



TANGOINNOS

FIRE4000

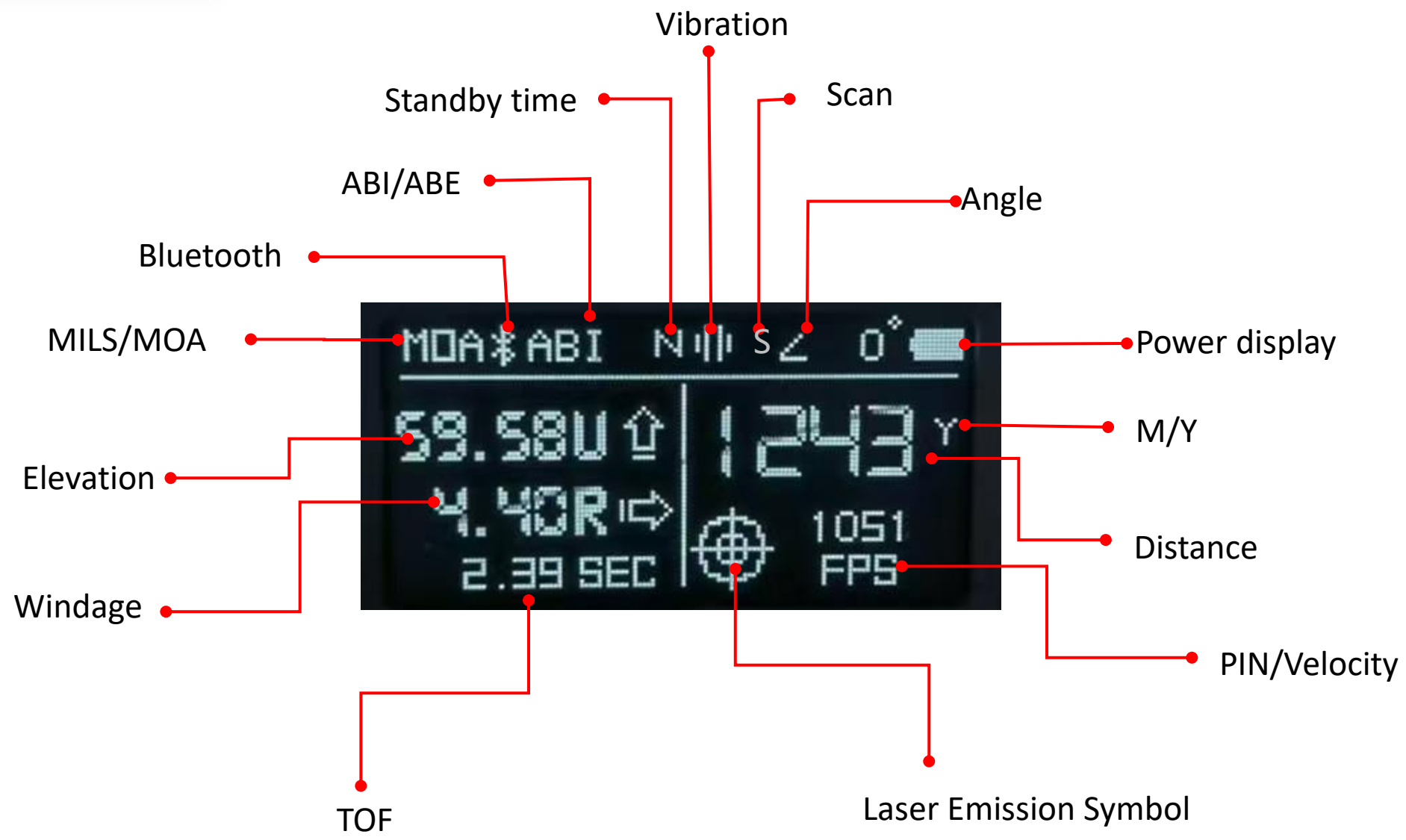
RANGEFINDER

Congratulations on
purchasing your FIRE 4000
Mounted Laser Range Finder
by TANGO INNOVATIONS

- Product standard configuration: wire control switch, adjusting wrench, reflective sticker, lens cloth, cable tie, adhesive strip (if you operate in dusty environments go ahead and rubber cement the supplied Velcro to the remote)



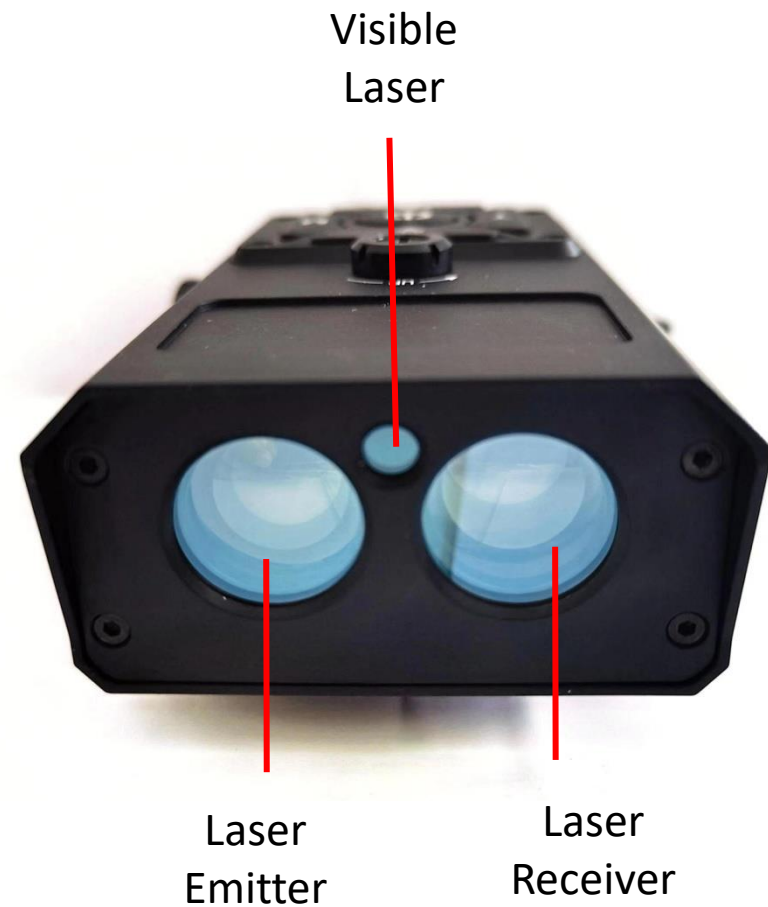
OLED Display content



Key description



Key description



Tighten the two base Rail Mount screws to 45 inch pounds.

Battery mounting

Battery Model : CR123A 3V

Installation : Battery "+" facing inward, "-" facing outward. (We have an image inside the battery compartment)

Suggestion : Remove the battery during long periods between use. Like many other lasers there is a small pull on the battery even when the unit is off



Key definition and operation instructions

Key Features

1.)  Power button

Power on : Long press the power button for 2 seconds, and the display screen will light up

Shutdown: Press and hold the power button for 2 seconds to turn off the display screen

After starting up, press the  key to range your target:

Single measurement: Press the power button once for a single measurement

Continuous measurement: Double-click the power button to enter the continuous measurement, short press the switch button to stop the measurement

2.)  Button:

Short press M/Y unit conversion between Meter and Yard.

Long press for 2 seconds: Switch between ABI (Internal Solver) and ABE (External Solver)

Key definition and operation instructions

3.) **D** Button:

Short press: Screen brightness 3 adjustments

Long press : for 2 seconds to switch screen orientation

Note: When the screen direction is adjusted from Horizontal to Vertical direction, you will need to reconfigure your Zero based on how the device is mounted to the weapon. Using a Diving board or rail mount each have a different offset. Please adjust the position according to the actual situation ! ! !



Key definition and operation instructions

4.)  Button : Short press to adjust standby time (3 minutes -10 minutes -15 minutes - N no time set) and cycle in sequence. Note* The 3 minute indicator is slightly elongated and distorted. This is by design to be seen in low light conditions.

Long press  for 2 seconds : Vibration **Off** (the vibration is **on** from the original setting).

5.)  Button : Short press for visible laser beam on/off. The visible laser beam is 635nm laser class II. It is only for zero use. Note this button has a low sensitivity to avoid accidental activation. See the end of the manual for special instruction if you experience challenges

P.S. The range finding laser is a 905nm class I. It has capabilities up to 4000 yards on high reflective targets in optimal conditions. 2000 yards on urban structures, 1500 yards for Tree's and other non reflective targets

ABI



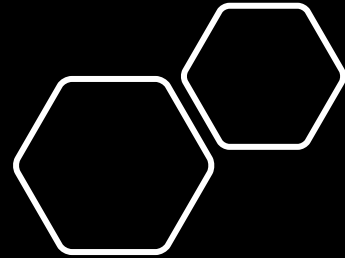
ABE



ABI means Applied Ballistic Internal mode, Using on board Computing power for your ballistic solution. Or the Applied Ballistic app to push data and environmental

ABE means Applied Ballistic External mode, only using the onboard Laser then communicating With AB products (KESTREL anemometer or GARMIN watch). The calculation is then transmitted via Bluetooth to the device.

Product Specifications	
Technical Data	Performance Parameter
Model	FIRE 4000
Measuring Range	4000 yards (Highly reflective target)
Range for vegetation	1500 yards (tree ect.)
Range for Animal	1200 yards (animal)
Minimum Distance	10 yards
Laser type	Class 1
Measurement Accuracy	±1yds(< 400yds) ; ±‰2 (> 400yds)
Angle Measuring Accuracy	±1°
Angle Range	±90°
Communication method	Bluetooth
Wavelength	905nm (laser class 1)
Launching caliber	18mm
Receiving caliber	18mm
Divergence angle	.2 tall X 2mrad wide
Battery	CR123A, 3V (recommended lithium)
Waterproof	IP67
Operating Temperature	-10°C-50°C (shorted battery life in cold climates)
Distance display increment	1M/YD
Laser Pulse Duration	10-100ns
Dimensions	111x75x47mm
Product Weight	420g
Automatic turn off time	3, 10, 15 minutes and non stop



Structure specification



Wire connection interface



Install the aviation plug in the direction indicated by the plug as shown in the picture! Line up the red dot indicator

Structure specification



Install the aviation plug in the direction indicated by the plug as shown in the picture. Find the **correct direction** of the pins and the holes !!! Don't mess this part up, recommended to disconnect while transporting

Download APP

1. Download APP

Apple user searches for “**AB Synapse-BOSS**” in the App Store and downloads the installation, as shown in Figure 1

Android users can search for “**AB Synapse-BOSS**” in Google Play to download and install, as shown in Figure 1 after successful installation.



F.Y.I. this application may be sunsetted and replaced as Applied Ballistics continues to improve their products.

BOSS App connect to the ballistic rangefinder

2. BOSS App connect to the ballistic rangefinder

Power on the ballistic computer : Long press the switch button  for 2 seconds

- 1) When the product is on, click the BOSS App to enter the interface as shown in Figure 2,
- 2) Select "I accept the agreement", click "Accept" to enter the interface as shown in Figure 3,
- 3) Access the location information and select "Allow" to enter the interface as shown in Figure 4
- 4) Click "PAIR DEVICE" to enter the interface as shown in Figure 5
- 5) Click "WMLRF-*****" to enter the matching interface as shown in Figure 6,
- 6) "PIN code" appears at the lower right corner of the product and "** PIN" is displayed as shown in Figure 7
- 7) Input two digits into the APP as shown in Figure 8
- 8) Click "OK" to enter the interface as shown in Figure 9, and click "CONTINUE" to enter the interface as shown in Figure 10, indicating that the connection is successful.

BOSS App connect to the ballistic rangefinder



Figure 1

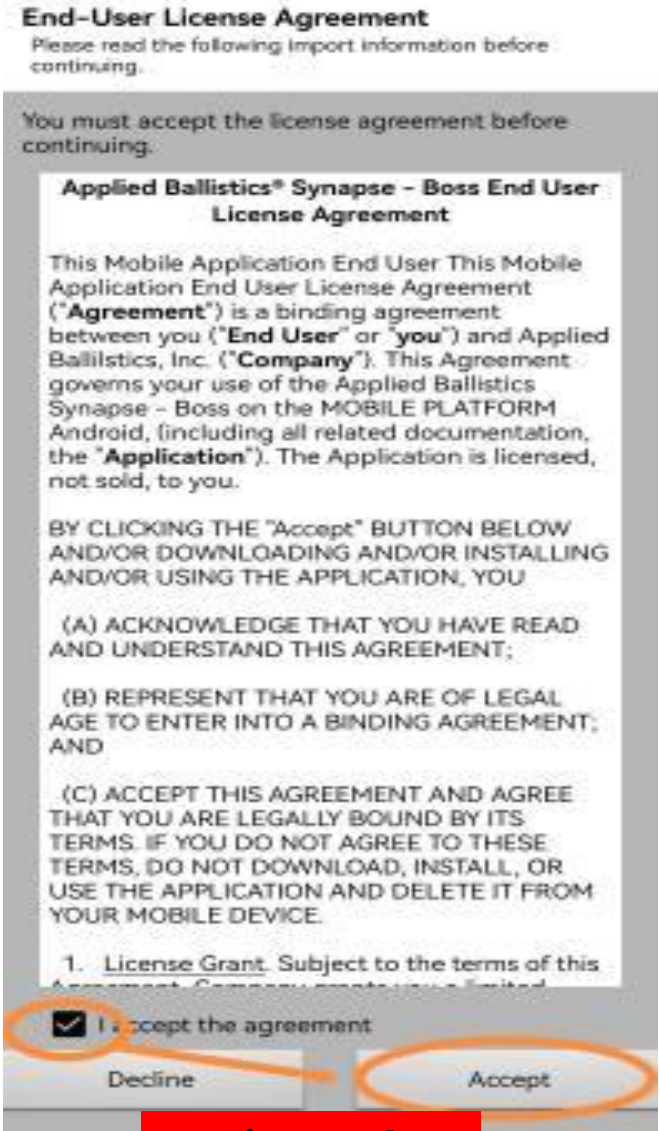


Figure 2

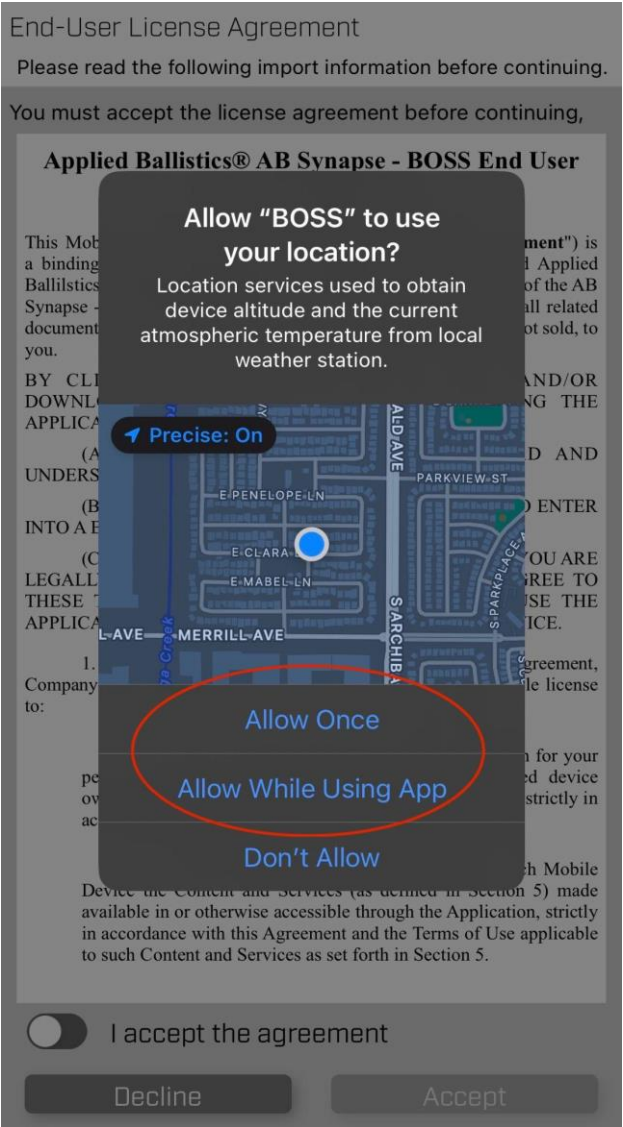


Figure 3

BOSS App connect to the ballistic rangefinder

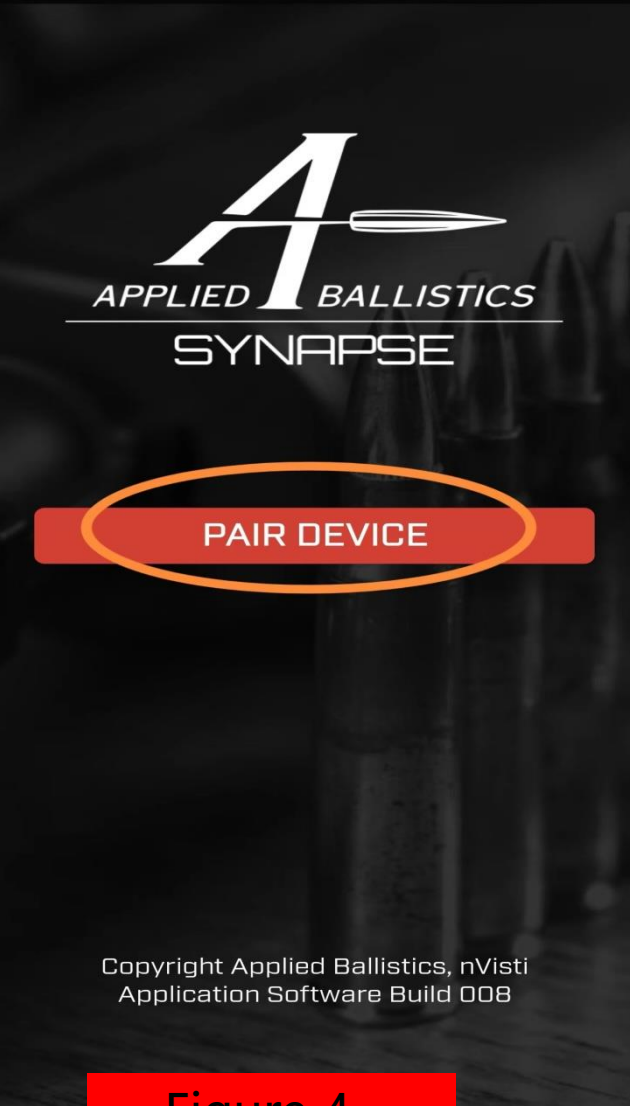


Figure 4

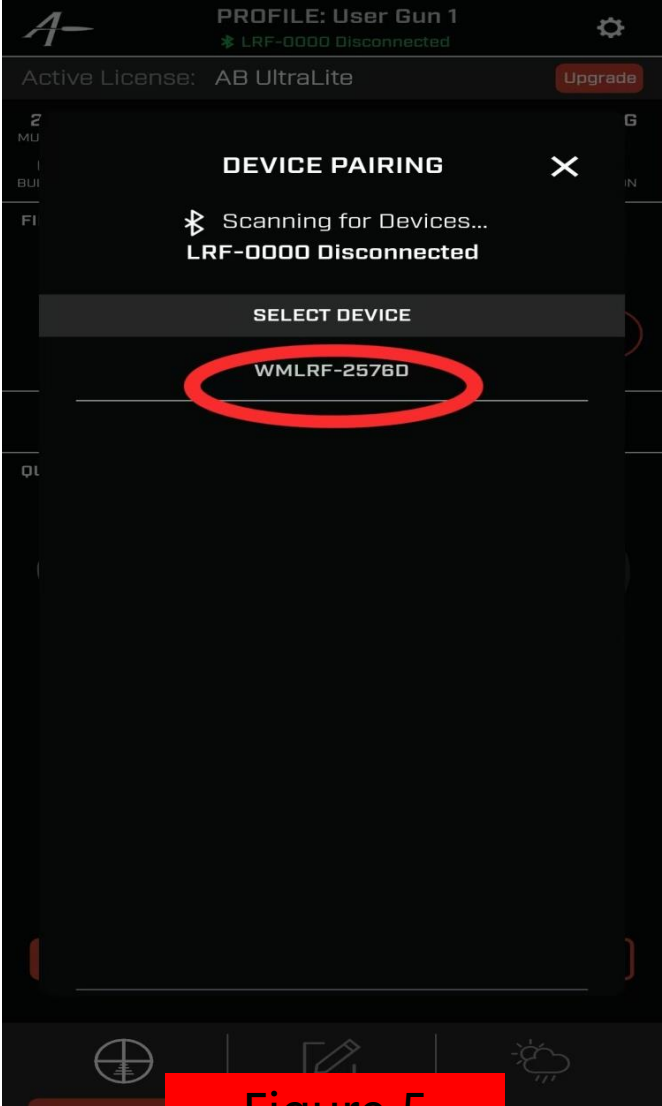


Figure 5

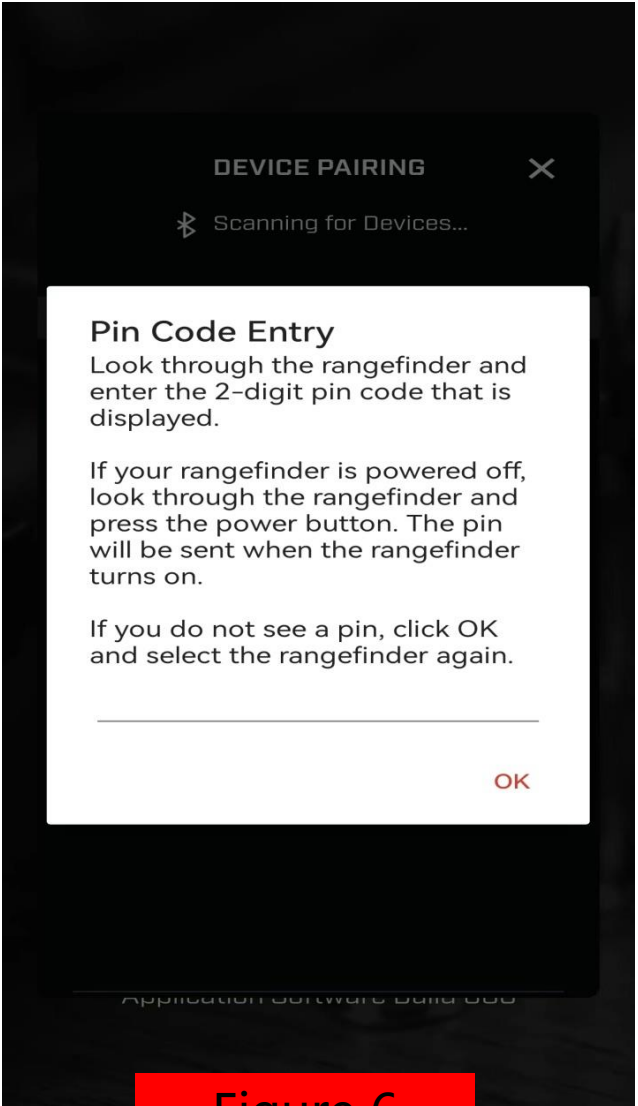


Figure 6

BOSS App connect to the ballistic rangefinder



Figure 7

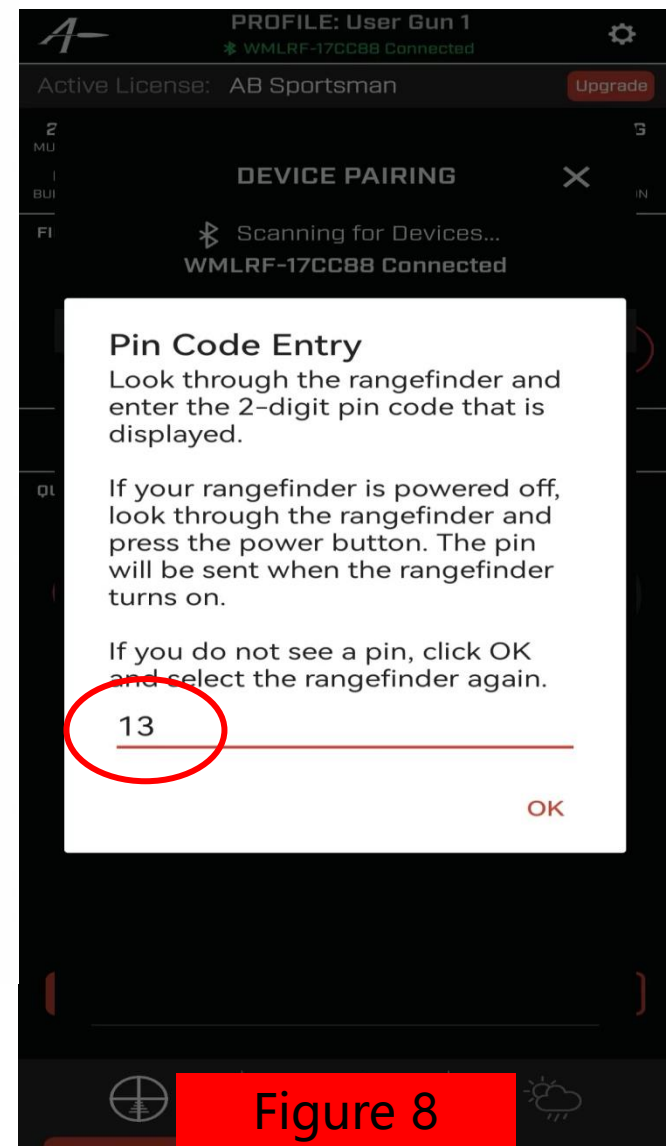


Figure 8

BOSS App connect to the ballistic rangefinder

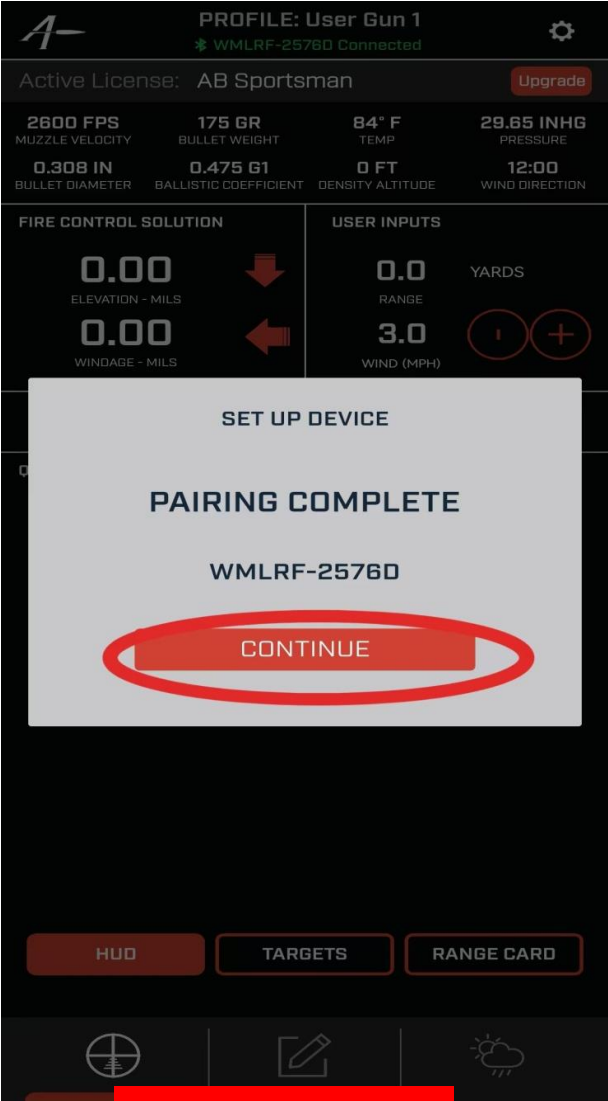


Figure 9



Figure 10

100 meters to zero

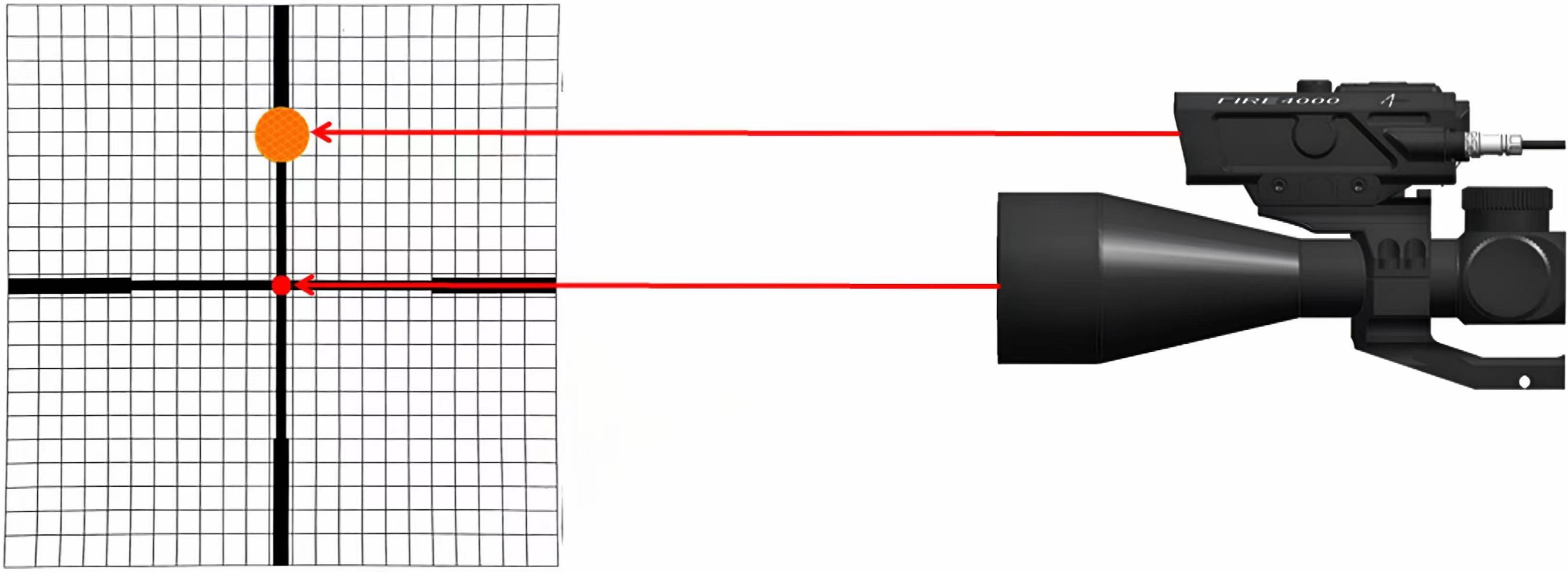
Operation instruction

1. It is recommended to zero your rifle scope at 100 yards
2. Install FIRE 4000 after you confirm your optic zero
3. Measure the distance from the center of your scope to the center of the red laser, and paste provided circular sticker with measured offset above your point of aim. **Example:** *if your offset of your red laser is 2.75 inches place the provided reflector exactly 2.75 inches above your rifle scopes point of aim. Use your zeroed optic to hold the point of aim and adjust your visible laser to your reflector you have attached down range*
4. Start your parallel zero at 25 yards and then reconfirm at a farther distance preferably 100 yards.
5. Align the cross of the scope with the cross of the target paper (ensure you match your reticle with the grid of the target to ensure best results)
6. Continue to adjust "L", "R" and "U", "D" to align the red laser spot with the center of the circular high reflection sticker on the target paper, to refine your parallel zero as far as possible.

Graphic description

3. Measure the distance from the center of the scope to the center of the red laser, and paste a circular sticker

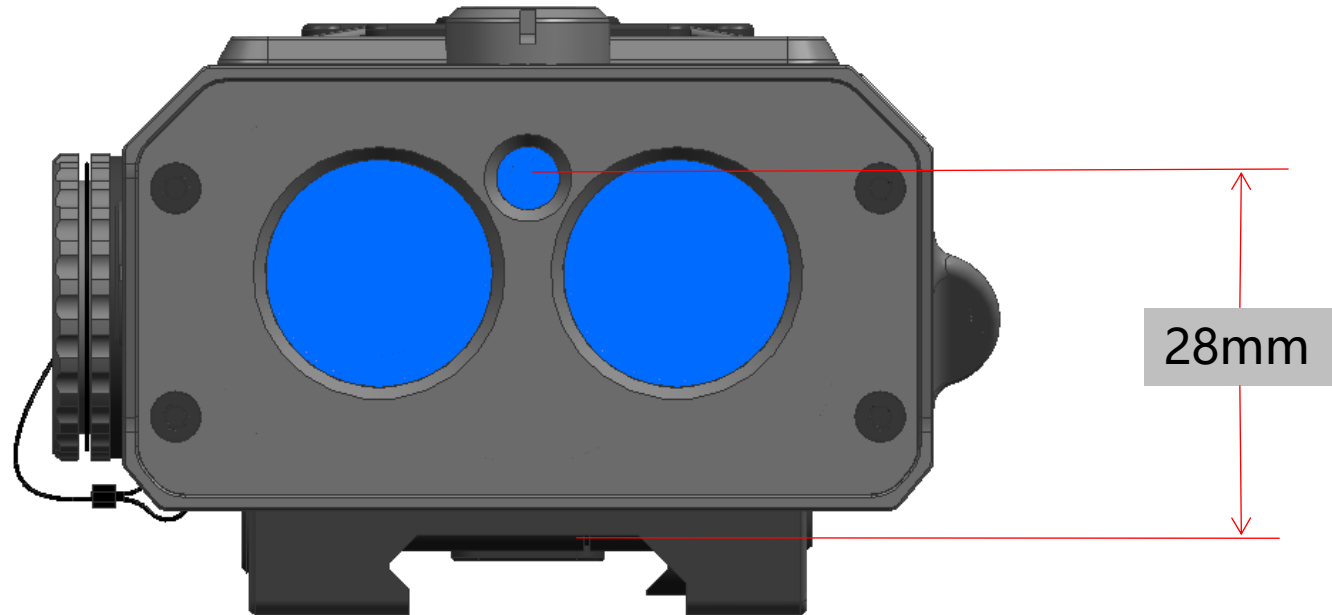
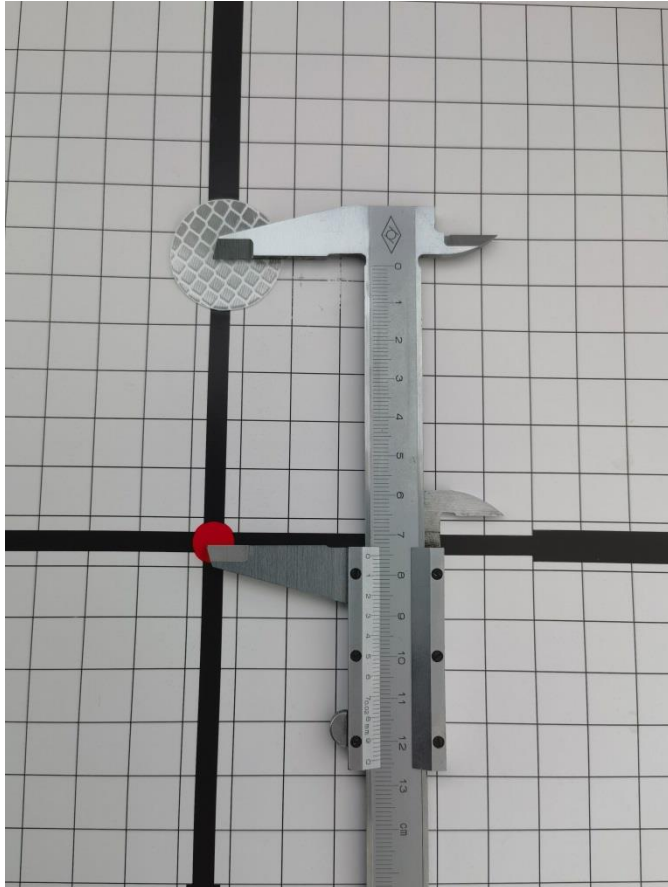
Measure the height according to the mounted scope, such as this 4-16X50 The height is 75mm/2.9 inches. (use calipers if possible)



Stick round reflective stickers

Measure the corresponding height on the target paper and attach a circular reflective sticker

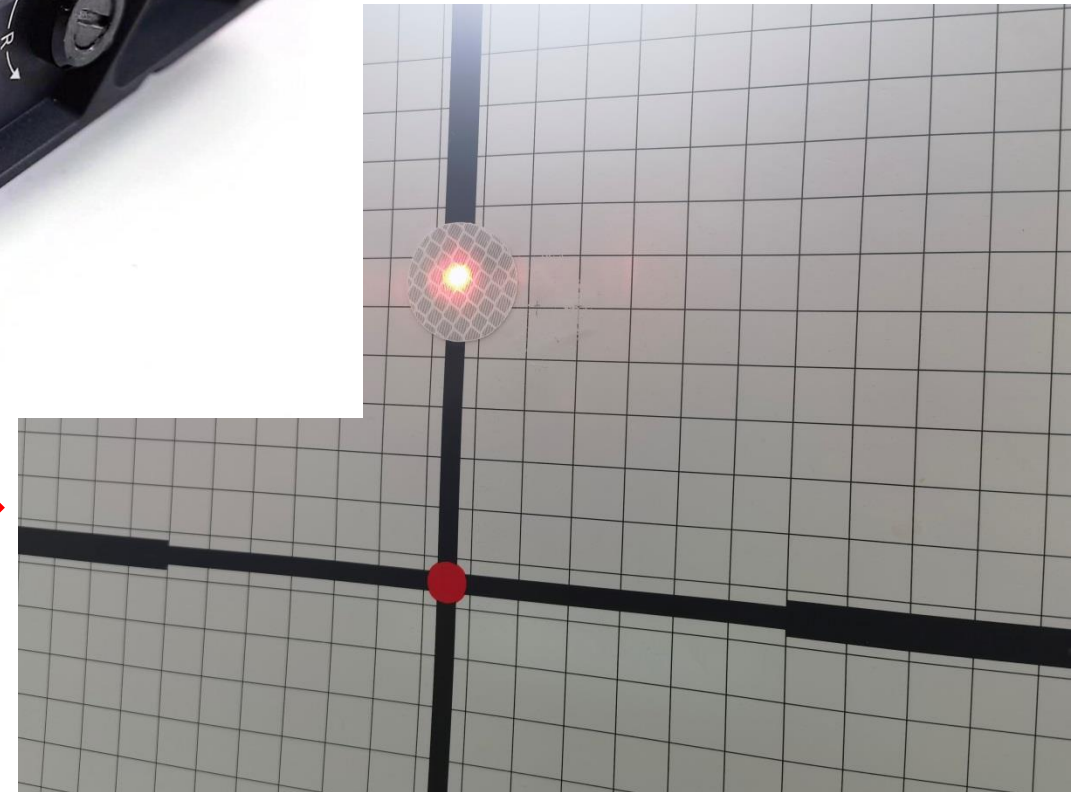
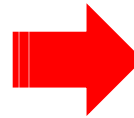
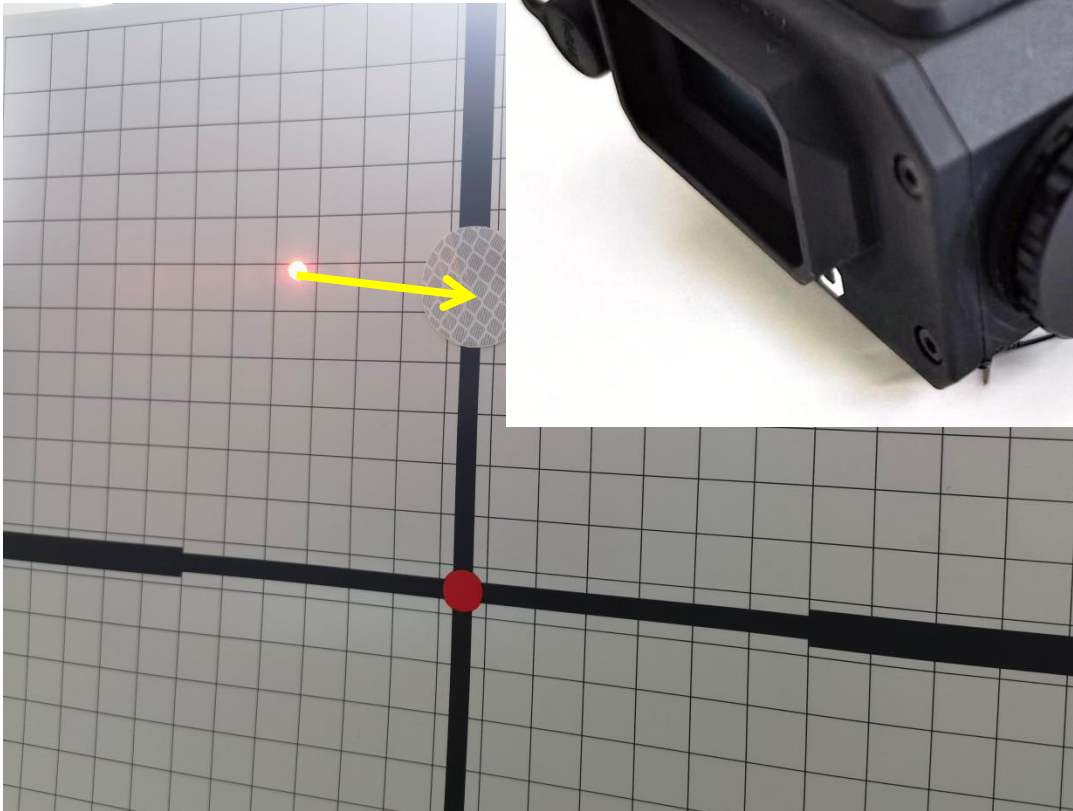
Note: Different scopes have different heights!



Red laser adjust



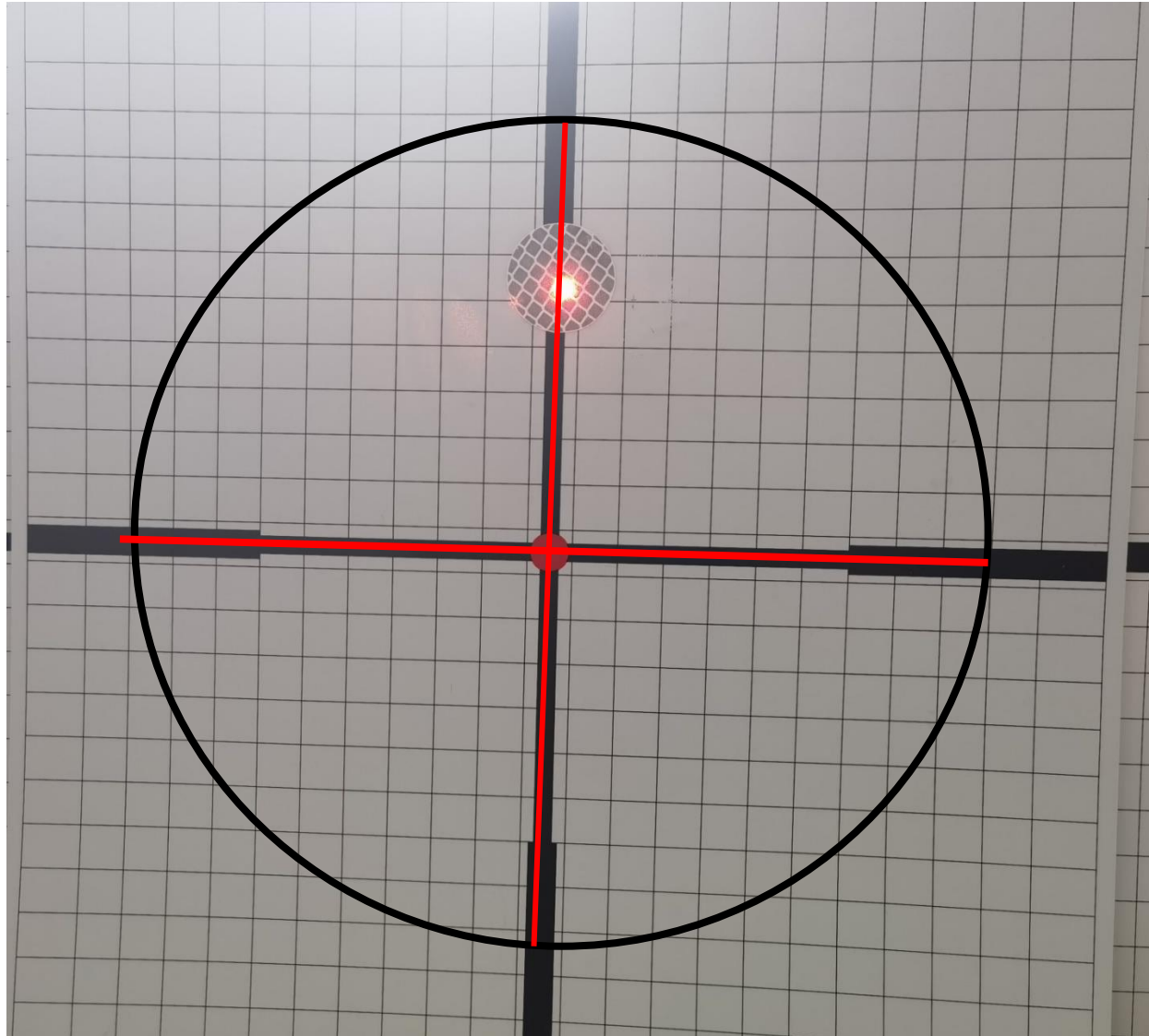
By adjusting the up and down , left and right adjustment turrets of the ballistic computer, the position of the red visible laser is changed to make it coincide with the reflector on the target paper



5. Adjust the Ballistics computer to align the red laser with the center of the circular reflector sticker on the target paper.

Red laser adjust

Adjust the accurate
sight image and refine at
further distance's



ABE mode

Long press of the M for 2 seconds: Switches from ABI to ABE mode.

When the device is in ABE mode, turn on your Kestrel or Garmin Foretrex search for an applied ballistic device. Find your FIRE 4000 by **DEVICE ID No.** and pair to it.

P.S. Choosing the Kestrel or Garmin must have Applied Ballistic on board, and choosing the ballistic mode in able to connect the device.



DEVICE ID No.



Kestrel in maximum mode in the Bluetooth function.

Connected



FCC Statement

● 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.

(2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

Warnings

- Do not look at laser beam while using the product.
- Do not use other additional optical units to operate the product to avoid the risk of eye damage.
- Do not disassemble the product, otherwise the product will not be warranted by the manufacturer.
- Please remove the battery immediately and stop using the product if it falls onto the ground and generates abnormal or sound.
- Please keep the product away from children.
- Do not place it in cars under direct sunlight or an environment with intense UV radiation or near a heat source while not in use to avoid unnecessary wear on the unit.
- If the product is used under rapid-changing temperatures; the lens surface will be covered by fog. Please don't use the product before the fog evaporates, try to let your product acclimate
- If your emitter Lense is dirty please use soft and clean cloth to clear it up. Never touch the lens with fingertips in order to protect the film on its surface.
- Considering service life, it is suggested not to measure objects within 20 meters often or measure objects with high reflectivity too close or too often. Try to reserve this for the zero process only.

**CLASS 1 LASER PRODUCT IR
LASER**



User Tips

- To avoid accidental activation of the visible laser or other functions that would cause massive battery drain or unintended perforce. We designed the controls to require precise activation with a focus on the vis. laser. You may hear the audible click of the switch spring, but the vis. laser will not turn on unless you activate the exact center of the indicator. If you have short fingernails and this causes frustration we recommend using the tip of a loaded round, fix it stick flat head or other fine pointed object, this is by design.



Tango Innovations Inc

www.tangoinnos.com