ALPEN
OPTICS

Discover the Difference

Model: 890LR

CRESTONE XP 7x24
OLED LASER RANGEFINDER
Instruction Manual

— GENERAL WARNINGS

Read the safety instructions and the instruction manual carefully before using this device. Keep this instruction manual in a safe place for future reference. When the device is sold or given to someone else, the instruction manual must be provided to the new owner/user of the product.

⚠️ DANGER!

Keep packaging materials (plastic bags, rubber bands, etc.) away from children! There is a **DANGER OF CHOKING!**

Never look through this device directly at or near the sun. There is a risk of **BLINDING YOURSELF!**

Do not allow children to play with unit.

Do not expose the device to high temperatures. Use only the recommended batteries. Do not short-circuit the device or batteries or dispose of in fire! Excessive heat and improper handling can cause short circuits, fires and even explosions! Do not expose this device - especially the lenses - to direct sunlight! Focusing of sunlight could cause fires.

⚠️ DANGER OF AN ELECTRIC SHOCK!

This unit contains electronic parts that are powered by a power source (AC adapter or batteries). Never leave children unattended whilst handling the device! Only use the device as described in the manual. Otherwise, you run the **DANGER of an ELECTRIC SHOCK.**

⚠️ RISK OF BURNS!

Leaking battery acid can lead to chemical burns. Avoid contact of battery acid with skin, eyes and mucous membranes. In the event of contact with acid, rinse the affected region immediately with plenty of water and seek for medical attention.

NOTE!

• Do not disassemble.

• All electronic operation should strictly comply with electrical safety codes, fire codes, and other pertinent codes in your area.

• Do not drop the device or expose it to strong mechanical shocks or large electromagnetic radiation.

• Do not clean the device with detergent but use a slightly damp cloth to clean the lens.

• If necessary, clean the lens with a slightly damp eyeglass cleaning cloth and do not use physical pressure. The protective surface could be damaged by this.

• Do not expose the device to direct sunlight or similar strong heat sources. Otherwise, blooming or smear effects may occur and at the same time the service life of the sensor will be impaired. The sun can burn into the sensor and cause irreparable sensor damage.

• The optics can be twisted out of the socket if turned excessively. Please turn the optics only so far in both directions until you have optimized the focus of the device.

PRIVACY PROTECTION!

This device is intended for home use. Respect the privacy of your fellow human beings - do not look into private property with this device!

⚠️ **WARNING:**

Cancer and Reproductive Harm – www.P65Warnings.ca.gov.

⚠ DANGER

CLASS 3R LASER PRODUCT INVISIBLE LASER RADIATION AVOID DIRECT EYE EXPOSURE

This product complies with IEC 60825-1 : 2014 Ed. 3 and complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007. Pp < 25W, λ= 905 nm, tp = 200 ns

SAFETY AND PRECAUTIONS

Do not stare into beam or view directly without laser eye protection. Staring continuously into beam for prolonged periods of time could cause harm to your eyes. If used properly, this device is safe for your eyes and laser eye protection is not needed. Do not activate device while aiming at someone's face or looking into objective lens.

CLASS 3R LASER PRODUCT INVISIBLE LASER RADIATION AVOID DIRECT EYE EXPOSURE
This product complies with IEC 60825-1 : 2014 Ed. 3 and complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007. P p < 25W, λ = 905 nm, tp = 200 ns
Alpen Optics 1010 South 48th Street, Springdale, Arkansas 72762

CAUTION: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser radiation exposure.

━ WARRANTY & SERVICE

ONE (1) YEAR LIMITED WARRANTY
ALPEN OPTICS warranties our products to be free from defects in materials and workmanship for a specified period based on product type. ALPEN OPTICS will repair or replace such product or part thereof that upon inspection by ALPEN OPTICS, is found to be defective in materials or workmanship. As a condition to the obligation of ALPEN OPTICS to repair or replace such product, the product must be returned to ALPEN OPTICS together with proof-of-purchase and product registration satisfactory to ALPEN OPTICS.

Limited Warranty is in the USA, USA territories and Canada. For full warranty protection, the product must be registered within 60 days of purchase.

You can scan the QR code to consult the full guarantee terms as well as information on extending the guarantee period and details of our services.

(USA) www.alpenoptics.com/pages/warranty

PARTS OVERVIEW:

⚠️ **IMPORTANT:**
This device has an IPX4 water resistance rating, which means it is protected from minor splashes coming from any direction. **DO NOT SUBMERGED UNDER WATER.**
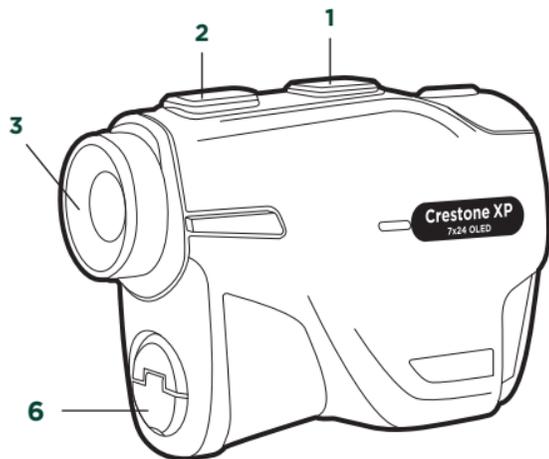
1. Mode Button
2. Measure Range Button
3. Eyepiece/Diopter Focus Adjustment
4. Objective Lens
5. Laser Rangefinder Modules
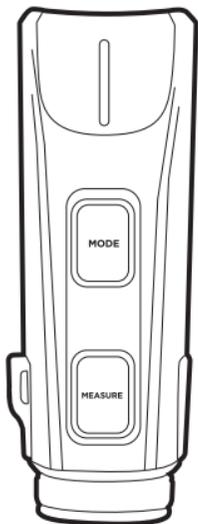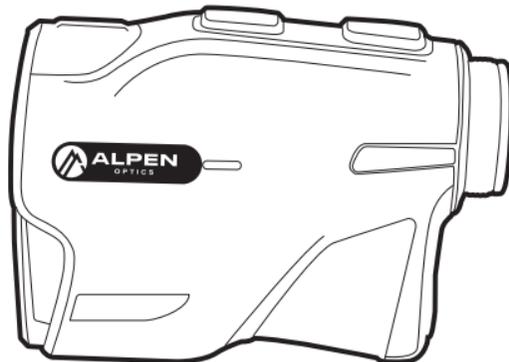6. Battery Compartment
7. Lanyard Loop

1.5in / 38mm

Crestone XP
7x24 OLED

3in / 76mm

4.1875in / 106mm

MODE

MEASURE

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━ KEY FEATURES

- OLED projected red readout with adjustable brightness
- Compact and contoured design for best hand fit and grip
- 7x magnification with a 24mm objective lens
- Hard target measurement up to 2000 yards (1828 meters)
- Soft target measurement up to 700 yards (640 meters)
- Reticle can be dimmed / brightened to 6 different levels for low light and bright conditions
- Choose between yards or meters
- Water-resistant IPX4 rating
- Multi-coated lens
- Comes with soft pouch

Outdoor sports enthusiasts can get the precise measurements they need to connect with their target with the Alpen 7x24 OLED Rangefinder. This compact device, which has an easy-to-grip dual-barrel design, quickly and accurately measures distances up to 2000 yards for hard targets and 700 yards for soft targets. The measurements, which can be given in yards or meters, are shown on an OLED display with a red readout and adjustable brightness.

— SET UP

Installing Battery
Remove the battery cap by turning the cap in a counter-clockwise direction. Insert (1) CR2 lithium battery (-) terminal side first. The (+) terminal should be facing out, **Fig.1**. Place the cap onto the (+) battery terminal and reinstall the battery cap by turning the cap in the clockwise direction.

**CAUTION - Be careful to not cross-thread the cap or overtighten.**

Fig. 1

(-)

(+)

Fig. 2

+

-
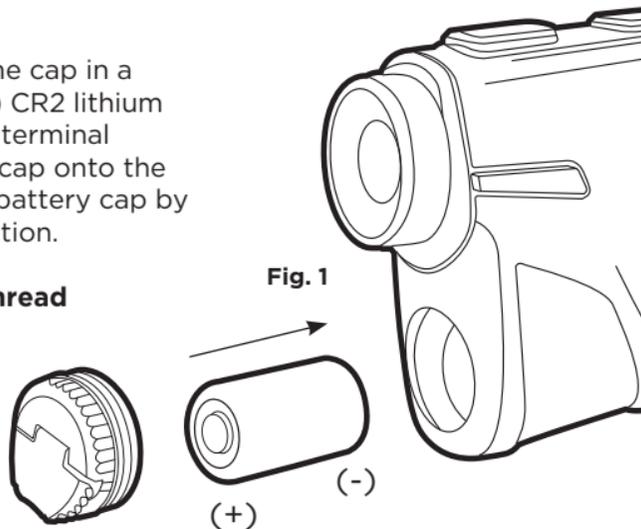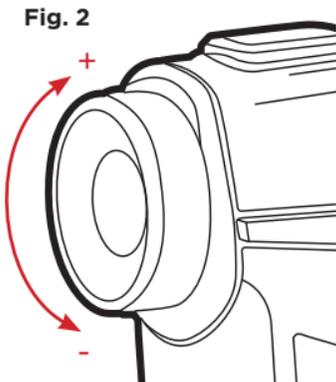
Diopter Adjustment
The diopter adjustment is used to bring the OLED display into sharp focus along with the target image. The diopter adjustment can turn clockwise (+) or counter-clockwise (-) from the eyecup and adjusted depending upon the user's prescription, **Fig.2**.

OLED DISPLAY INFORMATION

A. Degrees Display
B. Circle Center Reticle
C. Range Display
D. Meters and Yards Unit
E. Battery Status
F. Brightness Display 0-6
G. Horizontal Component Distance Mode (HCD)
H. Line of Sight Mode (LOS)
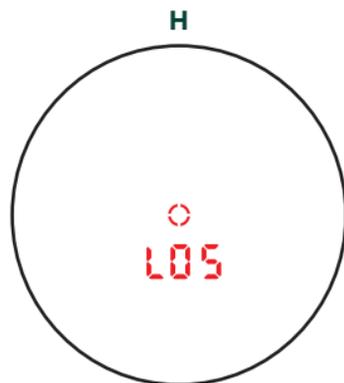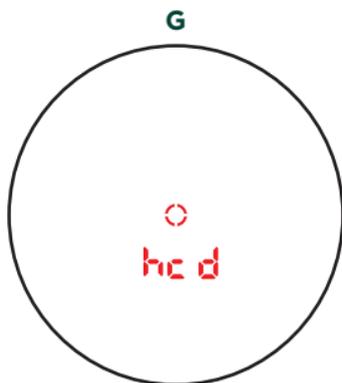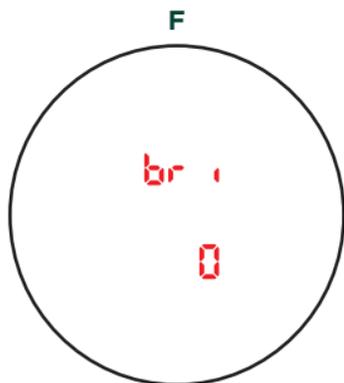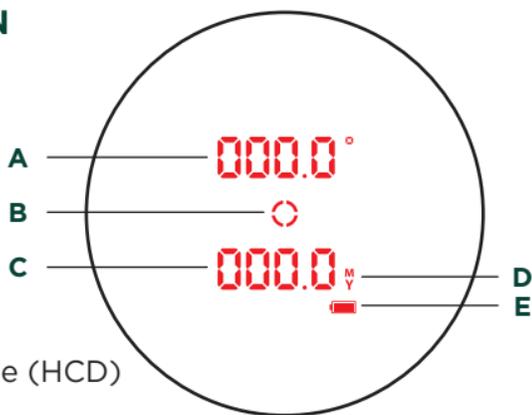
➖ OLED DISPLAY INFORMATION

When the **MEASURE** button is pressed, the OLED display will power on and show the circle center reticle, unit of measure (Y or M), LOS angle degree or HCD measurement, and battery status. The display will remain active for up to 10 seconds.

The first press will power on and display the scan mode and unit of measure. Second press will start scanning. If you press and hold the **MEASURE** button, you will noticed a blinking "**S**" and it will continuously scan objects until the button is released.
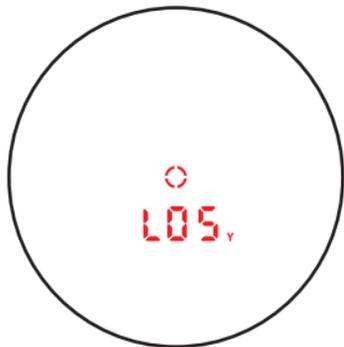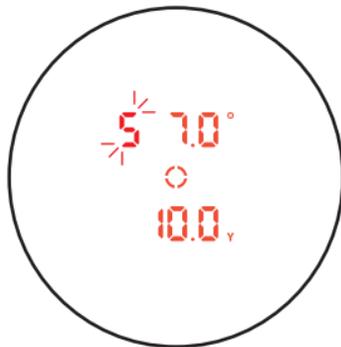
Power On Press	Second Press	Press & Hold
⊙ LOS_Y	10° ⊙ 33.0_Y	S 7.0° ⊙ 10.0_Y
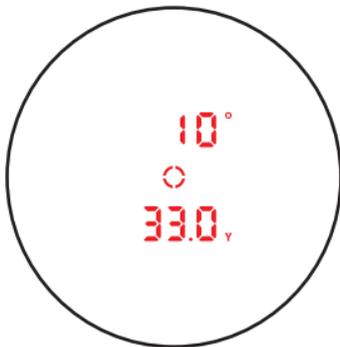
— SETTINGS

To change display settings, press the **MEASURE** button to power on and press and hold the **MODE** button for 3 seconds until you see the screen below, **Fig.3**. Depress the **MODE** button and the first setting menu will be brightness, then unit of measure, then mode conversions.
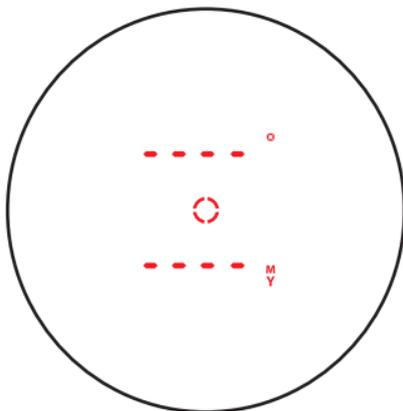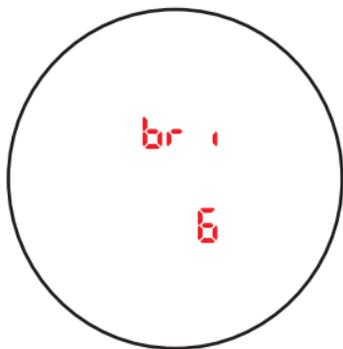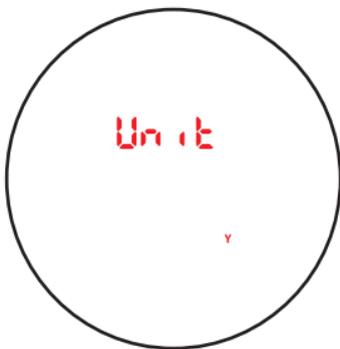
Settings Mode

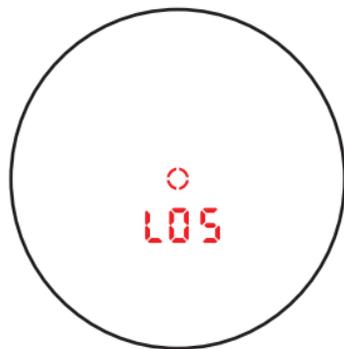**Fig. 3**

━ SETTINGS

Use the **MODE** button to change the setting menu and the **MEASURE** button to select the options.

Brightness Menu
0 - 6

Unit of Measure Menu
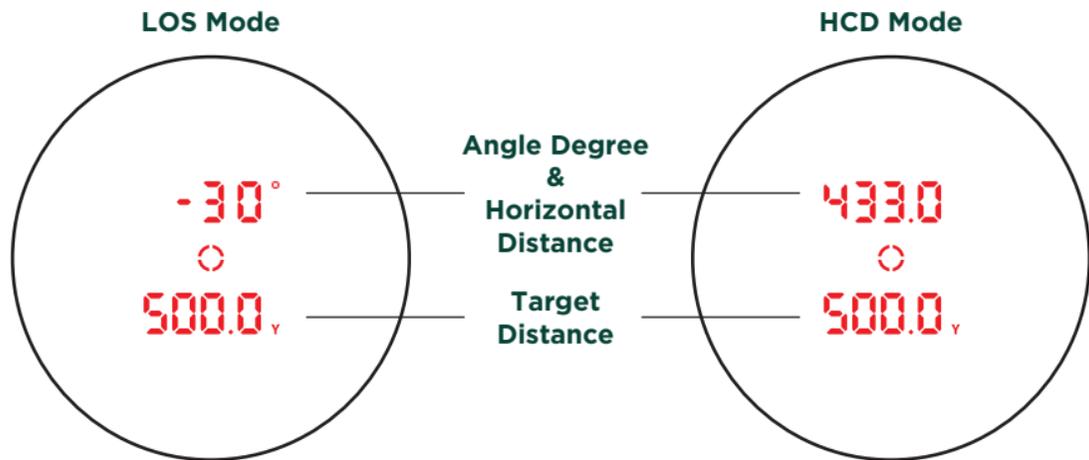Y or M

Mode Menu
LOS or HCD

Once you have the desired settings, press and hold the **MODE** button for 3 seconds until you see the power on screen again. At this point the rangefinder is ready for scanning objects.

LOS AND HCD MODES

Line of Sight Mode (LOS): In the LOS Mode, the following information is displayed: Horizontal distance to the object and the angle that the device is being held in relation to the target.

Angle Measurement: The angle of measurement between your position and any target can be displayed in the upper area of the display.

Horizontal Component Distance Mode (HCD): The HCD mode shows you the horizontal and straight distance to the target.

LOS Mode

HCD Mode

Angle Degree
&
Horizontal
Distance

Target
Distance

-30°

○

500.0ʏ

433.0

○

500.0ʏ

LOS AND HCD MODES

Line of Sight (LOS) range of 500 yards at 30° decline

30°

Horizontal Component Distance Mode (HCD) is 433 yards
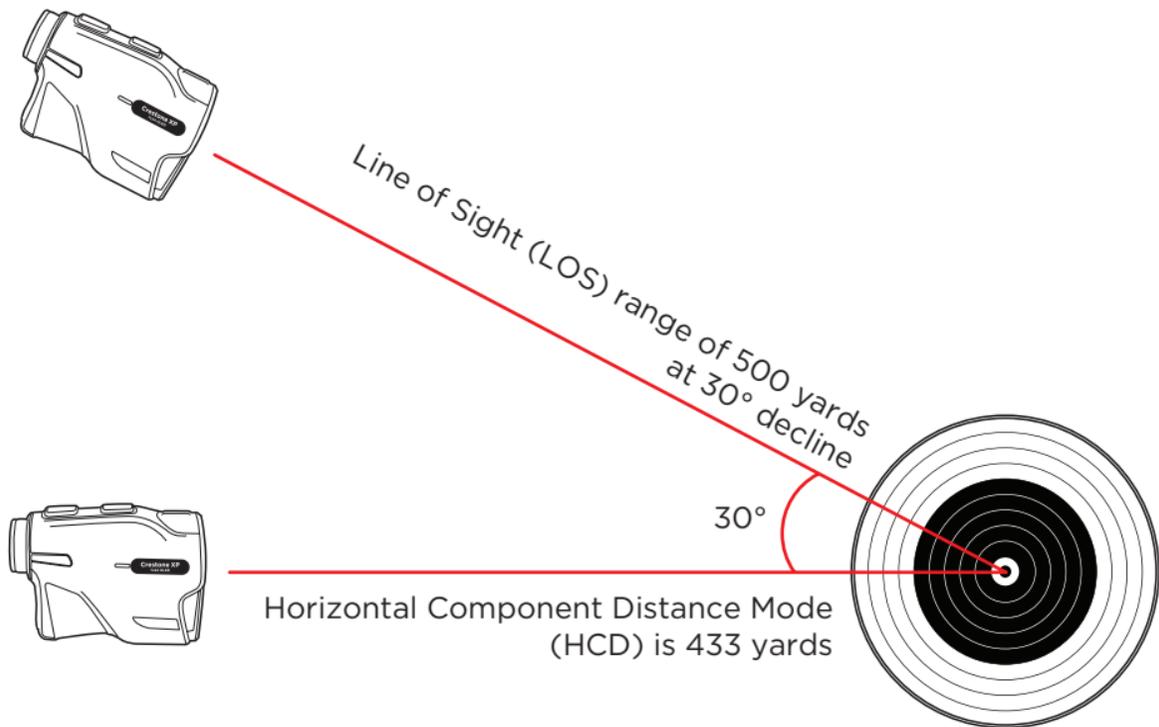
Example: A LOS range of 500 yards at a 30° decline equals to a HCD of 433 yards.

SPECIFICATIONS

Magnification	7x
Objective Diameter	24mm
Transmission Diameter	18mm
Field of View	6.6°
Eye Relief	14mm
Exit Pupil	3.4mm
Diopter Focus	-3.0 ~ +3.0dpt
Lens Coating	Multi-Coated
Waterproof	IPX4 Water-resistant
Auto-Off	10 seconds
Units of Measure	Yards & Meters
Distance Range Min.	5m/6yds
Distance Range Max.	1828m/2000yds
Range Reflective Target	up to 1828m/2000yds
Range Building Target	up to 1280m/1400yds
Range Tree Target	up to 914m/1000yds
Range Deer Target	up to 640m/700yds

SPECIFICATIONS

Range Response Time	<1.5 seconds
Range Accuracy < 100yds	± 1yds
Range Accuracy 100yds - 1000yds	± 2yds
Range Accuracy > 1000yds	± 3yds
Inclinometer Max	± 60°
Inclinometer Accuracy within ±30°	± 1°
Inclinometer Accuracy between ±30° - ±60°	± 2°
Battery Type	(1) CR2
Display Type	Red OLED
Laser Type	Class 3R
Operating Temperature Range	14°F - 122°F (-10°C - 50°C)
Storage Temperature Range	-4°F - 149°F (-20°C - 65°C)

— CLEANING & STORAGE

Blow away any dust or debris on the lens (or use a soft lens brush).

To remove fingerprints or other smears, clean with a soft cotton cloth rubbing in a circular motion. A "microfiber" cleaning cloth (available from camera or computer retailers) is ideal for the routine cleaning of your optics.

For a more thorough cleaning, photographic lens tissue and photographic-type lens cleaning fluid or isopropyl alcohol may be used. Always apply the fluid to the cleaning cloth – never directly on the lens.

For extended periods of storage, store in a cool and dry environment to avoid any damage to the device.

NOTES

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