

YARDAGE PRO® Your YARDAGE PRO® 400 is a precision instrument designed to provide many years of enjoyment. This booklet will help you achieve optimum performance by explaining its adjustments and features as well as how to care for this fine instrument. To ensure optimal performance and longevity, please read these instructions before using your YARDAGE PRO® 400.

INTRODUCTION The YARDAGE PRO® 400 emits invisible, eyesafe, infrared energy pulses. Sophisticated circuitry and a high speed clock are used to instantaneously calculate distances, by measuring the time it takes for each pulse to travel from the rangefinder, to the target, and back.

The ranging accuracy of the YARDAGE PRO® 400 is plus or minus one yard / meter under most circumstances (see description of "Precision" indicator below). The maximum range of the instrument depends on the reflectivity of the target. The maximum distance for most objects is 400 yards / meters while for highly reflective objects the maximum is 999 yards / meters. Note: You will get both longer and shorter maximum distances depending on the reflective properties of the particular target and the environmental conditions at the time the object is being distanced to.

The color, surface finish, size and shape of the target all effect reflectivity and range. The brighter the color, the longer the range. Red is highly reflective, for example, and allows longer ranges than the color black, which is the least reflective color. A shiny finish provides more range than a dull one. A small target is more difficult to range than a larger target. The angle to the target also has an effect. Shooting to a target at a 90 degree angle (where the target surface is perpendicular to the flight path of the emitted energy pulses) provides good range while a steep angle on the other hand, provides limited ranging. In addition, lighting conditions (e.g. the amount of sunlight) will affect the ranging capabilities of the unit. The less light (e.g. overcast skies) the farther the unit's maximum range will be. Conversely, very sunny days will decrease the unit's maximum range.

OPERATIONAL SUMMARY While looking through the monocular, depress the fire button (see Figure 1) (top right hand side of unit) once to activate the inview display system (LCD). Aim the YARDAGE PRO® 400 at a target at least 21 yards away, depress and **hold the fire button down until range reading is displayed**. Release the fire button. Note: Once activated, the YARDAGE PRO® 400's LCD will remain active and display the last distance measurement for 30 seconds. You can depress the fire button again at any time to distance to a new target. As with any laser device, it is not recommended to directly view the emissions for long periods of time with magnified lenses.

FEATURES The YARDAGE PRO's sophisticated circuitry allows you to select between various units of measure and targeting modes. In addition, your YARDAGE PRO's LCD incorporates illuminated indicators that advise you

when the laser is active, what the quality level (a measure of reflectivity) of the target is, what the precision tolerances of a specific measurement are and when the battery charge is low (see Figure 2). A summary of these features is presented below:

Unit of Measure Options The YARDAGE PRO® 400 can be used to measure distances in yards or meters. The unit of measure indicators are located in the lower right portion of the LCD. To select between yards and meters look through the monocular, depress the "mode" button (see Figure 3) (lower right hand side of the unit) and hold it down for approximately 5 seconds. If you are changing from yards to meters, a change in unit of measure will be indicated by the illumination of the METER indicator while the YARD indicator is turned off. If you are changing from meters to yards, the opposite will occur. Note: The YARDAGE PRO® 400 will return to the last setting used, each time the unit is turned-on.

Targeting Modes

STANDARD (LCD Indicator - none) - This setting allows most targets to be distanced up to 400 yards. Used for moderately reflective targets that are typical of most distancing situations.

SCAN (LCD Indicator - "SCAN") - This mode allows the range to be continuously updated for 10 seconds when the fire button remains depressed. It can be used to scan an area containing several objects or a single object that is moving. Note: Objects further away require a slower scanning pace than objects at a closer distance. The minimum distance in this mode is the same as in the standard mode.

Illuminating Indicators

ACTIVE LASER (LCD Indicator - "LASER") - Located in the upper left portion of LCD. When illuminated, indicates that energy pulses are being emitted from unit.

TARGET QUALITY GAUGE (LCD Indicator - "TARGET QUALITY") - Located in the upper middle portion of LCD. Gauge indicating amount of energy pulses being received back from the target. Gauge is calibrated to fill squares from left to right. The higher the number of returning energy pulses, the greater the number of squares that will fill with illumination. This gauge can be used to scan across a target that is difficult to acquire to find the most reflective point for ranging (see Trouble Shooting Table).

PRECISION PARAMETER INDICATOR (LCD Indicator - "PRECISION") - When illuminated, indicates the distance measurement is within plus or minus 1 yard or meter. If it is not illuminated after obtaining a measurement, the distance measurement is within plus or minus 3 yards or meters.

LOW BATTERY CHARGE (LCD Indicator - "BATT") - When illuminated, indicates the battery charge is low and battery should be replaced.

Roll Down Eyecup The YARDAGE PRO's monocular is equipped with a rubber eyecup designed for your comfort and to exclude extraneous external light. If you wear sun / eyeglasses, roll down the eyecup. This will bring your eye closer to the ocular lens, thus providing improved field of view.

SPECIFICATIONS:

Optical Design The YARDAGE PRO® 400 features a Perma Focus® monocular optical system for viewing your target. A liquid crystal display (LCD) is mounted within the optical system and when activated, displays a reticle for targeting, yard / meter and mode designations, a target quality gauge, as well as precision and low battery indicators. Inherent in the manufacturing process are small black spots that appear in the optical system. These are a natural characteristic of the LCD, cannot be fully eliminated in the manufacturing process and do not affect the distancing performance of the unit.

Magnification.....5x Field of View.....5.7°
Eye Relief.....25 mm Exit Pupil.....4.2mm

Power Source The YARDAGE PRO® 400 is powered by one 9-volt alkaline battery. (Use only high quality alkaline batteries. Do not use heavy duty or lithium batteries).

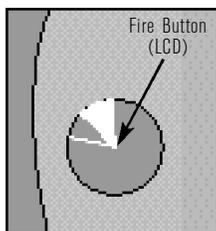


Figure 1



Figure 2

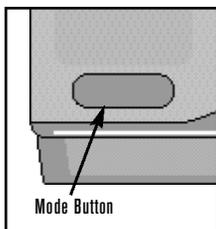


Figure 3

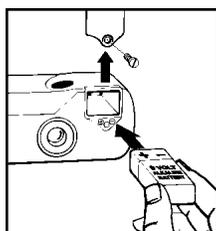


Figure 4

CLEANING Gently blow away any dust or debris on the lenses (or use a soft lens brush). To remove dirt or fingerprints, clean with a soft cotton cloth, rubbing in a circular motion. Use of a coarse cloth or unnecessary rubbing may scratch the lens surface and eventually cause permanent damage. 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.

TROUBLE SHOOTING TABLE

Unit does not turn on - LCD does not illuminate or LCD contrast has decreased:

- Depress fire button (top right hand side of unit).
- Check and if necessary, replace battery.

There is no reset button to clear last range reading before ranging another target:

- The last range reading does not need to be cleared before ranging another target. Simply aim at the new target using the LCD's reticle, depress the fire button and hold until new range reading is displayed.

There are black spots in the optical system:

- These are a natural characteristic of the LCD and can not be fully eliminated in the manufacturing process.

Target range cannot be obtained:

- Make sure LCD is illuminated.
- Make sure that the fire button is being depressed (as opposed to mode button).
- Make sure that nothing, such as your hand or finger, is blocking the objective lenses (lenses closest to the target) that emit and receive the laser pulses.
- Make sure unit is held steady while depressing fire button.
- A less reflective target will require you to scan its surface to find the most reflective point in order to obtain a distance. To do this, hold the fire button and scan LCD reticle across the target's surface to try and register a "hit" on the target quality meter. When the target quality gauge registers a hit (indicated when the first square illuminates), stabilize the unit in place and hold the fire button until a range reading is displayed.

For further assistance, please contact a customer service representative at 800-423-3537.

WARRANTY / REPAIR

One-Year LIMITED WARRANTY

Your Bushnell® Laser Rangefinder is warranted to be free of defects in materials and workmanship for one year after the date of purchase. In the event of a defect under this warranty, we will, at our option, repair or replace the product, provided that you return the product postage prepaid. This warranty does not cover damages caused by misuse or improper handling, installation or maintenance of the product.

Any return made under this warranty must be accompanied by the items listed below:

- 1) A check in the amount of \$15.00 to cover the cost of handling
- 2) Name and address for product return
- 3) An explanation of the defect
- 4) Product should be well packed in a sturdy outside shipping carton to prevent damage in transit and return postage prepaid to the address listed below:

IN U.S.A. Send To:

Bushnell Performance Optics
8500 Marshall Drive
Lenexa, Kansas 66214

IN CANADA Send To:

Bushnell Performance Optics
25A East Pearce Street, Unit 1
Richmond Hill, Ontario L4B 2M9

For products purchased outside the United States and Canada please contact your local dealer for applicable warranty information. This warranty gives you specific legal rights. You may have other rights which vary from country to country.

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