

Frontier ED X 8x42

SKU: 38424 • Binocular

Parts & Mechanical Features

1	Diopter
2	Hinge
3	Focus Wheel
4	Tripod Attachment
5	Twist-Up Eye Cups
6	Strap Loops

Focusing System

1	Set the diopter adjuster (1) to the center position.
2	Cover the right front lens with your hand and rotate the focusing wheel (2) until the image in the left eyepiece appears sharp.

3

Now cover the left front lens with your hand and rotate the diopter adjuster (I) until the image is sharp.

4

The binoculars have now been adjusted to your eyes. Note the diopter reading of the right eyepiece for future reference.

Neck Strap Assembly

1

From new, unloop the strap from the buckle completely.

2

Loop the strap through the buckle once.

3

Thread the strap through the strap loop on the binocular from bottom to top.

4

Loop the strap again through the buckle, passing underneath the original loop.

5

Repeat on the other side and adjust length to suit personal preference.

The ocular lens cover has a loop on one side to thread the strap through if desired.

Setup

Twist-Up Eye Cups

Eyeglass users will normally need the eye cups twisted down. Users not wearing eyeglasses should adjust the eye cups upwards for optimum eye relief.

Adjusting the Hinge

The distance between the eyes varies from one person to the next. To achieve perfect alignment of the eyes and the lens openings, hold the binocular in the normal viewing position and move the two barrels either apart or closer to each other until you have a single, clear field of view.

Specification & Terminology

Magnification

The binocular magnification is the first number in the binocular description. e.g. a 10×42 binocular has a magnification power of 10x. That is to say, the viewed image will be 10x larger than with the naked eye. While a higher magnification will make the image larger and easier to view it will also reduce the field of view and make any movement of the binoculars more exaggerated. Typically an 8 or 10x magnification power is the preferred choice, but 12x magnification is also available in some models.

Field of View (FOV)

The width of the binoculars view. A larger FOV allows for a wider image to be seen. This can be measured in terms of angle (degrees), or by a set distance. e.g. the FOV of an 8×42 binocular may be 142m wide when looking at an image 1000m away. This is equivalent to 426ft wide when looking at an image 1000yds away.

Exit Pupil

The diameter of the viewing image when the eye is positioned at the correct eye relief. This is calculated by dividing the objective lens diameter by the binocular magnification. e.g. for a 10×42 binocular we divide the objective lens diameter of 42mm by the magnification power of 10 to get 4.2mm.

Interpupillary Distance

The distance between the two ocular lenses. This is measured from the middle of one lens to the other. The interpupillary distance has a range, as the distance will change depending how open or closed the binoculars hinge is set.

Eye Relief

The correct distance for the pupil to be located from the ocular lens. When at this distance the best viewing experience will be achieved. All Hawke binoculars are fitted with adjustable twist-up eye cups to help gain the correct eye relief distance and comfortable viewing experience.

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Close Focus

The closest possible distance that the binoculars can be focused at. Binoculars with an ability to focus at close range allow for better viewing of nearby objects such as insects.

Maintaining your Binocular

- Keep lens covers on the binocular when not in use.
- When cleaning the lenses, use the lens cloth that comes with the binocular, or a soft, lintless cloth.
- To remove dirt, add one or two drops of isopropyl alcohol to the cloth.
- Store your binocular in a moisture-free area.
- Never attempt to clean your binocular internally or try to take it apart.
- Your binocular is fog and waterproof in normal weather conditions, but is not designed to be immersed in water.

Warranty

No Fault Lifetime Warranty

Hawke products are covered by our lifetime warranty. For full details and conditions or to make a claim please see hawkeoptics.com/warranty or contact your in-country distributor. **Please note:** your proof of purchase should accompany any warranty claim.

Product Registration

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