



**MAZTECH  
INDUSTRIES**



**X4 FIRE CONTROL SYSTEM**

**X4-FCS**

WITH



**USER MANUAL**

March 2025

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**CONGRATULATIONS ON YOUR PURCHASE!**

The X4-FCS™ is a revolutionary fire control system (FCS) with integrated Applied Ballistics® calculator for your preferred Low Power Variable Optic (LPVO).

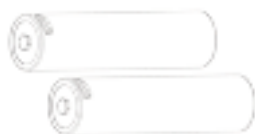
This User Manual will give you “the basics” on how to install and configure your X4-FCS™.

For instructional videos and a more detailed online user manual, it is recommended that you visit our website at [www.MaztechIndustries.com](http://www.MaztechIndustries.com). You can also get there by scanning this QR code with your smartphone or tablet:



## PACKAGE CONTENTS

The following are included with the X4-FCS™:



**18650 Batteries**



**Bluetooth®  
USB Dongle**



**USB-C Cables**



**T15 Torx Wrench**



**Mini Flathead  
Screwdriver**



**Loctite® 242**



Cloth Drawstring Bag



Stickers



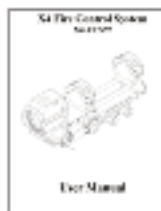
Lens Cleaning Cloth



Patch



Quick Start Guide

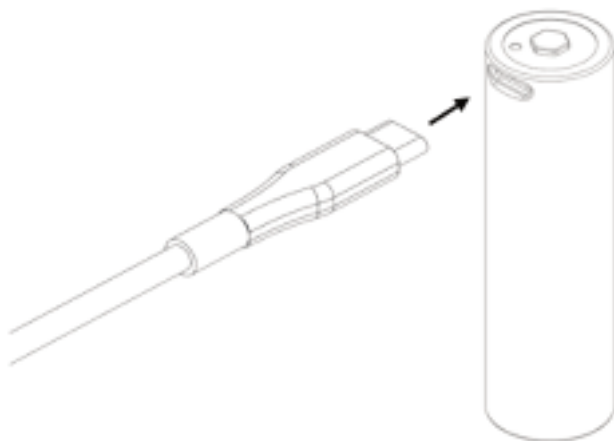


This Manual

### CHARGING YOUR BATTERIES

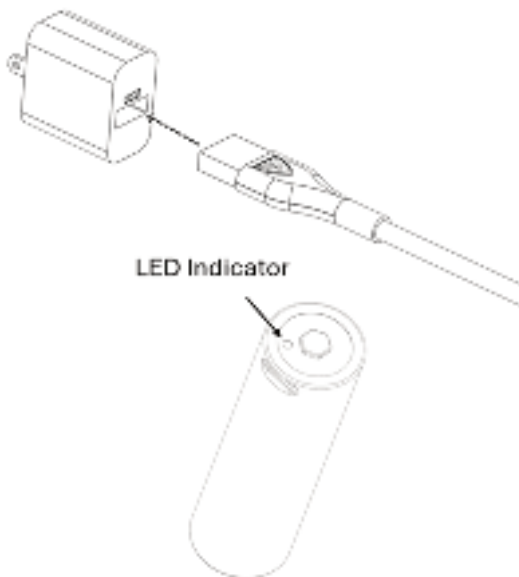
It is recommended to charge the Maztech 18650 batteries before first use by utilizing the provided USB-C cables:

Plug the USB-C cable into the battery charging port:





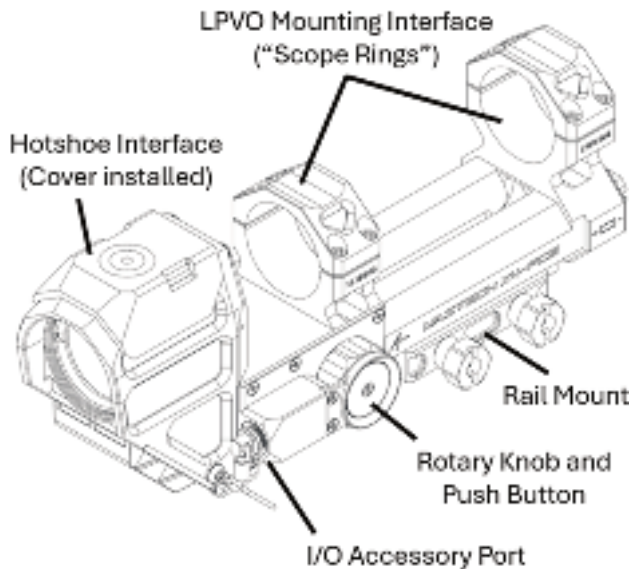
Plug the other end into any standard USB port or wall-charger (not provided):

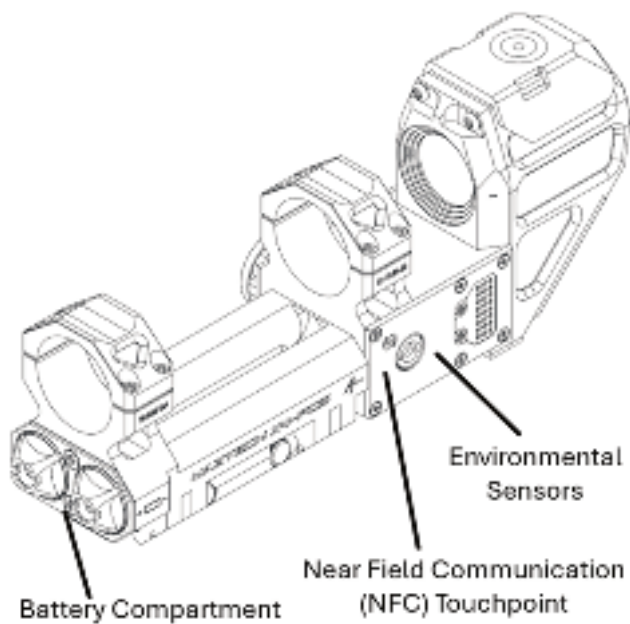


When properly charging, a small LED on the battery will **blink red**. It will become **solid red** when charging is complete

- **Important:** If the light on the battery is **solid green**, this means the battery is NOT charging. Try a different power source.

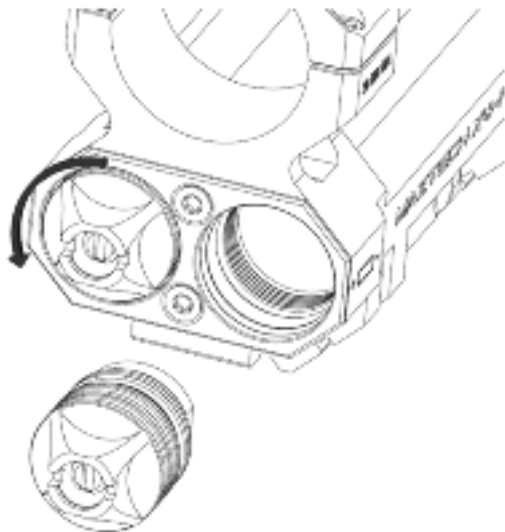
GETTING TO KNOW YOUR X4-FCS™



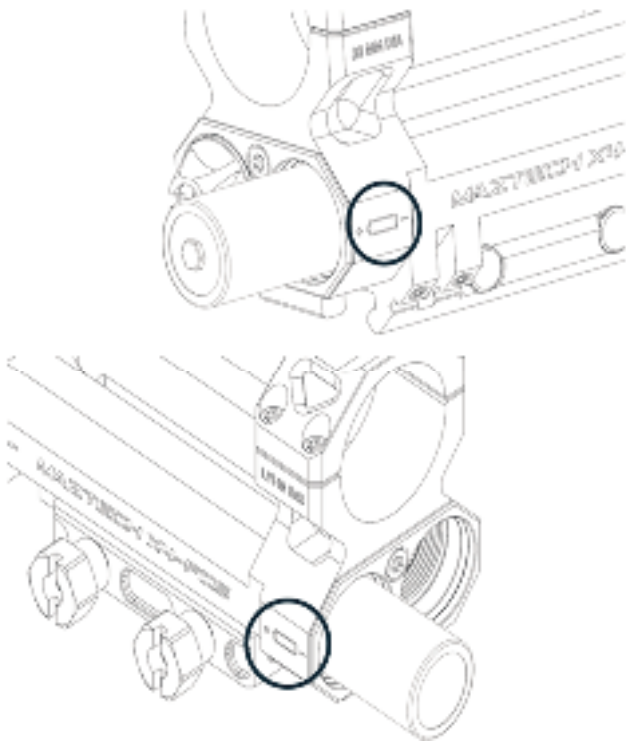


## INSTALLING BATTERIES

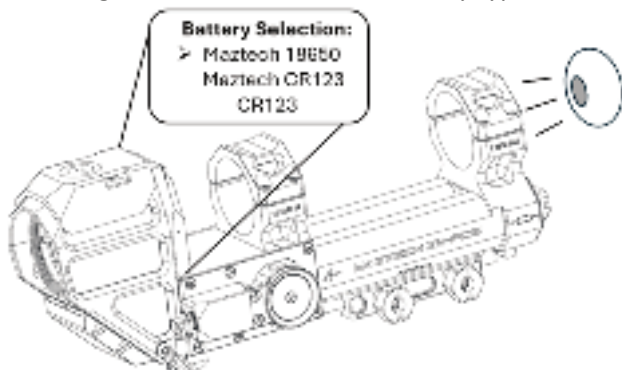
Unscrew the battery caps by hand:



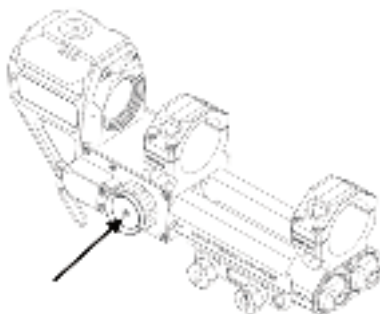
Insert 18650 batteries with +/- polarity as shown on the X4-FCS™ housing:



Hand-tighten the battery caps, then look into the X4-FCS™ display as shown. Confirm the arrow is selecting **Maztech 18650** as the battery type:



Press the button on the X4-FCS™ to confirm battery type selection:



The X4-FCS™ display should now look as follows:



Note on Alternate Batteries:

- Use only **protected cell** 18650 batteries\*  
OR
- **Four CR123 batteries** can also be utilized. See Maztech's Online User Manual at [www.MaztechIndustries.com](http://www.MaztechIndustries.com) for instructions on how to adjust your X4-FCS™ battery caps to work with CR123 batteries.

*\*18650 battery lengths can vary. See Online User Manual for instructions on how to adjust your X4-FCS™ battery caps to work with alternate batteries*

**For important Battery Safety Information, see the Battery Safety section at the end of this manual.**

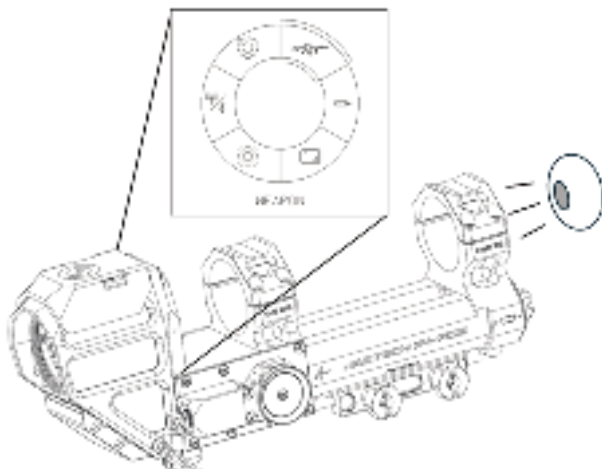
## POWERING ON/OFF YOUR X4-FCS™

The X4-FCS™ will automatically power-down after **30 minutes** of non-use (see the online manual to adjust this setting).

- **Shake-to-wake**: When motion is detected, it will power-up automatically.

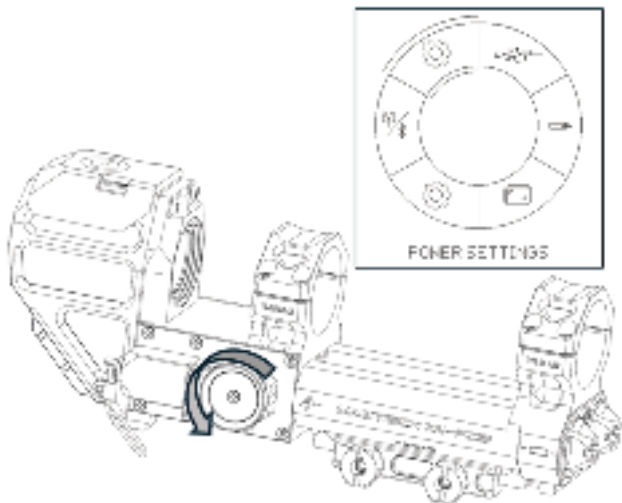
To **manually** power-down and prevent motion from powering up the X4-FCS™:

- **Click and hold** (for 1 second) the X4-FCS™ button. Then look into the X4-FCS™ display to see the X4-FCS™ main menu:

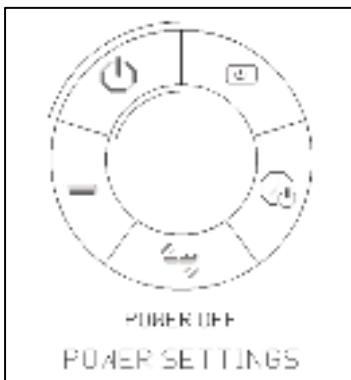




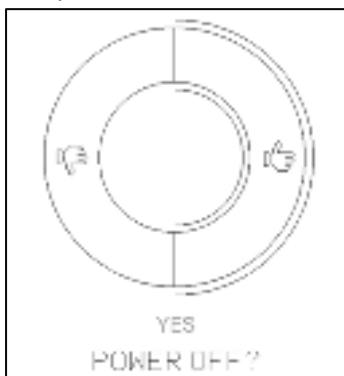
Rotate the knob to the POWER SETTINGS menu and click the button to select:



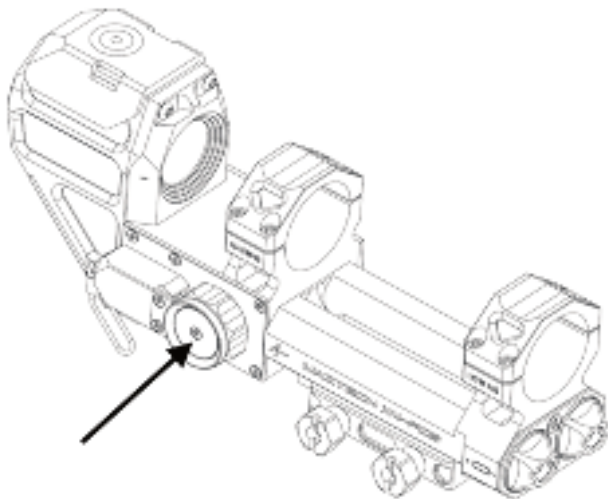
Rotate the knob again and select POWER OFF:



Rotate the knob again and select YES (with Thumbs-Up):



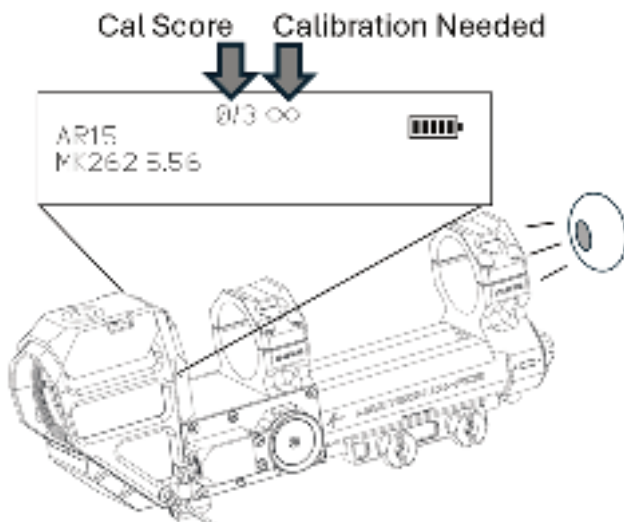
**Important:** After manually powering down the X4-FCS™, it will only turn back on when you press the X4-FCS™ button:



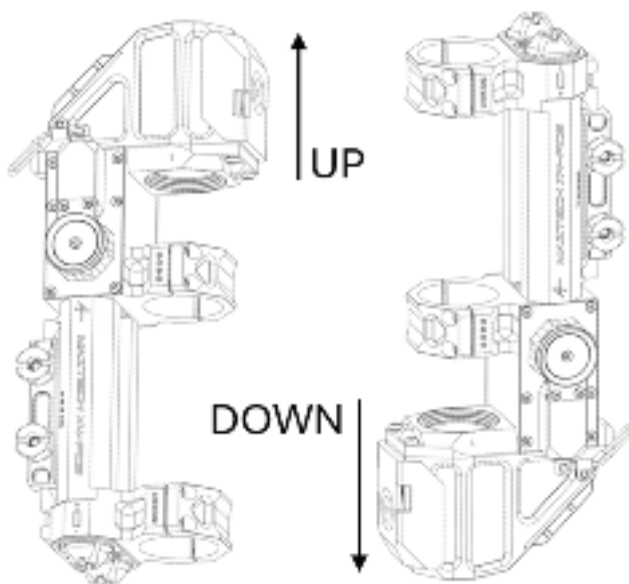
## X4-FCS™ COMPASS CALIBRATION

After batteries are installed, a simple calibration routine needs to be performed in order for the X4-FCS™ to display an accurate compass heading.

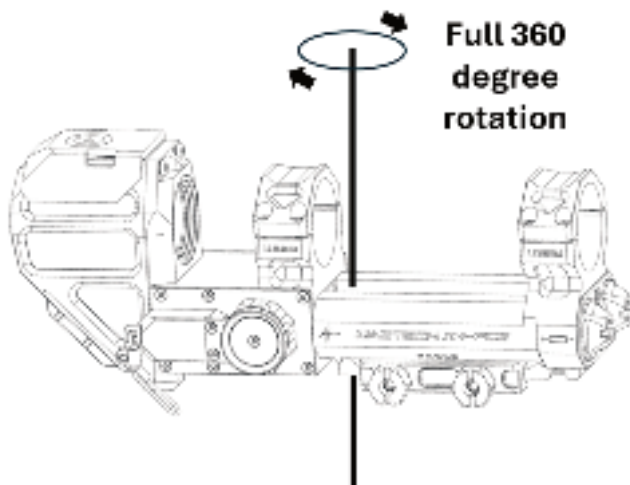
Looking into the X4-FCS™ display, you should see the following two indicators:



- **Tip:** If a compass heading is already shown on the display, then compass calibration is not needed.

Compass Calibration **Step 1 of 2:**

Point the X4-FCS™ up and down, holding it in each position for approximately 2 seconds.

Compass Calibration **Step 2 of 2:**

While holding the X4-FCS™ **horizontal** to the ground, spin it around a full 360 degrees.

- **Tip:** For an online video demonstrating compass calibration, go to [www.MaztechIndustries.com](http://www.MaztechIndustries.com)

After a successful calibration, you will see a proper compass heading in the X4-FCS™ display:



- **Tip:** If the compass fails to calibrate, remove and replace the battery cap, then repeat the compass calibration process.

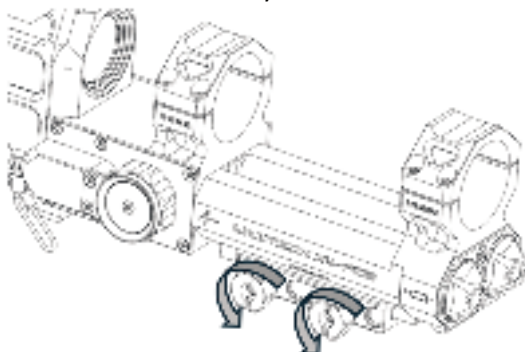
The X4-FCS™ compass will continuously auto-calibrate as you change locations. The only time the compass calibration will need to be re-performed is after the battery is changed.

- **Hint:** After installation of the X4-FCS™ on your weapon, field-strip your firearm in order to safely and easily perform compass calibration without having to remove the X4-FCS™ from your weapon.

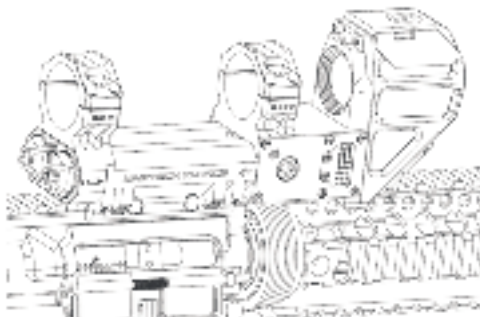
## INSTALLING X4-FCS™ ON YOUR WEAPON

**Tip:** Perform compass calibration (see previous section) before installing X4-FCS™ on your weapon

Loosen both rail bolts on your X4-FCS™:

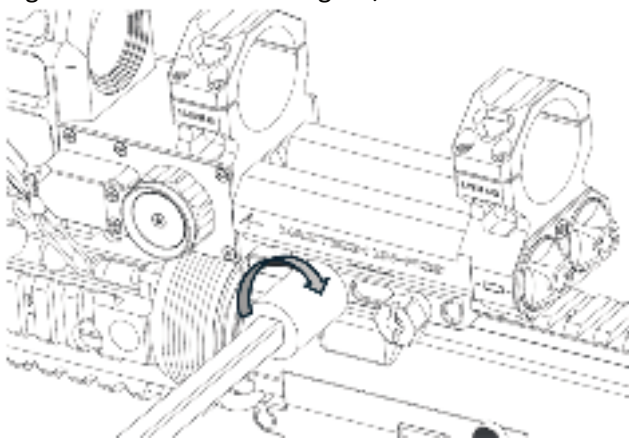


Place X4-FCS™ onto weapon rail:





Tighten both rail bolts using a 1/2-inch wrench:

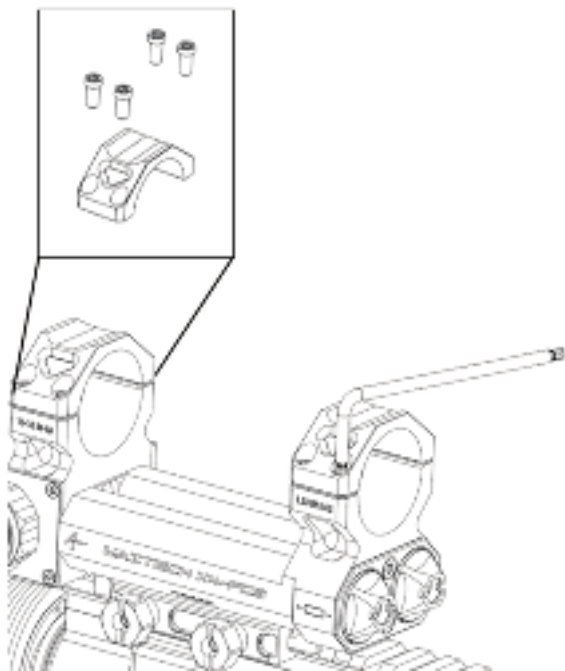


**Important:** Do not torque more than **77-in-lb**. If you do not have a torque wrench, turn to 1/4 turn past hand-tight.

## INSTALLING YOUR LPVO

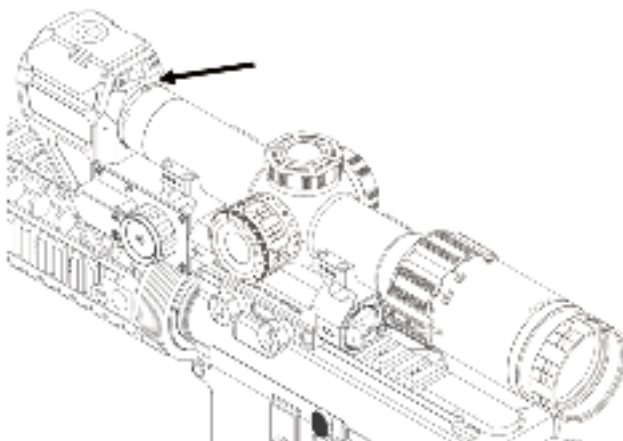
**Tip:** Install X4-FCS™ on your weapon (see previous section) before installing your LPVO.

Use a T15 Torx tool (provided) to remove the scope rings from the X4-FCS™:



**Important:** If you purchased an X4-FCS™ Diving Board Mount or you want to install a Reptilia® or Geissele® red-dot mount on top of your X4-FCS™, now is the time to locate it and have it ready to install.

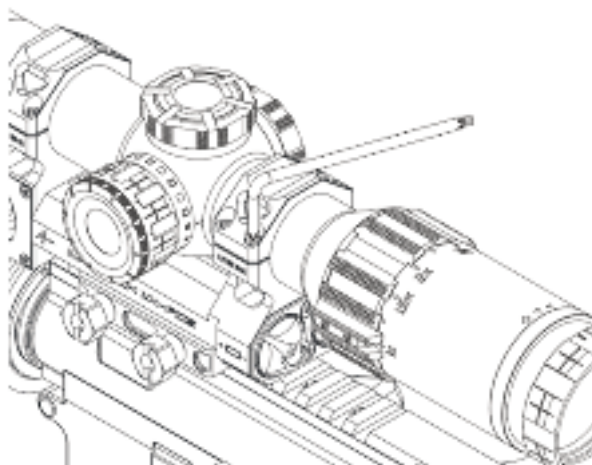
Place your LPVO inside the X4-FCS™ so that the front of the LPVO is contacting the X4-FCS™ housing:



**Tip:** If you are using the X4-FCS™ in a maritime environment, leave a small gap to allow for quicker water egress.

Place the scope rings back on the X4-FCS™ and **loosely-tighten** the T15 Torx fasteners:

- **Note:** If desired, use X4 Diving Board Mount or Reptilia® or Geissele® red-dot mount instead of the X4-FCS™ Scope Rings. In these cases, it is required to use the fasteners from the original manufacturer.

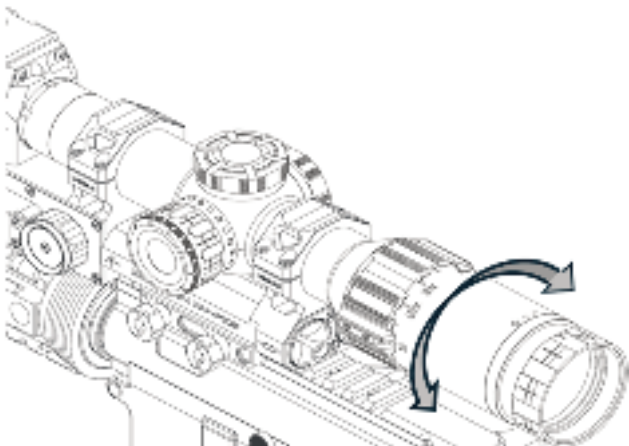


**Important:** Tightening the fasteners occurs after LPVO alignment (see next page).

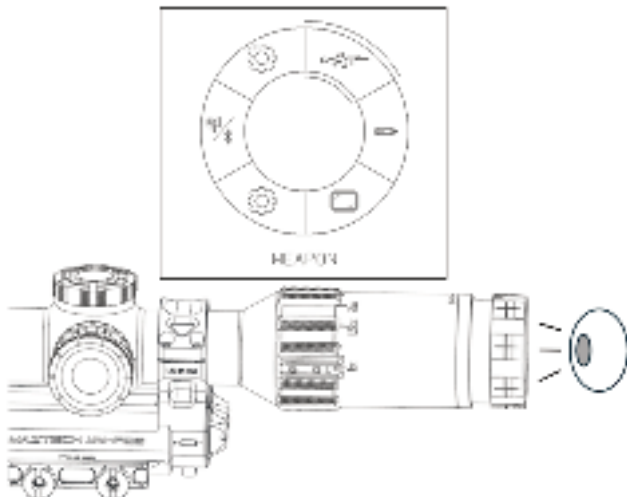
### LPVO INITIAL ALIGNMENT

After installing your LPVO (see previous section), the X4-FCS™ needs to be aligned to your LPVO reticle.

Slightly loosen the T15 Torx fasteners so your LPVO can **rotate** inside of the scope rings:



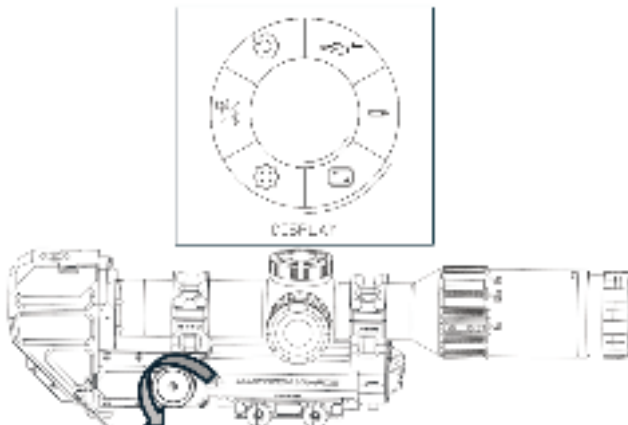
**Click and hold** (for 1 second) the X4-FCS™ button. Then look through your LPVO to see the X4-FCS™ main menu:



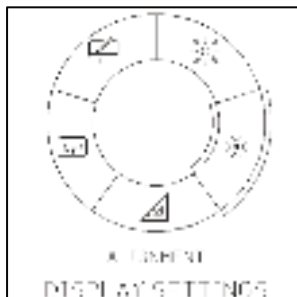
- **Hint:** It is helpful to adjust the zoom of your LPVO in order to easily see the X4-FCS™ menus. However, be sure to balance the zoom level so that you can still see the instructions above each menu:

SINGLE-CLICK: SELECT  
LONG-CLICK: EXIT  
DOUBLE-CLICK: EXIT

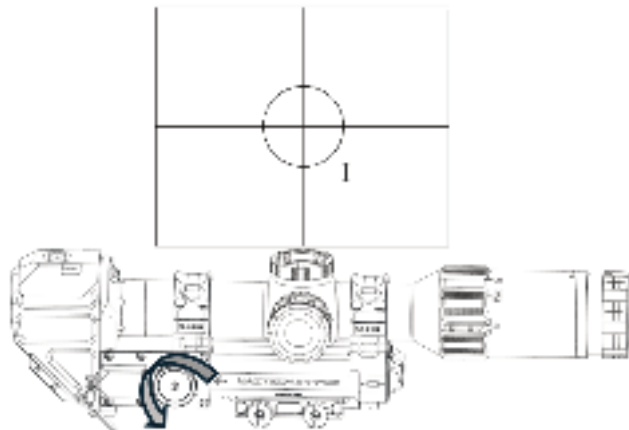
Rotate the knob to the DISPLAY menu. Then click the X4-FCS™ button:



Rotate the knob again and click to select ALIGNMENT:



Now use the X4-FCS™ knob to move the X4-FCS™ crosshairs to align with your LPVO reticle:



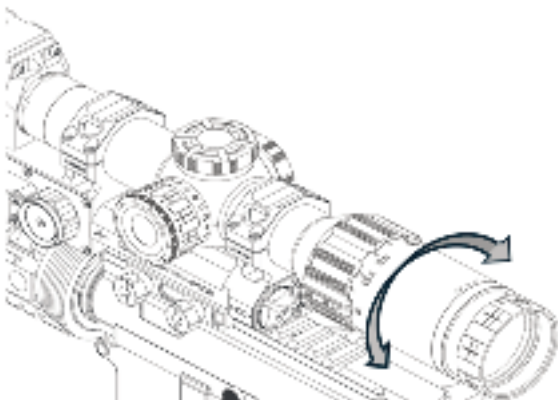
**Single-clicking** the X4-FCS™ button will toggle between knob functions:

- ❖ Left-Right
- ❖ Up-Down

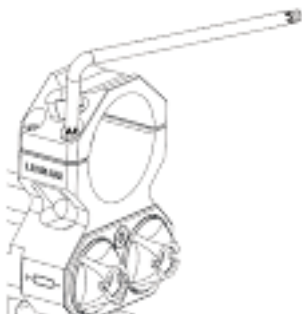
- **Hint:** During alignment, adjust your LPVO to the maximum zoom level that allows you to properly see both reticles.



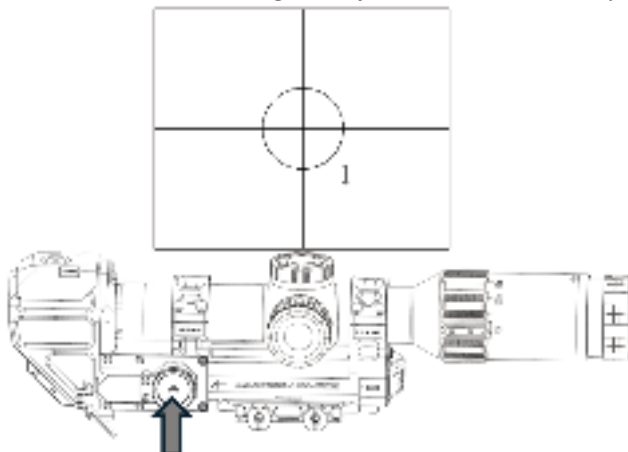
**Rotate** your LPVO so its reticle and the X4-FCS™ reticle are horizontally aligned with each other:



When the rotation is aligned, **hand-tighten** the scope rings so the LPVO can no longer rotate:



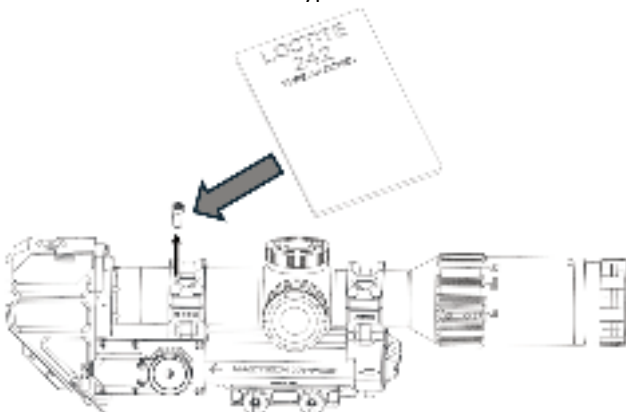
Re-check the X4-FCS™ crosshairs against the LPVO reticle and continue digital adjustment, if necessary:



**Click and hold (for 1 second)** the X4-FCS™ button to save the alignment settings.

Finally, remove one of the scope ring fasteners, apply **Loctite® 242** (provided) to the threads and re-install the fastener with 15 to 18 in-lbs of torque:

- **Note:** Use of Loctite® 242 is optional. However, do NOT use other types of thread locker.



Repeat for each of the eight scope ring fasteners, one at a time to keep the LPVO in place.

### **Congratulations on completing initial alignment!**

- The **final digital alignment** will occur after weapon zeroing at the firing range (page 50).

### INSTALLING THE MAZTECH COMPANION APP

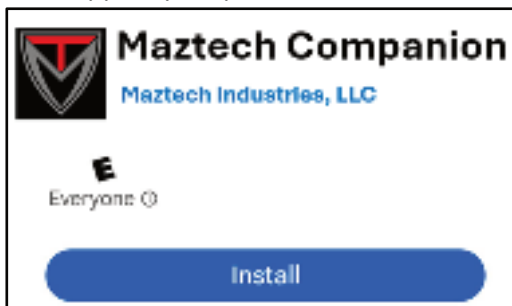
Maztech recommends connecting your X4-FCS™ to your smartphone via Bluetooth® Wireless Technology for the most efficient setup of your ballistic profiles.

- **Note:** If you do not want to connect your X4-FCS™ to your smartphone, reference the online manual at [www.MaztechIndustries.com](http://www.MaztechIndustries.com) for instructions on setting up ballistics profiles without a wireless connection.

Use your smartphone to connect to the App Store or Google Play:



Search for **Maztech** or **Maztech Companion** and install the app on your phone:



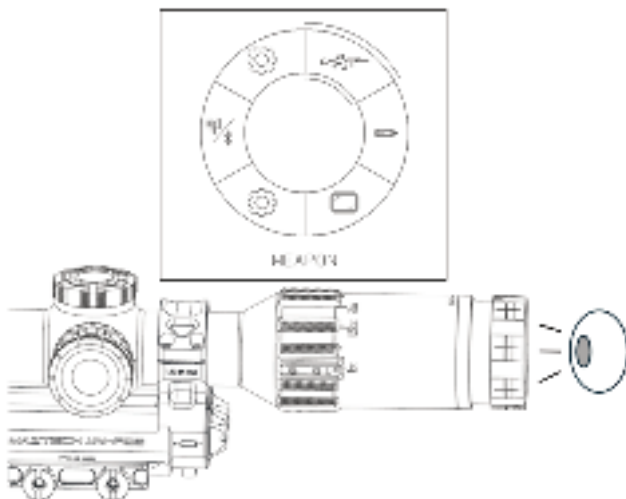
Launch the Maztech Companion App and you should see a screen that looks like this:



**Note:** Before attempting to initiate a wireless connection to the X4-FCS™, verify you have Bluetooth® enabled on your smartphone.

CONNECTING X4-FCS™ TO MAZTECH COMPANION APP

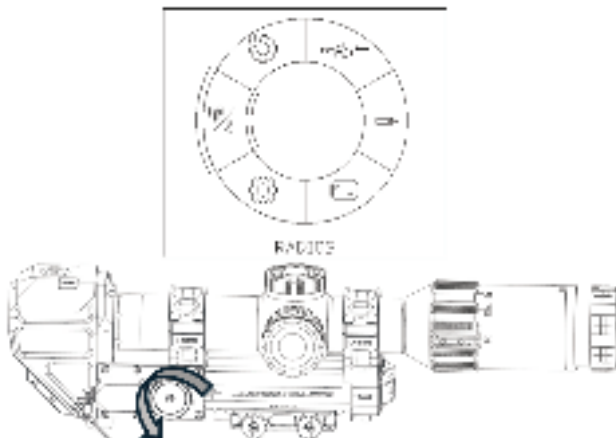
**Click and hold** (for 1 second) the X4-FCS™ button. Then look through your LPVO to see the X4-FCS™ main menu:



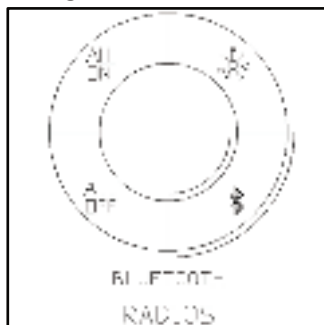
- **Hint:** It is helpful to adjust the zoom of your LPVO in order to easily see the X4-FCS™ menus. However, be sure to balance the zoom level so that you can still see the instructions above the menu:

SINGLE-CLICK: SELECT  
LONG-CLICK: EXIT  
DOUBLE-CLICK: EXIT

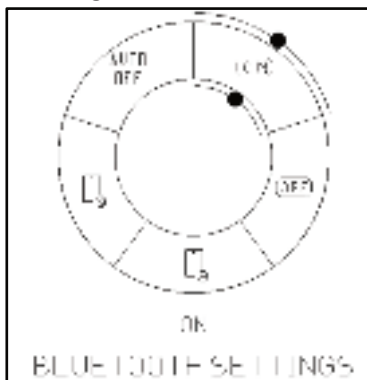
Rotate the knob to the RADIOS menu. Then click the X4-FCS™ button:



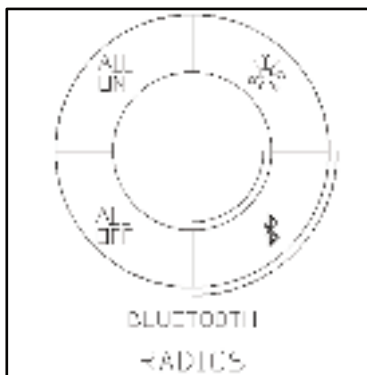
Rotate the knob again and select BLUETOOTH®:



Rotate the knob again and select Bluetooth® ON:

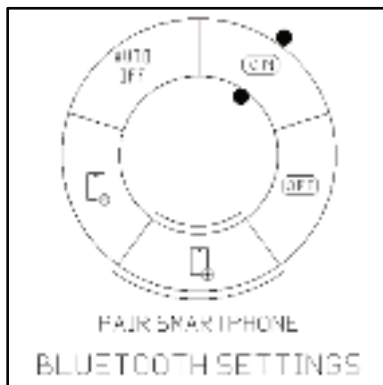


Click the button **again** to re-enter the BLUETOOTH® sub-menu:

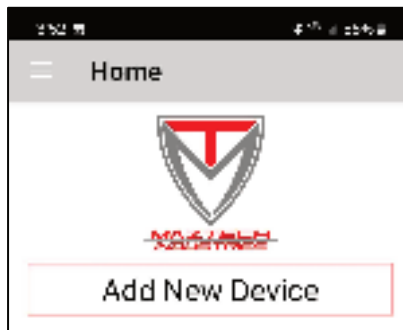




Finally, rotate the knob and select  
**PAIR SMARTPHONE:**



On the Maztech Companion App, touch the  
**Add New Device** button:

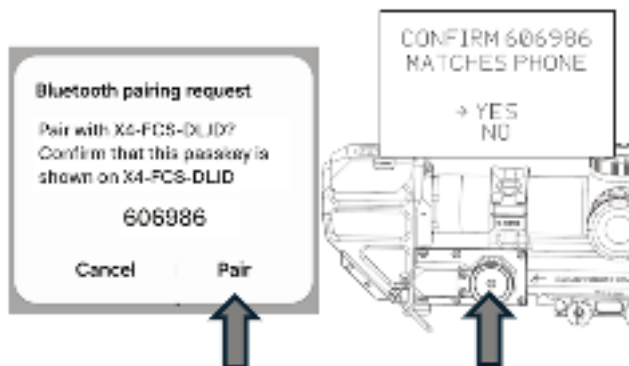


Your X4-FCS™ will show up as an available device.

Touch the box with the **red** outline:



After pairing starts, you will need to respond to confirmations on **both** devices:



Touch **Pair** on your phone and click the X4-FCS™ button to confirm pairing operation

When pairing is complete, the X4-FCS™ will show up as an device in the Maztech Companion App:



Touch here to connect to the X4-FCS™ via Bluetooth® Wireless Technology.

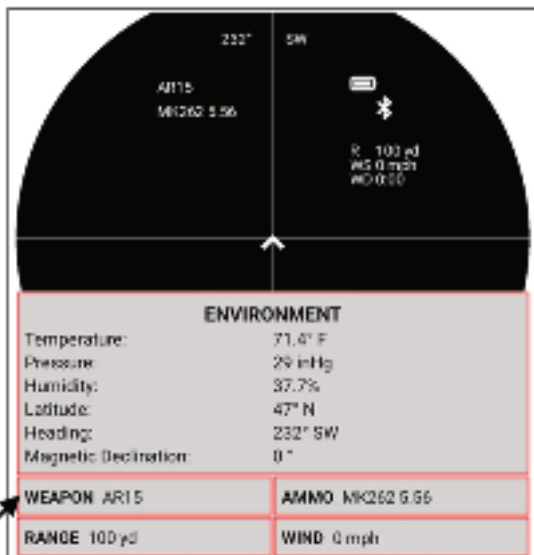
Note: It will take **approximately 10 seconds** to create an encrypted connection:



## SETTING UP BALLISTIC PROFILES

You can now use your Maztech Companion App to setup ballistic profiles on your X4-FCS™.

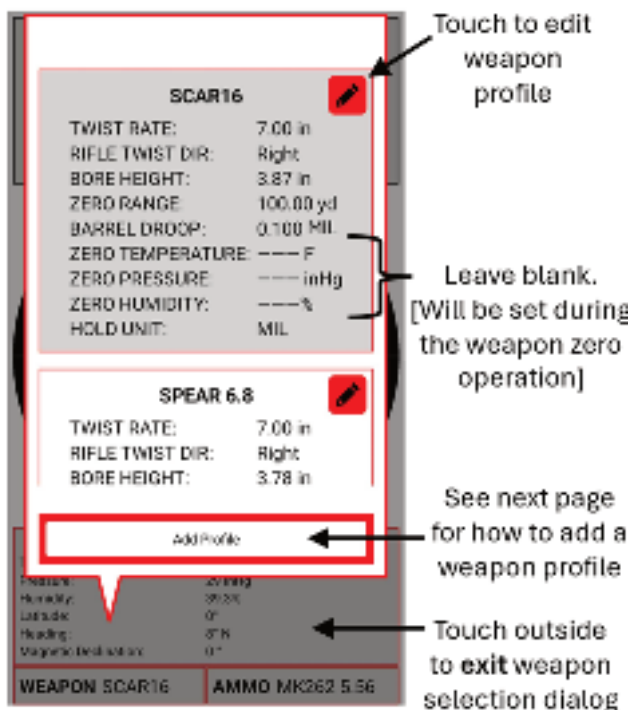
- **Note:** If you do not want to connect your X4-FCS™ to your smartphone, reference the online manual at [www.MaztechIndustries.com](http://www.MaztechIndustries.com) for instructions on setting up ballistics profiles without a wireless connection.



Touch here to select your weapon

- **Hint:** Anything in the app with a red box around it is something you can touch to adjust

Scroll through and select one of the 5 common weapon profiles already available, or touch **Add Profile** to create a profile for your weapon:



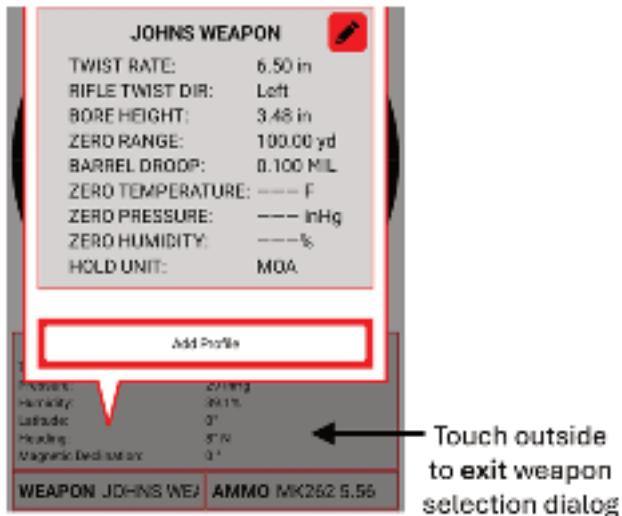
## Instructions for adding a new weapon profile:

The screenshot shows a 'Profile Name:' field at the top with the text 'NEWWEAPON' entered. Below this are several input fields for weapon specifications, each with a unit and a green checkmark icon to its right. Annotations with arrows point to specific fields: 'Name your weapon' points to the profile name field; 'Set as appropriate for your weapon' points to a bracket covering 'RIFLE TWIST RATE', 'RIFLE TWIST DIR', and 'BORE HEIGHT'; 'Leave at default\*' points to the 'BARREL DROOP' field; and 'Leave blank. [Will be set during the weapon zero operation]' points to a bracket covering 'ZERO TEMPERATURE', 'ZERO PRESSURE', and 'ZERO HUMIDITY'. At the bottom are 'Okay' and 'Cancel' buttons.

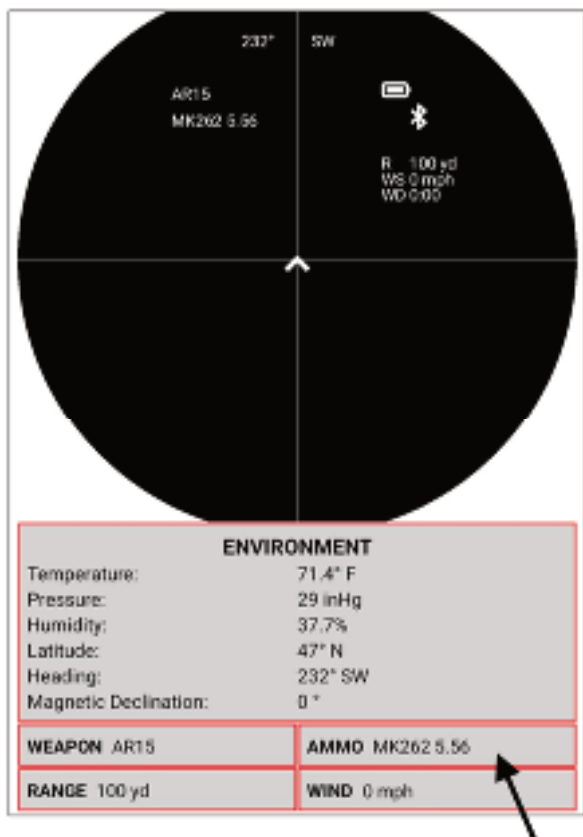
Field	Value	Unit	Status
Profile Name	NEWWEAPON		
RIFLE TWIST RATE	1: 1	in	✓
RIFLE TWIST DIR	Right		
BORE HEIGHT	0	in	✓
ZERO RANGE	100	yd	✓
BARREL DROOP	0.1	in	✓
ZERO TEMPERATURE		F	✓
ZERO PRESSURE		in-Hg	✓
ZERO HUMIDITY		%	✓
HOLDS UNIT	MOA		

\*Barrel Droop is an advanced Applied Ballistics® setting. Most users can use the default value. If desired, see X4-FCS™ Online User Manual for instructions on setting Barrel Droop.

Example of a successful **new** weapon profile:

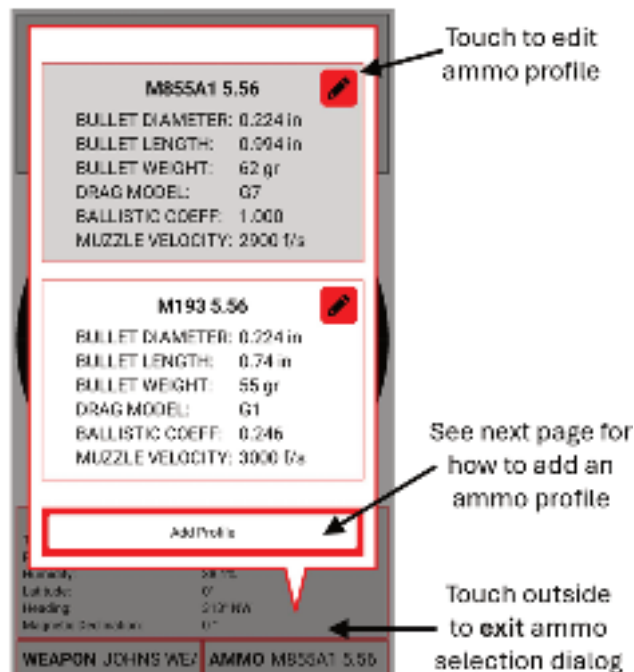






Touch here to select your ammunition

You can scroll through and select one of the 5 common ammunition profiles already available, or touch **Add Profile** to create a profile for your ammo:



Instructions for adding a new ammo profile:

The screenshot shows a form titled 'Profile Name: JOHNS AMMO'. It contains several input fields for ammunition specifications, each with a green checkmark indicating it is filled or valid. To the right of the form, a bracket groups the first five fields with the text 'Set as appropriate for your ammo'. Below this, the word 'OR' is displayed. An arrow points from the text 'Touch to choose from Applied Ballistics® database' to a red button labeled 'Choose new Bullet' at the bottom of the form. Below this button are two smaller red buttons labeled 'Okay' and 'Cancel'.

Profile Name: JOHNS AMMO			
BULLET DIAMETER:	0.224	in	✓
BULLET LENGTH:	0.85	in	✓
BULLET WEIGHT:	97	gr	✓
DRAK CURVE:	0.7		
BALLISTIC COEFFICIENT:	0.287		✓
MUZZLE VELOCITY:	2990	f/s	✓

Set as appropriate for your ammo

OR


Touch to choose from Applied Ballistics® database

Choose new Bullet

Okay Cancel

**Hint:** Try finding your ammunition in the Applied Ballistics® database before manually entering any information.

**Muzzle Velocity:** For best results, use a chronograph to measure your muzzle velocity. Otherwise, use your ammunition manufacturer's box or online references.



Profile Name:

## HORNADY FLAT

BULLET DIAMETER: 0.308 in ✓

BULLET LENGTH: 0.995 in ✓

BULLET WEIGHT: 170 gr ✓

DRAG CURVE: Custom

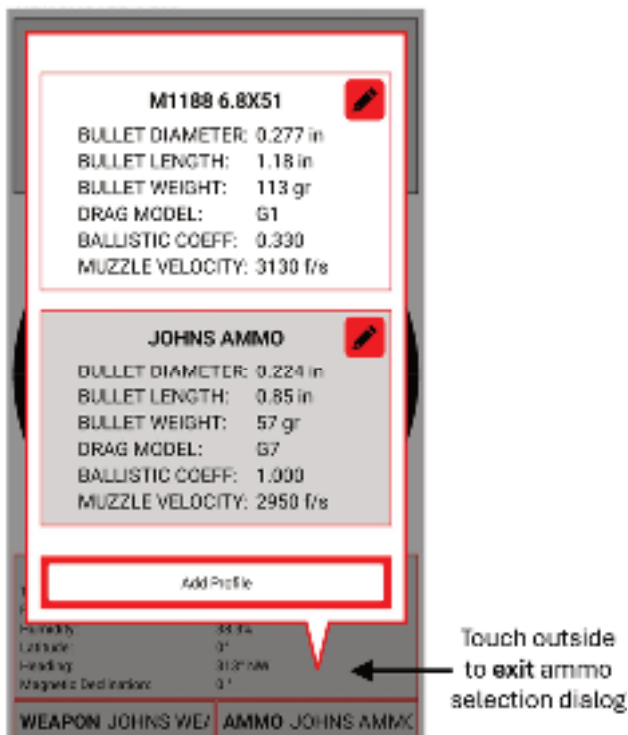
BALLISTIC COEFFICIENT: 1 ✓

MUZZLE VELOCITY: 0 f/s ✗

Choose new Bullet

Okay Cancel

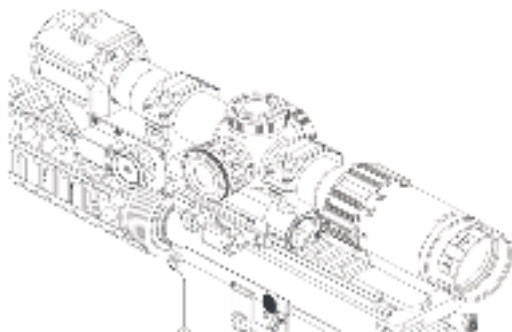
Example of a successful new ammunition profile:



## WEAPON ZEROING AND FINAL LPVO ALIGNMENT

Now that you have set your ballistic profiles and your LPVO and X4-FCS™ are properly mounted on your weapon, head to the range and zero your LPVO using your scope manufacturer's instructions.

- **Note:** Maztech recommends to zero at **100 yards**.



- **Hint:** Turn off the X4-FCS™ (see page 12) during LPVO zeroing to remove X4-FCS™ symbols from your field of view.

Immediately after zeroing your LPVO, ensure your X4-FCS™ is ON and utilize it to capture the current temperature, pressure, and humidity for enhanced zeroing data (see next page).

**Click and hold** (for 1 second) the X4-FCS™ button to bring up the main menu:



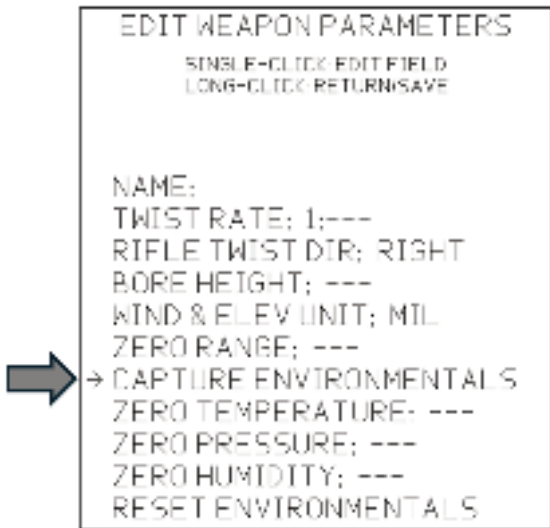
Then, click the X4-FCS™ button again to select the WEAPON menu

**Click and hold** (for 1 second) the X4-FCS™ button to EDIT your selected weapon:

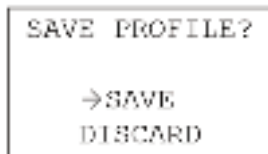




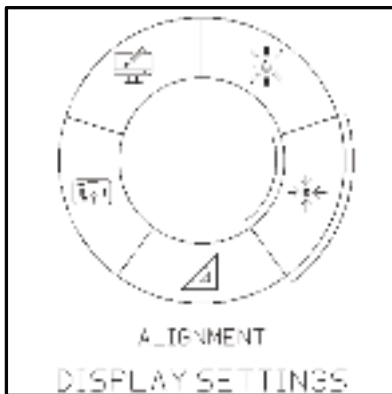
**Rotate** the X4-FCS™ knob to select CAPTURE ENVIRONMENTALS. Click to initiate capture:



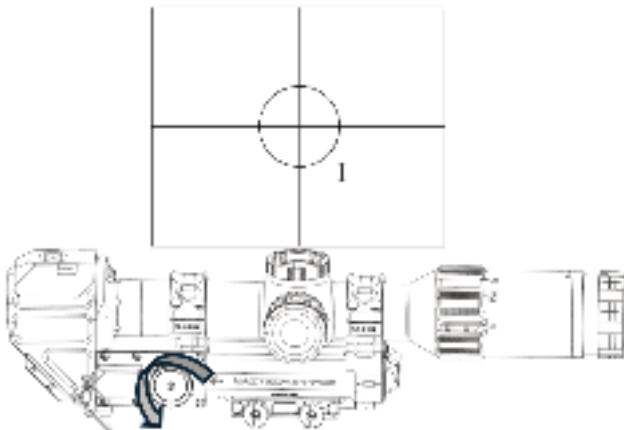
**Click and hold** (for 1 second) the X4-FCS button and click again to confirm:



Now, navigate back to the display alignment screen via the DISPLAY menu:

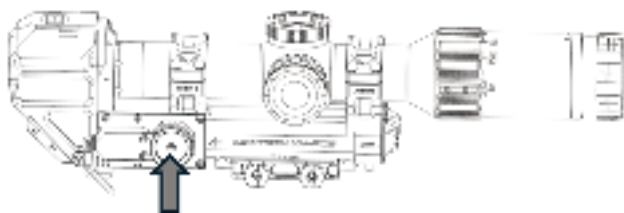


Use the X4-FCS™ knob to ensure the X4-FCS™ crosshairs to align with your LPVO reticle:



**Single-clicking** the X4-FCS™ button will toggle between knob functions:

- ❖ Left-Right
  - ❖ Up-Down
- **Important:** During this final alignment, adjust your LPVO to the maximum zoom level possible (that still allows you to properly see both reticles).



**Click and hold (for 1 second)** the X4-FCS™ button to save the alignment settings.

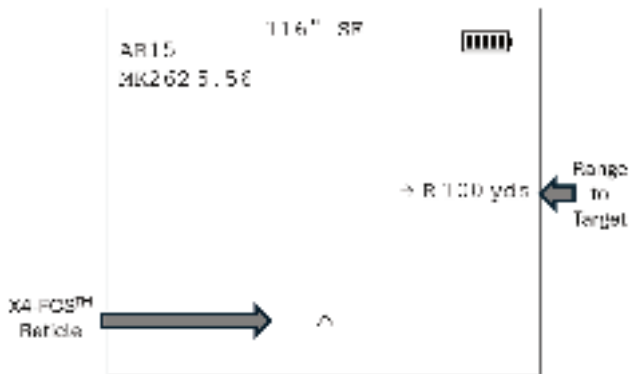
**Final step:** Safely discharge 2 or 3 rounds from your weapon and ensure the reticles remain aligned.

- **Hint:** At your 100-yard zeroing target, the X4-FCS™ reticle (see next page) should also align to your LPVO reticle. If it needs to be adjusted again, you can return to the display ALIGNMENT screen to re-adjust.
- **Tip:** X4-FCS™ compass calibration can be further optimized by safely rotating your weapon per the instructions on page 16.

### USING THE X4-FCS™ RETICLE

The X4-FCS™ reticle will give you a calculated aimpoint based on:

- ✓ X4-FCS™ environmental and motion sensors
- ✓ X4-FCS™ ballistics settings
- ✓ Range to target



To manually set range to target:

- **Scroll** the X4-FCS™ knob to set your range
- Then, while aiming at the intended target:  
**Click** the X4-FCS™ button to save the range setting and calculate your ballistic solution.

**Recommended**: Use the X4-FCS™ in conjunction with the Maztech X4 Laser Rangefinder (X4-LRF™) for fully-integrated ranging.

To manually set other parameters (i.e. wind speed and direction):

- See Online User Manual at [www.MaztechIndustries.com](http://www.MaztechIndustries.com)

You can also get there by scanning this QR code with your smartphone or tablet:



### MAINTENANCE AND CARE

- Always follow standard firearm safety handling practices.
- Refrain from applying any bake-on finishes to the X4-FCS™, as this may damage the lenses, sensors or electronics.
- The X4-FCS™ does not contain user-serviceable internal components.
- Scope rings should be free of dirt or foreign objects in the fastener holes.
- Clean your X4-FCS™ lenses with a microfiber cloth (included) and refrain from using abrasive cleaners.
- Operate between -40°F and +140°F (-40°C and +60°C).
- Store between -51°F and 160°F (-46°C and +71°C).

## TROUBLESHOOTING

Problem: I cannot see the display.

Solution: The brightness is set too low. To resolve:

- a) Cover the front lens of the X4-FCS™
- b) Navigate to the **Display Brightness** menu and turn UP the brightness setting.

Problem: The X4-FCS™ is resetting during weapon fire.

Solution: Tighten battery caps.

- If this does not solve the problem: The interior of each battery cap may not be properly adjusted to the length of your batteries. See the online user manual for how to adjust the interior of each battery cap to the length of your batteries

For further troubleshooting tips, reference the X4-FCS™ Online User Manual at [www.MaztechIndustries.com](http://www.MaztechIndustries.com). You can also get there by scanning this QR code with your smartphone or tablet:





## BATTERY SAFETY

Batteries must be handled with care to ensure safe and reliable operation. To prevent potential hazards and maximize battery performance, please observe the following guidelines:

- Use only batteries specified in this manual. Incorrect battery types or sizes can lead to malfunction or damage.
- Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures. Do not store batteries loose in pockets or bags where they might come into contact with metal objects.
- Follow the instructions in this manual for proper battery installation. Ensure that batteries are inserted with the correct polarity ( + / - ) as indicated by the device markings.
- Dispose of batteries in accordance with local regulations. Do not dispose of batteries in fire as they may explode or leak hazardous materials.
- If a battery appears damaged, deformed, or leaks, do not use it. Safely remove the battery and replace it with a new one.
- Keep batteries out of reach of children and pets. Swallowing or mishandling batteries can result in serious injury.

**TERMS OF USE, WARRANTY, LICENSE & LIABILITY WAIVER**

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The X4-FCS™ does not contain user-serviceable internal components. Any modifications or repair attempts on the X4-FCS™ beyond those explicitly outlined in this manual or the online manual may nullify the warranty.

## FCC COMPLIANCE NOTICES

The X4-FCS™ complies with FCC radio frequency (RF) exposure limits for an uncontrolled environment. Users must follow the specific operating instructions included in this User Manual to ensure RF exposure compliance. With respect to the potential for human exposure to RF radiation, calculations prepared in accordance with FCC Bulletin OET-65 (Edition 97-01) indicate that the calculated safe distance for Maximum Permissible Exposure is 0.2 inches (5 mm).

The X4-FCS™ 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. **Changes or modifications to the X4-FCS™ not expressly outlined in this manual or in the online manual could void the user's authority to operate the equipment.** Operating the Ultra-wideband (UWB) radio onboard an aircraft, ship or satellite is prohibited.

The X4-FCS™ 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: (a) Reorient or relocate the receiving antenna, (b) increase the separation between the equipment and receiver, (c) connect the equipment into an outlet on a circuit different from that to which the receiver is connected, (d) consult the dealer or an experienced radio/TV technician for help.

## THIRD PARTY ACKNOWLEDGEMENTS

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the *Journal of the American Medical Association* (JAMA) and the *New England Journal of Medicine* (NEJM).

These two journals are the most widely cited in the field of medicine. The *JAMA* is published by the American Medical Association (AMA) and the *NEJM* is published by the Massachusetts Medical Society. Both journals are peer-reviewed and have a long history of publishing high-quality research.

The *JAMA* is a weekly journal that covers a wide range of medical topics. It is known for its comprehensive coverage of clinical research, as well as its inclusion of news, commentary, and education. The *NEJM* is also a weekly journal, but it is more focused on clinical research and practice. It is known for its high standards of scientific rigor and its emphasis on evidence-based medicine.

Both journals have a long history of publishing high-quality research. The *JAMA* was founded in 1883 and the *NEJM* was founded in 1812. Both journals have a reputation for being the most authoritative sources of medical information. They are both highly respected by the medical community and are widely cited in the literature.

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