VORTEX

FURY® HD 5000 AB

LASER RANGEFINDING BINOCULAR

PRODUCT MANUAL

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

FURY® HD 5000 AB
LASER RANGEFINDING BINOCULAR

The Fury® HD 5000 AB is an extremely effective angle-compensated laser rangefinding binocular intended for hunters, archers, and shooters. The primary HCD (Horizontal Component Distance) mode provides key angle compensated range information the vast majority of rifle and bow shooters require in a simple, quick-to-read display.

The Fury® HD 5000 AB also has a BAL (Ballistics) mode and Scan feature, along with adjustments for reading in yards or meters, and setting the display brightness.

The Fury® HD 5000 AB comes equipped with on-board compass, humidity, barometric pressure, and temperature sensors.

BASIC OPERATION

Adjust the Eyecups

The eyecups on a Fury® HD 5000 AB twist up and down so any viewer can see the full field and enjoy comfortable viewing—with or without eyeglasses.

When not using eyeglasses or sunglasses, keep the eyecups fully extended. For best viewing when wearing eyeglasses, twist eyecups down.

Adjust the Interpupillary Distance

The interpupillary distance (IPD) is the distance between the centers of the left and right eye pupils. Match the binocular's IPD to that of your eyes so you see a single image free of shading. Rotate the binocular barrels inward or outward to line your eyes up with ocular lenses.

Install Battery

Open the battery compartment and install the CR2 battery included with the Fury® HD 5000 AB.

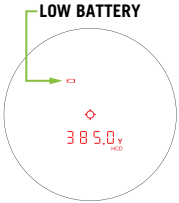
Install battery with positive side facing in.

Power Up

To power up the Fury® HD 5000 AB, and prepare for ranging, press and release the "Measure" button. The HCD or BAL ranging screen will display. The unit will power down automatically after 15 seconds of non-use. The auto shutoff feature can be adjusted to 30, 60, or 180 seconds. See the "Sleep Time" section on page 9.

Low Battery Icon

The low battery icon comes on at 25% and stays on until there is no power or the battery is replaced.



Properly Focus the Binocular

For the best views, follow this process to properly set the display, center focus, and diopter. Choose an object that is about 20 yards away from you and stay in the same spot until you have adjusted the binocular for your eyes.

1. Begin by pressing the "Measure" button once to turn on the display. Close your left eye or cover the left objective lens with your hand, and use the reticle focus ring to bring the digital display into focus.
2. With your left eye still closed, or the left objective lens still covered, adjust the center focus ring to bring the scene into focus.

Adjust Diopter Setting

3. Next, close your right eye or cover the right objective lens with your hand. Adjust the diopter focus ring until the scene is in focus. From this point on, you will only need to use the center focus wheel.

   NOTE: It can be beneficial to put a small mark on the binocular housing in line with the diopter reference line. Use this as a quick reference to ensure the diopter ring is not accidentally adjusted.

Mode Selection

Your Fury® HD 5000 AB is factory set to the angle compensating HCD ranging mode, best target mode, yards, and maximum brightness. For most users, these are the preferred settings.

To change modes: Press and release the "Measure" button to power on and then press and hold the "Menu" button for at least two seconds. Once the Mode Selection screen displays, release the button.

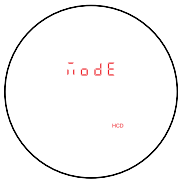
As you progress through Mode Selection, you may exit at any time and save your settings by pressing and holding the "Menu" button for at least four seconds—the unit will return to power-up condition.

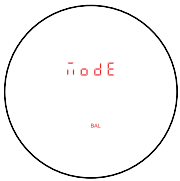
SET AND SAVE MODE SELECTIONS

Ranging Mode Selection

Choose Between the HCD and BAL Modes.

After activating the Mode Selection, press the “Measure” button to toggle between the HCD and BAL displays. Press the “Menu” button to save your desired choice and continue through the other options.

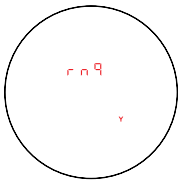


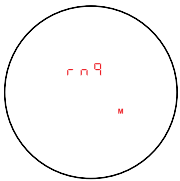


Range Selection

Choose Between Yards and Meters Display.

Press the “Measure” button to toggle between the Yards and Meters display. Press the “Menu” button to save your desired choice and move to the Brightness selection screen.

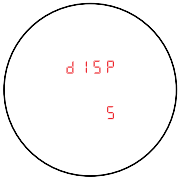




Brightness Selection

Choose Between Five Brightness Settings.

The Fury® HD 5000 AB provides five illumination settings, plus an automatic brightness setting. The automatic brightness setting will automatically adjust the display brightness to suit the ambient brightness. Press the “Measure” button to toggle through the Brightness settings. Press the “Menu” button to save your desired setting and move to the target mode selection.



Target Mode Selection

Target Mode Explanations

The Fury® HD 5000 AB provides two target modes: Best Mode and Last Mode.

Best Mode

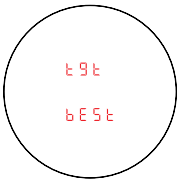
Your Fury® HD 5000 AB comes preset to Best target mode. This is the standard mode providing the target’s range with the strongest range result. Best Mode is the recommended target mode for most situations.

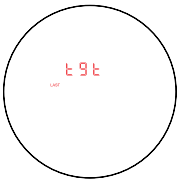
Last Mode

Looks for the farthest distance when panning and scanning. This mode is ideal for ranging a specific target behind a group of objects like brush, trees, rocks, etc.

Setting Target Modes

Press the “Measure” button to toggle between the Best and Last displays. Press the “Menu” button to save your desired choice and move back to the HCD/BAL selection screen.

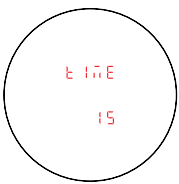




To exit Mode Selection and save settings, press and hold the “Menu” button for four seconds. Settings will also save when the unit powers down automatically.

Sleep Time

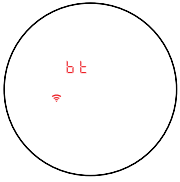
There are four options to program the Fury® HD 5000 AB display to auto-shut off. 15 seconds, 30 seconds, 60 seconds, or 180 seconds. Navigate to the Time display in the menu, and press the “Measure” button to select the auto-shut off time.



Bluetooth® Selection

ONLY AVAILABLE IN BAL MODE

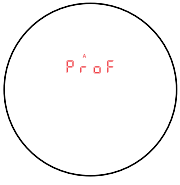
The Fury® HD 5000 AB is equipped with a Bluetooth® chip to allow the unit to wirelessly pair with Kestrel® wind meters and Garmin® Foretrex® GPS devices. Navigate to the BT display in the menu and press the “Measure” button to turn Bluetooth® on/off.



Profile Selection

ONLY AVAILABLE IN BAL MODE

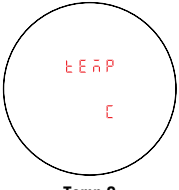
This mode option is only active when in BAL mode. Select the ballistic profile for the wind/drop solution to be displayed when in BAL mode. See the Ballistics Manual for Ballistic Profiles information, and how to set up and select ballistic profiles.



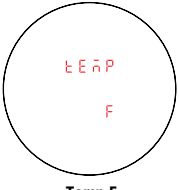
Temperature Selection

ONLY AVAILABLE IN BAL MODE

This mode option is only active when in BAL mode. The temperature can be displayed in Celsius (C) or Fahrenheit (F). Navigate to the Temperature display in the menu and press the “Measure” button to select “C” or “F.”



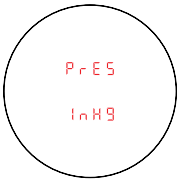
Temp C



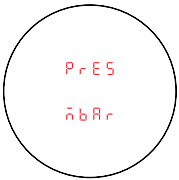
Temp F

Pressure Selection ONLY AVAILABLE IN BAL MODE

This mode option is only active when in BAL mode. Select if barometric pressure is displayed in inches of mercury (inHg) or millibars (Mbar). Navigate to the Pressure display in the menu, and press the “Measure” button to select inHg or Mbar.



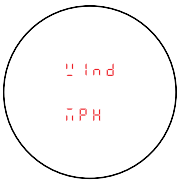
Pressure inHg



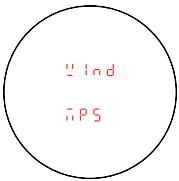
Pressure Mbar

Wind Speed Selection ONLY AVAILABLE IN BAL MODE

This mode option is only active when in BAL mode. Wind speed can be displayed in miles per hour (MPH) or meters per second (MPS). Navigate to the Wind display in the menu and press the “Measure” button to select MPH or MPS.



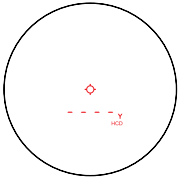
Wind MPH



Wind MPS

RANGING

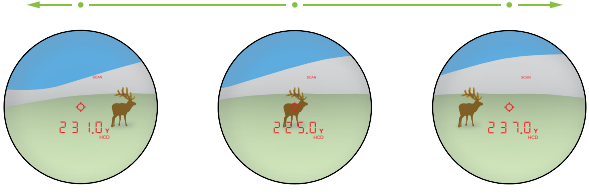
With the Fury® HD 5000 AB powered up, position the reticle on the target object and press and release the “Measure” button to get the distance measurement. If the laser is not able to range due to the reflectivity of the target, you will see a display similar to that shown here. To range a new target, simply re-aim and press the “Measure” button again.



No Range Returned

Scan Ranging

Activate Scan Ranging by pressing and holding the “Measure” button. Keeping the button depressed will continuously measure distance as you pan back and forth across target objects. The aiming circle will blink as you pan. Releasing the “Measure” button will return laser to the Power Up Condition.



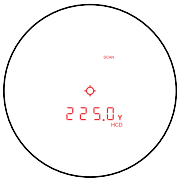
Scan back and forth, watching for yardage number to display or change.

SETTINGS

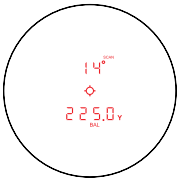
The Fury® settings can be changed either in the binocular or in the Fury HD app. When in the Settings menu of the Fury HD app, the binocular's ranging ability is disabled. Once the Settings menu has been exited, the ranging capability is enabled again.

Ranging Mode Explanations

The Fury® HD 5000 AB provides two range modes: HCD (Horizontal Component Distance) and BAL (Ballistics). Both modes offer a Scan feature.



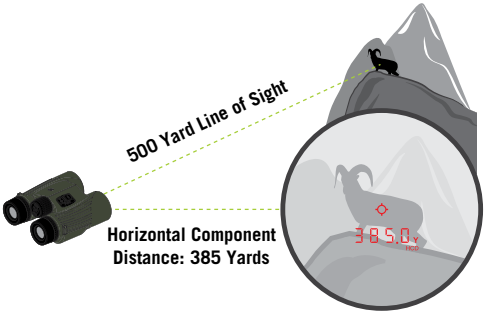
HCD Scan



BAL Scan

HCD Mode

The HCD range display is intended to be the primary mode used for most rifle and archery applications. The yardage number 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°).
- Rifle shooting out to ranges of 400 yards with moderate slopes (15° to 30°).
- For all archery shooting.

The displayed HCD yardage number 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. Archers use the appropriate level ground sight pin for the range displayed.

BAL Mode

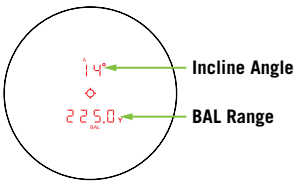
The BAL mode is intended for rifle shooters using slope correcting ballistic drop data cards, the Fury HD application, other ballistic cell phone applications, or other devices with ballistic programs and who are shooting at distances beyond 500 yards with slopes greater than 15°.

The range number displayed in BAL mode is the actual line of sight range with no ballistic correction for slope. The Fury HD app will use the actual line of sight range determined by the Fury® to provide a wind/drop solution for the shooter. Most commonly used ballistic devices can provide independent slope correction for bullet drop data and require actual line of sight range input. Using the BAL range when calculating wind drift under these steep slope/long range conditions will provide a higher degree of accuracy than using the HCD range.

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

BAL Mode - Incline

When in BAL mode, an additional number is displayed above the range number. This number is slope incline shown in degrees.



The slope incline number can be entered into ballistic programs or field cards to help calculate precise bullet drop in mountainous terrain. This number is automatically calculated into the wind/drop solution provided in the display and in the app. See Ballistics Manual for more information about the ballistic information displayed.

Scan Feature

The Scan feature can be used to range moving targets, or help range smaller targets on uniform backgrounds, and works in both ranging and target modes. Once powered up, press and hold the "Measure" button and scan back and forth, watching for changes in the yardage number as the aiming circle moves across target objects. The illuminated Scan icon display indicates Scan Ranging is activated.

Wind Modes

The Fury® HD 5000 AB is equipped with two Wind Modes: Full Cross Wind Mode, and Vortex® patent pending Wind Bearing Capture mode. See the Ballistics Manual for information about the Wind Bearing Capture feature for more information about the Wind Modes.

Tripod Use for Ranging

Using a tripod to steady the Fury® HD 5000 AB will greatly increase your ability to range small targets at longer distances. To use on a tripod, you will need to use a binocular tripod adapter. The reticle may appear tilted depending on tripod level.

Rangefinding Tips

Rangefinding binoculars 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.

- Light colors will usually reflect better than dark ones.
- 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.

ACCESSORIES

Carry Case

The protective case provides safe storage between viewing sessions.

Lens Covers

A rainguard for the ocular lenses and tethered objective lens covers is included. Use these covers to protect the lenses when not in use.

Neckstrap

Attach the padded neckstrap in three simple steps.

1. Push a few inches of the strap through the strap attachment on the binocular.

2. Hold the buckle and thread the end of the strap through the buckle.

3. Adjust the overall length, then pull tight until strap is secured within the buckle.

NOTE: If using another type of strap, never attach metal o-rings directly onto the strap attachment.

Lens Care

Maintain the optical brilliance of your binocular by keeping lens surfaces free of dirt, oils, and dust.

Protect Lenses While Out in the Field

Make use of the provided eyepiece and tethered objective lens covers to protect the lenses when not viewing. If the optics are exposed to moisture, keep the caps off and allow the optics to dry out completely before putting them in the case for storage.

Keep Lenses Clean

In order to enjoy the best views through your binocular, take time to regularly clean the exterior lenses:

1. **Remove any dust or grit from lenses before wiping.** Use a can of pressurized air, soft camel hair brush, or an acrylic optical brush.
2. **Clear lenses of smudges, fingerprints, or eyelash oil.** Fog the lenses with your own breath, then use a non-abrasive lens cloth to clean the lenses.

   NOTE: Use lens cleaning fluid and optical paper to clean lenses. Never use facial tissue, heavy cotton, or flannel clothing on lenses—these materials can scratch the lens surface.

CAUTION: Binoculars are not intended for looking at the sun, or any other intense light source. Such viewing could damage the retina and cornea of your eyes—even to the point of causing blindness.

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.

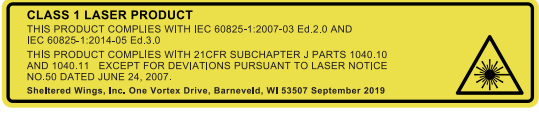
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate 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 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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