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PRO B-1 6x21 Golf 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 B-1 Golf Laser Rangefinder.

The Astra Optix PRO B-1 Golf Rangefinder features a 6x21mm, all glass optical system with multi-coated lenses, prism coatings and a ranging distance of up to 1760 yards on reflective targets.

REMINDER: Please register your product to activate our Handshake Warranty on line at 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.

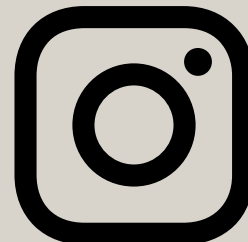
Don't hesitate to reach out to us if you have any questions or concerns about our products.

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?

- ◆ 6x21mm Laser Rangefinder
- ◆ Soft Premium Carry Case
- ◆ Microfiber Lens Cleaning Cloth
- ◆ CR-2 3-volt Lithium Battery
- ◆ Adjustable Neck-Style Lanyard
- ◆ Astra Optix™ Decal Sticker
- ◆ Astra Optix™ Warranty Card
- ◆ Quick Start Guide





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Features

The Astra Optix PRO B-1 Golfing Laser Rangefinder is what we call a true value. The features and quality we incorporated in this budget-friendly golfing rangefinder gives you all the accurate rangefinding capabilities and optical quality expectations 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 0.10 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, Flag: Up to 450 yards, Flag Lock: Up to 250 yards.

◆ **HIGH TRANSMISSION LCD DISPLAY:** Our enhanced LCD display provides brighter image and color quality with over 48% more light transmission performance than the standard LCD options.

◆ **PREMIUM OPTICAL QUALITY:** All Glass Optical System provides better light transmission vs. lesser quality plastic lens systems. 6x magnification brings you up closer to your viewing target. Multi-Coated Optical system features an optical lens system with one or more anti-reflective coatings on each air to glass lens surface as well as prism coatings to increase resolution and overall light transmission.

◆ **ADVANCED TECHNOLOGIES:** Featured technologies includes Slope Mode and Pin Lock with Vibration Mode.

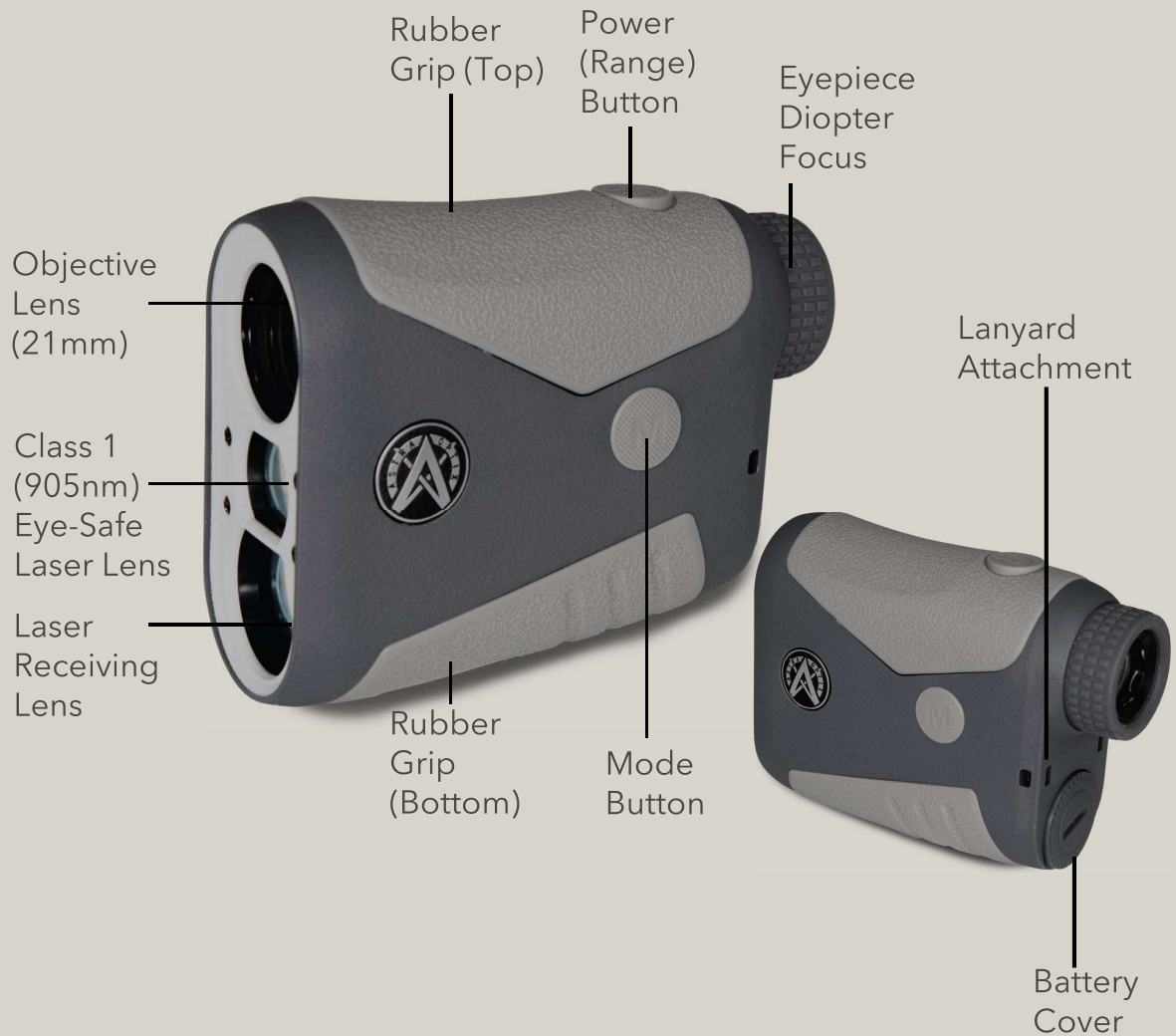




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Your Rangefinder at a Glance

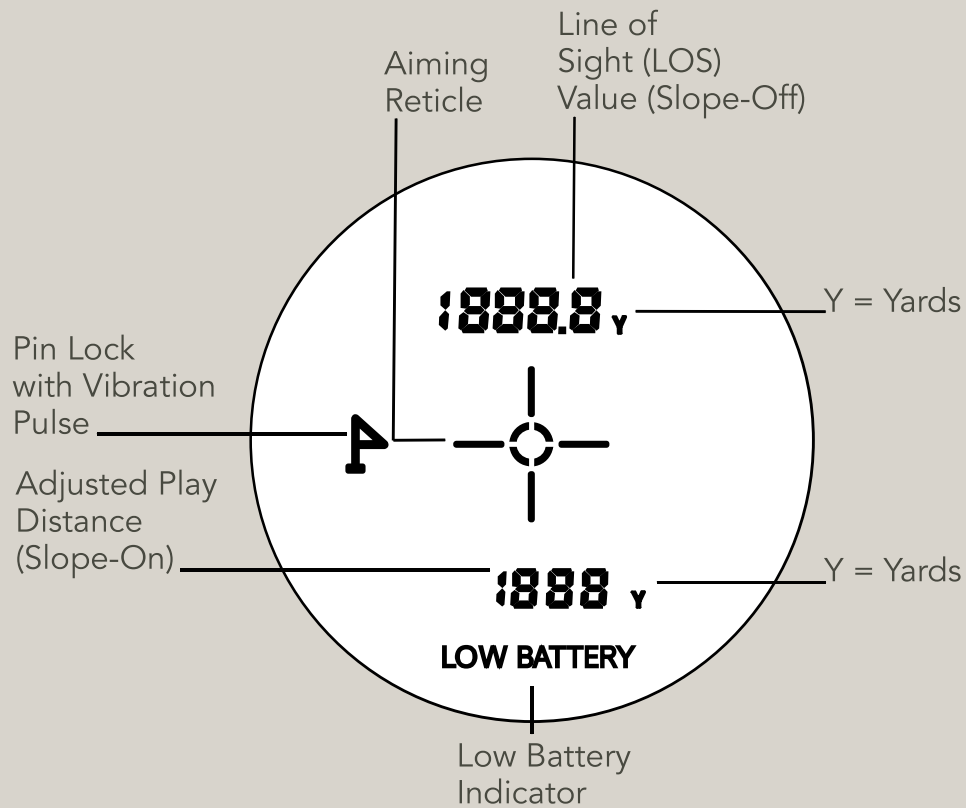




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High Transmission LCD





Quick Start

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



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



3. 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 in the **Slope-off Mode**.

In the Slope-Off Mode: The line of sight (LOS) value is displayed at the top of the display.

In the Slope-On Mode: The "play at" distance will be displayed at the bottom of your display.

Slope-Off Mode



Slope-On Mode





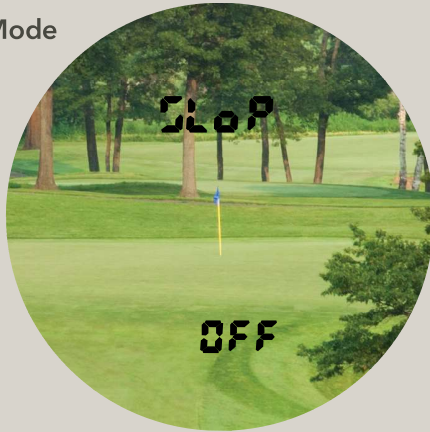
Quick Start

4. Change between Slope-On and Slope-Off mode: Simply press the **Mode Button** one time.

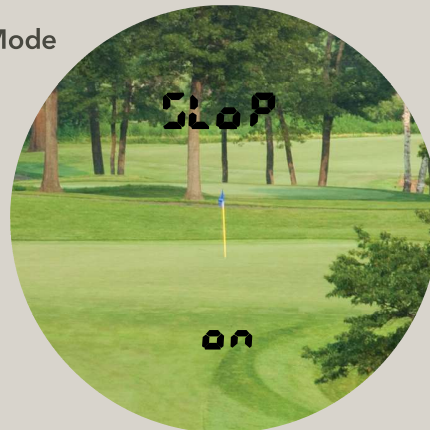
Press the
Mode Button



Slope Mode
is off



Slope Mode
is on



5. Use Pin Lock with Vibration Pulse: Our Pin Lock feature provides visual and vibration feedback so you can be confident in the distance to the flagstick.

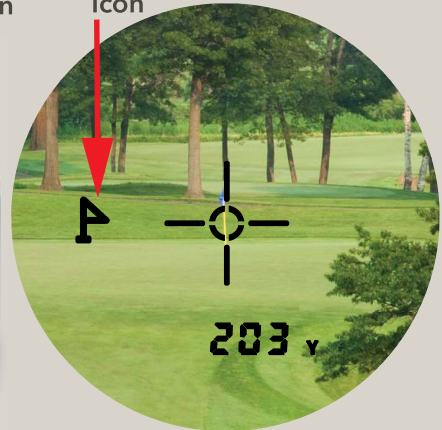
Simply hold down the **Power (Range) Button** when aiming at the flagstick. This may take a few seconds. The rangefinder will vibrate and display a flagstick icon in the display indicating you have ranged the flag.

If there are no other objects around the flagstick, your rangefinder may give you the distance without showing that you are locked onto the flagstick.

Hold the Power
Button Down



Flagstick
Icon



6. Turn off the rangefinder: The unit will turn off automatically if no operation for 10 seconds and will keep the last setting used.



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Operation Modes

SLOPE MODE

This rangefinder features **Slope Mode**. In **Slope Mode** the rangefinder will provide you the adjusted play distance based on the angle of decline or incline to the flag.

- ◆ The “play at” distance will show at the bottom of your display for about 10 seconds or until you take another measurement.
- ◆ Simply press the **Mode Button** one time to turn off the **Slope Mode**. If slope is turned off, the Line of Sight (LOS) distance will show just above the reticle for 10 seconds or until you take another measurement.

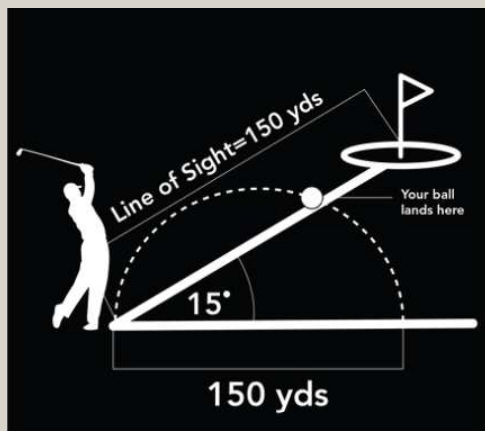
Slope Mode is On



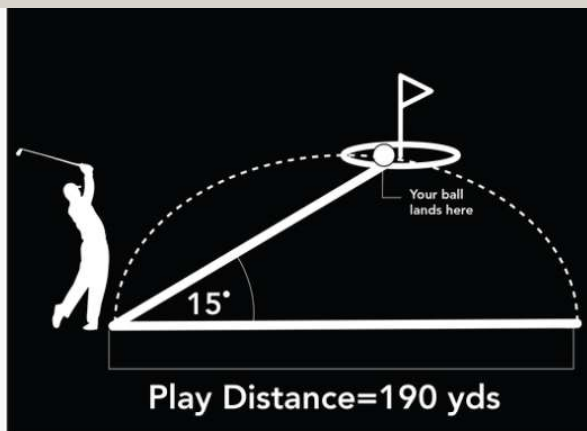
Slope Mode is Off



Slope Mode: If Slope Mode is off, your rangefinder will 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). But, when Slope Mode is on, the rangefinder will automatically adjust for the incline (or decline) angle to the flagstick and will display the adjusted “Play Distance” of 190 yards. 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.



SLOPE MODE OFF



SLOPE MODE ON



Operation Modes - Continued

PIN LOCK WITH VIBRATION PULSE

To make it easier to range the flagstick, hold down the **Power (Range) Button** while you aim at the flagstick. Keep holding the power button down until the rangefinder vibrates and displays a flagstick icon which indicates you have ranged the flag.

- ◆ A flagstick icon will appear confirming you have ranged the flagstick and the rangefinder will vibrate.

- ◆ If you are in slope mode, the "play at" distance will show just below the reticle.

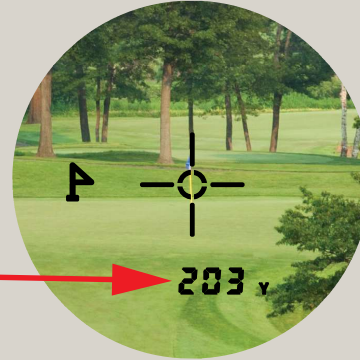
If slope mode is turned off, the line of sight (LOS) value will show above the reticle.

Pin Lock: Upon measuring the flagstick, the flagstick symbol will appear to the left as shown and the rangefinder will vibrate.

In the figure on the right, the rangefinder is in the slope mode, and the adjusted "Play at" distance is displayed at the bottom of the reticle.

If slope mode is off, the pin lock feature works in the same way, but instead of displaying the adjusted "Play at" distance, the line of sight (LOS) distance will be displayed above the reticle.

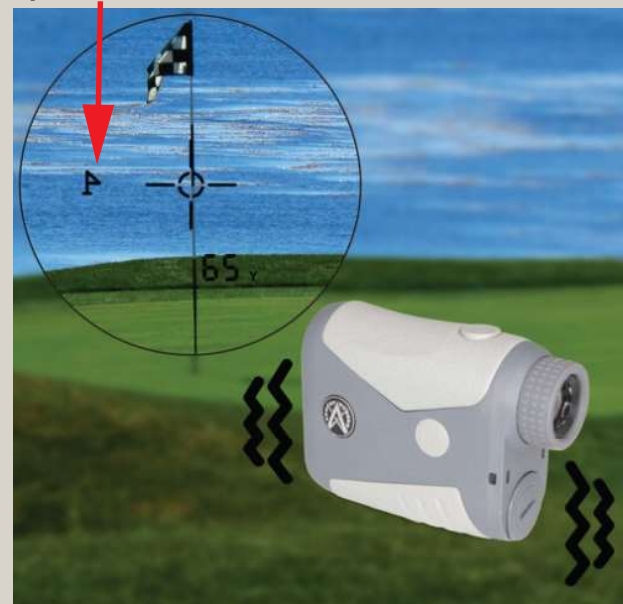
Pin Lock with Slope Mode On



Pin Lock with Slope Mode Off



Pin Lock Flagstick Symbol





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How to Use - Installing the Battery

Your Astra Optix™ Golf 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 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 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 **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™ Golf 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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How to Use - Carry Case

Your Astra Optix™ Golf Laser Rangefinder comes with a soft premium carry case to protect your rangefinder.



Carry-Case
Zipper
Closure





Tips for Using your Rangefinder

- ◆ Your laser rangefinder comes defaulted to the **Slope-Off Mode**. In this mode, it will display the **Line of Sight (LOS) Value** at the top of the display.
- ◆ This rangefinder also features **Slope Mode**. In **Slope Mode** your rangefinder will provide you the adjusted play distance based on the angle of decline or incline to the flag. To learn more about **Slope Mode**, you can also visit our website.
- ◆ To make it easier to range the flagstick, hold the **Power (Range) Button** down to enter the **Pin Lock with Vibration Pulse Mode**. The rangefinder will vibrate and display a flagstick icon confirming you have ranged the flag. You may need to hold the **Power (Range) Button** down for a few seconds until the rangefinder locates the flagstick.
- ◆ Under ideal conditions, your Astra Optix™ Pro B-1 Golf Laser Rangefinder can measure the distance of reflective objects out to 1,760 yds. It can also measure a tree out to 1,000 yds. and the flag out to 450 yards. The **Pin Lock with Vibration Pulse Mode** 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.
- ◆ If "Low Battery" flashes, 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.



Specifications

Magnification	6X
Objective Lens Diameter	21 mm
Close Focus	6 yds.
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	Multi Coated
Prism Coating	Silver
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	High Transmission LCD
Range Response Time	0.1 seconds
Battery Type	CR-2 3-volt Lithium
Battery Life	Approximately 10,000 Readings
Laser Range (Reflective)	6-1,760 yds.
Laser Range (Tree)	6-1000 yds.
Laser Range (Flag)	6-450 yds.
Laser Range (Pin Lock Feature)	6-250 yds.
Range Accuracy (Distance & Angle)	+/- 1 Yard & +/- 1°
Slope Feature	Yes
Pin Lock with Vibration Pulse	Yes
Operational Temperature Range	14°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 eyepiece a little until you can see the full circular field of view.
- ◆ Your rangefinder can operate between temperatures of 14° F and 120° F. If temperatures are lower than 14° 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 end of the lanyard to ensure that it is 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 soft cloth 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 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



FC

CE

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 on line at 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.

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 B-1 Golf Laser Rangefinder.

