



# ASTRA

THE OPTICS STANDARD

## PRO A-1 Golf & Hunting Laser Rangefinder 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 PRO A-1 Golf and Hunting Laser Rangefinder.

The Astra Optix PRO A-1 Golf and Hunting Laser Rangefinder features a 6x21mm optical system with coated lenses and a ranging distance of up to 800 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.



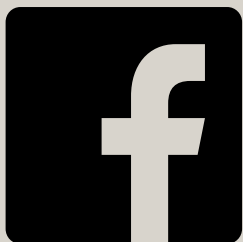
Scan our warranty QR code to go directly to our Handshake Warranty registration page.

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.

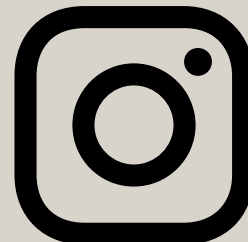
Like us on Facebook to see the latest news for our Astra Optix rangefinders!



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



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





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## What's in the Box?

- ◆ 6x21mm Laser Rangefinder
- ◆ Interchangeable Black Front Cover
- ◆ Microfiber Storage Pouch
- ◆ CR-2 3-volt Lithium Battery
- ◆ Screwdriver
- ◆ 4ea Spare Screws for Front Cover
- ◆ Astra Optix™ Decal Sticker
- ◆ Astra Optix™ Warranty Card
- ◆ Quick Start Guide







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## Features

The Astra Optix PRO A-1 Golfing Laser Rangefinder is what we call a great versatile product. The features and quality we incorporated in this budget-friendly golfing rangefinder gives you all the accurate range finding capabilities and optical quality expectations you would expect in a higher end product. A truly versatile rangefinder that can be used for both Golf, Archery Hunting, Gun Hunting and Target Shooting.

◆ **FAST FLAGSTICK, ANIMAL OR TARGET RANGING:** Our Standard Ranging Mode provides accurate and fast ranging speeds as fast as 0.30 seconds.

◆ **ACCURATE RANGING CAPABILITIES:** This rangefinder is accurate and versatile for various objects at short distance or long distances: Reflective: Up to 800 yards, Tree: Up to 500 yards, Deer: Up to 250 yards, Flag: Up to 200 yards, Flag Lock: Up to 200 yards.

◆ **QUALITY OPTICAL SYSTEM WITH TRANSMISSIVE BLACK READOUT LCD DISPLAY:** 6x magnification brings you up closer to your viewing target. Coated Optical system features an optical lens system with at least one anti-reflective coating on each air to glass lens surface to increase resolution and overall light transmission. Our LCD display provides simple and easy to use menu options and provides a clear black readout in all light conditions.

◆ **TRULY VERSATILE FOR BOTH GOLF AND HUNTING:** Features green and black interchangeable front cover. Choose green for the golf course or choose black when out hunting in the field. Easy to change front cover makes this rangefinder perfect for either golf or gun hunting, bow hunting and target shooting.

◆ **ADVANCED GOLFING AND HUNTING FEATURES AND TECHNOLOGIES:** Featured technologies includes Golf Mode with Slope Distance and Pin Lock, Hunt Mode with Line-of-Sight (LOS), Angle-Corrected Horizontal Distance, Angle Value and SCAN mode.





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## Your Rangefinder at a Glance

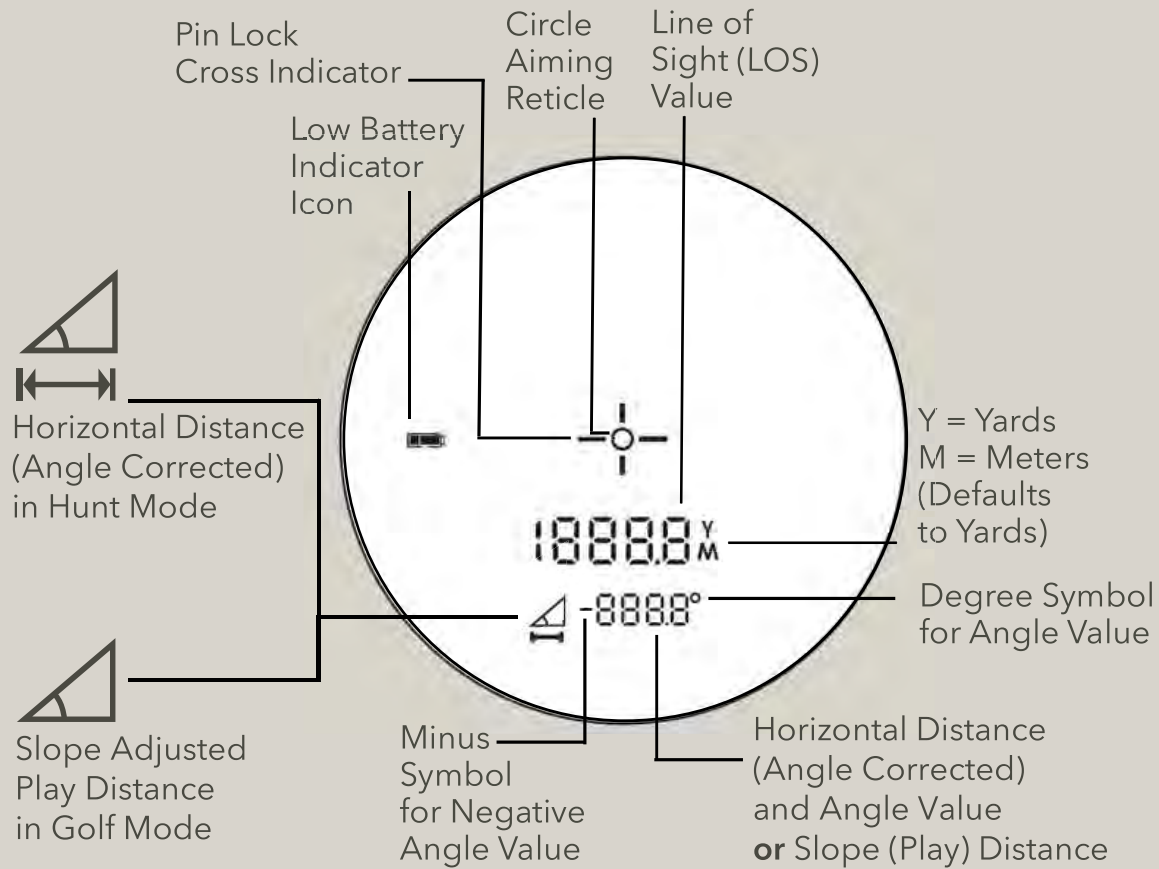




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## LCD Display





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## Quick Start

### 1. Menu Settings - Button Operation Summary



Hold Mode Button to enter menu.

Press Mode Button to confirm selections in the menu.

Hold Mode Button to exit menu.

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

Hold Power Button to SCAN (Hunt Mode only).

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

### 1.1. Menu Settings - Menu Operation Summary

#### ◆ Operation Mode Selection

- **Golf Mode** with Pin Lock and Slope Technology
- **Hunt Mode** with Horizontal (Angle Corrected) Distance, Angle Value, and Line of Sight (LOS) Distance.

#### ◆ Distance Units Selection

- Y / M

#### ◆ Scan Mode (**Hunt Mode Only**)

- Hold Power Button down to scan different objects for continuous fast distance measurements.
- In Scan Mode, only the Line of Sight (LOS) Distance will display.

#### Notes:

◆ 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.

◆ In Golf Mode, the Pin Lock feature provides visual feedback when locked on to the golf flagstick. A large cross ( - ' - ) will flash when you range the flagstick. For optimum results, hold the rangefinder as still as possible on your target for up to 2 seconds or until you see the distance appear on your display.



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## Quick Start

**2. Remove plastic insert to connect battery:** Open the battery cover and remove the plastic insert from the top of the battery.



**3. Turn on unit and Adjust the Eyepiece Diopter Focus:** Press the **Power (Range) Button** to turn on the rangefinder LCD 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



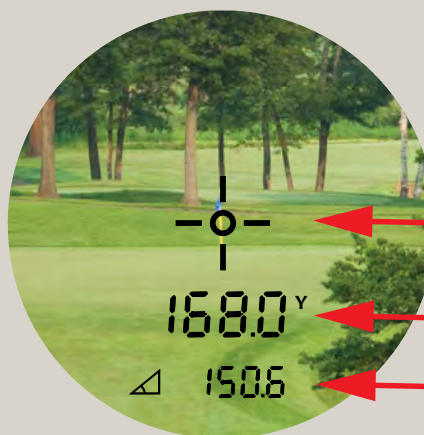
**4. Measuring Distance:** Aim the **Aiming Reticle** on the object you want to range and press the **Power Button** to display the distance. Your factory default mode setting is in the **Golf Mode**.

### Golf Mode Display Readout:

◆ The **Line of Sight (LOS)** value will display on the top row in your display for 12 seconds, or until you press the range button again.

◆ The **Slope "Play" Distance** will display at the same time as the LOS value on the bottom row of your display for also 12 seconds

◆ The **Pin Lock** feature provides visual feedback so you can be confident in the distance to the flagstick. Press the **Power (Range) Button** (you do not need to hold down the button), while aiming at the flagstick for up to 2 seconds or until you see the distance appear on your display. When locked on to the golf flagstick, a large cross indicator (  $\begin{smallmatrix} - & | & - \\ | & & | \end{smallmatrix}$  ) will flash.



Pin Lock  
Cross  
Indicator  
Flashes

Line of Sight  
(LOS) Value

Slope Value






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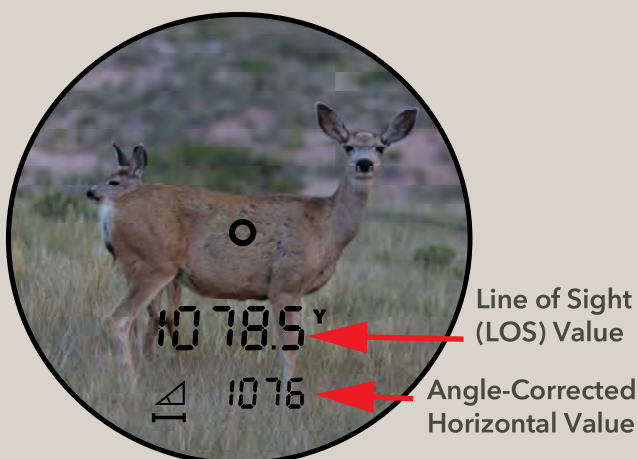
THE OPTICS STANDARD

## Quick Start

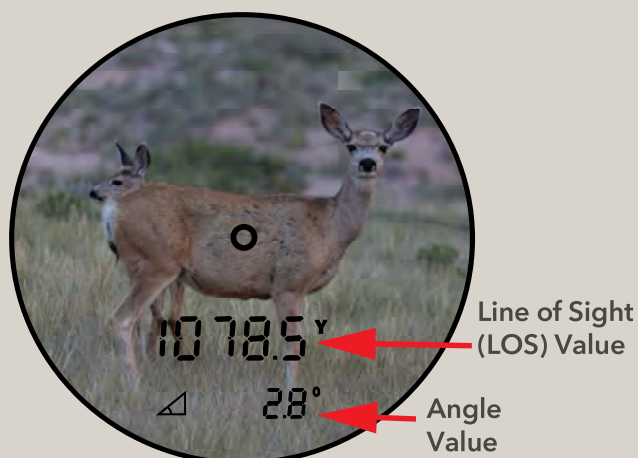
### Hunt Mode Display Readout:

◆ The **Line of Sight (LOS)** value will display on the top row in your display for 2 seconds.

◆ The **Angle-Corrected Horizontal Distance** () value will flash for 2 seconds on the bottom line.



◆ The **Angle** value will flash for 2 seconds on the bottom line following the horizontal distance.



◆ All three values will continue to flash back and forth for 12 seconds or until you take a new measurement.

**5. Change between Golf Mode and Hunt Mode:** Press the **Power (Range) Button** to turn on the rangefinder. Next press and hold the **Mode Button** for about 3 seconds to enter the menu.

Press the **Power (Range) Button** to cycle between Golf and Hunt. When the mode you want is blinking, press the **Mode Button** to select.



**6. Turn off the rangefinder:** The unit will turn off automatically if no operation for 12 seconds and will keep the last setting used.



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## Quick Start

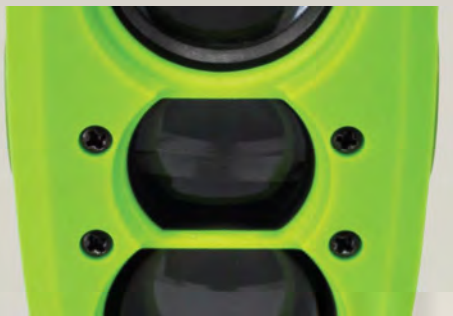
### 7. Bonus Interchangeable Front Cover!

Your Pro A-1 Rangefinder comes with an extra black front cover to use for hunting and 4 extra spare replacement screws just in case.



Follow the below quick and easy steps to switch between your green front cover for golf to the included black front cover for hunting.

- ◆ Using the included screwdriver, remove all four screws from the green front cover. Unscrew in the counter-clockwise direction.



- ◆ Remove the green cover from the front of the rangefinder.



- ◆ Place the black cover on the front of the rangefinder. There are grooves in the front of the laser rangefinder. Slide the cover into these grooves.

- ◆ Replace the 4 screws and secure them into the 4 holes of the front cover by turning them clockwise with the included screwdriver. Do not overtighten. Just tighten the screws until they stop.








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## Operation Modes - Hunting

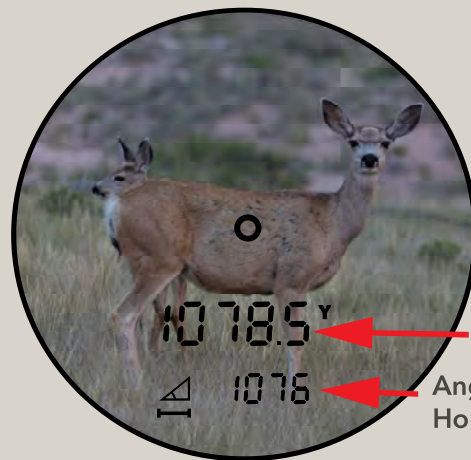
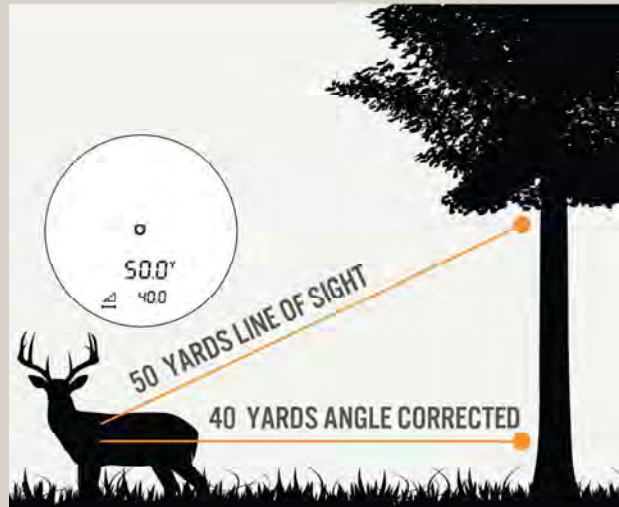
### HUNT MODE - TRUE HORIZONTAL WITH LINE-OF-SIGHT AND ANGLE

Also known as angle compensation mode, will give you the angle-corrected shoot-at distance no matter the terrain, the line-of-sight distance (LOS) and the angle of incline or decline. Aim the reticle at the target. Press the power (range) button to measure the distance.

- ◆ The **Line of Sight (LOS)** value will display on the top row in your display for 2 seconds.
- ◆ The **Angle-Corrected Horizontal Distance** () value will flash for 2 seconds on the bottom line.
- ◆ The **Angle** value will flash for 2 seconds on the bottom line following the horizontal distance.
- ◆ All three values will continue to flash back and forth for 12 seconds or until you take a new measurement.

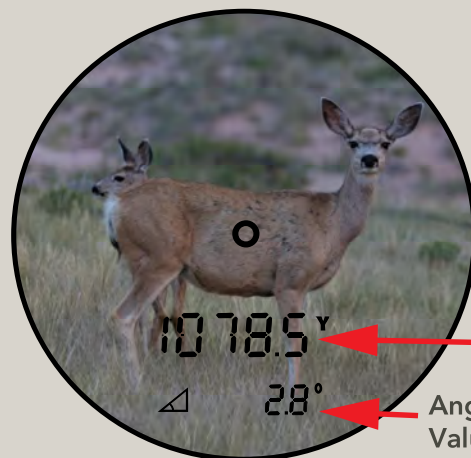
**TIP:** For long range shooting, you can use the LOS distance value and the angle value to calculate holdover using a ballistics calculator (ballistics calculator not included with product).

### HUNT MODE - TRUE HORIZONTAL WITH LINE-OF-SIGHT AND ANGLE



Line of Sight (LOS) Value

Angle-Corrected Horizontal Value



Line of Sight (LOS) Value

Angle Value



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## Operation

### SCAN MODE (Hunt Mode Only)

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.

- ◆ Hold Power Button down to scan different objects for continuous fast distance measurements.
- ◆ In Scan Mode, only the Line of Sight (LOS) Distance will display.
- ◆ To exit the SCAN mode, just stop holding the Power (Range) Button and you will return to your original operation mode.

### HUNT MODE - SCAN





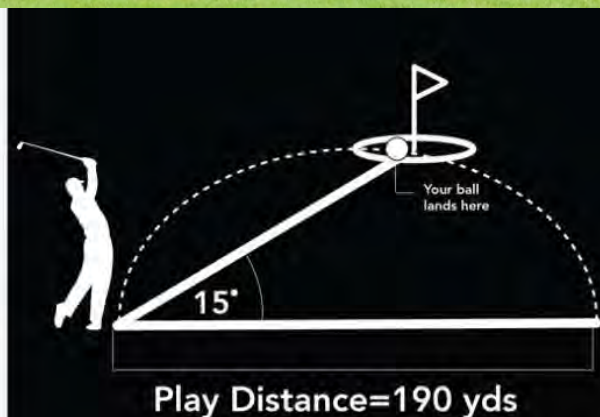
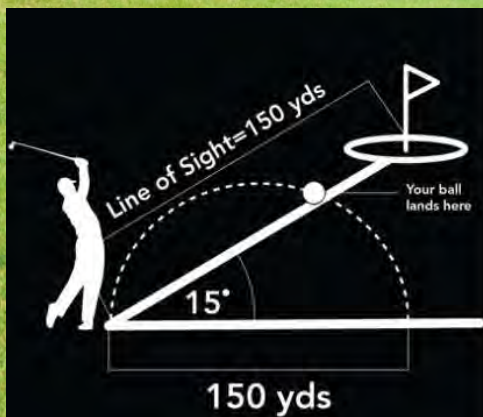


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When in the golf mode Slope Play Distance is always on

**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.

◆ Press the **Power (Range) Button** (you do not need to hold down the button), while aiming at the flagstick for up to 2 seconds or until you see the distance appear on your display. When locked on to the golf flagstick, a large cross indicator (  $\text{—} \frac{1}{\text{—}}$  ) will flash.

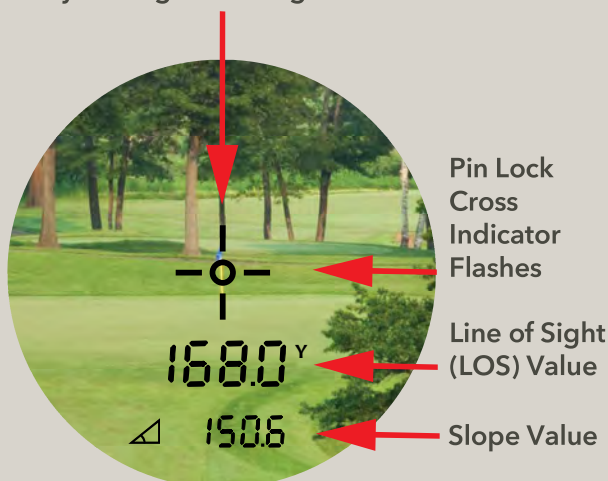
**Note:** If you do not want to see the slope (play distance) value, you may use **Hunt Mode** and use the **Line-of-Sight** distance on the top line. In the Hunt Mode, the Slope distance is not displayed.

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

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

In the **Hunt Mode**, the rangefinder will return a range value in approximately 0.30 seconds.

The big flashing cross indicator gives you visual feedback that you ranged the flagstick.



**Pin Lock:** Upon measuring the flagstick, a large cross indicator symbol will flash as shown in the figure on the right. In the figure on the right, the rangefinder is in the golf mode, and the adjusted "Play at" distance is displayed on the bottom line.








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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:** 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, 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 cross 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 Cross 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 - Soft Pouch

Your Astra Optix™ Laser Rangefinder comes with a premium microfiber storage pouch with drawstring closure which doubles as a microfiber lens cloth to help both protect your rangefinder and to provide a convenient way to clean your lenses.



Drawstring  
Closure







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## Tips for Using Your Rangefinder

◆ Your laser rangefinder comes defaulted to the **Golf Mode**. This rangefinder provides the **Slope "Play" Distance** when in the **Golf Mode**. In this mode, it will display the **Line of Sight (LOS) Value** on the top line and the **Slope "Play" Distance** on the bottom line. Your rangefinder will calculate the adjusted play distance based on the angle of decline or incline to the flag. This feature is based on hitting a golf ball, and should not be used for hunting.

◆ In **Golf Mode**, to make it easier to range the flagstick, your rangefinder has **Pin Lock** technology. When you press the **Power (Range) Button** down to range the flag, the rangefinder will display the nearest distance value (Golf Flagstick) of a group of targets that are within your field of view. The cross indicator (  $\begin{smallmatrix} - & | & - \\ & \downarrow & \end{smallmatrix}$  ) will flash giving you visual confirmation that you have locked on to the golf flagstick. For optimum results, hold the rangefinder as still as possible on your target for up to 2 seconds or until you see the distance appear on your display.

◆ For hunting, choose the **Hunt Mode**. The rangefinder will display the **Line of Sight (LOS)** distance, **Horizontal (Angle Corrected)** distance, and the **Angle** value. For archery or shooting, you can use the horizontal angle-corrected shoot-at distance. The horizontal angle corrected distance is only for hunting. For hitting a golf ball, use the golf mode which provides the slope "play" distance.

◆ Under ideal conditions, your Astra Optix™ Pro A-1 Laser Rangefinder can measure the distance of reflective objects out to 800 yds. It can also measure a tree out to 500 yds., a deer out to 250 yds., and the flag out to 250 yards. The **Pin Lock** feature works up to a distance of 250 yards. 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.

◆ The Low Battery symbol will flash when the battery life is lower than 25%. We recommend that you change the battery as soon as possible. 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.



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## Specifications and Features

Magnification	6 Power
Objective Lens Diameter	21 mm
Close Focus	6 yards
Eye Relief	15 mm
Exit Pupil	3.5 mm
Field of View	31.50 ft. at 100 yds.
Water-Resistance Rating	IPX4 (Water-Resistant)
Lens Coating	Coated
Housing Material	Composite with Rubber Armoring
Dimensions	4.13"x 1.68"x 3.13"
Total Wt. (including battery)	6.08 oz.
Laser Type	905 nm Class 1 Eye-Safe
Display Type	Transmissive Black LCD
Range Response Time	0.3 seconds
Battery Type	CR-2 3-volt Lithium
Battery Life	Approximately 10,000 Readings
Laser Range (Reflective)	6-800 yds.
Laser Range (Tree)	6-500 yds.
Laser Range (Deer)	6-250 yds.
Laser Range (Flag)	6-250 yds.
Laser Range (Pin Lock Feature)	6-250 yds.
Range Accuracy (Distance & Angle)	+/- 1 Yard & +/- 1°
Slope Feature	Yes
Pin Lock	Yes
Operational Temperature Range	23°F to 120°F



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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.



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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.
- ◆ 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 microfiber pouch which doubles as a 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 PRO A-1 Laser Rangefinder.

