



# **IMPACT<sup>®</sup>**

**LASER RANGEFINDER 1000**



**PRODUCT MANUAL**

## IMPACT® 1000 SPECIFICATIONS

MIN. RANGE	DEER RANGE	TREE RANGE	REFLECTIVE RANGE
5 yd. (5 m)	Up to 500 yd. 457 m)	Up to 800 yd. (731 m)	Up to 1000 yd. (914 m)

Accuracy: + /- 1 yards @ 100 yards

Maximum Angle Reading: +/- 60 degrees

Measuring Time: < 1 second

Battery Life: ~5000 single range measurements

Operating Temperature: 14° to 131°F (-10° to 55°C)

Storage Temperature: -4° to 149°F (-20°C to 65°C)

Magnification: 6x

Objective Lens: 20 mm

Eye Relief: 15 mm

Diopter: +/- 3

Battery: CR2

## IMPACT<sup>®</sup> 1000 LASER RANGEFINDER

The Impact<sup>®</sup> 1000 is an extremely effective angle-compensated laser rangefinder for archers and rifle shooters. Using the primary HCD (Horizontal Component Distance) mode, it provides key angle compensated range information required by the vast majority of shooters in a simple, quick to read display.

The Impact<sup>®</sup> 1000 also provides LOS (Line of Sight) mode and Scan feature along with adjustments for reading in yards or meters.



Images are for representation only. Product may vary slightly from what is shown.



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## BASIC OPERATION

### Install Battery

Open the battery compartment and install the CR2 battery included with the Impact<sup>®</sup> 1000. Once installed, reinstall the battery compartment cover and ensure it is tightly closed.

### Power Up

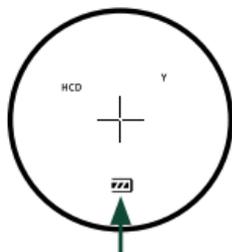
Once you install the battery, the Impact<sup>®</sup> 1000 is in Ready Condition—the normal power-off condition when not ranging. To power up the Impact<sup>®</sup> 1000 from Ready Condition and prepare for ranging, press and release the Measure button. The HCD or LOS ranging screen will display. The Impact<sup>®</sup> 1000 will power down automatically after ten seconds of non-use.



Remove battery compartment cover.



Install battery with positive side facing outwards.



Battery Power Indicator

## Focus

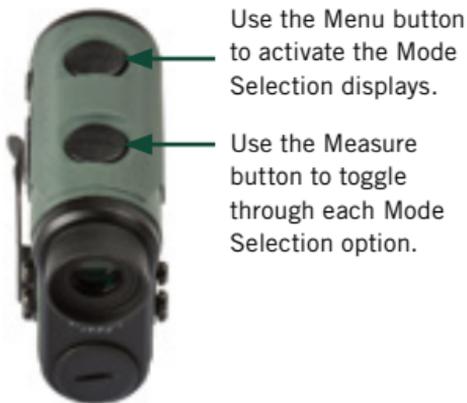
Turn the eyecup in or out until image is sharp.

## MODE SELECTION

Your Impact® 1000 is factory set to the angle compensating HCD mode and yards.

**To change modes:** After the Impact® 1000 is powered up, activate the Mode Selection by pressing and holding the Menu button for at least four seconds.

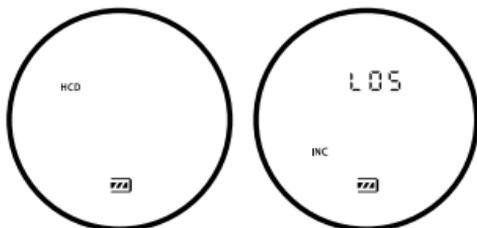
As you progress through Mode Selection, you may exit at any time and save your settings by pressing and holding the Menu button for at least four seconds—the Impact® 1000 will then return to power-up condition.



## SET AND SAVE MODE SELECTIONS

### 1. Choose between the HCD and LOS Modes.

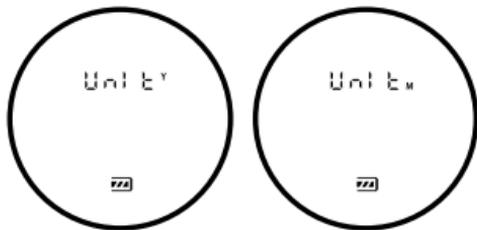
After activating the Mode Selection, press the Measure button to toggle between the HCD and LOS displays. Press the Menu button to save your desired choice and move to the Yards/Meters selection screen.



Choose Between HCD and LOS

### 2. Choose between Yards and Meters Display.

After activating the Mode Selection, press the Measure button to toggle between the Yards and Meters display. Press the Menu button to save your desired choice.

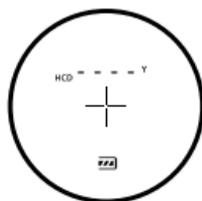


Choose Between Yards and Meters

To exit Mode Selection and save settings, press and hold the Menu button for four seconds. Settings will also save when the Impact® 1000 powers down automatically.

## RANGING

With the Impact® 1000 powered up, position the crosshair on the target object and press and release the Measure button to get the distance measurement. If the laser is not able to range due to the reflectivity of the target, you will see a display similar to that shown here. To range a new target, simply re-aim and press the Measure button again.



No Range  
Returned

## SCAN RANGING

With the Impact® 1000 powered up, activate Scan ranging by pressing and holding the Measure button down. A blinking “S” will appear in the lower left corner.



HCD Scan

Keeping the button depressed will continuously measure distance as you pan the crosshair back and forth across target objects. Releasing the Measure button will return laser to the Power Up Condition.



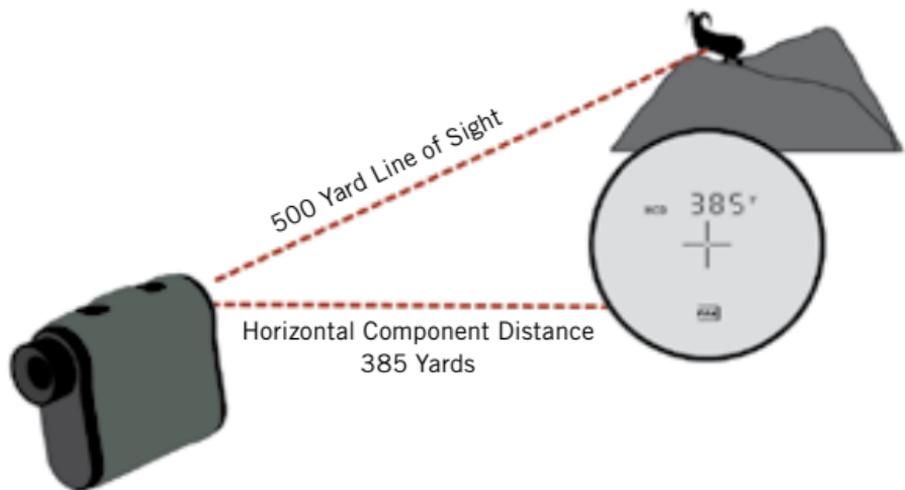
LOS Scan

## RANGING MODE EXPLANATIONS

The Impact<sup>®</sup> 1000 provides two range modes: HCD (Horizontal Component Distance) and LOS (Line of Sight). Both modes offer a Scan feature.

### HCD Mode

The Impact<sup>®</sup> 1000's HCD range display is intended to be the primary mode—used for most rifle and archery shooting conditions. The range displayed is the critical horizontal component distance.



## Using the HCD Mode

Use the HCD range mode in the following situations:

- Rifle shooting on level ground at any range.
- Rifle shooting out to ranges of 800 yards with mild slopes (less than 15 degrees).
- Rifle shooting out to ranges of 400 yards with moderate slopes (15 to 30 degrees).
- For all archery shooting.

**Note:** See page 12 for method of reading slope degree in LOS mode.

The displayed HCD range is corrected for shot angle and needs no extra user input; shooters simply use the appropriate level ground bullet drop and wind adjustment for the range displayed and shoot. Archers use the appropriate level ground sight pin for the range displayed and shoot.



Use 525 yard level ground drop data to make shot.

## LOS Mode

The Impact<sup>®</sup> 1000's LOS (Line of Sight) mode is intended for rifle shooters who are using slope correcting ballistic drop data cards, ballistic cell phone applications, or other ballistic programs and who are shooting at distances beyond 500 yards and with slopes greater than 15 degrees. Most shooters and archers will not need the LOS mode.

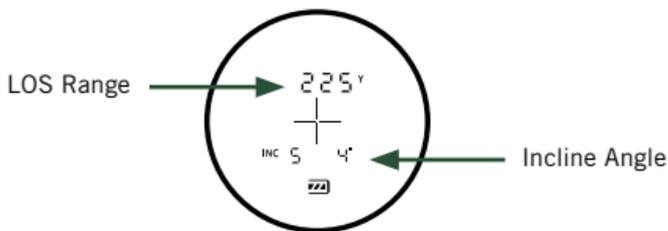
The range number displayed in LOS mode is the actual line of sight range with no ballistic correction for slope. Most of the commonly used ballistic devices can provide independent slope correction for bullet drop data and require actual line of sight range input. Using the LOS range when calculating bullet wind drifts under these steep slope/long range conditions will provide a higher degree of accuracy than using the HCD range.

To use, simply input the LOS range number into the electronic device or use the LOS range when referencing ballistic drop cards with slope correction.

## LOS Mode – Incline

When in LOS mode, an additional number is displayed below the range. This number is slope shown in degrees.

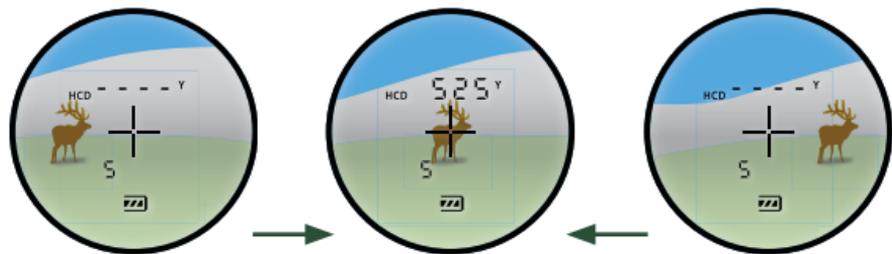
The slope incline number can be used with drop charts or field cards to calculate precise bullet drops in mountainous terrain.



## SCAN FEATURE

The Scan feature can be used to range moving targets or help range smaller targets on uniform backgrounds in either HCD or LOS modes. Once powered up, press and hold the Measure button and scan the laser back and forth, watching for changes in the range as the crosshairs move across the target object. A blinking “S” display indicates Scan Ranging is activated.

### Scanning to get range:



Scan back and forth, watching for range to display or change.

## LANYARD



The lanyard provides a secure way to carry your rangefinder.

Loop lanyard through attachment sockets.

## MAINTENANCE

- Use a lens brush to remove dust or grit from lenses.
- Use a clean lens cloth or tissue to remove smudges or smears from lenses.
- Store rangefinder in a dry location away from direct sunlight.

## RANGEFINDING TIPS

Laser rangefinders work by emitting a brief pulse of light aimed at a target object. Distance is determined by the amount of time taken for the light to emit and return to the laser's internal receiver. A laser's ability to read range can be affected by many things—mostly relating to the target objects. Under ideal conditions, the Impact® 1000 yards and deer-sized game out to 500 yards.

## RANGEFINDING TIPS

- Light colors will usually reflect better than dark ones.
- Be aware that snow, rain, and fog will have adverse effects on ranging ability.
- Shiny, reflective surfaces will usually reflect better than dull, textured surfaces. Animal hair will not reflect as well as a hard surface.
- Ranging under cloud cover can improve laser performance compared to bright sunny conditions.
- Solid objects, such as a rock, will reflect better than bushes.
- Flat surfaces perpendicular to the laser pulse will reflect better than curved surfaces or surfaces angled in relation to laser pulse.
- Ranging over water can sometimes cause false reflections and readings.
- At longer distances, large objects will be easier to range than small objects.
- If you are having difficulty ranging an animal or object, try ranging a different nearby object, or use the Scan feature to pan back and forth while watching for changes in range number.

## **FCC REQUIREMENTS**

The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

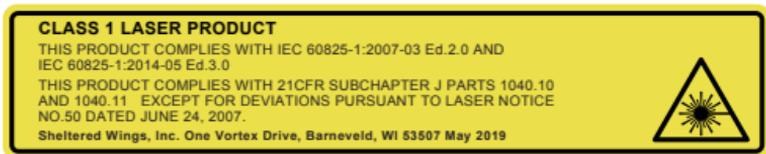
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## 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.

- Use the correct battery (CR2) and proper battery orientation.
- Do not look at sun.
- Do not activate Menu or Measure buttons while aiming at eye or looking into objective lens.
- Do not disassemble.
- Do not allow children to play with unit.



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





## **VIP WARRANTY**

**OUR UNCONDITIONAL PROMISE TO YOU.**

We promise to repair or replace  
the product. Absolutely free.

- ▶ **Unlimited**
- ▶ **Unconditional**
- ▶ **Lifetime Warranty**

Learn more at [www.VortexOptics.com](http://www.VortexOptics.com)

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*Note: The VIP Warranty does not cover loss, theft, deliberate damage, or cosmetic damage not affecting product performance.*





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