Bushnell FX1042AD Fusion X Range Finding Binocular Fusion Owner's Manual

Bushnell

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Thank you for purchasing your new Bushnell® Fusion™ X Ranging Binoculars.

This manual will help you optimize your viewing experience by explaining how you can adjust the ranging binocular to your eyes and care for this instrument. Read the instructions carefully before using your ranging binoculars.

⚠ **DANGER**: NEVER LOOK DIRECTLY AT THE SUN WITH YOUR RANGING BINO, AS IT MAY CAUSE SERIOUS DAMAGE TO YOUR EYES

INTRODUCTION

Your Bushnell® Fusion™ X is a premium laser-ranging binocular with the latest digital technology, providing precise range readings from 5-1800 yards/5-1646 meters. Measuring 7.1in x 5.4in x 2.3in, the 35oz Fusion™ X delivers high-speed target acquisition, with +/- 1 yard accuracy to the maximum range. The Fusion™ X ranging binocular features Bushnell's patented ARC™ (Angle Range Compensation with Ballistics Intelligence), a new Ranging Engine for faster, more consistent response and readings, an ACTIVSYNC™ LCD with higher light transmission and water-resistant (IPX4) construction along with EXO™ Barrier Coating on the optics.

***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 distance of an object is being measured. The color, surface finish, size, and shape of the target all affect reflectivity and range. The brighter the color, the longer the range. White 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 affects. 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 a good range. In contrast, a steep angle, on the other hand, provides limited ranging. Also, 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. Conversely, very sunny days will decrease the unit's maximum range.

HOW OUR DIGITAL TECHNOLOGY WORKS

The Fusion™ X laser ranging binocular emits invisible, eye-safe, infrared energy pulses. The Fusion™ X ranging binocular's FPGA results in instantaneous and accurate readings every time. Sophisticated digital technology instantaneously calculates distances by measuring the time it takes for each pulse to travel from the ranging binocular to the target and back.

EYECUP ADJUSTMENT

Your Bushnell Fusion™ X ranging binocular has eyecups (Fig. 1) that provide a comfortable view of the whole image and help to exclude extraneous light. For use without eyeglasses or sunglasses, twist up the eyecups (Fig. 2). The raised eyecups will place your eyes farther from the ranging binocular's ocular lenses at the correct eye relief distance, allowing you to see the whole field of view.

Fig. 1 Eyecup in "Down" Position
(for use with eyeglasses)

Fig. 2 Eyecup in "Up" Position
(for use without eyeglasses)

IPD (INTERPUPILLARY DISTANCE) ADJUSTMENT
The spacing between the pupils of your eyes, called “interpupillary distance,” varies from person to person. To match your ranging binoculars to your IPD or “eye to eye” width:

- Point them at a white wall or blank area of the sky. Hold the ranging binoculars and view through them as you usually would. Don’t worry about focus yet.
- Grasp each side of the ranging binocular firmly. Move the left and right sides closer together or farther apart (Fig. 3) until you see a single image with no shaded areas.

Fig. 3
Interpupillary
Distance Adjustment

NECKSTRAP ATTACHMENT

Attach the neck strap by threading the ends of the neck strap through the strap lug (Fig. 4) on each side of the ranging binocular. Then back through the plastic buckle on the strap (Fig. 5). Adjust the position of the ranging binoculars on your chest, as they hang around your neck, to your preference by changing the length of the strap section. Buckle by an equal amount on each side. Tug on the ranging binocular to make sure it is securely fastened to the strap before letting go of it. If you prefer to use an aftermarket strap with metal O-rings, use plastic zip ties to strap to the lugs rather than installing them directly on the lug. Doing this avoids damage to the finish of the ranging binocular via contact with the rings.

Fig. 4 Strap Lug

Fig. 5 Strap & Buckle

BATTERY ACTIVATION / BATTERY LIFE INDICATOR

Before first use: Remove the battery compartment cover by using a coin to rotate the cover counterclockwise. Remove and discard the red plastic disc covering the positive battery terminal, then replace the battery cover.

Note: It is recommended that the CR2 3-volt lithium battery be replaced at least once every 12 months. Please insert the negative end into the compartment.

Battery Level Indicator Icon (3):

BASIC OPERATION

- While looking through the laser ranging binocular, press and release the Power/Fire button to activate the display.
- If the display appears blurry, rotate the rubber eyecup/diopter adjustment in either direction until the display is sharp for your vision.
- Placing the aiming circle (located in the center of the display) on a target at least 10 yards away, depress and hold the Fire button down until the range reading is displayed below the aiming circle.
- Once a range has been acquired, you can release the Fire button. The four “crosshairs” just outside the aiming circle will go out, indicating the laser is no longer transmitted. The display will remain on and display the last

distance measurement for about 15 seconds until the display automatically switches off to extend battery life.

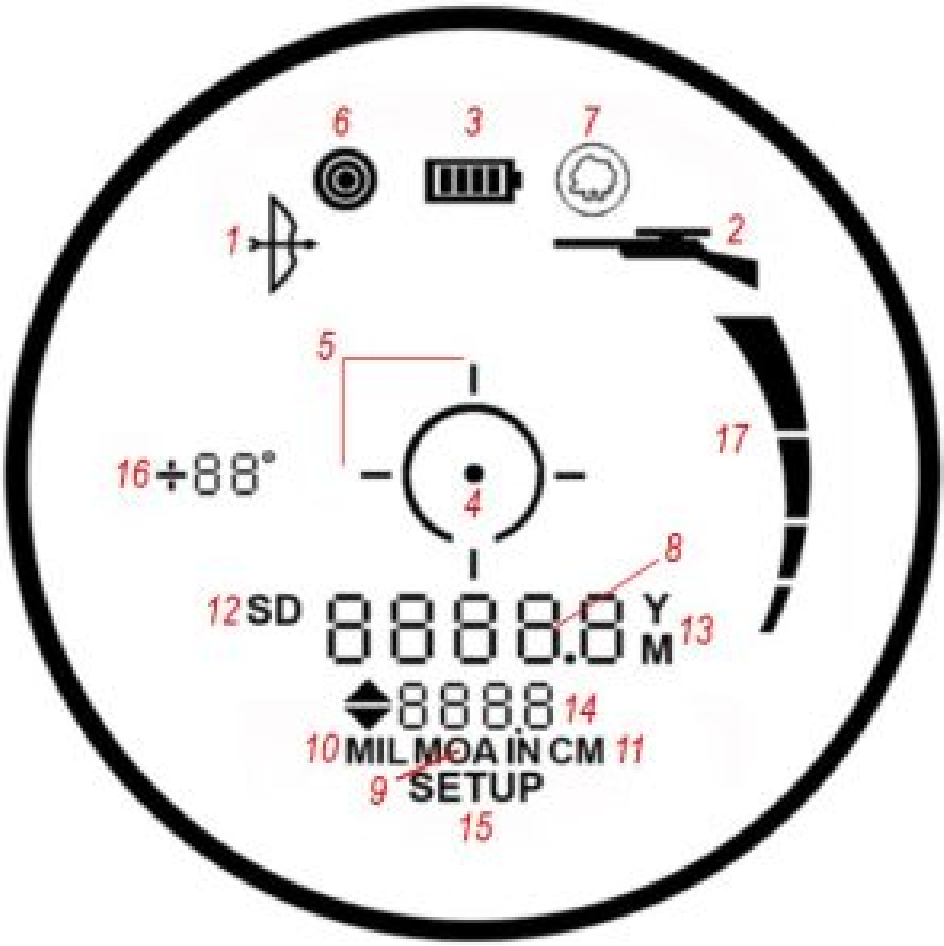
- You can press the Fire button again at any time to check the range to a new target. To re-fire, press the button again.
- To scan the laser across an area and get continuously updated range readings, continue to hold the Fire button down and sweep the ranging binocular over multiple targets. The crosshairs outside the aiming circle will flash to indicate scan operation.

FOCUS AND DIOPTER ADJUSTMENT

- First, adjust the eyecups and IPD as described in the previous sections.
- Using the attached lens cap or your hand, cover the objective lens on the right side of the ranging binocular.
- Using the center focus knob, focus on a distant object with fine detail (e.g., brick wall, tree branches, etc.) until it appears as sharp as possible when viewed through the left side of the ranging binocular.
- Uncover the objective lens on the right side, and cover the left objective lens while viewing the same object.
- Rotate the diopter adjustment ring located directly below the right eyecup, NOT the center focus knob, to bring the object into focus on the right side of the ranging binocular. • Avoid over-turning or forcing the diopter mechanism. If you cannot bring the object into focus for your right eye by adjusting the diopter ring, make sure the left side is still in focus (repeat steps #2-4 if necessary). The diopter adjustment essentially provides “fine focus” on one side of the ranging binocular (right only) to allow for slight differences in the vision of your left and right eyes.
- Your ranging binocular should be adjusted for your eyes. Focusing for any distance can now be done simply by turning the center focus knob. Make a note of your diopter setting (position of plus and minus marks on diopter ring relative to index mark on binocular below the ring) for future reference if the ring is moved accidentally or by another person using your ranging binocular.

DISPLAY INDICATORS/ICONS

The Fusion™ X ranging binocular’s display incorporates the following illuminated indicators:



Angle Range Compensation Modes:

1. B
   ow Mode
2. R
   ifle Mode
3. Battery Level Indicator
4. Aiming Circle/Dot
5. Active/Scan Laser Indicator
   Targeting Modes:
6. B
   ullsEye Mode
7. B
   rush Mode
8. Primary Numeric Display displays Line-of-sight Distance
   Holdover / Bullet-drop Horizontal Distance indicators for Rifle Mode
9. MOA holdover units selected
10. MIL (holdover units selected
11. IN (inch) or CM (centimeter) holdover units selected
12. SD = Variable Sight-In Distance
13. Range (Distance) Units: Y=Yards, M=Meters
14. Secondary Numeric Display

(Holdover/bullet drop for Rifle mode, True Horizontal Distance for Bow Mode)

15. SETUP Mode
16. Angle Indicator
17. Power/Height Meter

TARGETING MODES

The Fusion™ X laser ranging binocular operates in three available targeting modes, with Standard mode as the default. To select a different targeting mode, press the Mode button briefly until the desired indicator (BullsEye or Brush) appears. To return to Standard mode, press Mode one more time after the Brush mode indicator is seen. The targeting modes are:

- Standard Mode with Automatic SCAN (LCD Indicator – none) This setting allows most targets to be ranged, up to 1800 yards. Used for moderately reflective targets that
  are typical of most distancing situations. The minimum distance in the standard model is 5 yards. To use the Automatic SCAN feature, press and hold the Fire button, then move the ranging binocular from object to object while keeping the Fire button depressed. Automatic SCAN will allow the range to be continuously updated as multiple objects are targeted. Crosshair lines flash while scanning.
- BullsEye™ Mode with Automatic SCAN (LCD Indicator (6) –) This advanced mode allows easy acquisition of small targets and game without inadvertently getting distances to background targets that have stronger signal strength. When more than one object has is acquired, only the distance of the closest object will be displayed. With the ranging binocular in BullsEye mode, align the aiming circle onto the object (i.e., deer) that you want to distance. Next, press and hold the Fire button and move the Aiming Circle slowly over the deer. If the laser beam recognized more than one object (deer and background trees), the distance of the closer object (deer) is displayed in the LCD.
- Brush™ Mode with Automatic SCAN (LCD Indicator (7) –): This advanced mode allows objects such as brush and tree branches to be ignored so that distance only to background objects are displayed. When more than one object is acquired, only the distance of the farthest object is displayed on the LCD.
  With the ranging binocular in Brush mode, align the aiming circle onto the object you want to find the distance. Next, press and hold the Fire button and move the Aiming Circle slowly over the object. If the laser beam recognized more than one object (closeup tree branch and a deer in the background), the distance of the further object (deer) would be displayed.

TIP: While pressing the Fire button, you can move the device slowly from object to object and intentionally force the laser to hit multiple objects to ensure that you are only displaying the furthest of the objects recognized by the laser. Once the device has shut off, the unit will always default back to the last targeting mode.

USING THE SETUP MENU

The Setup Menu is used to select various options, such as the ARC Mode (Bow, Rifle, etc.) and distance units (Yards or Meters) of your preference. After powering on the unit, enter the Setup Menu and hold the Mode button down until “SETUP” appears in the display (15). You will remain in the Setup Menu until you change or confirm all possible settings (varies depending on selected ARC mode), and “SETUP” is no longer displayed. Once in the Setup Menu, press the Mode button to scroll through or toggle the available items. Press the Fire button to confirm and save the currently displayed option/setting.

The first item you can select from the Setup Menu is the ARC Mode. Press the Mode button until the icon for the mode you want is displayed. Press the Fire button to confirm and continue selecting other related options/settings.

HEIGHT MODE
Using Height Mode, the Fusion™ X laser ranging binocular will measure the distance of the angle from the base to the top of an object. These measurements are used to calculate the height of an object.

- Set Fusion X to Height Mode in the SETUP Menu
- Measure the first angle by pressing the FIRE button while being focused on the lowest point. (Fig. 1)
- Measure the second angle by pressing the FIRE button while being focused on the highest point. (Fig. 2)
- The height measurement will be displayed below the range value. (Fig. 3)

POWER METER:
The power meter provides indication of laser energy received by the rangefinder. The more reflective a target is the more bars will illuminate.

ANGLE RANGE COMPENSATION (ARC)
The Fusion™ X Laser Ranging binocular with ARC™ is specially designed with hunters in mind. Your Fusion™ X ranging binocular features a built-in inclinometer that solves a problem hunters have had for years. Bow and rifle hunters have struggled with extreme uphill and downhill angles because these angles alter the true horizontal distance to your target. The ARC™ solution: an integrated inclinometer provides angular data to a processor chip when targeting either uphill or downhill objects. This data is combined with internal algorithmic formulas. The user-selectable ARC modes allow you to adjust the performance parameters of the unit to suit your specific situation and environment.

Along with the standard “line of sight” distance, the Fire button is released, the Fusion™ X laser ranging binocular’s display can show the true horizontal distance when the Fire button is released. In Bow Mode, see the ARC MODES section or in Rifle Mode, bullet-drop/holdover near the bottom of the display (14), along with the angle of incline in degrees, indicated at the left side of the display (16). For example, a bowhunter in a tree stand may aim at a downhill deer at a -52o relative to his position. The line-of-sight distance is 32 yards, but he is likely to “overshoot” the target based on that. The THD distance (compensated for the angle) reads 23 yards. That is the distance the hunter should use based on their shot.

ARC (ANGLE RANGE COMPENSATION) MODES

- REGULAR Mode ( ): This mode does not provide any degree of elevation or compensated distance information (no secondary display (14), only the line-of-sight distance (8). Select this mode (press Fire button with “rE9” displayed while in Setup) for general purpose use or when not using the ranging binocular for bow or rifle hunting
  applications. After confirming your selection of Regular mode, the only other item in the Setup Menu is the Unit of Measure option (13). Pressing the Mode button will toggle
  the Units from the default “Y” (yards) to “M” (meters). Press the Fire button to confirm your selection (leave units set to Yards or change it to Meters) and exit the Setup Menu,
  returning to normal operation.
- BOW Mode ( ): Calculates and displays the degree of incline, and the resulting true horizontal distance in yards

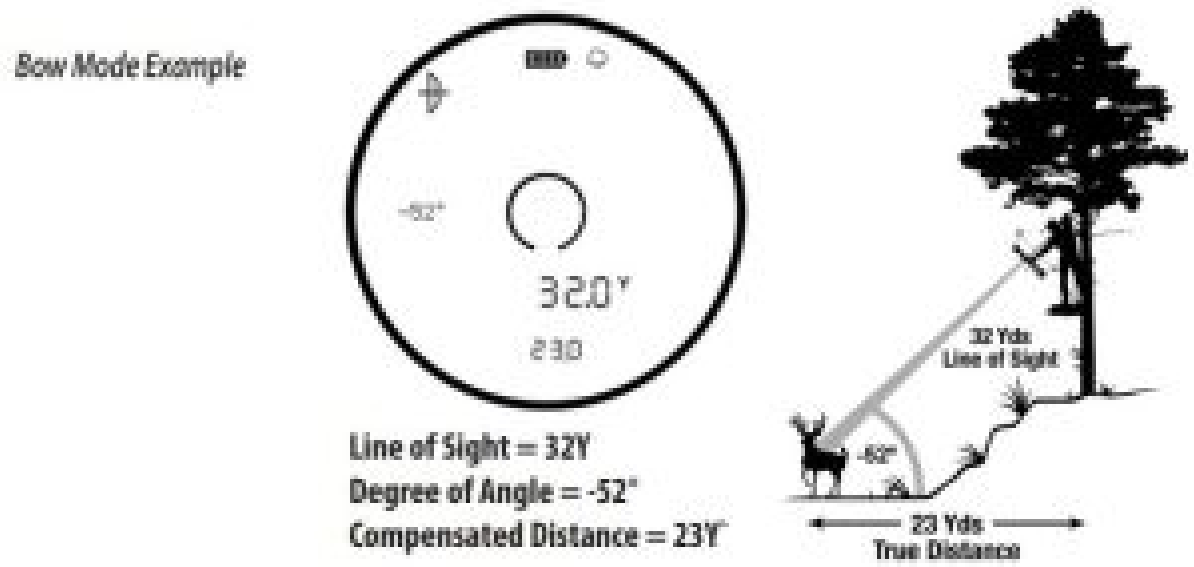
or meters, in addition to the line-of-sight distance. Select this mode (press the Fire button with the bow icon (1) displayed while in Setup) for bowhunting or other use if you don't need bullet-drop/holdover information. After confirming your selection of Bow mode, the only other item in the Setup Menu is the Unit of Measure option (13). Pressing the Mode button will toggle the Units from the default "Y" (yards) to "M" (meters). Press the Fire button to confirm your selection (leave units set to Yards or change it to metric) and exit the Setup Menu, returning to normal operation.

Bow Mode Example
The true horizontal distance is shown near the bottom of the display (14), alternating with the tilt angle in degrees. For example, a bowhunter in a tree stand maybe
aiming at a deer that is downhill at a -52o angle relative to his position. The line-of-sight distance is 32 yards, but he is likely to "overshoot" the target based on that. The THD distance (compensated for the angle) reads 23 yards. That is the distance the hunter should base their shot.

The line of sight is 32 yards, the angle is -52 degrees, and the Angle Range Compensated distance is 23 yards. Instead of shooting as 32 yards, shoot as 23 yards. If you were to shoot as if 32 yards, you would shoot over the top of the deer because of the severe angle.

If in BOW mode, the line-of-sight distance will display in the primary numeric display, and the inclination and horizontal distance will display in the secondary numeric displays. Bushnell® determined through extensive testing and interviews with high-profile bow hunting experts that multiple bow ballistic groups were not necessary. Bow-hunters want to know true horizontal distance because that is how they practice shooting, and once they confidently know that, they can make any necessary adjustments. Giving the bow- hunter anything else other than horizontal distance creates additional confusion and uncertainty.

Many people mistakenly believe that uphill shots perform differently from downhill shots because of gravity. However, it is not due to gravity, but more of an aberration of the sighting system used on bows. The sighting pin on a bow resides several inches above the mechanical axis of the arrow. For example, when aiming 23 degrees up an incline, the arrow is at a different angle.



- **RIFLE Mode(s) ( ):** Calculates and displays the amount of bullet drop at the target in inches, centimeters, Mils, or MOA. The amount of bullet drop is determined by the line-of-sight distance to the target, degree of elevation, along with the specific ballistic characteristics of the caliber and ammunition load. When you range your target, the line of sight, degree of elevation, and bullet-drop/holdover in inches, centimeters, Mils, or MOA will be

displayed from 100 to 800 yards/meters with a maximum inclination of +/- 70°.

One of eight ballistic groups (identified as A, B, C, D, E, F, G, and H) for centerfire rifles and two ballistic groups (Identified as I and J) for Black Powder / Muzzleloaders can be selected by the user, with each formula representing a given combination of caliber and loads. The user selects the ballistic groups via the Setup menu. After entering the Setup menu (by holding the Mode button for a few seconds), briefly press the Mode button until you see the blinking Rifle icon (2), along with the letter for the ballistic group for your preferred ammo (or load).

Knowing Which Ballistic Group To Select
Bushnell engineers have researched currently available ballistic data and grouped many of the most popular calibers and loads into eight ballistic groups (A, B, C, D, E, F, G, H). Once you know what caliber and load you are shooting, look through the chart to determine which one of the eight ballistic groups matches your particular load and caliber. For Muzzleloaders, we have worked with PowerBelt Bullets to incorporate ballistic data into two ballistic groups (I and J). Below are a few of the most popular caliber/load combinations. A list of nearly 2000 caliber and load combinations can be found on Bushnell's website (www.bushnell.com).

Popular Caliber & Load Combinations

- Federal Cartridge .224 dia. 22-250 Rem, 55 gr. Bear Claw at 3600 fps G
- Federal Cartridge .224 dia. 22-250 Rem, 60 gr. Partition at 3500 fps F
- Remington Arms .224 dia. 22-250 Remington Arms, 50 gr. V-Max at 3725 FPS H
- Remington Arms .224 dia. 22-250 Remington Arms, 55 gr. PSP at 3680 FPS G
- Winchester .224 dia. 22-250 Rem, 55 gr. Ballistic Silvertip at 3680 FPS H
- Winchester .224 dia. 22-250 Rem, 55 gr. PSP at 3680 FPS G
- Federal Cartridge .277 dia. 270 Win, 150 gr. Ballistic Tip at 3060 fps F
- Federal Cartridge .277 dia. 270 Win, 150 gr. Partition at 3000 fps F
- Remington Arms .277 dia. 270 Win, 140 gr. PSPCL Ultra at 2925 FPS E
- Remington Arms .277 dia. 270 Win, 150 gr. SPCL at 2850 FPS D
- Winchester .277 dia. 270 Win, 150 gr. Partition Gold at 2930 FPS E
- Winchester .277 dia. 270 Win, 150 gr. PP-Plus at 2950 FPS E
- Federal Cartridge .308 dia. 30-06 Spring, 180 gr. AccuBond at 2700 FPS D
- Federal Cartridge .308 dia. 30-06 Spring, 180 gr. Bear Claw at 2700 FPS D
- Remington Arms .308 dia. 30-06 Springfield, 180 gr. A-Frame at 2700 FPS D
- Remington Arms .308 dia. 30-06 Springfield, 180 gr. BRPT at 2700 FPS D
- Winchester .308 dia. 30-06 Sprg, 180 gr. FailSafe at 2700 FPS D
- Winchester .308 dia. 30-06 Sprg, 180 gr. Partition Gold at 2750 FPS D
- Federal Cartridge.308 dia. 300 WSM, 180 gr. AccuBond at 2960 fps F
- Federal Cartridge.308 dia. 300 WSM, 180 gr. Bear Claw at 3025 fps F
- Winchester .308 dia. 300 WSM, 180 gr. Ballistic Silver Tip at 3010 FPS F
- Winchester .308 dia. 300 WSM, 180 gr. Fail Safe at 2970 FPS F
- Remington Arms .308 dia. 300 R.S.A.U.M., 180 gr. PSPCL Ultra at 2960 FPS E
- Remington Arms .308 dia. 300 Wby Mag, 180 gr. PSPCL at 3120 FPS F

After determining which ballistic group corresponds to your caliber and load, select this ballistic group the letter along with Rifle mode. The internal formula will determine the amount of bullet drop/holdover in inches or centimeters based on your caliber and load's distance, angle, and ballistics.

What if my caliber/load is not listed?

While we have taken great care to include as many calibers as possible and brand names in our ballistics tables, new loads are continually developed. Also, some shooters load their ammunition with unique ballistic characteristics. If you cannot find your load in our ballistic tables, you can still use the bullet drop feature of the laser ranging binocular. As above, sight in your rifle at 100 yds. Then shoot the rifle, without adjusting the riflescope, at 300 yds.

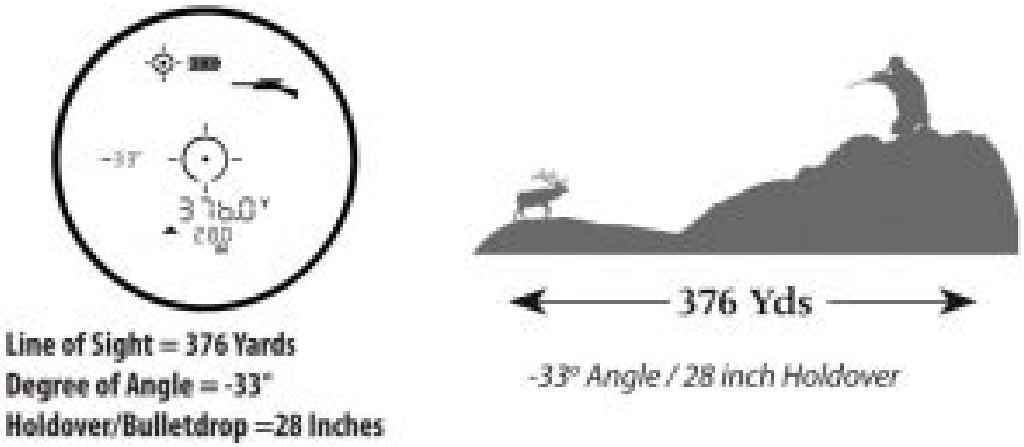
Measure the bullet drops from the point of aim. Using this drop, select the ballistic group from below. If you are shooting long distances, you may want to check the bullet drop at 500 yds. Because there is enormous variation in rifle barrels, chambers, and hand loads, you should thoroughly test the ballistic setting before actual hunting. You may need to move up or down one group depending upon your tests.

After you have confirmed your selection of Rifle mode with the ballistic group you need (by pressing the Fire button while it appears in the display), the following item is the Unit of Measure option (13). Pressing the Mode button will toggle the Units from the default “Y” (yards) to “M” (meters). Press the Fire button to confirm your selection (leave units set to Yards or change it to metric).

Next, you will see “SD,” meaning Sight-In Distance. Briefly pressing the Mode button will cycle through a choice of 100, 150, 200, or 300 yards. Press the Fire button to confirm and save the setting when your preferred sight-in distance is displayed.

Lastly, you will have a choice of formats for the bullet drop/holdover data that will appear in the secondary numeric display (14): IN (inches)*, ML (Mils), or MOA (moa). Briefly press the Mode switch to cycle through the three options, pressing the Fire button to confirm and save the setting when your preferred bullet drop format is displayed. *Note: if the unit of measure is set to Meters (M), the bullet drop is calculated and displayed in CM (centimeters) rather than inches.

Rifle Mode Example
The line of sight is 376 yards, the angle is -33 degrees, and the bullet-drop/holdover is 28 inches. ARC takes into account ballistic data based on your caliber and load from distances of 100-800 yards and compensates for any uphill and downhill angles that also affect bullet-drop.



The Fusion™ X ranging binocular’s state-of-the-art digital technology allows the hunter or shooter to know precisely where to hold for an effective shot. This information
should be treated as a helpful guide or tool, and in no way should it ever replace practice and familiarity with your rifle, cartridge, and load. We encourage practice shooting
at different ranges, so you know how your rifle, cartridge, and load will perform under various conditions. Always know what is behind your bullet; if you don’t know, don’t
take the shot.

- **Reticle Select:** The Setup menu allows you to select your preferred type for the center of the display (for all modes). Press the Mode button to cycle through Circle, Dot, and Circle with Dot (this is the default) options.

Press the Fire button to confirm the selection of the reticle you prefer and exit the Setup menu.

- **ACTIVESYNC™ Brightness Setting:** ACTIVESYNC is always on, allowing the display to adjust the display contrast to the background automatically. The Setup menu allows you to select your brightness preference (for all modes). Press the Mode button to cycle through Brightness 25% (default setting), Brightness 50%, Brightness 75%, and Brightness 100% options. Press the Fire button to confirm the selection of Brightness you prefer and exit the Setup menu.

CLEANING AND GENERAL CARE

The lenses of your Bushnell Fusion™ X laser ranging binocular are fully multi-coated for the highest light transmission. As with any multi-coated optics, care must be taken in cleaning the lenses. Follow these tips for proper lens cleaning:

- Blow away any dust or debris on the lens (or use a soft lens brush).
- To remove dirt or fingerprints, clean with the supplied microfiber cloth rubbing in a circular motion. Use of coarse cloth or unnecessary rubbing may scratch the lens surface and eventually, cause permanent damage. The included washable microfiber cleaning cloth is ideal for the routine cleaning of your optics. Breathe lightly on the lens to provide a slight amount of moisture, then gently rub the lens with the microfiber cloth.
- 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.

All exterior lens surfaces have our new EXO Barrier™ coating (in addition to full multi-coating). EXO Barrier, quite simply, is the best protective lens coating technology Bushnell has ever developed. Added at the end of the coating process, EXO Barrier molecularly bonds to the lens and fills the microscopic pores in the glass. The result is an ultra-slick coating that repels water, oil, fog, dust, and debris – rain, snow, fingerprints, and dirt will not stick. EXO Barrier is built to last: the bonded coating will not fade with the passage of time or normal wear and tear.

The ranging binocular is manufactured and tested to withstand water exposure up to IPX4 standards. It is water-resistant but should not be submerged.

TROUBLESHOOTING

Never disassemble your laser-ranging binocular. Irreparable damage can result from unauthorized service attempts, which also void the warranty.

If the unit does not turn on, the display does not illuminate:

- Depress Power/Fire button.
- Check and, if necessary, replace the battery. If the unit does not respond to button presses, replace the battery with a good quality CR2 3-volt Lithium battery.

If unit powers down (display goes blank when attempting to power the laser):

- The battery is either weak or low quality. Replace the battery with a new 3 -volt lithium battery (CR2).

If target range cannot be obtained:

- Make sure the display is illuminated.
- Make sure that the Power/Fire button is being depressed.
- Make sure that nothing, such as your hand or finger, blocks the lenses at the front of the ranging binocular that emits and receives the laser pulses.
- Make sure the unit is steady while depressing the Power/Fire button.

NOTE: The last range reading does not need to be cleared before ranging another target. Simply aim at the new target using the display reticle, depress the power button, and hold until the new range reading is displayed.

Technical Specifications

SKU	Magnification	Objective Diameter	Prism System	Field of view ft@1000yds / m@1000m	Exit Pupil (mm)	Eye Relief (mm)	Close Focus (ft/m)	Length (in/mm)	Weight (oz./g)
FX1042AD	10x	42 MM	Roof	305/93	4	16	15 / 4.6	7.1/180	35/992

Warranty

Products manufactured on or after June 2020 are covered by the Bushnell Lifetime Ironclad Warranty. The Ironclad Warranty is a full lifetime warranty that covers the lifetime of this Product. Each Product has a defined lifetime; lifetimes can range from 1 to 30 years. This Product's lifetime can be found at the website listed below and/or on the Bushnell webpage specific to this Product.

We warrant that this Product is free from defects in materials and workmanship and will meet all represented performance standards for the lifetime of this Product. If this Product isn't working properly due to a covered defect, we will, at our option, either repair or replace it and ship it back to you at no charge. This warranty is fully transferable and does not require a receipt, warranty card, or product registration. This warranty does not cover the following: electronic components; batteries; cosmetic damage; damage caused by failing to properly maintain the product; loss; theft; damage as a result of unauthorized repair, modification, or disassembly; intentional damage, misuse, or abuse; and ordinary wear and tear. This Warranty will be void if the date stamp or other serialization codes have been removed from the Product.

To view the full warranty and find details on how to request service under the warranty, go to our website at www.bushnell.com/warranty. Alternatively, you can request a copy of the warranty by calling us at 1-800-423-3537 or writing to us at one of the following addresses:

IN U.S.A. Send To:
Bushnell Outdoor Products
Attn.: Repairs
9200 Cody
Overland Park, Kansas 66214

IN CANADA Send To:
Bushnell Outdoor Products
Attn.: Repairs
140 Great Gulf Drive, Unit B
Vaughan, Ontario L4K 5W1

For products purchased outside the United States or 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.

WARNING: This product uses a Lithium based battery. Lithium batteries can overheat and cause damage if physically abused. Do not use batteries that are damaged or show signs of physical wear.

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
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.

Shielded interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules. Specifications and designs are subject to change without any notice or obligation on the part of the manufacturer.

Important Note: Radiation Exposure Statement

- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FDA SAFETY
Class 1 laser product in accordance with IEC 60825-1:2007.
Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.

Caution: There are no user controls, adjustments or procedures. Performance of procedures other than those specified herein may result in access to invisible laser light.

Industry Canada Statement :
This device complies with ISED's license-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Radiation Exposure Statement :
This device complies with the Industry Canada portable RF exposure limit set forth for an uncontrolled environment and is safe for the intended operation as described in this manual. Further RF exposure reduction can be achieved if the product can be kept as far as possible from the user's body or if the device is set to a lower output power if such function is available.

Industry Canada Statement :
This device complies with ISED's license-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Radiation Exposure Statement :
This device complies with the Industry Canada portable RF exposure limit set forth for an uncontrolled environment and is safe for the intended operation as described in this manual. Further RF exposure reduction can be achieved if the product can be kept as far as possible from the user's body or if the device is set to a lower output power if such function is available.

Patent #’s: 7,658,031 | 8,081,298

Disposal of Electric and Electronic Equipment
(Applicable in the EU and other European countries with separate collection systems)
This equipment contains electric and/or electronic parts and must therefore not be disposed of as normal household waste. Instead, it should be disposed at the respective collection points for recycling provided by the communities. For you, this is free of charge. If the equipment contains exchangeable (rechargeable) batteries, these too must be removed before and, if necessary, in turn be disposed of according to the relevant regulations (see also the respective comments in this unit’s instructions).

Further information about the subject is available at your community administration, your local waste collection company, or in the store where you purchased this equipment.

Bushnell

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