



# ASTRA

THE OPTICS STANDARD

## OTX2400B Laser Rangefinder Quick Start Guide



### Specifications & Features

Magnification	6X
Objective Lens Diameter	21 mm
Close Focus	6 yards
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	Red Reflective OLED
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

Download the full instruction manual at [www.astraoptix.com](http://www.astraoptix.com).  
For customer service support, email [Contact@astraoptix.com](mailto:Contact@astraoptix.com)



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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

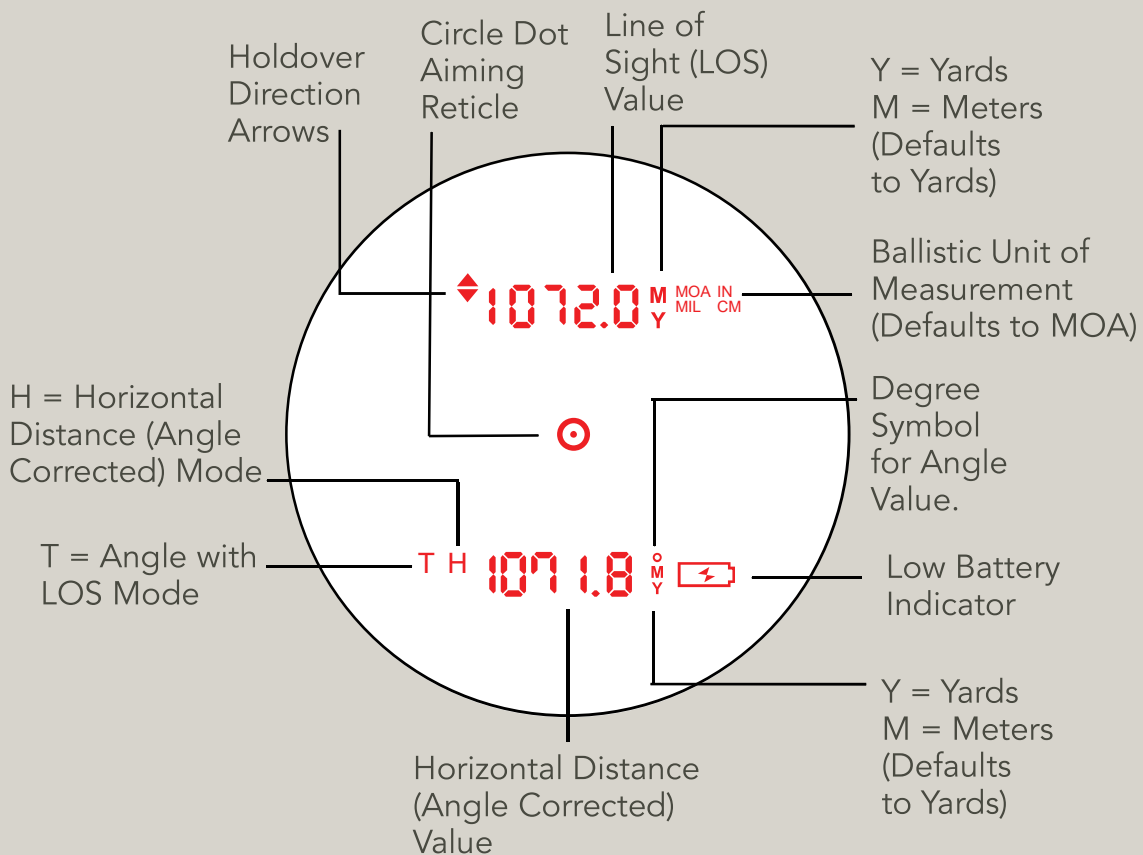


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# Your Rangefinder at a Glance



## Red Reflective OLED



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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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**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.



## 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

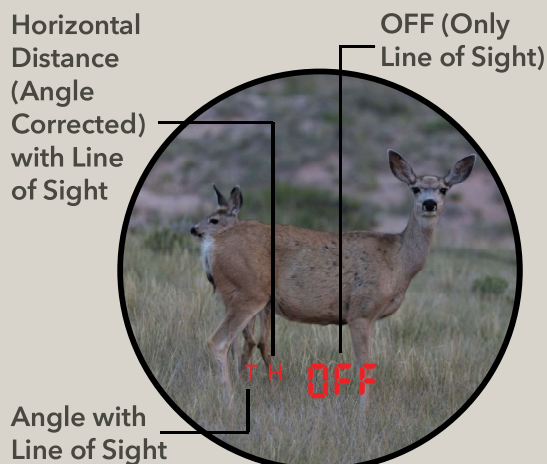
**5.2. Yards & Meters Selection:** In the menu press the **Power (Range) Button** to cycle between Yards (Y) and Meters (M) . Press the **Mode Button** to select.



**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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### 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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## 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.



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## Register your Product

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.

## Review your Product

Help fellow 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).

Scan the Amazon.com QR code to review your purchase.



## Warning

- ◆ Do not look directly at the sun with your rangefinder, as it could cause serious damage to your eyes.
- ◆ Do not aim the rangefinder at a person's eyes and do not look into 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.
- ◆ The Gun mode displayed ballistics holdover values and displayed elevation adjustment values are accurate from 15 to 500 yards. If shooting at distances farther than 500 yards, we suggest using the **Angle with Line of Sight** mode. Shooters can use the **Line of Sight** distance value and the **Angle** value information to calculate holdover using a ballistics calculator.
- ◆ 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.

