



CRONUS DCM PRO THERMAL SCOPE

35L-640 | 50L-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 DCM 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.

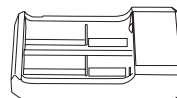
- PRECAUTIONS -

WARNING

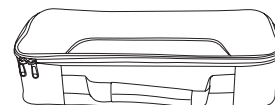
- 1) Do not try to open or disassemble the battery at any time.
- 2) This scope contains advanced electronics. To prolong the life of this optic, avoid any undue physical damage or violent actions;
- 3) Do not use or store the equipment in an environment that exceeds the allowable operating or storage 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 -



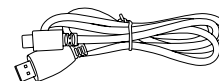
18650 CHARGER



BAG



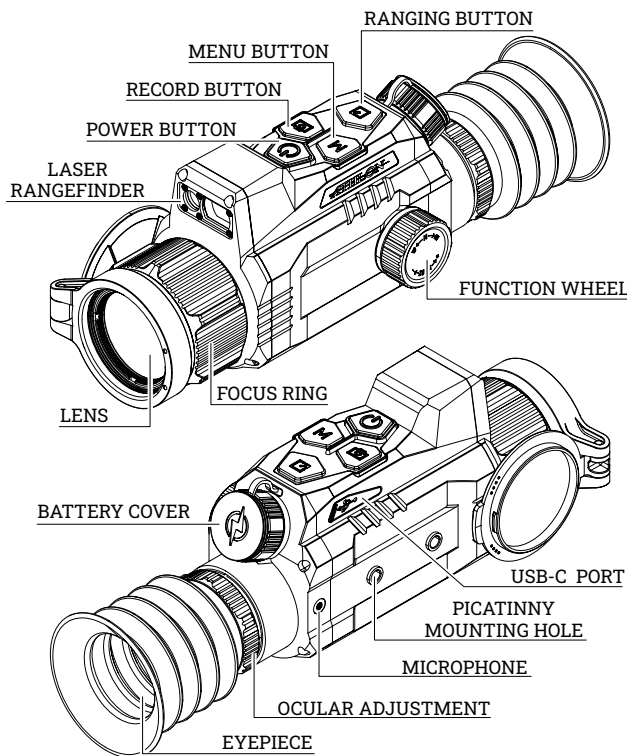
18650 BATTERY



TYPE-C CABLE

- PRODUCT COMPONENTS -

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



Button	Current Device Status	Short Press	Long Press	Rotate
Power button	Power off	/	Power on	/
	Power on / home screen	Standby mode	Power off	
	Power on / menu	Return to home screen	Power off	
Menu button	Home screen	Switch color palette	Open main menu	/
	Menu	Confirm current selection	Save & return to previous	
Record button	Home screen	Take photo	Start video recording	/
	Recording	Take photo	End video recording & save	
Ranging button	Home screen	Access ranging mode	Switch between single or continuous ranging	/
Function wheel	Home screen	/	/	Zoom in & out
	Menu			Scroll through options

[BUTTON DESCRIPTION]

1. POWER BUTTON

POWER ON -

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

POWER OFF -

- a. **Manual power-off:** Press and hold the power button, the power-off progress bar will be displayed, and 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-

When the menu is not open, short press the power button to enter standby mode.

DISPLAY ON-

In standby mode, press any button to wake the screen.

2. MENU BUTTON

COLOR PALETTES SHORTCUT -

When the menu is not open, short press the menu button to switch between color palettes.

MAIN MENU -

Press and hold the menu button to open the Main Menu.

CONFIRM AND BACK/EXIT -

When main menu is open, short press the menu button to confirm the current selection; Press and hold the menu button to save and exit to previous menu.

3. RECORD BUTTON

TAKE A PHOTO -

Short press the shutter button to take a photo.

VIDEO RECORDING -

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

4. RANGING BUTTON

Single Ranging: Short press for single ranging, long press to switch ranging modes.

Continuous Ranging: Short press for reactivating continuous ranging, long press to switch ranging modes.

5. FUNCTION WHEEL

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

6. MENU + RECORD BUTTON

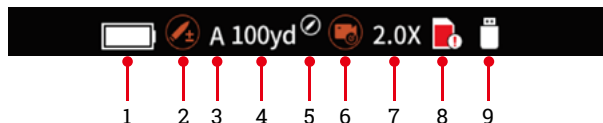
Short press the menu button and record button at the same time for quick access to PIP.

7. MENU + RANGING BUTTON

Short press the menu button and ranging button at the same time for quick access to compensation mode.

[FUNCTION DESCRIPTION]

1. HOMESCREEN LIST



- | | |
|---------------------------------------|-----------------------------|
| 1. Battery | 6. Auto-Shot Record |
| 2. Ballistic calculator on | 7. Magnification |
| 3. Zeroing profile | 8. Memory card full warning |
| 4. Zeroing distance | 9. USB-C port |
| 5. Ballistic configuration in profile | |

2. MAIN MENU

LASER RANGING

- **Ranging Mode:** Single Ranging and Continuous Ranging mode can be selected. When single ranging mode is selected, short press the ranging button to have the bullet drop holdover point for real-time distance. When the continuous ranging mode is selected, the holdover ballistic data in MOA or MIL will be displayed on the screen (no holdover point on the reticle displayed).

- **Continuous Ranging Time:** 5/10/20 seconds can be selected.
- **Ranging Cursor Type:** 3 different ranging cursors can be selected.
- **Ranging Cursor Color:** Can be selected in orange/white/blue/green.
- **Ranging Angle:** Can be turned on and off.

BALLISTIC SOLUTION

- **Ballistic Calculator:** Can be turned on or off. Ballistic profiles must be created in the Athlon Ballistics APP first. See page 23.
- **Angular Measurement:** MOA or MIL can be selected.
- **Tilt Indicator:** On-screen display of vertical pitch and horizontal tilt. Can be turned on or off.
- **BDC Holdover:** 4 distances can be set for holdover.
- **Holdover Style:** 4 different styles can be selected (Fork, Cross, Dot, and Line).
- **Holdover Color:** 4 different colors can be selected (Blue, Red, Green, Orange, and White).

IMAGE ADJUSTMENT

- **PIP:** Can be turned on or off. Choose from top left, top middle, and top right positions.
- **Color Palettes:** switch among seven color palettes (white hot, black hot, adjustable red hot, iron red, blue hot, green hot, and sepia).

- **Scene Mode:** Three scene modes, nature/enhanced/highlight, can be set.
- **Image Brightness:** Adjustable for 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 enhanced by turning on.
- **Hot Track:** When turned on, a white cross cursor is displayed to trace the highest temperature point in the full image.
- **Compensation Mode:** 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.
- **Compensation Timer:** Timer for completing a calibration can be turned on or off.
- **Defective Pixel Correction:** Move the X and Y coordinates to the position of the defective pixel on screen, and complete the correction.

RETICLE

- **Profile Configuration:** 10 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, MOA 1-5 and MIL 1-5.
- **Reticle Color:** 6 different colors can be selected (Black, White, Yellow, Green, Blue, Red).
- **Reticle Brightness:** the reticle brightness is adjustable for 1-10 levels.

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.

RECORD SETTINGS

- **Audio:** 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:**
 - **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 1-6 settings; the 6th setting is the most sensitive setting.
- **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.**

POWER SETTINGS

- **Auto Sleep Tilt Mode:** When the thermal is vertically tilted beyond +/- 70 degrees, the unit will go into a temporary sleep mode. Returning the thermal a horizontal position, the device will resume normal operation. Can be turned on or off.
- **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 scope will be powered off.
- **Timed Menu-off:** the menu can be turned off automatically within 10/20/60 seconds.

WIFI

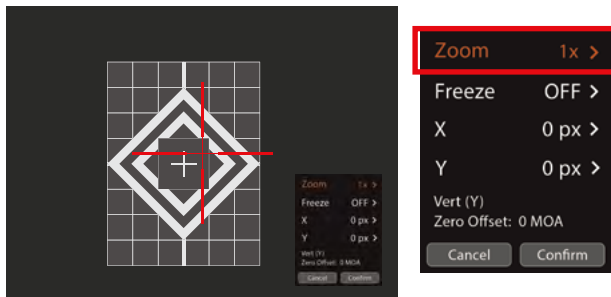
- WiFi can be used to transmit real-time video to your phone after the phone is connected to your device. The device can be operated through the Athlon Ballistics APP to access the devices photos & videos; photos/videos can be played, shared, deleted, etc.
- ▲ **NOTE: Download Athlon Ballistics APP in the mobile phone APP store, open the APP, find the WiFi name 'Cronus DCM PRO XX-XXX' in the settings of mobile phone WiFi, and enter the password '12345678', to start remote operation after successful connection.**

LOCAL SETTINGS

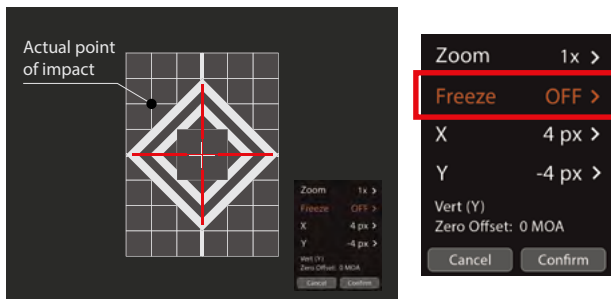
- **Language Setting:** Available in 10 languages (English, French, German, Italian, Spanish, Polish, Czech, Swedish, Hungarian, Portuguese).
- **Unit Measurement:** yard or meter.
- **Time Formats:** Selectable between 12H/24H.
- **Date Formats:** Optional from MM-DD-YYYY / YYYY-MM-DD / DD-MM-YYYY.
- **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.
- **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.

- ONE SHOT ZERO CALIBRATION -

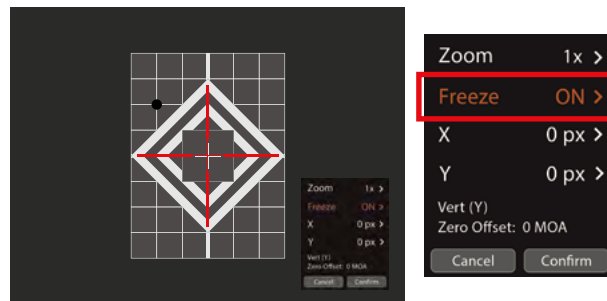
To sight in the rifle to your zero position, go to Zeroing Settings interface via the main menu to choose a zeroing distance and start the process.



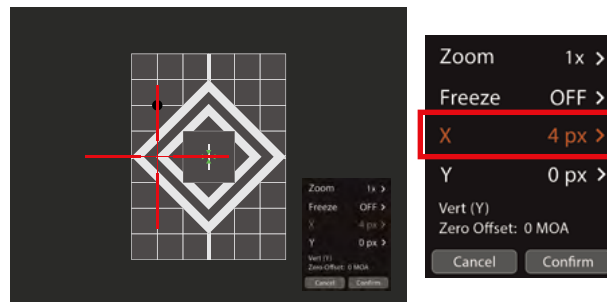
1. Short press the menu button and rotate the function wheel to select the desired zoom (1X, 2X, 4X). Short press the menu button to confirm zoom selection.



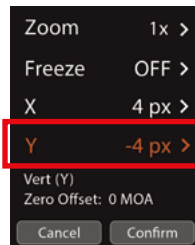
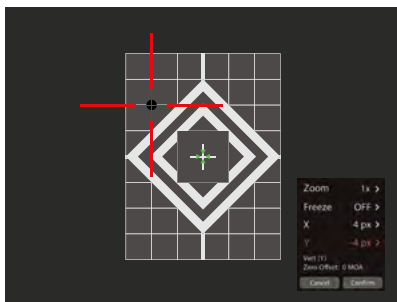
2. Rotate the function wheel to navigate to the freeze option.
3. Aim the reticle center to the center of the target and shoot.



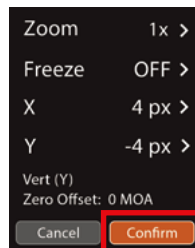
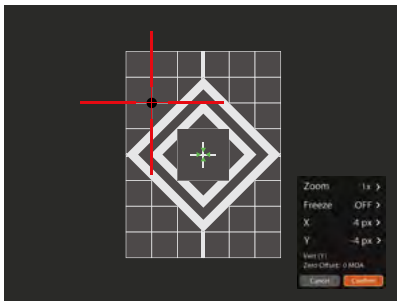
5. Hold the rifle as steady as possible and make sure the center of the reticle is pointing at the center of the target.
6. Short press the menu button and rotate the function wheel to select ON to freeze the image, short press to confirm.



7. Rotate the function wheel to navigate to the "X" value.
8. Short press the menu button, and rotate the function wheel to adjust the "X" value until the center of the reticle aligns with the point of impact.
9. Short press the menu button to confirm and exit.



10. Rotate the function wheel to select the "Y" value.
11. Short press the menu button, and rotate the function wheel to adjust the "Y" value until the center of the reticle aligns with the point of impact.
12. Short press the menu button to confirm and exit.



13. Rotate the function wheel to select the "Confirm" option.
14. Short press the menu button to confirm and exit.

- 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 Ballistics 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-

- 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%.
- 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.

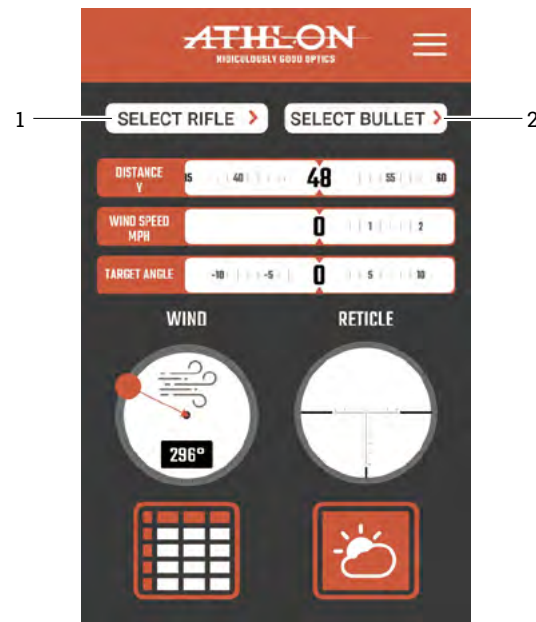
4. SCREEN GOES OUT DURING USE.

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.

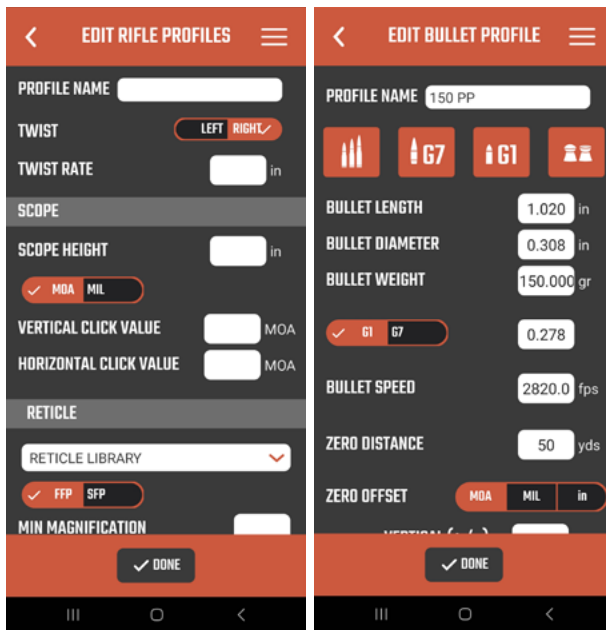
Solution: Turn the lens to focus manually until the display is clear.

- BALLISTIC APP -



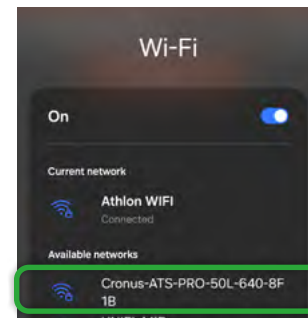
Downloading the Athlon Ballistics app enables ballistic functionality with Athlon thermal devices.

In the app, start by creating your rifle and bullet profiles. These can be transmitted to your thermal device.

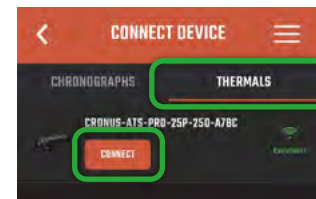


- 1) Create a rifle profile.
 - 2) Create a bullet profile. Once the fields have been completed, tapping **DONE** will save your profile.
- ⚠ NOTE: When creating these profiles, ensure you are providing accurate details in order to get accurate ballistics.**

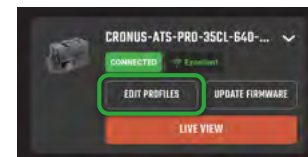
- 3) Enable the WiFi on your thermal device
- 4) In your phones Wi-Fi settings, select the Wi-Fi network of the thermal device
- 5) Enter the WiFi password: **12345678**



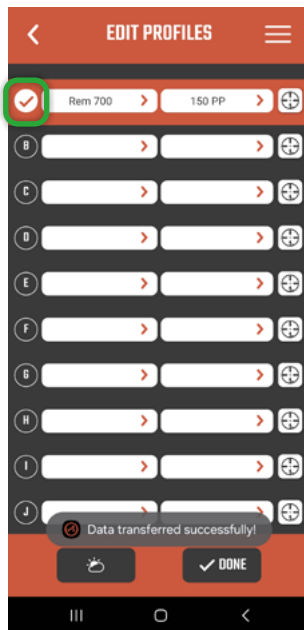
- 6) Open the Ballistic apps menu (≡) and select **CONNECT DEVICE**
- 7) Once in **CONNECT DEVICE**, ensure you have the **THERMALS** tab selected. The thermal device will be displayed, tap **CONNECT**



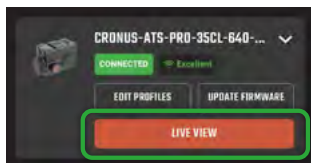
- 8) Once connected, select **EDIT PROFILES** to create a thermal profile



- 9) A thermal profile consists of a Rifle and Bullet profile assigned to a letter A - J. The profile can then be transferred to your thermal device by tapping **DONE**



- 10) Enter **LIVE VIEW** to remotely control your thermal device



- DETAILED OPERATION -

To view a detailed instruction manual, please visit the product page on our website
www.AthlonOptics.com

! WARNING

• **INGESTION HAZARD:** THIS PRODUCT CONTAINS A BUTTON CELL OR COIN BATTERY. • **DEATH** OR SERIOUS INJURY CAN OCCUR IF INGESTED. • A SWALLOWED BUTTON CELL OR COIN BATTERY CAN CAUSE **INTERNAL CHEMICAL BURNS** IN AS LITTLE AS **2 HOURS**. • **KEEP** NEW AND USED BATTERIES **OUT OF REACH OF CHILDREN**. • **SEEK IMMEDIATE MEDICAL ATTENTION** IF A BATTERY IS SUSPECTED TO BE SWALLOWED OR INSERTED INSIDE ANY PART OF THE BODY. FOR TREATMENT INFORMATION CALL: **1-800-498-8666**. **BATTERY TYPE: MS621FE** NOMINAL VOLTAGE: 3.0V 5MAH.



! WARNING

REMOVE AND IMMEDIATELY RECYCLE OR DISPOSE OF USED BATTERIES ACCORDING TO LOCAL REGULATIONS AND KEEP AWAY FROM CHILDREN. **DO NOT** DISPOSE OF BATTERIES IN HOUSEHOLD TRASH OR INCINERATE. EVEN USED BATTERIES MAY CAUSE **SEVERE INJURY OR DEATH**.

CALL A LOCAL POISON CONTROL CENTER FOR TREATMENT INFORMATION. NON-RECHARGEABLE BATTERIES ARE NOT TO BE RECHARGED. **DO NOT** FORCE DISCHARGE, RECHARGE, DISASSEMBLE, HEAT ABOVE 160°F OR INCINERATE. DOING SO MAY RESULT IN INJURY DUE TO VENTING, LEAKAGE OR EXPLOSION RESULTING IN CHEMICAL BURNS. DO NOT COOL BELOW -40°F. ENSURE THE BATTERIES ARE INSTALLED CORRECTLY ACCORDING TO POLARITY (+ AND -). REMOVE AND IMMEDIATELY RECYCLE OR DISPOSE OF BATTERIES FROM EQUIPMENT NOT USED FOR AN EXTENDED PERIOD OF TIME ACCORDING TO LOCAL REGULATIONS.

ALWAYS COMPLETELY SECURE THE BATTERY COMPARTMENT. IF THE BATTERY COMPARTMENT DOES NOT CLOSE SECURELY, STOP USING THE PRODUCT, REMOVE THE BATTERIES, AND KEEP THEM AWAY FROM CHILDREN.

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

Toll free: 1-855-913-5678

contact@athlonoptics.com

**10817 RENNER BLVD,
LENEXA, KS 66219**

athlonoptics.com