



ALPEN[®]
OPTICS



— **APEX XP BINOCULAR - LRF**
USER GUIDE

#673LR
10x42

Discover the Difference

— PARTS OVERVIEW

Parts

- 1 Mode Button
- 2 Distance Measuring Button
- 3 Right Visual Knob
- 4 Focus Knob
- 5 Left Visual Knob
- 6 Strap Attachment
- 7 Objective Lens
- 8 Tripod Adapter Socket
- 9 Laser Rangefinder Modules
- 10 Battery Compartment



— GENERAL SAFETY INFORMATIONS!

RISK of physical injury!

Never look through this device directly at or near the sun. There is a risk of **BLINDING YOURSELF!**

Children should only use this device under supervision. Keep packaging materials (plastic bags, rubber bands, etc.) away from children.

There is a risk of **SUFFOCATION**.

Fire/Burning RISK!

Never subject the device - especially the lenses - to direct sunlight. Light ray concentration can cause fires and/or burns.

Caution

1. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
2. The use of optical instruments with this product will increase eye hazard.
3. Powered by CR2 batteries.

RISK of material damage!

Never take the device apart. Please consult your dealer if there are any defects. The dealer will contact our service center and send the device in for repair if needed.

Do not subject the device to temperatures exceeding 60°C!

Warranty & Service

ALPEN Warranty, without an end date, begins on the day of purchase. To benefit from an extended voluntary guarantee period as stated on the gift box, registration on our website is required. You can consult the full warranty terms as well as information on extending the warranty period and details of our services at:

bresserusa.com/pages/warranty

Eyecup Adjustment

Your ALPEN binocular is fitted with eyecups which can be rolled or twisted up or down (depending on your model) to optimize the view for your eyes and to exclude extraneous light. If you are not wearing eyeglasses or sunglasses, keep the eyecups fully extended („up“ position). If you are wearing glasses, roll down the eyecups or twist them to the down position. This will bring your eyes closer to the binocular’s eyepiece (ocular) lens to ensure you can see the entire image (full field of view with no “cutoff” or “tunnel vision”).



Twisted Eyecup

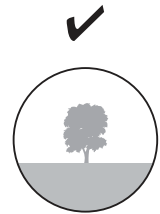
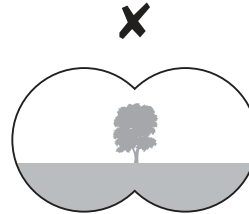


Rolled Eyecup

IPD (Interpupillary Distance) Adjustment

The distance or spacing between the center of the pupils, called “interpupillary distance” (IPD) varies from person to person. To adjust the binocular to match your eyes, follow these simple steps:

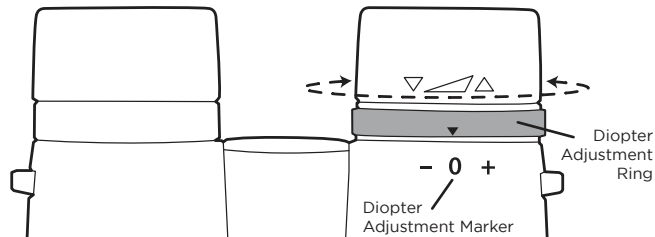
1. Hold your binocular in the normal viewing position. Grasp each barrel firmly.
2. Move the barrels closer together or further apart until you see a single circular field (don’t worry about focus yet).
3. Always re-set your binocular to this position before using it.



Diopter Adjustment and Focusing

1. Adjust eyecups interpupillary distance as described in the previous sections.
2. Set the diopter adjustment ring 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 adjustment ring. This is usually the right side.
5. Using the center focus wheel, 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, the left side, then view the same object.
7. Using the diopter adjustment ring, move the diopter adjustment marker to the “+” or “-” till you reach focus.

Caution should be used as over turning or forcing the diopter ring can cause damage or cause the eyepiece to break away from the chassis.



8. Your binocular should now be adjusted for your eyesight. Focusing for any distance can now be done simply by turning the center focus wheel. Make a note of your diopter setting for future reference.

Description of Binocular Refractive Correction

1. Turn the left and right visual knobs counter-clockwise until they stop. First press the distance measuring button and look through the eyepiece with your right eye, pointing only at the display, turning the right visual knob clockwise until the display is fully in focus.
2. Look at the object through the right eyepiece with your right eye, then focus on it and adjust the focusing knob until the object comes into focus.
3. Close your right eye (or cover your right eye) and look at the same object only with your left eye, turning the left visual knob clockwise until the object is in focus. Your personal refractive correction is adjusted.

Single Measurement

The sighting mark appears when the distance measuring button is pressed for the first time. After the second release of the button, the display will show the adjustment range.



Scanning Measurement

The scanning measurement is used to continuously measure the distance of the moving target. If you hold on the distance measuring button for more than 3 seconds, it will automatically switch to scan style. And the measurement will continue always until the button is released.



Scan
(LOS Mode)

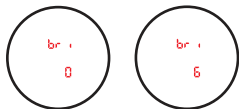


Scan
(HCD Mode)

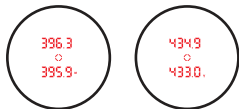
Mode Transition

Press the distance measuring button and release the mode button after pressing for more than 3 seconds, it will appear the main menu. When the mode button is pressed again, the next menu option will appear. Press the distance measuring button to select the program.

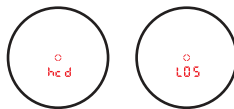
1. Brightness conversion



2. M and Y conversion

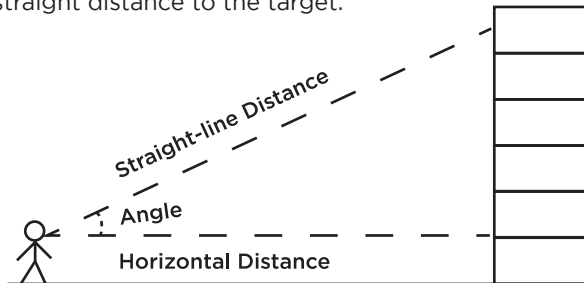


3. HCD and LOS mode conversion.



HCD: In the HCD Mode you get the following information displayed. The horizontal distance to the object and the angle you hold the device to the target.

LOS: The LOS mode show you the horizontal and straight distance to the target.



Angle Measurement

The Angle of your measurement position to any target can be displayed in the upper area of the display.



Neckstrap Attachment

To securely attach your binocular to the binocular strap:

1. Thread the end of the strap from the bottom up through the strap attachment loop.
2. Hold the buckle and thread the end of the strap inside the buckle.
3. Adjust the overall length and pull the strap webbing tight so it is secure within the buckle.

Waterproof / Fogproof Models

ALPEN binoculars are designed and built utilizing the latest waterproof and fogproof technology (this will be noted on the product packaging). Waterproof models are O-ring sealed for complete mois-

ture protection. Fogproof protection is achieved from dry nitrogen purging that removes all internal moisture.

Tripod Mounting (tripod and tripod adapter not included)

To attach the binocular to a tripod or monopod, unscrew (counter-clockwise) the cap which covers the threaded socket at the far end of the center hinge, and set it aside in a safe place. Use a compatible binocular tripod adapter accessory to attach your binocular to any standard tripod in a horizontal position to provide a stable image during prolonged viewing.

Care and Cleaning

Your binocular will provide years of trouble-free service if it receives the normal care you would give any fine optical instrument.

- Do not expose non-waterproof models to heavy rain or other excessive moisture.
- If your binocular has roll-down, flexible eyecups, store it with the eyecups up. This avoids excessive moisture.
- Avoid sharp impacts. Use the included neckstrap to avoid accidentally dropping the binoculars to prevent mis-alignment of the optics.
- When not using them, store your binoculars in the provided case in a cool, dry place.
- Avoid storing the binoculars in hot places, such as the passenger compartment of a vehicle on a hot day. The high temperature could adversely affect the lubricants and sealants. Never leave the binocular where direct sunlight can enter either the objective or the eyepiece lens. Damage may result from the concentration (burning glass effect) of the sun's rays.
- All moving parts of the binocular are permanently lubricated. Do not try to lubricate them.

To Clean Your Binoculars Lenses

1. Blow away any dust or debris on the lens (or use a soft lens brush).
2. To remove fingerprints or other smears, clean with a soft cotton cloth rubbing in a circular motion. A “microfiber” cleaning cloth (available from camera or computer retailers) 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.

Disposal



Keep packaging materials, like plastic bags and rubber bands, away from children as they pose a risk of suffocation. Dispose of packaging materials as legally required. Consult the local authority on the matter if necessary and recycle materials when possible.



- The WEEE symbol if present indicates that this item contains electrical or electronic components which must be collected and disposed of separately.

- Never dispose of electrical or electronic waste in general municipal waste. Collect and dispose of such waste separately.

- Make use of the return and collection systems available to you, or your local recycling program. Contact your local authority or place of purchase to find out what schemes are available.

- Electrical and electronic equipment contains hazardous substances which, when disposed of incorrectly, may leak into the ground. This can contribute to soil and water pollution which is hazardous to human health, and endanger wildlife.
- It is essential that consumers look to re-use or recycle electrical or electronic waste to avoid it going to landfill sites or incineration without treatment.

— NOTES

A large grid of small dots for taking notes, consisting of 20 columns and 20 rows of dots.



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