



Halo Series Compact Binocular
10 Power x 25mm Lens Compact Roof Prism Binocular
MODEL D-110



Thank you for the purchase of your new Cstar D-110 Binocular. As with all Cstar Optics products, this product is carefully engineered to give you a high quality optical image while bringing you up closer to nature, both on the land and in the sky. The D-110 binocular features an aluminum body, Coated Glass Lenses to help increase light transmission, and Roll-Down Eye-Cups that are perfect for Eyeglass wearers. The D-110 is compact, lightweight, great for traveling, hiking, sporting events, fishing, hunting, and many other outdoor activities. To get the most performance out of your D-110, please see the below instructions.

WARNING! Do not, under any circumstance attempt to view the sun through your binocular. Doing so will result in instant and permanent eye damage.

D-110 BINOCULAR SPECIFICATIONS

TYPE: COMPACT ROOF PRISM BINOCULAR

MAGNIFICATION: 10X

OBJECTIVE LENS (MM): 25MM

FOV @ 1000 YDS: 304 FT

FIELD ANGLE: 5.8 DEGREES

EXIT PUPIL: 2.5MM

NEAR FOCUS: 5M

EYE RELIEF: 10.3MM

D-110 BINOCULAR ACCESSORIES

CARRYING CASE

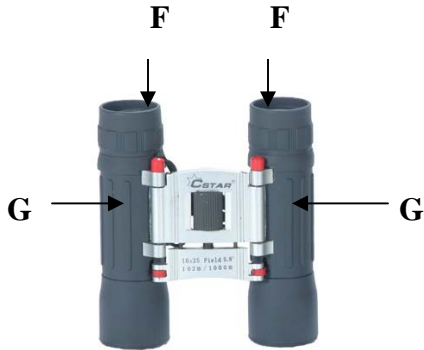
BINOCULAR NECK STRAP

LENS CLEANING CLOTH

HOW TO USE YOUR D-110 BINOCULAR

HOW TO ADJUST YOUR BINOCULAR TO FIT THE DISTANCE BETWEEN YOUR EYES

STEP 1 – Adjust the distance between the two binocular barrels (**G**) by grasping the binocular body and bending it until the ocular lens (**F**) line up with your eyes. If you see one round circle shaped image, you have adjusted the binoculars to the correct distance.



- Grasp the binocular body and bend it until the ocular lens (**F**) line up with your eyes.

If you see one round circle shaped image, you have adjusted the binoculars to the correct distance. If this is not the case, repeat Step 1.

**If you see a double image or do not see one round circle while you are looking through the binocular, you will need to re-adjust until you have the round circle in your view.*

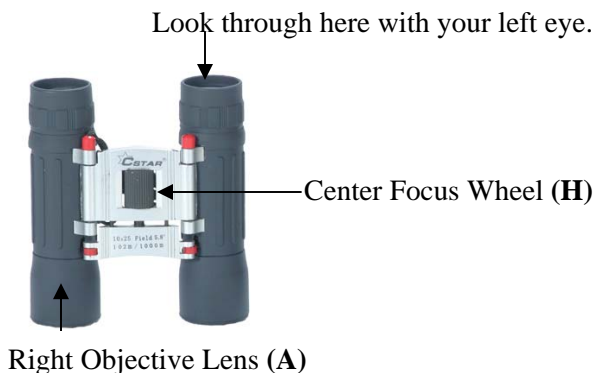
**If you have adjusted the binocular barrels to fit the distance between your eyes but are still having difficulty seeing the round circular image, your eyes may be too far away from the ocular lens or too close. Try moving your eyes either further away or closer to the ocular lens until you can see the round circle image.*

FOCUSING YOUR BINOCULAR: USING YOUR DIOPTR

Your D-110 binocular has two areas you will use in order to focus your binocular. There is a **Center Focus Wheel (H)** located on top of the binocular, and there is a **Dioptr-Focusing Ring (C)** located on the right ocular lens (**F**) area of your binocular. The **Dioptr-Focusing Ring (C)** is used to correct for any differences between your two eyes.

STEP 1 – To begin, focus your left eye by looking through the binocular and at the same time covering the right **Binocular Objective Lens (A)** with your right hand. Focus the image by moving the **Center Focus Wheel (H)** with your left hand (You will need to hold the binocular and focus at the same time using your left hand). Adjust the **Center Focus Wheel (H)** until your left eye sees a clear and focused image. The edges around the circular image should be very clear, and should not be blurry.

Do not close your right eye, as doing so will cause your left eye to over compensate, and thus will not be focused correctly.



*Focus your left eye by looking through the binocular and at the same time covering the right **Binocular Objective Lens (A)** with your right hand.

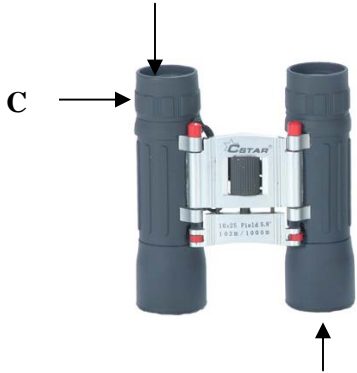
*Focus the image by moving the **Center Focus Wheel (H)** with your left hand (You will need to hold the binocular and focus at the same time with your left hand).

*Adjust the **Center Focus Wheel (H)** until your left eye sees a clear and focused image.

STEP 2 – Focus your right eye by looking through the binocular and at the same time covering the left **Binocular Objective Lens (A)** with your left hand. Focus the image by rotating the **Diopter-Focusing Ring (C)** either clockwise or counter clockwise until your right eye sees a clear and focused image.

You only need to adjust your diopter-focusing ring one time, unless the diopter-focusing ring is moved by somebody who may have used your binocular. All other focusing can be made by just adjusting the center focus wheel (H) on the top of the binocular.

Look through here with your right eye.



Left Objective Lens (A)

*Focus your right eye by looking through the binocular and at the same time covering the left **Binocular Objective Lens (A)** with your left hand.

*Focus the image by rotating the **Diopter-Focusing Ring (C)** in either a clockwise or counter clockwise until your right eye sees a clear and focused image.

If you do not see an image, repeat steps above.

STEP 3 – As you look at objects at different distances, you will need to re-focus your binocular. You only need to focus the binocular by adjusting the **Center Focus Wheel (H)**. You will NOT cover the objective barrels while focusing after you have already completed STEPS 1 AND 2.

Both sides (eyes) are now in focus and you will only need to use the center focus wheel to focus in other objects you wish to view.



*You only need to re-focus the binocular by adjusting the center focus wheel (H).

USING YOUR BINOCULAR WITH CORRECTIVE LENSES (GLASSES)

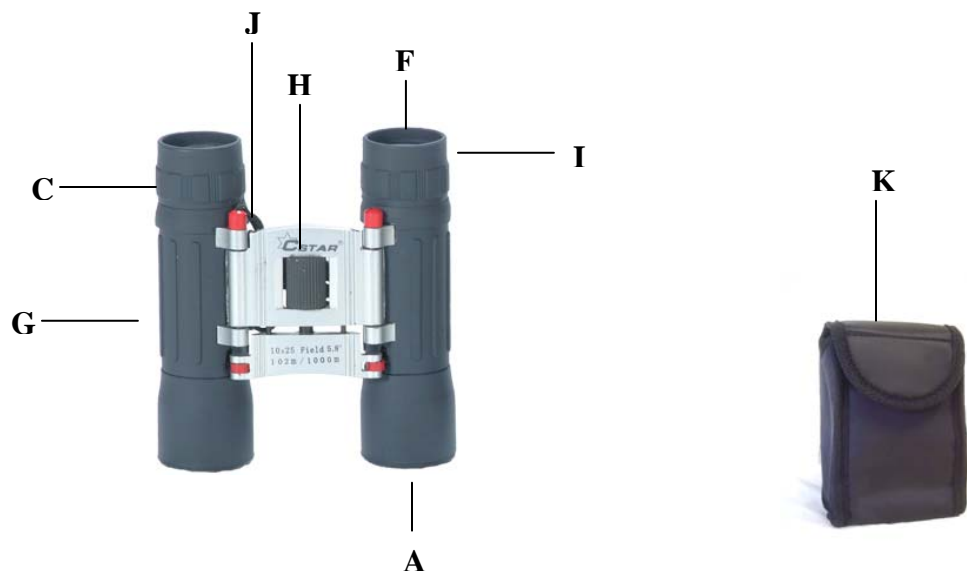
If you wear glasses, you can roll down the eyecups on the binocular for more comfortable viewing. Rolling down the eye-cups allows your eyes to still be close enough to the binocular in order to see the complete circular image as discussed above.



*Eyeglass wearers can roll down the rubber eyecups for more comfortable viewing and still be close enough to the binocular to see a complete circular image.

BINOCULAR TERMINOLOGY

- A. Objective Lens: The front lens in which light enters the binocular. A binocular has an objective lens at the front of both binocular barrels. The objective lens is measured in millimeters. A 25mm binocular has lenses which measure 25mm in diameter.
- B. Magnification: The power of the binocular. The D-110 has a magnification of 12. The object being viewed appears to be twelve times closer than if viewed by an unaided eye.
- C. Diopter Focusing Ring: The Diopter focus ring for the D-110 is located on the right ocular of the binocular. The diopter focus ring is used to accommodate for vision differences between the right and left eyes.
- D. Exit Pupil: This is the size of the circle of light visible at the eyepiece of a binocular. The larger the exit pupil, the brighter the image will be. To determine the exit pupil, divide the objective lens diameter by the power of the binocular (10x25 the D-110 has an exit pupil of 2.5mm).
- E. Eye-Relief: This is the distance a binocular can be held away from the eye and still present a full field-of-view or “circular” image.
- F. Ocular Lens: The back lenses in which light that entered through the objective lenses goes through the binocular barrel, through the ocular lens, and provides your eye with an image.
- G. Binocular Barrel: Binocular barrels house the roof prisms and lenses in which light travels through until an image is formed after passing through the ocular lens.
- H. Center Focusing Wheel: This allows the user to focus the binocular on an object by turning the wheel in a right or left direction.
- I. Roll-Down Rubber Eyecups: Convenient way for Eyeglass wearers to still wear their glasses while using the binocular.
- J. Neck Strap: Allows user to wear the binoculars around their neck without the worry of losing them.
- K. Carrying Case: Used to protect and store the binocular when not in use.



DAYTIME LAND VIEWING

If you are viewing nature such as wild-life on land during the day, the D-110 will get you up 10 times closer than with your own eyes!

NIGHT SKY VIEWING

There are many wonders to be seen in the Night Sky, such as the Earth's Moon, Planets, Star Clusters, Meteors, and other objects and astronomical events. For a complete list of Night Sky Objects and Events to view, Viewing locations and times, Viewing Tips, or Additional Astronomy Resources, please visit the Cstar Optics, Inc. website at www.cstaroptics.com.

CARE AND MAINTENANCE

Cstar builds its optical products to last for years. In order to be sure your Binocular is able to perform as it was designed. Gently blow away or remove with a small brush and debris or dust that falls on the lens. To clean the lens of fingerprints or dirt, please use a soft non-abrasive cloth and softly rub in a circular motion until the lens is clean. Excessive rubbing, use of a coarse material, or chemical may scratch or remove coating from the lens surface and cause permanent damage.

WARNING! Do not, under any circumstance attempt to view the sun through your binocular. Doing so will result in instant and permanent eye damage, as well as serious damage to your binocular.

WARRANTY AND REPAIR

Cstar Optics, Inc. is dedicated too and confident in the quality and craftsmanship of our products. Cstar Optics, Inc. is dedicated too and confident in the quality and craftsmanship of our products. Cstar Guarantees this product to be free from defects in materials and workmanship for a period of 1 Year from the original date of purchase. This telescope has a LIMITED 1 YEAR WARRANTY and is limited to the original purchaser and is non-transferable. In addition, this warranty does not apply to products purchased outside the United States of America. Repaired products will only be shipped back to United States of America addresses. Customer is responsible for all freight, duty, etc. for any items to be shipped back outside of the United States of America.

Should it become necessary to repair or replace your Cstar product, return it prepaid to:

**CSTAR OPTICS, INC.
ATTN: CUSTOMER SERVICE
15352 S. KEELER ST. UNIT-E
OLATHE, KANSAS 66062**

Include a brief note detailing the nature of the defect and a copy of the original sales invoice. A customer service agent will contact you before any parts have been replaced if the nature of the damage is not covered by our warranty. The sole obligation of Cstar Optics, Inc. under the limited warranty is to replace or repair parts on the covered product under the terms set forth.

In addition, this warranty becomes void if the covered product has been modified in design or function, or has been subjected to abuse, mishandling, or unauthorized repair. Furthermore, product malfunction or deterioration due to normal wear is not covered by this warranty.

This warranty gives you specific rights, and you may have other rights, which vary from state to state.

For Customer Service, Please call:

Toll Free: 1-877-88-CSTAR
Telephone: 913-829-1004
Fax: 913-829-7466
OR EMAIL: SERVICE@CSTAROPTICS.COM

Again, we appreciate your business, and hope you have a wonderful experience with your new Cstar Binocular.

Cstar Business Hours: Monday-Friday 8AM-5PM CST

WWW.CSTAROPTICS.COM