

ATHLON
RIDICULOUSLY GOOD OPTICS

CRONUS ATS PRO THERMAL SCOPE

35P-400 | 25P-250



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 -

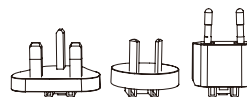
WARNING

- 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:

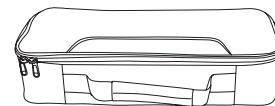
- Non-optical surface: Use clean and soft cloth to wipe the non-optical surface of the thermal scope;
- Optical surface: When using the thermal scope, avoid contaminating the optical lens surfaces of this scope. Avoid touching the objective lens with your hands. Oils and solvents, can degrade the lens 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.

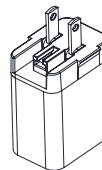
-LIST OF PARTS -



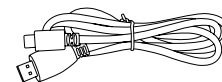
PLUG



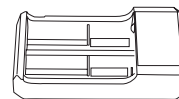
BAG



POWER ADAPTER



TYPE-C CABLE



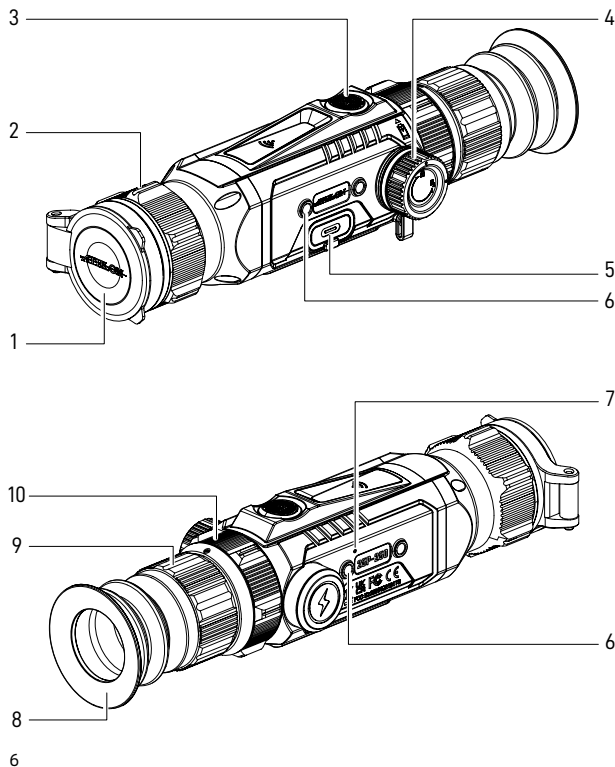
18500 CHARGER



18500 BATTERY

- 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 can be turned on with external power.

- PRODUCT COMPONENTS -

LEGEND		
#	NAME	FUNCTION
1	Objective lens module	Thermal Imaging
2	Focus knob	Focusing
3	Power Button & QuickAccess Button	Power On/Off Quick Access / Menu Function
4	Battery Compartment	Chamber for external battery
5	USB-C Port	Power charging & data transmission
6	Picatinny Mounting hole	Mount picatinny rail
7	Microphone	Capture audio input
8	Eyepiece	Eyepiece module
9	Ocular Adjustment	Ocular adjustment for eye sights
10	Function Wheel	Zoom in / out & navigate among menu options

[BUTTON DESCRIPTION]**1. POWER BUTTON - POWER FUNCTION****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 -

- 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 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.

2. POWER BUTTON – QUICK ACCESS FUNCTION

Quick Access to Video Recoding: Short press one time to start video recording and short-press one time or long press to stop recording.

3. POWER BUTTON – MENU FUNCTION

When it is powered on, short press the power button twice to activate the menu. Short-press the power button to switch and confirm menu selection, long press the power button to return to upper level menu or exit the menu.

4. FUNCTION WHEEL - ZOOM IN/ZOOM OUT

When power is on and the menu is not activated, rotate function wheel to zoom in/zoom out; when the menu is activated, rotate function wheel to navigate among menu options.



- | | |
|-----------------------------------|---------------------------------------|
| 1. Eco Mode | 7. Ballistic configuration in profile |
| 2. Internal battery | 8. Auto-Shot Record |
| 3. External battery | 9. Magnification |
| 4. The ballistic calculator is on | 10. Memory card full warning |
| 5. Zeroing profile | 11. USB-C port |
| 6. Zeroing distance | |

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

- **Compensation:** Quick access for manual compensation.
- **Photo:** Quick access for manually taking photographs.
- **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.**
- **Screen BRI :** 1-10 screen brightness level can be selected.

IMAGE ADJUSTMENT

- **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.

- **Scene Mode:** Three scene modes, natural/enhanced/highlight, can be set.
- **Image Brightness:** Detector brightness can be set with 1-10 levels.
 - ▲ **NOTE: The adjusted brightness value will be saved in the current scene mode.**
- **Image Contrast:** Adjustable for 1-10 levels.
 - ▲ **NOTE: The adjusted contrast value will be saved in the current scene mode.**
- **Image Enhancement:** image quality can be adjusted by turning on.
- **Hot Track:** Automatic heat source tracking.
- **Compensation Settings:** The thermal sensor needs to be calibrated to regain image clarity after a period of continuous use. Automatic and manual calibration mode can be selected.

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.
- **Automatically record upon firing:**
 - **On/Off:** Automatic recording upon firing can be turned on and off.
 - **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.
- **Auto-shot playback:** Auto-shot recording can be played back through this option.
- **Manual record clip duration:** 15/60 seconds clip duration can be selected to automatically end video recording within the time selected.
- **On Screen Display:** Device status icon can be turned on and off in video recordings.
- **Watermark Settings:** Date and time information can be turned on and off in video recordings.

▲ **Note: Images and videos can be directly downloaded from the folder "DCIM" in the device. Firstly, connect the device using the USB-C cable to your PC; Secondly, turn on the device and allow access to it; Thirdly, locate the device "Imager" under your PC; Finally, download image or video from DCIM folder.**

BALLISTIC & RETICLE

- **Ballistic Calculator:** Ballistic profiles must be created in the Athlon Ballistics APP first. Holdover points for up to 4 different distances can be set through the de-

vice and ballistic app.

- **Angular Measurement:** MOA and MIL can be selected.
- **Profile Configuration:** 5 groups of zeroing profiles, from A-E 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.
- **Preset Holdover Distance:** 4 distances can be set for holdover.
- **Holdover Color:** 4 different colors can be selected.

ZEROING SETTINGS

- **Zeroing Settings:** This is the user interface for one-shot zeroing. 50/100/200 yards or meters can be selected for zeroing under each group of profiles.

LOCAL SETTINGS

Power Settings-

- **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.

- **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.
- **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 function wheel to move among different options, and press the power button to enter the next level adjustment, and then rotate the function wheel to move between the specific time values.

- **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 "Yes" to confirm formatting, and select "No" to cancel the operation.
- **Restore default:** You can choose to restore the factory settings. Select 'Yes' to restore all parameters to factory settings; Select 'No' 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 below:

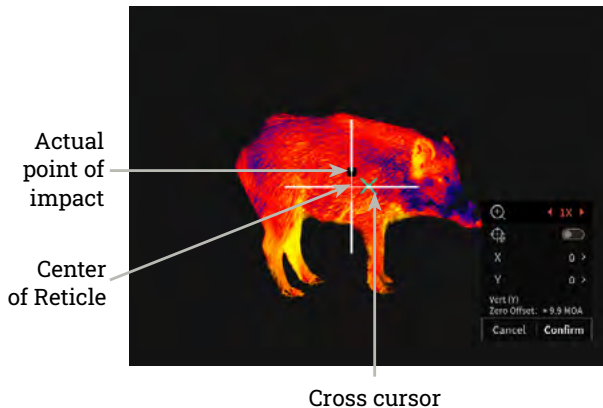
Go to Zeroing Settings interface via the main menu to choose a zeroing distance and start the process. Use the power button to confirm and exit; rotate the function wheel to navigate among different menu options.

Step 1: Use the function wheel to select the desired zoom (1x, 2x, 4x). Short press the power button to confirm zoom selection and exit.

Step 2: Rotate the function wheel to select the freeze option. Aim the reticle center to the center of the target, and hold the rifle as stable as possible and fire a bullet. Short press the power button to freeze the image while making sure the light green X (cross cursor) still pointing at the center of target.

Step 3: After the image is frozen, rotate the function wheel 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.

Step 4: Use the function wheel to select the "Confirm" option and short press the power button to confirm it. 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 function wheel and press the power 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 *artosyn-ota-ars31.img* not *artosyn-ota-ars31(1).img*. The exact file name must be used.

2) Connect the thermal device to your computer.

- Use type C cable to connect the thermal device to your computer. Turn on the device and allow access to it.

3) Copy the downloaded firmware package to your computer.

- On your computer, copy the downloaded firmware package (*artosyn-ota-ars31.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.

4) Check if firmware updated successfully.

- Short-press the power button twice to activate the menu.
- Go to the local settings and select the About to check if 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.

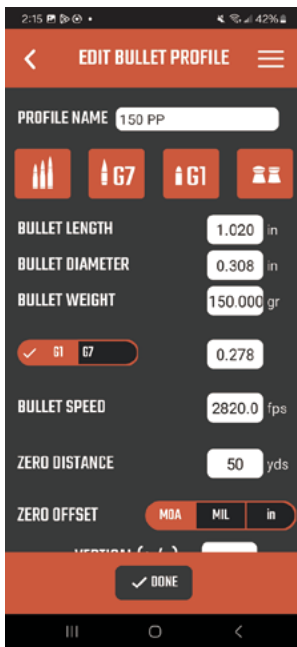
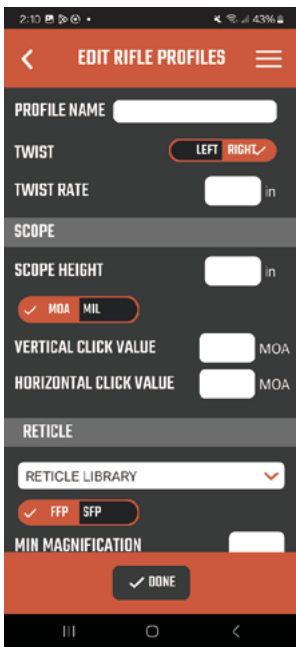
Solution: Short-press the power button to wake up the hibernation and light up the screen.

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

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

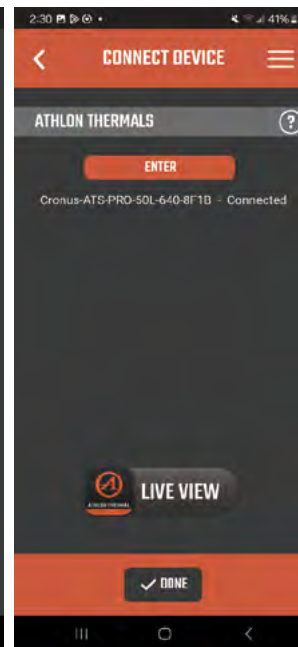
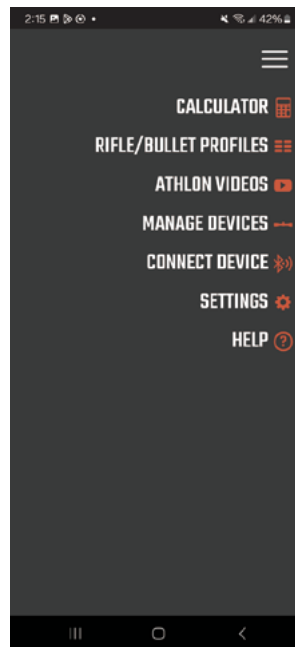
- BALLISTIC APP -

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.

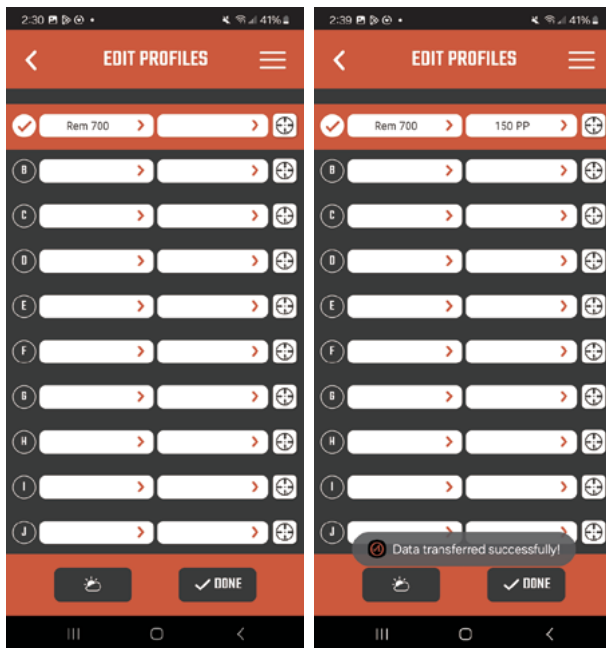


- 1) Create a rifle profile.
- 2) Create a bullet profile. Once the fields have been completed, clicking DONE will save your profile.

▲ 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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