



# ASTRA

THE OPTICS STANDARD

## Astra Optix™ HBX-1600B Laser Rangefinder Binocular Owners Manual





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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 HBX-1600B Laser Rangefinder Binocular.

The Astra Optix HBX-1600B Rangefinder features a 10x42mm, all glass optical system with fully multi-coated lenses and a ranging distance of up to 1760 yards on reflective targets.

**REMINDER:** Please register your product to activate our Handshake Warranty online 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.

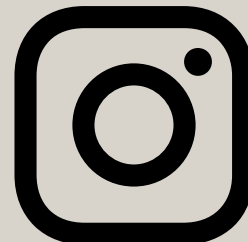
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our Astra Optix  
rangefinders!



Subscribe to our  
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giveaways.



Follow us on  
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product photos and  
videos.





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## What's in the Box?

- ◆ 10 Power x 42mm Laser Rangefinder Binocular
- ◆ Soft Premium Carry Case
- ◆ Astra Bino Harness
- ◆ Microfiber Lens Cleaning Cloth
- ◆ Objective Covers with Cord Attachment
- ◆ Eyepiece Lens Cover
- ◆ Astra Optix™ Decal Sticker
- ◆ CR-2 3-volt Lithium Battery (Battery Pre-Installed)
- ◆ Quick Start Guide







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## Features

The Astra Optix HBX-1600B rangefinding binocular is what we call a true value. The features and quality we incorporated within this budget friendly range-finding binocular gives you all the optical viewing performance and range-finding capabilities you would expect in a higher end product.

◆ **ULTRA-FAST RANGING:** Our Standard Ranging Mode provides accurate and ultra-fast ranging speeds as fast as 0.15 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 1760 yards, Tree: Up to 1000 yards, Deer: Up to 800 yards.

◆ **HIGH TRANSMISSION LCD DISPLAY:** Our enhanced LCD display provides brighter image and color quality with over 40% more light transmission performance than the standard LCD options.

◆ **PREMIUM OPTICAL QUALITY:** Our All Glass Optical System provides better light transmission vs. lesser quality plastic lens systems. 10 times magnification brings you up closer to your viewing target. Fully Multi-Coated Optical system features an optical lens system with multiple anti-reflective coatings on each air to glass lens surface and silver coated prisms to ultimately increase resolution and overall light transmission.

◆ **ADVANCED TECHNOLOGIES:** Packed with featured technologies including GUN Mode with Built-in Ballistics for target shooting and gun hunting, Scan Mode, Horizontal (Angle Corrected) Mode, Angle Mode (with LOS), Archery Mode for bow hunting, and Golf Mode with both Slope and Pin Lock features.





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## Your Rangefinder at a Glance

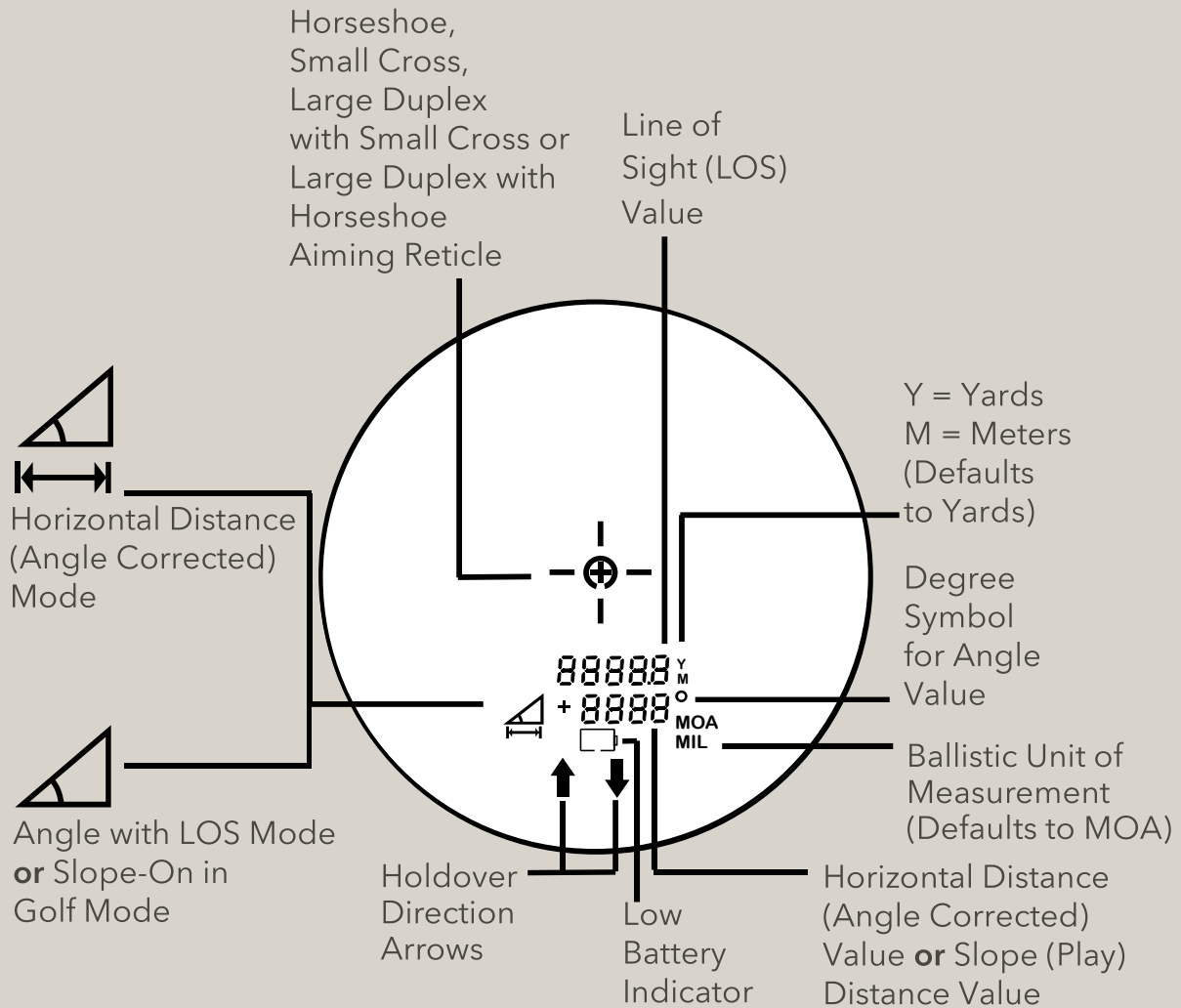




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## High Transmission LCD





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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. Twist Up/Down the Eyecups:**

**Twist up**

◆ When not wearing eyeglasses



**Twist down**

◆ When wearing eyeglasses



**3. Adjust the Eyepiece Spacing:** Look through the binocular eyepiece and adjust the barrels inward or outward until you can see a complete circular image.



**4. Focusing the Binocular & Reticle**

**4.1. Focusing the Reticle:** Press the **Power (Range) Button** to turn on the rangefinder **High Transmission LCD** display. Rotate the **Reticle Focus** until your **Aiming Reticle** is in focus.



Out-of-Focus Reticle



In-Focus Reticle





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## Quick Start

### 4.2. Focusing the Binocular Image:

Aim at an object, cover the left side objective (or close your left eye), and rotate the **Center Focus Wheel** until the image appears sharp in your right eye.



**4.3. Adjusting your Diopter:** To compensate for the difference in your eyes, aim at the same object, and cover the right-side objective (or close your right eye) and rotate the **Eyepiece Diopter Focus** until the image in the field of view is clear and focused.



Out-of-Focus Image

In-Focus Image



Your binoculars are now focused individually for each of your eyes. When you view at a different distance, you only need to focus the image using the **Center Focus Wheel**.

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

The Line of Sight (LOS) value is displayed for 2 seconds.



The angle-corrected Horizontal Distance ( $\Delta$ ) value is displayed at the bottom of the display for 2 seconds. Both values will continue to flash back and forth for 12 seconds.







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## Quick Start

### 6. Menu Settings - Button Operation Summary



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

Hold Power Button to SCAN.

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

Hold Mode Button to enter menu.

Press Mode Button to confirm selections in the menu.

Hold Mode Button to exit menu.

### 6.1. Menu Settings - Menu Operation Summary

- ◆ Distance Units Selection
  - Y / M
- ◆ Aiming Reticle Selection
  - Horseshoe
  - Small Cross
  - Large Duplex with Small Cross
  - Large Duplex with Horseshoe
- ◆ Standard Mode (Std)
  - Horizontal (Angle Corrected) with Line of Sight
  - Angle with Line of Sight
  - OFF (Only Line of Sight)
- ◆ Archery Mode (ArCH)
- ◆ Gun Mode with Built-In Ballistics
  - Bullet Drop Units Selection: MOA OR MIL
  - Ballistics Group & Zero Distance (100yd or 200yd) Selection
- ◆ Golf Mode with Pin Lock and Slope Technology: When locked on to the golf flagstick, a Duplex reticle ( - ' - ) will flash giving you visual feedback confirming you have measured the golf flagstick.

In Golf Mode, your rangefinder will also provide you the adjusted distance (Slope value) based on the angle of decline or incline to the flag.



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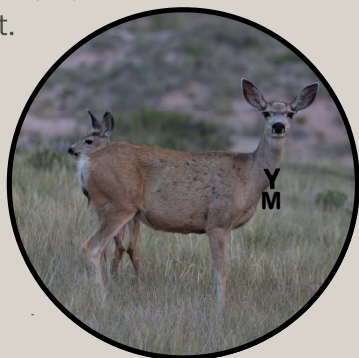
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## Quick Start

**6.2. Aiming Reticle Selection:** In the menu press the **Power (Range) Button** to cycle between a Horseshoe, Small Cross, Large Duplex with Horseshoe and Large Duplex with Small Cross. Press the **Mode Button** to select.



**6.3. 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.

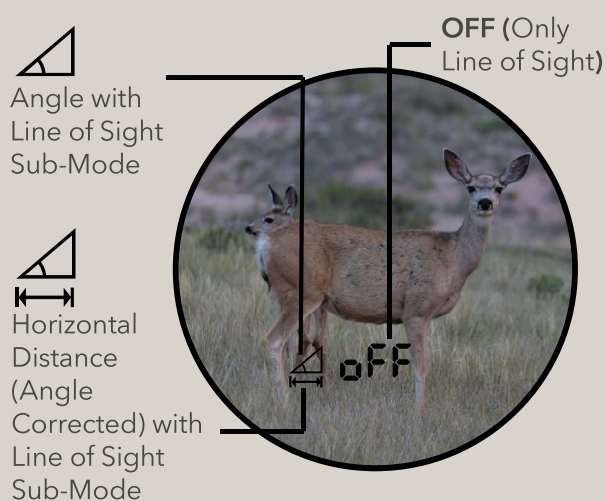


**Note:** Each time you turn on your range-finder, the currently selected mode (Std, ArCH, GoLF or Gun) will flash on the display for 2 seconds.

**6.4. Select the Operation Mode:** Press the **Power Button** to cycle between **Standard Mode (Std)**, **Archery Mode (ArCH)**, **Golf Mode (GoLF)** or **Gun Mode with Ballistics (Gun)**. When the selection you want to use is blinking, press the **Mode Button** to select.



**6.5. 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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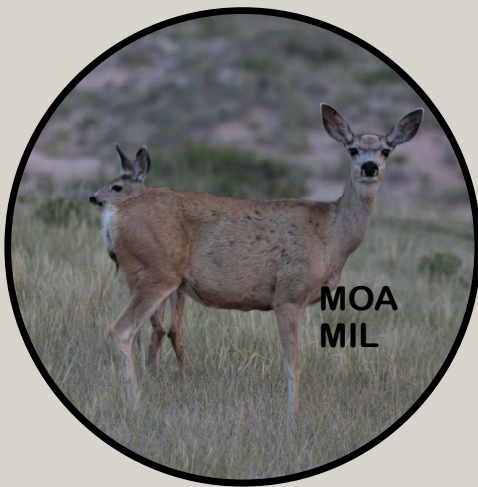
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## Quick Start

### 6.6. Gun Mode with Ballistics Selection:

#### ◆ Holdover Units Selection - MOA or MIL:

Press the **Power Button** to cycle through these selections and press the **Mode Button** to select.

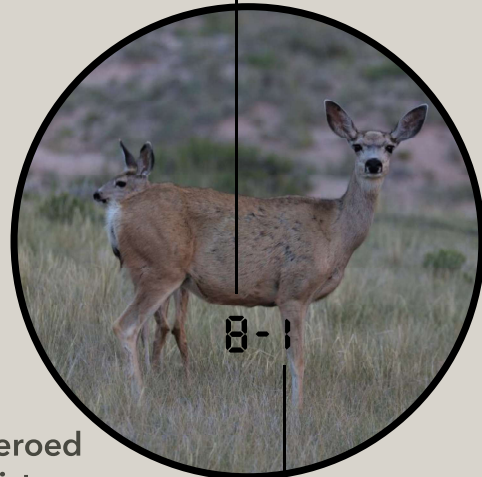


◆ **Ballistic Group Selection and your Zeroed Distance:** Select the ballistic group number that best matches or is similar to the ammunition load you are using from the **Popular Manufacturer's Loads** table on the next page.

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)



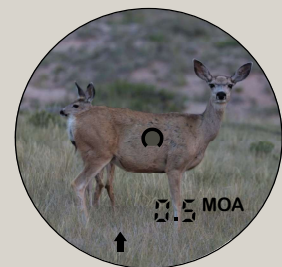
Zeroed Distance  
1=100 yard  
2=200 yard

◆ When using this mode, the line of sight will display for 2 seconds, followed by the ballistics adjustment value for 2 seconds. Both values will continue to flash back and forth for 12 seconds.

Line of Sight



Ballistics



**Note:** The up arrow indicates you would adjust your riflescope elevation turret in the upward direction by 0.5 MOA in order to correct for the bullet drop. If a down arrow appears, then you would adjust your turret in the downward direction by the amount of MOA displayed.



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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 ballistics adjustment value that is displayed to confirm that you have selected the optimum ballistics group number.

**Note:** In Gun Mode, it is normal for the rangefinder to take up to 1 second to return a range value.

In the **Standard Mode (Std)**, the rangefinder will return a range value in approximately 0.15 seconds.



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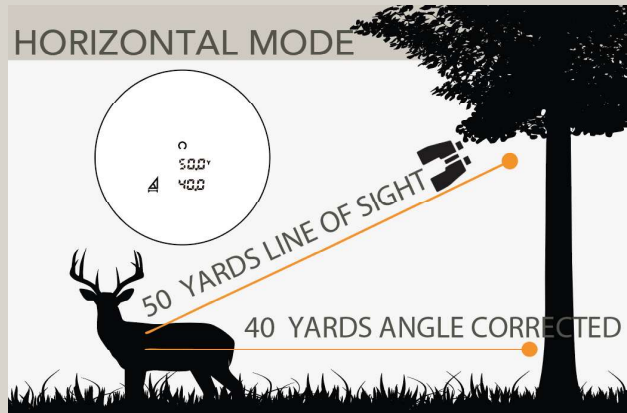
## Operation Modes - Horizontal & Angle

### 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 very bottom line shows the Horizontal Distance for 2 seconds.
- ◆ Both values will continue to flash back and forth for 12 seconds.

### HORIZONTAL MODE

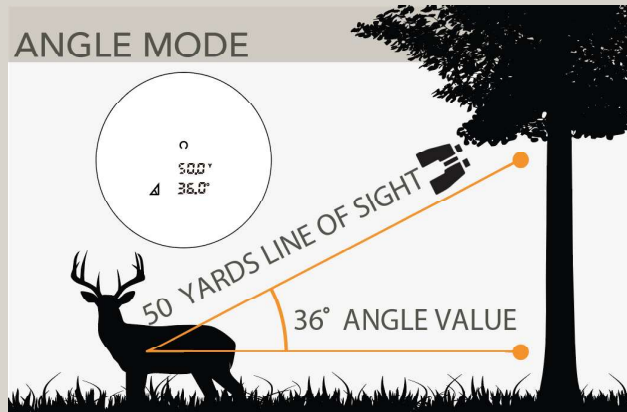


### ANGLE MODE WITH LINE OF SIGHT

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 very bottom line shows the Angle value for 2 seconds.
- ◆ Both values will continue to flash back and forth for 12 seconds.

### ANGLE MODE





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## Operation Modes - Golf

### GOLF MODE

The Astra Optix HBX-1600B Golf Mode provides the Slope value (also known as the Play Distance) and features Pin Lock which helps you accurately range the golf flagstick.

**Slope (Play Distance):** The rangefinder will provide you the adjusted play distance based on the angle of decline or incline to the flag.

- ◆ The top line shows the LOS distance for 2 seconds.
- ◆ The very bottom line shows the Slope value (Play Distance) for 2 seconds.
- ◆ Both values will continue to flash back and forth for 12 seconds.

Line of Sight

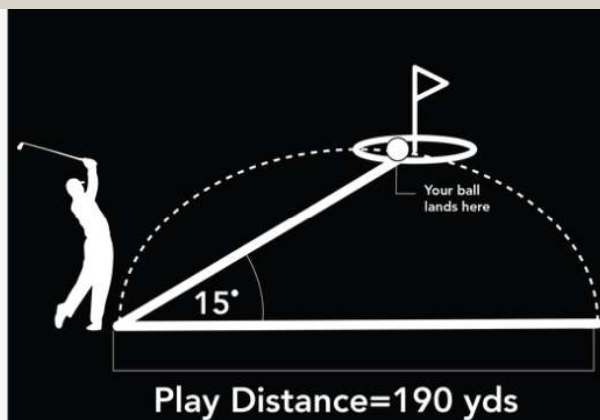
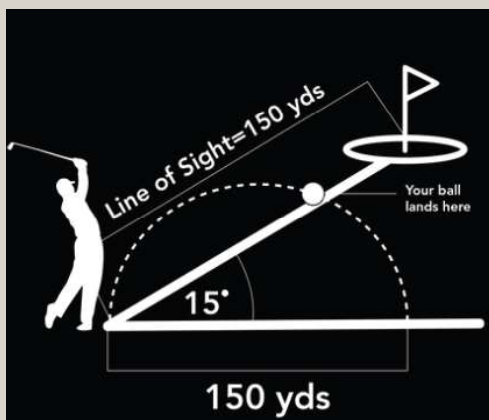
Line of Sight Distance

Slope

"Play" Distance



**Golf Mode and Slope (Play Distance):** In the golf mode, your rangefinder will first display the Line of Sight (LOS) distance which is 150 yards to the flag in the example below. However, because the flagstick is at an incline, the ball will land short of the flagstick. You will need to adjust your swing or use a different club based on your experience of hitting on an incline (or decline if the flagstick is below you). In the golf mode, the rangefinder will also automatically adjust for the incline (or decline) angle to the flagstick and will display the adjusted "Play Distance" of 190 yards at the very bottom of your display. Select your club based on a yardage of 190 yards. The yardage of 190 yards in this example is the adjusted distance based on the angle of incline.







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## Operation Modes - Golf Continued

### Pin Lock

To make it easier to range the flagstick, this rangefinder features Pin Lock. The Pin Lock feature displays the nearest distance value (which is usually the Golf Flagstick) of a group of targets that are within your field of view.

- ◆ Hold down the **Power (Range) Button** while you aim at the flagstick. Keep holding the power button down until the rangefinder display flashes a large duplex reticle which indicates you ranged the flag.

- ◆ This big duplex reticle will flash 2 times (about 2 seconds) confirming you ranged the flagstick.

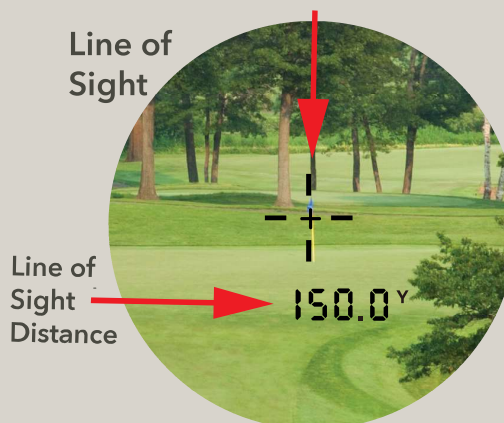
**Note:** In the golf mode, **Slope (Play Distance)** is always on.

If you do not want to see the slope (play distance) value, you may use **Standard Mode (Std)** and choose the **Angle with Line-of-Sight** sub-mode to display the Line-of-Sight and angle of incline/decline without the slope value.

Or select **Off** under the **Standard Mode (Std)** to only show the Line-of-Sight value and no slope value.

**Note:** The **Pin Lock** feature can only be used when in the **Golf Mode**.

The big flashing duplex reticle gives you visual feedback that you ranged the flagstick.



### Slope



**Note:** In Golf Mode, it is normal for the rangefinder to take up to 2 seconds to return a range value.

In the **Standard Mode (Std)**, the rangefinder will return a range value in approximately 0.15 seconds.



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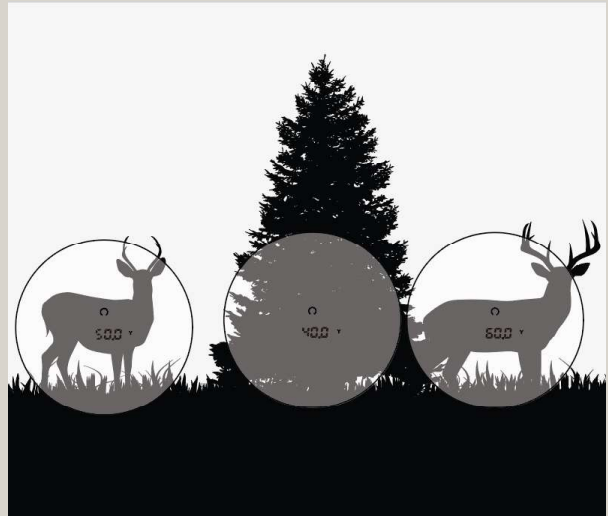
## Operation Modes - Scan

### SCAN MODE

Scan Mode provides continuous ranging measurements so that you can more easily identify the distance to hard-to-range targets that may be small or far away.

- ◆ 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.
- ◆ 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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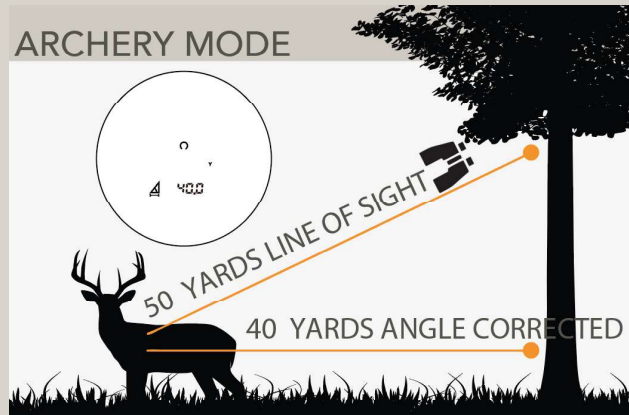
## Operation Modes - Archery & Gun

### 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.

- ◆ Only the Horizontal Distance will be displayed for up to 12 seconds.

### ARCHERY MODE



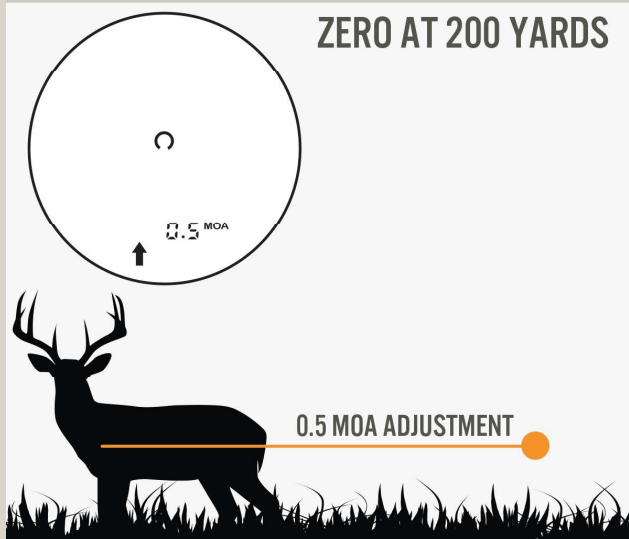
### GUN MODE WITH BALLISTICS

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 the elevation adjustment in MOA or MIL.

- ◆ The line of sight will be displayed for 2 seconds on the top line.
- ◆ The ballistics adjustment value in MOA or MIL along with the direction (up or or down) will display for 2 seconds.
- ◆ Both values will continue to flash back and forth for 12 seconds.

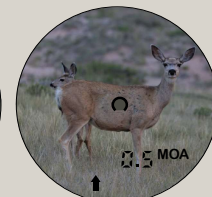
### GUN MODE WITH BALLISTICS

ZERO AT 200 YARDS



Line of Sight

Ballistics








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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 5,000 to 10,000 measurement readings. Colder environments will cause the battery life to be shorter. Your rangefinder will automatically shut off after 12 seconds of non-use.

**LOW BATTERY:** A 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, 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 down.

◆ 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 - Objective Lens Covers

Your Astra Optix™ Laser Rangefinder includes objective covers to protect your eyepiece lenses when not using the rangefinder. These objective covers feature a cord attachment to help keep from losing your covers. To attach the objective lens covers, follow the below steps.

◆ **Step 1** - Thread the loop end of the short section of the attachment cord through the binocular attachment loop.



◆ **Step 3** - Insert the plastic clip end of the cord into the plastic end on the long section of the objective lens cover attachment cord.



◆ **Step 2** - Insert the plastic clip end of the cord through the loop end, and pull to secure the short section of the attachment cord to the binocular attachment loop.



◆ Repeat these 3 steps for the other side objective lens cover. Insert each lens cover into the front objective barrels as shown below.







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## How to Use - Carry Case with Built-in Binocular Harness

Your Astra Optix™ Laser Rangefinder comes with a soft premium carry case with a built-in binocular harness to both protect your rangefinder and to provide a convenient way to carry your rangefinder. The case features two side pockets and one zipper pocket in the back.





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## How to Use - Carry Case with Built-in Binocular Harness - Continued

The Astra Optix binocular harness features adjustable quick release strap attachments for attaching to the binocular. Follow the below steps for attaching the quick release straps to the binocular.

◆ **Step 1** - Place the end of the quick release strap through the binocular attachment loop.



◆ **Step 2** - Add the eyepiece lens cover by continuing to insert the end of the quick release strap through the eyepiece cover's side loop as shown below, and thread the end through the plastic buckle.



◆ **Step 3** - Pull the strap up so that it is secure.



◆ Repeat these 3 steps for the other side quick release strap.



**Note** - Out of the box, this adjustable quick strap comes pre-assembled.





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## How to Use - Carry Case with Built-in Binocular Harness - Continued

Your Astra Optix™ Laser Rangefinder is easy to wear and easy to adjust for a comfortable fit. Just follow the below simple steps.

◆ **Step 1** - Place the harness over your head and buckle the side waist strap on both the right and left side.



◆ **Step 2** - Pull on the loop to tighten the side waist strap on both sides until the harness feels secure around your waist.



◆ **Step 3** - Pull up on the the left and right top straps to adjust the height of the carry case.



◆ **Step 4** - Locate the lanyard style binocular attachment buckles on the harness.





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## How to Use - Carry Case with Built-in Binocular Harness - Continued

◆ **Step 5** - Insert the lanyard style binocular attachment buckle in to the binocular quick release buckle. Repeat on both sides.



◆ **Step 6** - Pull up on the harness straps to ensure that the binocular is secured to the harness.



◆ **Step 6 - Continued:** The binocular should now be secure to the harness, so you can remove the binocular out of the case to use.



◆ **Step 6** - The case features a stretch cord with hook closure.





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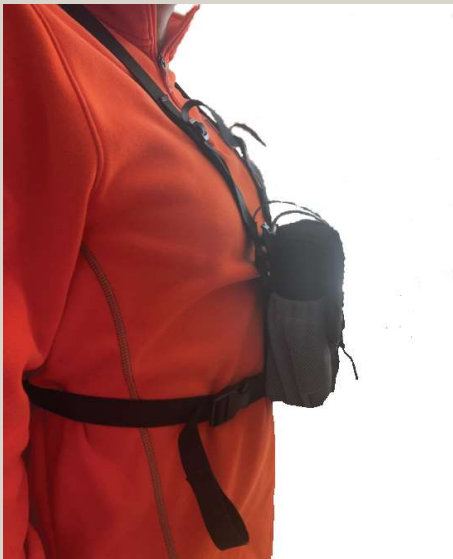
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## How to Use - Carry Case with Built-in Binocular Harness - Continued

◆ **Step 7** - The harness should now fit snug but comfortable in the front and on the side.



◆ **Step 8** - The straps in the back should lay flat as shown.







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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 just under the aiming reticle followed by the **Angle** value at the bottom of the display for 2 seconds. 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** features Slope and Pin Lock technology and will display the nearest distance value (Golf Flagstick) of a group of targets that are within your field of view. The Duplex reticle ( - ' - ) will flash giving you visual confirmation that you have locked on to the golf flagstick. In Golf Mode, your rangefinder will also provide you the adjusted Slope distance based on the angle of decline or incline to the flag.

◆ Under ideal conditions, your Astra Optix™ Laser Rangefinder can measure the distance of reflective objects out to 1,760 yds. It can also measure a deer out to 800 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.

◆ If you have problems ranging your target, use the SCAN feature by holding down the **Power Button** to take continuous measurements.

◆ **IMPORTANT:** The adjustment 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.



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## Specifications & Features



Magnification	10X
Objective Lens Diameter	42 mm
Prism Type	BaK4 Roof Prism
Close Focus	3.3 yards
Minimum Ranging Distance	10 yards
Eye Relief	15.1 mm
Exit Pupil	4.2 mm
Field of View	330 ft. at 1000 yds.
Water-Resistance Rating	IPX67 (IPX7 Water-Proof & Dust-Proof)
Fogproof	Yes
Lens Coating	Fully Multi Coated
Prism Coating	Silver Coated
Housing Material	Composite with Rubber Armoring
Dimensions	6.42"x 5.12"x 2.17"
Total Wt. (including battery)	27.51 oz.
Laser Type	905 nm Class 1 Eye-Safe
Display Type	High Transmission LCD
Reticle Selection	4 Optional Aiming Reticle Choices
Range Response Time	0.15 seconds (Standard Mode Only)
Battery Type	CR-2 3-volt Lithium
Battery Life	Approximately 5,000 to 10,000 Readings
Laser Range (Reflective)	6-1,760 yds.
Laser Range (Tree)	6-1,000 yds.
Laser Range (Deer)	6-800 yds.
Horizontal (Angle Corrected) Mode	Yes
Angle with Line of Sight Mode	Yes
Archery Mode	Yes
Gun Mode with Ballistics	Yes
Golf Mode with Pin Lock and Slope	Yes
SCAN Mode	Yes
Light Transmission %	84.8% (Left Barrel) / 74.3% (Right Barrel)



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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 (----.-Y) in the display, it is possible that you are either too close (less than 10 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 (----.-Y).
- ◆ 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.



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## Care for your Rangefinder

You can ensure your rangefinder will last for years to come by keeping in mind a few care tips below.

- ◆ Take care not to drop your laser rangefinder. It is best to prevent any forceful impacts that could damage your laser rangefinder.
- ◆ First, pull on the binocular harness straps to ensure that they are secured to the laser rangefinder.
- ◆ Store your laser rangefinder in a cool and dry location.
- ◆ Blow dirt, dust or debris off the lenses.
- ◆ To clean your laser rangefinder lenses, use the included premium microfiber lens cloth to lightly wipe away dirt, fingerprints or debris.
- ◆ Do not use strong liquid cleaners or chemicals to clean the lenses, as these could damage your lenses or lens coatings.
- ◆ If your laser rangefinder is covered in dirt, mud or liquid, you can use a damp warm softcloth to clean your rangefinder. Lightly wipe with the cloth to remove the dirt or residues.

## Safety and Warnings

- ◆ Do not look directly at the sun with your rangefinder, as it could cause serious damage to your eyes.
- ◆ Do not aim the rangefinder directly at a person's eyes, and do not look directly into the lenses on the objective lens side of the product when you are pressing the power button.
- ◆ Keep out of reach of small children.
- ◆ Only use a CR2 3-volt battery and do not use any outside power source.
- ◆ Do not attempt to open or take apart your laser rangefinder, as this will void your lifetime warranty, may damage your product and could cause electric shock.
- ◆ Class 1 Laser Product. Product complies with IEC60825-1: Ed. 3: 2014-05 and 21CFR1040. 10/11.



**LASER  
APERTURE**



**RoHS**





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## Our Handshake Lifetime Warranty

In our world, relationships are built on trust, loyalty and a commitment that was solidified in a handshake. We take our products seriously, and back them with our generous Handshake Warranty. Our Handshake Warranty is a commitment to you that no matter what, we got your back. If for any reason our products fail you in any way, we are determined to make it right with you. We want you to feel confident in your purchase with us, and to ultimately be your trusted resource for your optics needs.

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



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.

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



Subscribe to our YouTube channel to have a chance for promotions and giveaways.

Our Handshake Lifetime Warranty is fully transferable!

Our warranty does not cover cosmetic damage, theft, unauthorized modification or intentional misuses/damage.

Don't hesitate to reach out to us if you have any questions or concerns about your product. We are here to help!

We want to thank you again for your purchase of your new Astra Optix HBX-1600B Laser Rangefinder.

