and zooming stops when the maximum magnification is reached.

ZOOM-OUT

When it is turned on, rotate the zoom knob clockwise to shrink the image by 0.1X, and stop when it reaches the minimum value.

5. SHUTTER BUTTON**TAKE PHOTOS**

Short-press the shutter button to take a photo.

VIDEO RECORDING

Long press and hold the shutter button to start recording, and then long press and hold the recording again to stop recording. During the video recording, short-press to snap pictures.

[FUNCTION DESCRIPTION]**1. SHORTCUT MENU**

- **Color Palettes:** switch among seven color palettes (white hot, black hot, red hot, iron red, blue hot, green hot, and sepia).
- **PIP:** Choose from top left, top middle, and top right positions.
- **Screen BRI:** 1-10 Screen Brightness level can be adjusted.
- **WiFi:** WiFi can be used to transmit real-time video to the mobile phone after the mobile phone is connected to your device, and the device can be operated through the Athlon Thermal APP to access the photos/videos of the device; photos/videos can be played, shared, deleted, etc.

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

- **Hot Track:** a white cross cursor is displayed when it is turned on to trace the highest temperature point in the full image.
- **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.

- **Stadiametric ranging:** 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 image height 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.
- **Zero Calibration:** the preset zero distances under the profile selected in the main menu must match zero calibration in short menu.

▲ **NOTE: Only select the distances that have been zeroed, and do not select the distance still set at default factory x/y value (0,0).**

2. MAIN MENU**BALLISTIC SOLUTION**

- **Ballistic Calculator:** Ballistic profiles must be created in the Athlon Ballistics APP first. Long press zoom button to set holdover distances. Holdover points for up to 4 different distances can be adjusted through this menu.
- **Angular Measurement:** MOA and MIL can be selected.

IMAGE QUALITY ADJUSTMENT

- **Scene Mode:** Three scene modes, natural/enhanced/highlight, can be set.
- **Brightness:** Adjustable for 1-10 levels.
 - ▲ **NOTE: The adjusted brightness value will be saved in the current scene mode.**
- **Contrast:** Adjustable for 1-10 levels.
 - ▲ **NOTE: The adjusted contrast value will be saved in the current scene mode.**
- **Image Enhancement:** Turn on to enhance the image quality.
- **Compensation Mode:** Two optional compensation methods: automatic compensation and manual compensation.

RETICLE

- **Profile Configuration:** 10 groups of zeroing profiles, from A-J can be saved. The zeroing distance, zeroing location, reticle type, reticle color and reticle brightness are saved for each profile.
- **Reticle Type:** 10 reticle types in total can be selected.
- **Reticle Color:** can be selected in black/white/yellow/green/blue/red.
- **Reticle Brightness:** the reticle brightness can be adjusted with 1-10 levels.

ZEROING SETTINGS

- **Zeroing Settings:** This is the user interface for one-shot zeroing. 50/100/200/300/500 yards or meters can be selected for zeroing under each group of profiles. After zero is set, use the shortcut menu to select the preset zero distance under each profile.

RECORD SETTINGS

- **Audio Input:** When the microphone is turned on, you can record audio while recording video, so that the sound is integrated into the video files.
- **Auto-Shot Record:** When this function is turned on, it will automatically record a video and 5 images when the user shoots (video: 3 seconds before shooting ~ 7 seconds after shooting). If a shot is made within the 7 seconds, the device will continue recording for 30 minutes.
- **Auto-Shot Sensitivity:** Shooting trigger sensitivity, divided into 1-5 settings; the 5th setting is the most sensitive setting.
- **Manual record clip duration:** 15/60 second clip duration can be selected to automatically end video recording within the time selected.
- **Watermark Setting:** Support time and date.

POWER SETTING•

- **Auto Sleep:** The Auto Sleep time can be set to 5/10/15 minutes. 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.
- **Timed menu off:** the menu can be turned off automatically within 10/20/60 seconds.
- **Charging Indication:** Switch that turns On/Off the charging port indication light.

LOCAL SETTINGS•

- **Language Setting:** Available in English/French/German/Italian/Spanish.
- **Unit Measurement:** yard or meter.
- **Time Formats:** Selectable between 12H/24H.
- **Date Formats:** Optional from MM-DD-YYYY/YYYY-MM-DD//DD-MM-YYYY.
- **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.

- **Black Screen Indication:** Black screen indication icon can be turned on and off.
- **Bluetooth:** Can be turned on and off.
- **Memory Capacity:** free memory capacity/total capacity.
- **Memory Formatting:** Select Memory Card Formatting. Select "Confirm" to confirm formatting, and select "Cancel" to cancel the operation.
- **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.
- **About:** Check the current device in the APP version number and MAC address.

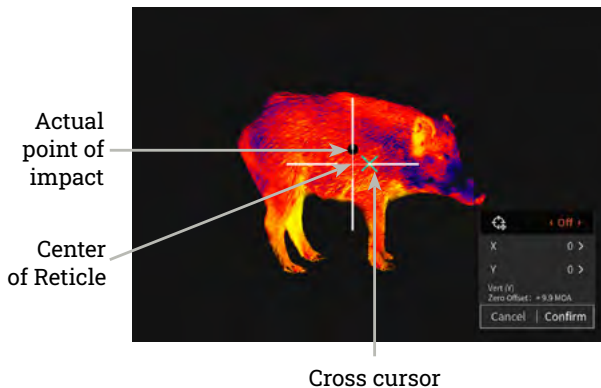
- ONE SHOT ZERO CALIBRATION -

To sight in the rifle to your zero position please follow the steps as below:

Go to Zeroing Settings interface via the main 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. 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.

The verticle zero offset value can only be set through Athlon Ballistic APP.



- FIRMWARE UPDATE -

To get the latest version of firmware for improved performance and better image quality, please use either of the following methods to complete the update:

UPDATE VIA APP

- 1) Power on the thermal scope and turn on the scopes WiFi through the main menu.
- 2) Connect mobile phone with the WiFi of the thermal scope.
- 3) Open the Athlon Thermal mobile APP and click the "About Device" link.
- 4) Make sure the mobile device has cellular data connection and then tap the "Check for updates" button.
- 5) If there is an update available, it will appear on the screen. Tap the "Download" button and wait for 100% completion.
- 6) After the download is completed, tap the "Update" button to start the transferring process.
- 7) Once the firmware transferring is completed, the APP will show "Transfer completed!" on the top of the screen.

The screen of the thermal scope will show the options "Delete" "Cancel" and "Update." Rotate the menu knob and press the M button to select the "Update."

Once the progress bar shows 100% completion, power off and on the thermal scope to begin enjoying the new firmware.

UPDATE VIA COMPUTER**1) Download the firmware package to your computer.**

- To download the firmware package, visit the following URL:
<https://athlonoptics.com/thermal-firmware-update/>

▲ NOTE: if you accidentally download the update package twice, please use the file named ota-asic.img not ota-asic(1).img. The exact file name must be used.

2) Turn on thermal device to "Com Mode."

- On the thermal device, long press the power button and M button at the same time when the device powers on, then release the power button while continuing to press the M button.
- Check the device LED screen to ensure it is in "Com Mode."

3) Connect the thermal device to your computer.

- Use type C cable to connect the thermal device to your computer.

4) Copy the downloaded firmware package to your computer.

- On your computer, copy the downloaded firmware package (ota-asic.img) to the root directory of the Thermal USB drive.
- Turn off the thermal device, then turn it back on. The firmware will update automatically.

5) Check if firmware updated successfully.

- Long press the M button until the Menu appears
- Select the Local Settings by turning M button. Go to the About screen and confirm the ASIC number matches the number listed with the update package. If it matches, then the firmware has updated successfully.

- STORAGE AND TRANSPORTATION -

The following is the correct storage and transportation of the product. To prevent damage to yourself or the optic, please read the manual carefully before using the device. Strictly observe it, and retain this guide after reading it.

STORAGE

1. The optic and accessories including batteries shall be stored in a well-ventilated, clean, condensate-free and corrosive gas-free room with temperature of -22°F ~ 122°F (-30°C ~ 50°C) and relative humidity not exceeding 95%.
2. To prevent battery damage, the unit and batteries should be charged every 3 months.

TRANSPORT

During transport, it shall be protected against rain, water flooding, without severe vibration and impact.

- TROUBLESHOOTING -

1. DEVICE FAILS TO START.

Solution: Replace the battery or connect the adapter for charging.

2. THE DEVICE CANNOT TAKE PHOTOS/RECORD.

Solution: the internal storage space of the device is full, format the memory.

3. THE DEVICE DISPLAY TIME DOES NOT MATCH THE ACTUAL TIME DISPLAY.

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

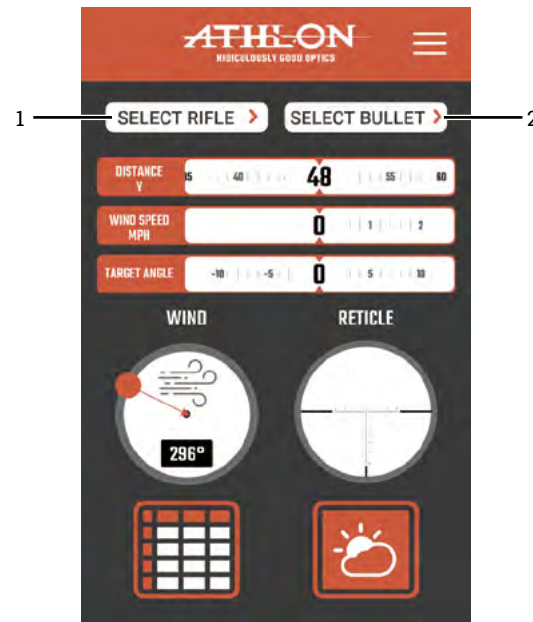
4. SCREEN GOES OUT DURING USE.

Solution: Short-press any button to wake up the hibernation and light up the screen.

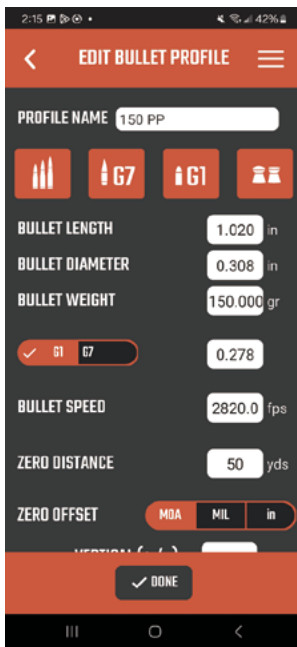
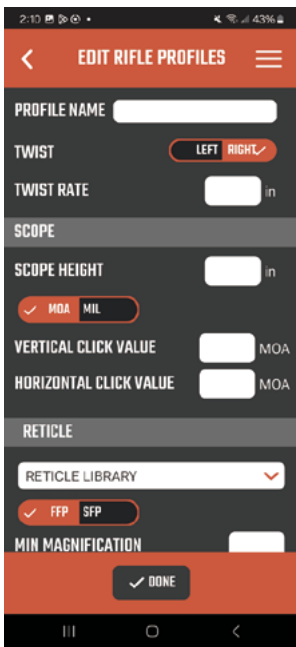
5. THE IMAGE OF THE DEVICE IS BLURRED DURING USE.

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

- BALLISTIC APP -

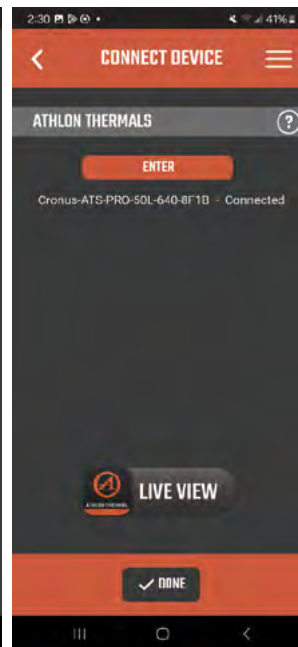
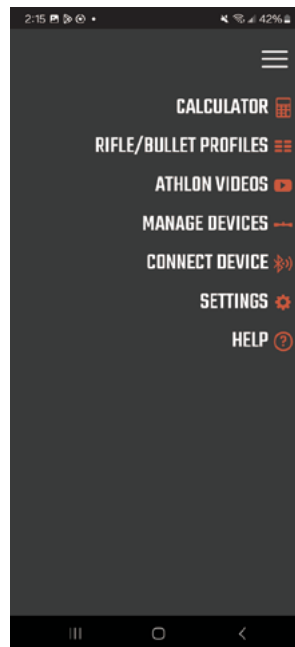


In order to get ballistics on your thermal device, you will need to download the Athlon Ballistics app to your phone. Here you will create your rifle and bullet profiles to transmit to your thermal device.



- 1) Create a rifle profile.
- 2) Create a bullet profile. Once the fields have been completed, clicking DONE will save your profile.

▲ NOTE: When creating these profiles, ensure you are providing accurate details in order to get accurate ballistics.



- 3) Turn on the thermal devices WiFi, and connect your cellular device to the thermal devices WiFi connection.
- 4) Open the hamburger menu and select CONNECT DEVICE.
- 5) Once in CONNECT DEVICE, the thermal device will be displayed. Click ENTER and then EDIT PROFILES.



- DETAILED OPERATION -

To view a detailed instruction manual, please visit the product page on our website

www.AthlonOptics.com

- 6) Select the Rifle and Bullet profiles that you want to associate with the corresponding thermal Profile Configuration.
- 7) Clicking DONE will save the changes and transfer the data.

**SHARP, TIGHT
AND PRICED
JUST RIGHT!**

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