

# Bushnell® Binocular Instruction Manual

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## INSTRUCTIONS FOR USE

Your Bushnell binocular is a precision instrument designed to provide many years of pleasurable viewing. This booklet will help you achieve optimum performance by explaining how you can adjust the binocular to your eyes, and how to care for this instrument. Read the instructions carefully before using your binocular.

### EYE ADJUSTMENTS (Figure 1)

#### HOW TO ADJUST FOR DISTANCE BETWEEN YOUR EYES

The distance between the eyes, called "interpupillary distance," varies from person to person. To achieve perfect alignment of lens to eye, follow these simple steps.

1. Hold your binocular in the normal viewing position.
2. Grasp each barrel firmly. Move the barrels closer together or further apart until you see a single circular field. Always re-set your binocular to this position before using.

#### HOW TO ADJUST FOR INDIVIDUAL EYE STRENGTH

As individual eyesight varies from one person to another, most Bushnell binoculars have a diopter setting feature which allows you to fine-tune the binocular to your vision. Follow the focusing instructions below for your type of binocular.

### FOCUSING

Bushnell binoculars have three primary focusing systems: center, "Insta-Focus" and individual. "Zoom" binoculars utilize the "Insta-Focus" or center focus system.

**CENTER FOCUS** has a central focusing wheel between the barrels.

**"INSTA-FOCUS"** binocular focusing system has a central focusing lever between the barrels.

**INDIVIDUAL FOCUS** – each eyepiece is focused separately. (Most commonly found on Marine binoculars.)

#### CENTER FOCUS & "INSTA-FOCUS"

1. Adjust interpupillary distance. (Figure 1)
2. Set the "diopter setting" (Figure 2) to zero and view a distant object.
3. Keep both eyes open at all times.
4. Using a lens cover or your hand, cover the objective (front) lens of the same side of the binocular that has the "diopter setting." This is usually the right side. (The left side on zoom models.)
5. Using the center focus wheel or "Insta-Focus" lever, focus on a distant object with fine detail (e.g., brick wall, tree branches, etc.) until it appears as sharp as possible.
6. Uncover the objective lens on the diopter side, cover the other objective lens, then view the same object.
7. Using the "diopter setting" adjustment ring, focus the same object being viewed. Caution should be used as over turning or forcing the diopter eyepiece can cause damage or cause the eyepiece to break away from the chassis.
8. Your binocular should be adjusted for your eyes. Focus at any far or near distances can now be attained simply by turning the center focus wheel or pressing the "Insta-Focus" lever. Make a note of the diopter setting for your eyes for future reference.

#### INDIVIDUAL FOCUS

1. Adjust interpupillary distance. Make a note of the number which appears on the central hinge scale. Always re-set your binocular to this position before using. (To see a single circular field.)
2. Cover right objective (front) lens with your hand. Rotate left eyepiece until image is focused.
3. Follow the same procedure for the right eye. The eyepiece should be turned in a counter-clockwise direction for closer objects and in a clockwise direction for more distant objects. With the image now in focus, make a note of the diopter settings for future use.

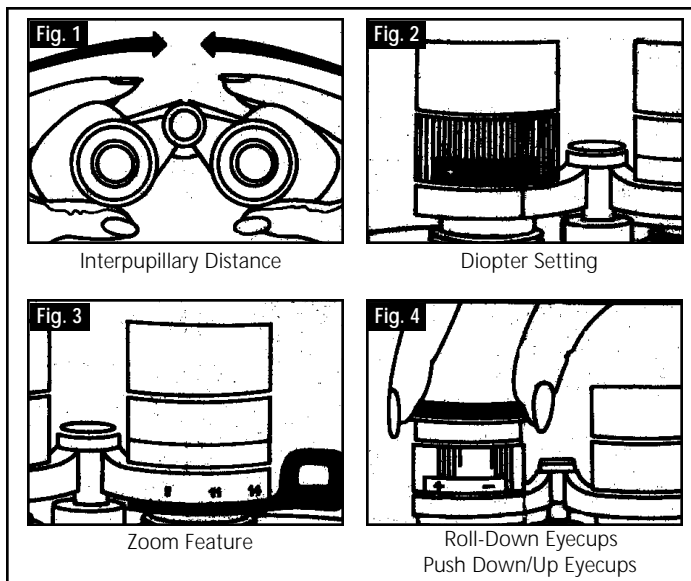
#### "ZOOM" FEATURE (Figure 3)

1. Follow the steps for focusing as outlined under "Center Focus & Insta-Focus."
2. When focusing a "zoom" (variable power) binocular, it is best to begin at high power. This will reduce or eliminate the need for focus readjustment when zooming between high and low powers. Set the "zoom" lever at the highest power indicated and focus on a distant object with fine detail.
3. Adjust your binocular for individual eye strength using the "diopter setting" as outlined in the instructions for "Center Focus / Insta-Focus."
4. Your binocular is now adjusted properly for your eyes. You may now "zoom" "out" or "in" on any distant object.

**Note:** To focus on an object at a closer distance, focus on the object at high power first and then adjust the "zoom" lever to the desired lower power. With any "zoom" instrument, better quality images are possible at lower powers.

### PERMA FOCUS® -INSTAVISION®

Your Bushnell binocular may be designed and built with a revolutionary focus-free optical system. Perma Focus and Instavision binoculars offer fast, clear viewing from approx. 35-100 ft. (depending on power) to "infinity", with no need to adjust a focus control. These binoculars do not have a diopter setting on either eyepiece.



### WATERPROOF-FOGPROOF

Your Bushnell binocular may be designed and built utilizing the latest waterproof and fogproof technology. Bushnell waterproof models are O-ring sealed for complete protection. Fogproof protection is achieved from dry nitrogen purging to remove all internal moisture.

### EYECUPS (Figure 4)

Your Bushnell binocular is fitted with rubber roll-down, pop-up, or twist-up eyecups designed for your comfort and to exclude extraneous light. If you wear sun/eyeglasses, roll down the eyecups. This will bring your eyes closer to the binocular lens thus providing improved field of view.

### INSTRUCTIONS FOR CARE

Your Bushnell binocular will provide years of trouble-free service if it receives the normal care you would give any fine optical instrument. Non-waterproof models should not be exposed to excessive moisture.

1. If your binocular has roll-down, flexible eyecups, store it with the eyecups up. This avoids excessive stress and wear on the eyecups in the down position.
2. Avoid banging and dropping.
3. Store in a cool, dry place.
4. Looking directly at the sun with your binocular may be very harmful to your eyes.

### CLEANING

1. Blow away any dust or debris on the lens (or use a soft lens brush).
2. To remove dirt or finger prints, 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. A "microfiber" cleaning cloth (available at most photo dealers) is ideal for the routine cleaning of your optics.
3. 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.

### WARRANTY / REPAIR

#### LIFETIME LIMITED WARRANTY

Your Bushnell® binocular is warranted to be free of defects in materials and workmanship for the lifetime of the original owner. The Lifetime Limited Warranty is an expression of our confidence in the materials and mechanical workmanship of our products and is your assurance of a lifetime of dependable service. 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 \$10.00 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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