



# ASTRA

THE OPTICS STANDARD

## OTX2400B™ 6x21mm Laser Rangefinder Owners Manual





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## Table of Contents

Welcome.....	3
What's in the Box? .....	4
Features.....	5
Your Rangefinder at a Glance.....	6
Red OLED Reflective Display.....	7
Quick Start.....	8-12
Operation Modes.....	13-15
How to Use - Installing the Battery .....	16
How to Use - Rangefinder Focusing.....	17
How to Use - Lanyard.....	18
How to Use - Carry Case.....	19
Tips for Using Your Rangefinder.....	20
Specifications .....	21
Troubleshooting .....	22
Safety and Care of your Rangefinder.....	23
Our Handshake Lifetime Warranty .....	24



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## Welcome

On behalf of the Astra Optix family, we want to thank you for your purchase of your new Astra Optix OTX-2400B Laser Rangefinder.

The Astra Optix OTX-2400B Rangefinder features a 6x21mm, all glass optical system with fully multi-coated lenses and a ranging distance of up to 2400 yards on reflective targets.

**REMINDER:** Please register your product to activate our Handshake Warranty on line at [www.astraoptix.com](http://www.astraoptix.com) so it is covered in case anything happens to your product.



Scan our warranty QR code  
to go directly to our  
Handshake Warranty  
registration page.

Don't hesitate to reach out to us if you have any questions or concerns about our products.

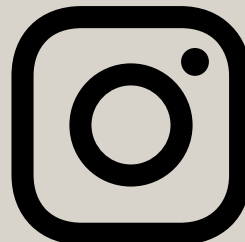
Also, we ask that you share your adventures with us on social media, and even help outdoor enthusiasts with their purchasing decisions by writing an authentic review about your experience with us at: [www.amazon.com/ryp](http://www.amazon.com/ryp).

On behalf of the Astra Optix family, we want to thank you for your purchase and support.

Like us on Facebook to see  
the latest news for our Astra  
Optix rangefinders!



Follow us on Instagram  
to see our product  
photos and videos.





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## What's in the Box?

- ◆ 6 Power x 21mm Laser Rangefinder Monocular
- ◆ Soft Premium Carry Case
- ◆ Microfiber Lens Cleaning Cloth
- ◆ Adjustable Neck-style Lanyard
- ◆ Astra Optix™ Decal Sticker
- ◆ CR-2 3-volt Lithium Battery (Battery Pre-Installed)
- ◆ Quick Start Guide







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## Features

The Astra Optix OTX 2400B laser rangefinder is our long-range superior optical quality rangefinder packed with purposeful features, and ultimately designed to fit your budget. In addition to accurate and fast ranging capabilities, the OTX 2400B laser rangefinder can range up to 2400 yards on a reflective target. Featuring multiple ranging options including bow and rifle modes, as well as integrated ballistic capabilities for ultimate accuracy that matches your hunting set-up. Fully multi-coated and rain repellent lens coatings increase overall light transmission and resolution performance, as well as a clear and functional OLED reticle with multiple brightness adjustability for quick target acquisition even in low light conditions.

◆ **FAST RANGING:** Our Standard Ranging Mode provides accurate and ultra-fast ranging speeds as fast as 0.1 seconds.

◆ **ACCURATE LONG RANGING CAPABILITIES:** With long distance ranging capability, this rangefinder is accurate and versatile for various objects at short distance or long distances: Reflective: Up to 2400 yards, Tree: Up to 1400 yards, Deer: Up to 950 yards.

◆ **REFLECTIVE OLED DISPLAY:** Provides a projected red color reticle allowing increased light transmission in low light conditions. Adjustable display brightness. Choose from 5 different brightness intensity levels.

◆ **PREMIUM OPTICAL QUALITY:** Our All Glass Optical System provides better light transmission vs. lesser quality plastic lens systems. 6 times magnification brings you up closer to your viewing target. Fully Multi-Coated Optical system features an optical lens system with one or more anti-reflective coatings on each air to glass lens surface to ultimately increase resolution and overall light transmission. Rain Repellent Protective Coating protects lenses from dust, debris, moisture and scratches.

◆ **ADVANCED TECHNOLOGIES:** Packed with featured technologies including Ballistics Mode, Scan Mode, Horizontal (Angle Corrected) Mode, Angle Mode (with LOS), Archery Mode, Gun Mode, and Golf Mode.



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## Your Rangefinder at a Glance

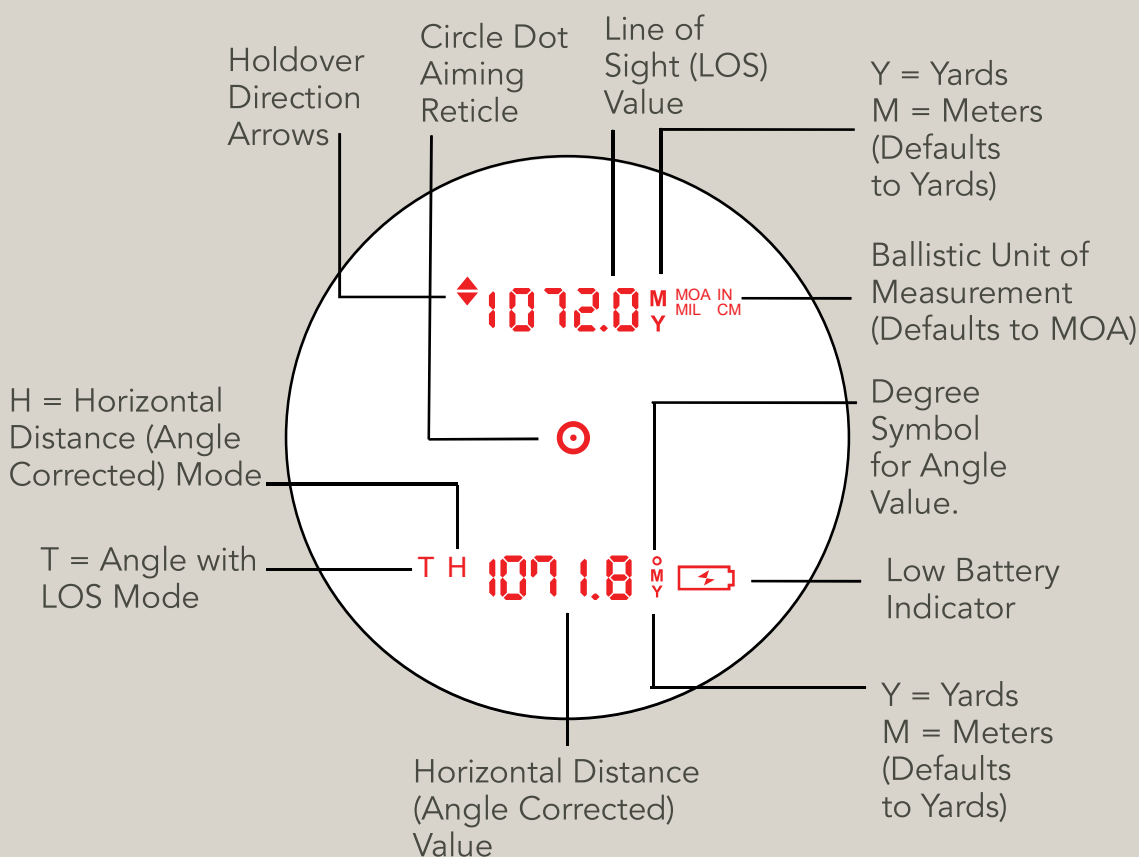




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## OLED Reflective Display





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## Quick Start

**1. Connect the Battery:** Open the **Battery Cover** and remove the plastic insert from the top of the battery.



**2. Turn on unit and Adjust Eyepiece Diopter Focus:** Press the **Power (Range) Button** to turn on the rangefinder **Red Reflective OLED** display.

Turn the **Eyepiece Diopter Focus** until both the image in the field of view and **Aiming Reticle** are clear and focused.

Press the  
**Power Button**



Rotate Eyepiece



**3. Adjusting the Red OLED Display Brightness:** Hold the **Mode Button** to enter the menu setting, Press the **Power Button** to cycle between 5 different brightness levels. Press the **Mode Button** to select.

**Brightness Setting**



- ◆ 1 = Lowest brightness setting
- ◆ 5 = Highest brightness setting

**NOTE:** For some Astra Optix models, the display brightness setting is the last item in the menu. If the brightness setting is not the first item in the menu, then press the **Mode Button** to advance through all the menu items until you see the brightness setting.



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## Quick Start

**4. Measuring Distance:** Aim the **Aiming Reticle** on the object you want to range and press the **Power Button** to display the distance. Your unit factory default setting is the **Horizontal (Angle Corrected) Mode**.

The Line of Sight (LOS) value is displayed at the top of the display for 2 seconds.



The angle-corrected Horizontal Distance (**H**) value is displayed at the bottom of the display for up to 8 seconds or until you take a new measurement.



## 5. Menu Settings - Button Operation Summary

Press Power Button to turn on and to measure the distance.

Press Power Button to cycle between menu items when in the menu.

Hold Power Button to SCAN.



Press Mode Button to confirm selections in the menu.

Hold Mode Button to enter menu.

Hold Mode Button to exit menu.





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## Quick Start

### 5.1. Menu Settings - Menu Operation Summary

- ◆ Distance Units Selection
  - Y / M
- ◆ Standard Mode (Std)
  - Horizontal (Angle Corrected) with Line of Sight
  - Angle with Line of Sight
  - OFF (Only Line of Sight)
- ◆ Archery Mode (ArCH)
- ◆ Golf Mode
- ◆ Gun Mode with Ballistics
  - Bullet Drop Units Selection: IN, CM, MOA OR MIL
  - Ballistics Group & Zero Distance (100yd or 200yd) Selection
- ◆ Brightness Setting
  - 1 thru 5

**5.2. Yards & Meters Selection:** In the menu press the **Power (Range) Button** to cycle between Yards (Y) and Meters (M) . Press the **Mode Button** to select.



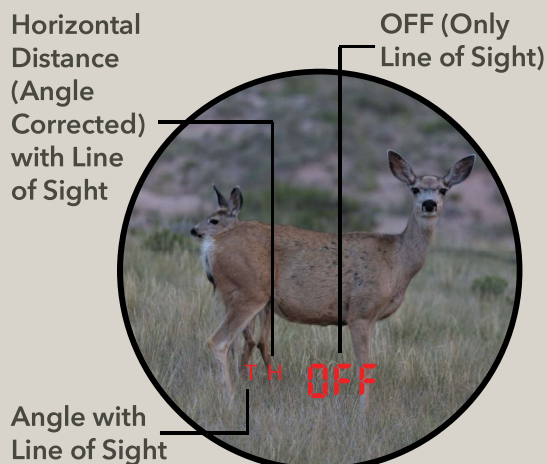
### 5.3. Select the Operation Mode:

Press the **Power Button** to cycle between **Standard Mode (Std)**, **Archery Mode (ArCH)**, **Golf Mode** or **Gun Mode**. When the selection you want to use is blinking, press the **Mode Button** to select your preferred mode.



### 5.4. Sub-Modes under Standard Mode:

Press the **Power Button** to cycle between each sub-mode. Press the **Mode Button** to select.





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## Quick Start

### 5.5. Gun Mode with Ballistics Selection:

◆ **Holdover Units Selection:** MOA, MIL, IN, CM - Press the **Power Button** to cycle through these selections and press the **Mode Button** to select.

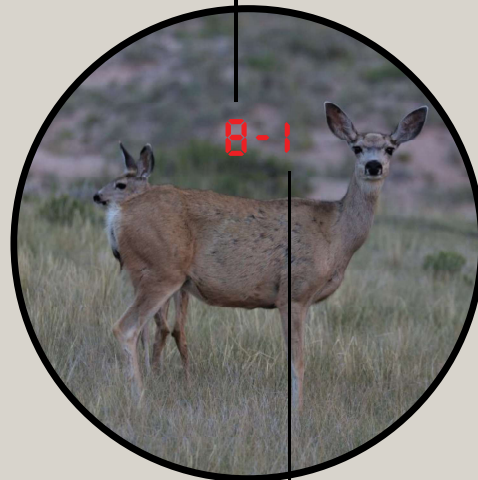


◆ **Ballistic Group Selection and your Zeroed Distance:** Select the ballistic group number that best matches or is similar to the ammunition load you are using from the **Popular Manufacturer's Loads** table on the next page.

Press the **Power Button** to cycle through 10 available ballistic groups. Each comes with two zero distance choices. Press the **Mode Button** to select.

**EXAMPLE:** If you are zeroed at 100 yards and are using a Hornady .223 Rem. cartridge with a 40 Grain V-Max bullet (ballistics group 8), you would choose **8-1** in the laser rangefinder menu.

Ballistic Group  
Number (1-10)



Zeroed  
Distance  
1=100 yard  
2=200 yard



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## Quick Start Popular Manufacturer's Loads

Brand	Cartridge	Bullet Weight (In Grains)	Bullet Type	Muzzle Velocity (FPS)	Ballistics Group Number	B.C.
Hornady	.223 Rem.	40	V-Max	3,800	8	0.200
Federal	.223 Rem.	55	BT	3,240	7	0.266
Hornady	.22-250 Rem.	50	V-Max	3,800	8	0.242
Winchester	.22-250 Rem.	55	PSP	3,680	7	0.197
Federal	.243 Win.	55	BT	3,850	8	0.276
Remington	.243 Win.	100	CL-PSP	2,960	6	0.356
Federal	.25-06 Rem.	85	BT	3,550	8	0.329
Remington	.25-06 Rem.	120	CL-PSP	2,990	6	0.362
Federal	6.5 Creedmoor®	95	V-Max	3,300	7	0.365
Hornady	6.5 Creedmoor®	143	ELD-X	2,704	5	0.625
Remington	.270 Win.	130	CL-PSP	3,060	6	0.336
Winchester	.270 Win.	150	PP	2,850	5	0.345
Remington	7mm Rem. Mag.	140	CL-PSP	3,175	7	0.390
Winchester	7mm Rem. Mag.	175	PP	2,860	6	0.427
Hornady	.30-30 Win.	140	Mono-Flex	2,465	3	0.277
Winchester	.30-30 Win.	170	PP	2,200	1	0.254
Remington	.308 Win.	150	CL-PSP	2,820	4	0.314
Hornady	.308 Win.	165	SST	2,840	5	0.447
Federal	.30-06	150	JSP	2,910	5	0.313
Remington	.30-06	180	CL-PSP	2,700	4	0.383
Federal	.300 Win. Mag.	150	Fusion	3,200	7	0.410
Winchester	.300 Win. Mag.	180	PP	2,960	6	0.438
Winchester	.338 Win. Mag.	200	PP	2,960	5	0.308
Remington	.338 Win. Mag.	250	CL-PSP	2,660	4	0.431

If you do not see your manufacturer's load in the popular loads table above, visit [www.astraoptix.com](http://www.astraoptix.com) to see our complete Master Ballistics Table with many more factory loads.

**NOTE:** We recommend you visit a range and confirm that you are sighted in at one of the possible zero distances (100 yds. or 200 yds.). Then range and shoot at distances that you will most likely shoot at when in the field. Shoot according to the suggested holdover value that is displayed to confirm that you have selected the optimum ballistics group number.





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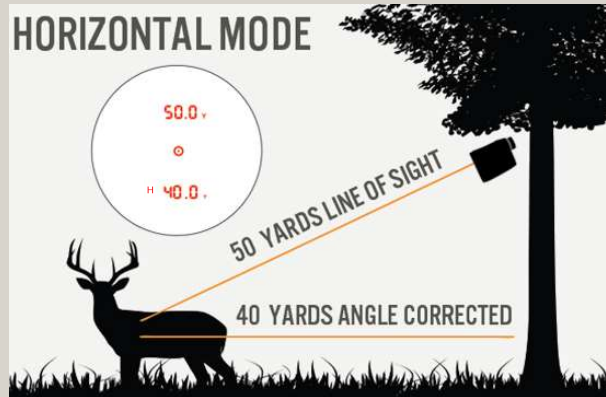
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## Operation Modes

### HORIZONTAL (ANGLE CORRECTED) MODE

Also known as angle compensation mode, will give you the angle-corrected shoot-at distance no matter the terrain. Aim the reticle at the target. Press the power (range) button to measure the distance.

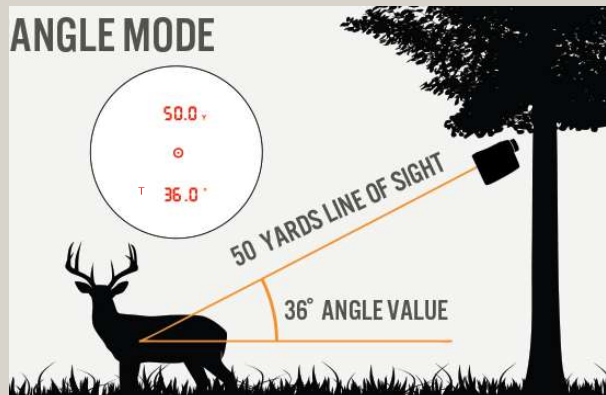
- ◆ The top line shows the LOS distance for 2 seconds.
- ◆ The bottom line shows the Horizontal Distance for the remaining time (8 seconds).



### ANGLE MODE WITH LINE OF SIGHT

Angle Mode displays the Line of Sight (LOS) distance and the angle value. For long range shooting, you can use this information to calculate holdover using a ballistics calculator (ballistics calculator not included with product). Aim the reticle at the target. Press the power (range) button to measure the distance.

- ◆ The top line shows the LOS distance for 2 seconds.
- ◆ The bottom line shows the Angle value for the remaining time (8 seconds).





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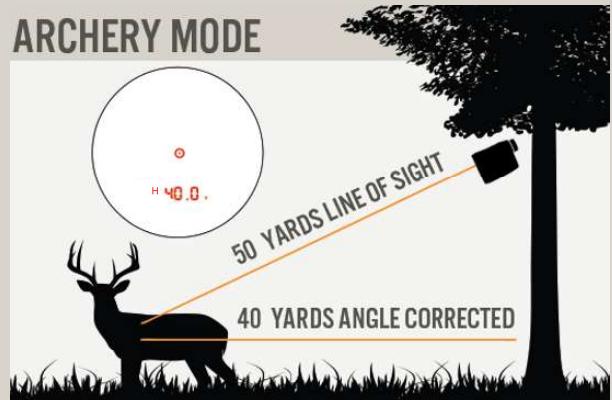
## Operation Modes - Continued

### ARCHERY MODE

Archery Mode gives you accurate and simple ranging information with ultimate confidence. In Archery Mode, the Horizontal Angle-Corrected (also known as angle compensation) Distance provides a true shoot-at distance no matter the terrain or hunting style. This mode is very beneficial when hunting from a tree stand or rigorous up-hill or down-hill terrain. Aim the reticle at the target. Press the power (range) button to measure the distance.

- ◆ The top line is blank.
- ◆ The bottom line shows the Horizontal Distance for 10 seconds.

### ARCHERY MODE



### GUN MODE WITH BALLISTICS

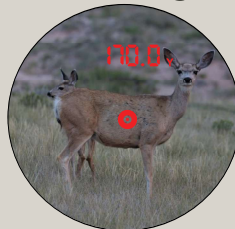
Gun Mode is optimized so the range displayed will be the farthest distance value of a group of targets. This mode is helpful if you are ranging a target through trees or other obstructions. Aim at a group of targets and press the power (range) button to measure the distance. The built-in ballistics feature in the Gun Mode will also display holdover elevation in inches or centimeters, or the elevation adjustment in MOA or MIL.

- ◆ The line of sight will be displayed for 2 seconds on the top line.
- ◆ The ballistics holdover or adjustment value will be displayed for 2 seconds on the top line.

### GUN MODE



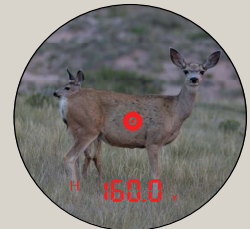
#### Line of Sight



#### Ballistics



#### Horizontal



- ◆ The horizontal value will display for the remaining amount of time (6 seconds).



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## Operation Modes - Continued

### GOLF MODE

Golf Mode displays the nearest distance value (Golf Flagstick) of a group of targets that are within your field of view. Aim at a group of targets, and press the power (range) button to measure the distance.

- ◆ The line of sight will be displayed for 2 seconds on the top line.

- ◆ The horizontal value will be displayed for 2 seconds on the bottom line of the screen.

- ◆ The angle value will display for the remaining amount of time (6 seconds).

### GOLF MODE



### Line of Sight



### Horizontal



### Angle



### SCAN MODE

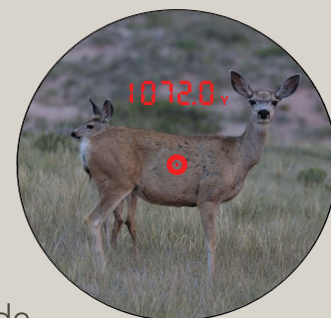
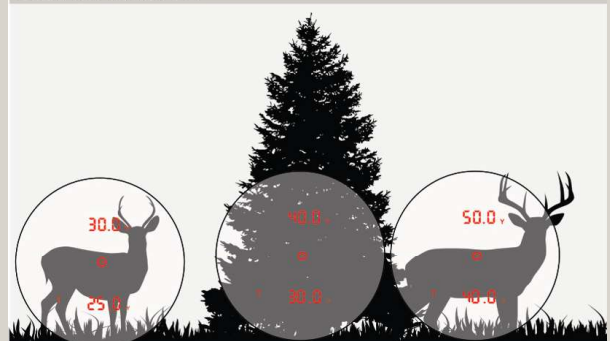
Scan Mode provides continuous ranging measurements so that you can always identify the distance to your target.

To take continuous measurements, enter the SCAN mode by pressing and holding down the Power (Range) Button.

- ◆ When scanning, regardless of what operation mode you are in, only the Line of Sight (LOS) Value is displayed at the top of the display.

- ◆ To exit the SCAN mode, just stop holding the Power (Range) Button, and you will return to your original operation mode.

### SCAN MODE







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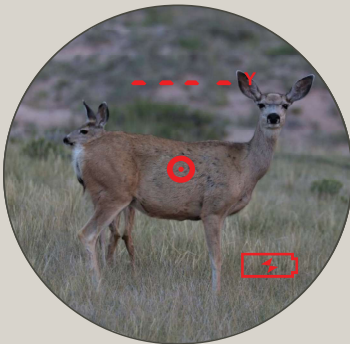
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## How to Use - Installing the Battery

Your Astra Optix™ Laser Rangefinder comes with one CR-2 (3-volt) lithium battery preinstalled.

**REMEMBER:** Remove the battery cap and take out the plastic spacer from the top of the battery before using. The spacer prevents the battery from activating during shipment. Your battery life will depend on the mode you are using and the outside temperature. Your battery should last approximately 10,000 measurement readings. Colder environments will cause the battery life to be shorter. Your rangefinder will automatically shut off after 10 seconds of nonuse.

**LOW BATTERY ICON** will display when you are nearing the end of your battery life. At this time we suggest changing the battery.



◆ To change the battery, place a flat-head screwdriver or coin in the battery cover slot. Unscrew the battery cover in the counter-clockwise direction. Remove the cap and dispose of the used battery. When disposing of the battery, follow your local area regulations.

◆ Place the battery in the compartment so the battery's positive side is facing up. There is also a positive symbol etched into the underside of the battery cover indicating the positive side should be facing up towards the battery cover.

◆ Replace the battery cover back on the battery housing by screwing on clock-wise to tighten.

**REMEMBER:** Ensure the battery cover is secured in place in order to preserve the waterproof capability. Do not overtighten the battery-cover.





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## How to Use - Rangefinder Focusing

When just starting to use your rangefinder, you will need to focus the aiming reticle and image that you see in your field of view. Anytime your image and reticle are not in focus, follow the below instructions for focusing your rangefinder.

**TIP:** If you are an eyeglasses wearer, you can wear your eyeglasses while using the rangefinder. You can also use the rangefinder without your eyeglasses.

◆ To focus your range finder, first turn on your rangefinder by pressing the Power (Range) Button so that you can see the circle dot aiming reticle in your field of view. You can focus the aiming reticle and the optical image both at the same time.

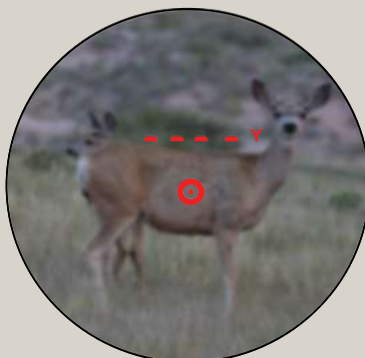
◆ Turn the Eyepiece Diopter Focus either left (counterclockwise) or right (clockwise) until the image in your field of view and the Circle Dot Aiming Reticle are clear and in focus with each other. It is best to turn the focus ring until you reach a balance so the reticle is focused and your target in your field of view is focused.

◆ Your rangefinder optical system is a fixed focus system and is focused from 6 yards to infinity.

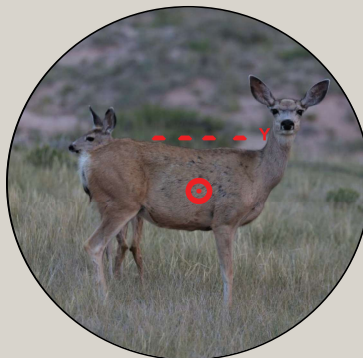
**TIP:** When using the rangefinder as a monocular only (without the rangefinder turned on), you can still further focus your optical image more fine by turning the Eyepiece Diopter Focus as described above.

**TIP:** When using the rangefinder aiming reticle (when the display is turned on), you will need to focus the reticle by turning the Eyepiece Diopter Focus as described above. Depending on your eyes and the viewing conditions, you will need to focus the aiming reticle and optical image so that both are in focus.

**Out-of-Focus Image**



**In-Focus Image**





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## How to Use - Lanyard

Your Astra Optix™ Laser Rangefinder comes with an adjustable neck-style lanyard.

◆ To attach the lanyard to the laser rangefinder, thread the small loop located at the end of the lanyard through either one of the lanyard attachment holes on the laser-rangefinder body. There is a lanyard attachment hole located on each side of the laser-rangefinder body.

◆ To adjust the length of the lanyard, push down the button located on the lanyard, and slide the cord-lock adjuster either down or up depending on what is most comfortable for you.

Lanyard  
Attachment  
Hole



Lanyard  
Cord-Lock  
Adjust  
Button





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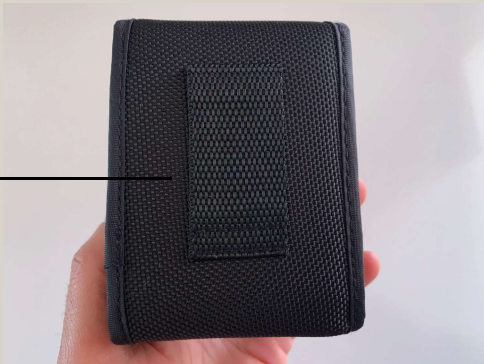
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## How to Use - Carry Case

Your Astra Optix™ Laser Rangefinder comes with a soft premium carry case to both protect your rangefinder and to provide a convenient way to carry your rangefinder. This case features a soft belt loop for easily attaching to your belt. Just slide the end of your belt through the soft belt loop located on the back of the carry case.



Carry-Case  
Soft Belt Loop







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## Tips for Using your Rangefinder

- ◆ Your laser rangefinder comes defaulted to the **Horizontal (Angle Corrected) with Line of Sight** distance mode. For archery or shooting, this mode will give you the angle-corrected shoot-at distance to use. For Archery only, use the Archery Mode (ArCH).
- ◆ If you turn off your rangefinder, it will keep the last settings used.
- ◆ This rangefinder also has **Angle with Line of Sight** mode. In this mode, it will display the **Line of Sight (LOS)** value for 2 seconds at the top of the display followed by the **Angle** value at the bottom of the screen. Shooters can use this information to calculate holdover using a ballistics calculator.
- ◆ If using this rangefinder on the golf course, choose the **Golf Mode (GOLF)**. The **Golf Mode** will display the nearest distance value (Golf Flagstick) of a group of targets that are within your field of view.
- ◆ Under ideal conditions, your Astra Optix™ Laser Rangefinder can measure the distance of reflective objects out to 2,400 yds. It can also measure a deer out to 950 yds. The type of target you are ranging strongly impacts the maximum ranging distance.
- ◆ Shiny reflective objects such as metal buildings will range much better than less-reflective objects such as trees, animal fur, bushes or grass.
- ◆ Objects that are more dense, such as trees or rock, will range better than bushes or grass.
- ◆ Bright-colored objects normally range better than dark-colored objects.
- ◆ Rain, fog, snow, bright sunny days and dusty days will reduce the overall ranging performance.
- ◆ Cloudy days without fog, snow, rain or dust blowing in the air provide the best ranging conditions.
- ◆ Targets that have a flat surface 90° to the laser emitting from the laser rangefinder range better than targets that have a curved surface, or are positioned at an angle in relation to the emitted laser.
- ◆ **IMPORTANT:** The holdover value in the Gun mode is accurate out to 500 yards. This mode should not be used to take long-range shots at distances over 500 yards.





## Specifications

Magnification	6X
Objective Lens Diameter	21 mm
Close Focus	6 yds.
Eye Relief	16 mm
Exit Pupil	3.5 mm
Field of View	31.50 ft. at 100 yds.
Water-Resistance Rating	IPX4 (Water-Resistant)
Lens Coating	Fully Multi Coated with Rain Repellent
Housing Material	Composite with Rubber Armoring
Dimensions	4" x 1.44" x 3.11"
Total Wt. (including battery)	4.25 oz.
Laser Type	905 nm Class 1 Eye-Safe
Display Type	OLED Reflective Display
Range Response Time	0.1 seconds
Battery Type	CR-2 3-volt Lithium
Battery Life	Approximately 10,000 Readings
Laser Range (Reflective)	6-2,400 yds.
Laser Range (Tree)	6-1,400 yds.
Laser Range (Deer)	6-950 yds.
Horizontal (Angle Corrected) Mode	Yes
Angle with Line of Sight Mode	Yes
Archery Mode	Yes
Gun Mode with Ballistics	Yes
Golf Mode	Yes
SCAN Mode	Yes



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## Troubleshooting

- ◆ If at any time, your rangefinder freezes or is not responsive after turning it on, reset the rangefinder by removing the battery. Wait 10 seconds and then replace the battery. This will usually fix the issue.
- ◆ If you are trying to range a target and you are seeing dashes (---) in the display, it is possible that you are either too close (less than 6 yards) or too far away from your target. In addition, your laser rangefinder's laser maybe missing the target and aimed towards an open sky which will also show a non-reading (---).
- ◆ If you can not see a full image (all of the field of view) when looking through your laser rangefinder, your eyes may be positioned either too far away or too close to the eyepiece. Move your head back a little from the eyepiece or move towards the eye-piece a little until you can see the full circular field of view.
- ◆ Your rangefinder can operate between temperatures of 23° F and 120° F. If temperatures are lower than 23° F, and if your rangefinder is not responding, just bring the product to a warmer location. After the rangefinder warms back up and is within the normal operational temperatures, it will be operable again.