

# 34213 - VANTAGE HD 10x34

## **Binocular Setup**

### **Twist-Up Eye Cups**

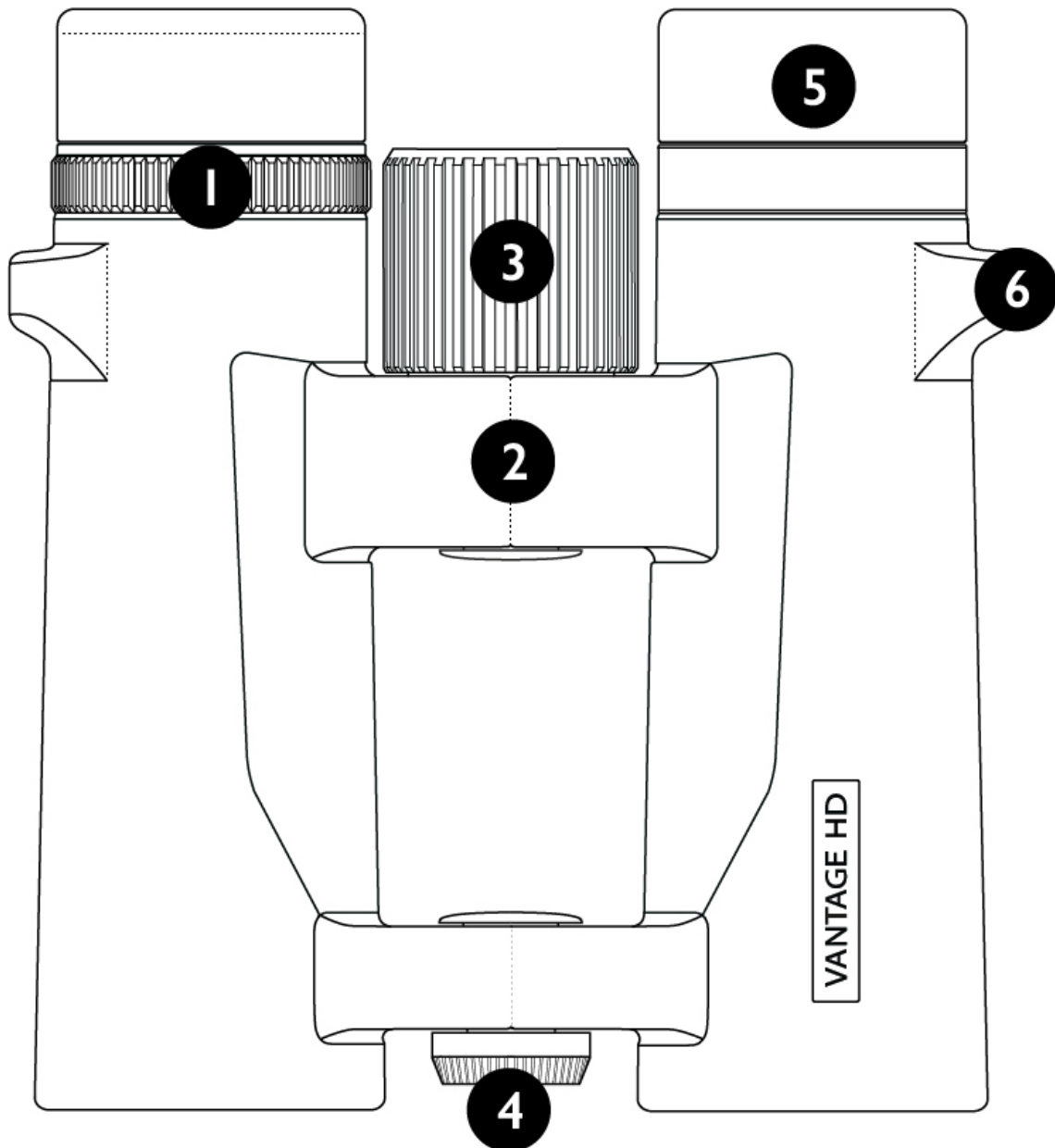
Eyeglass users will normally need the eye cups twisted down. Users not wearing eyeglasses should adjust the eye cups upwards for optimum eye relief.

### **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.

## **Parts & Mechanical Features**

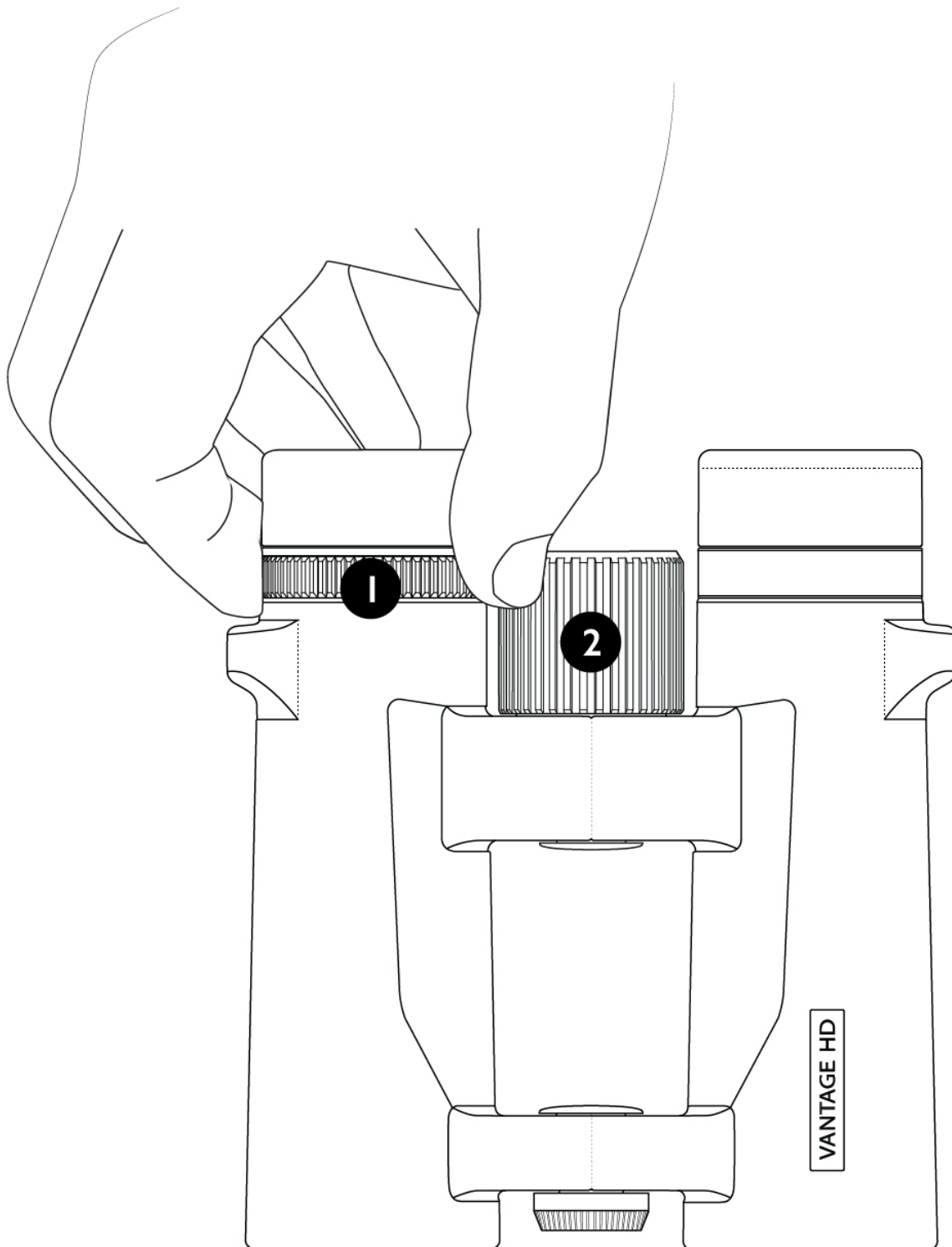
1. Diopter
2. Hinge
3. Focus Wheel
4. Tripod Attachment
5. Twist-Up Eye Cups
6. Strap Loops



## Focusing

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 (1) until the image is sharp.

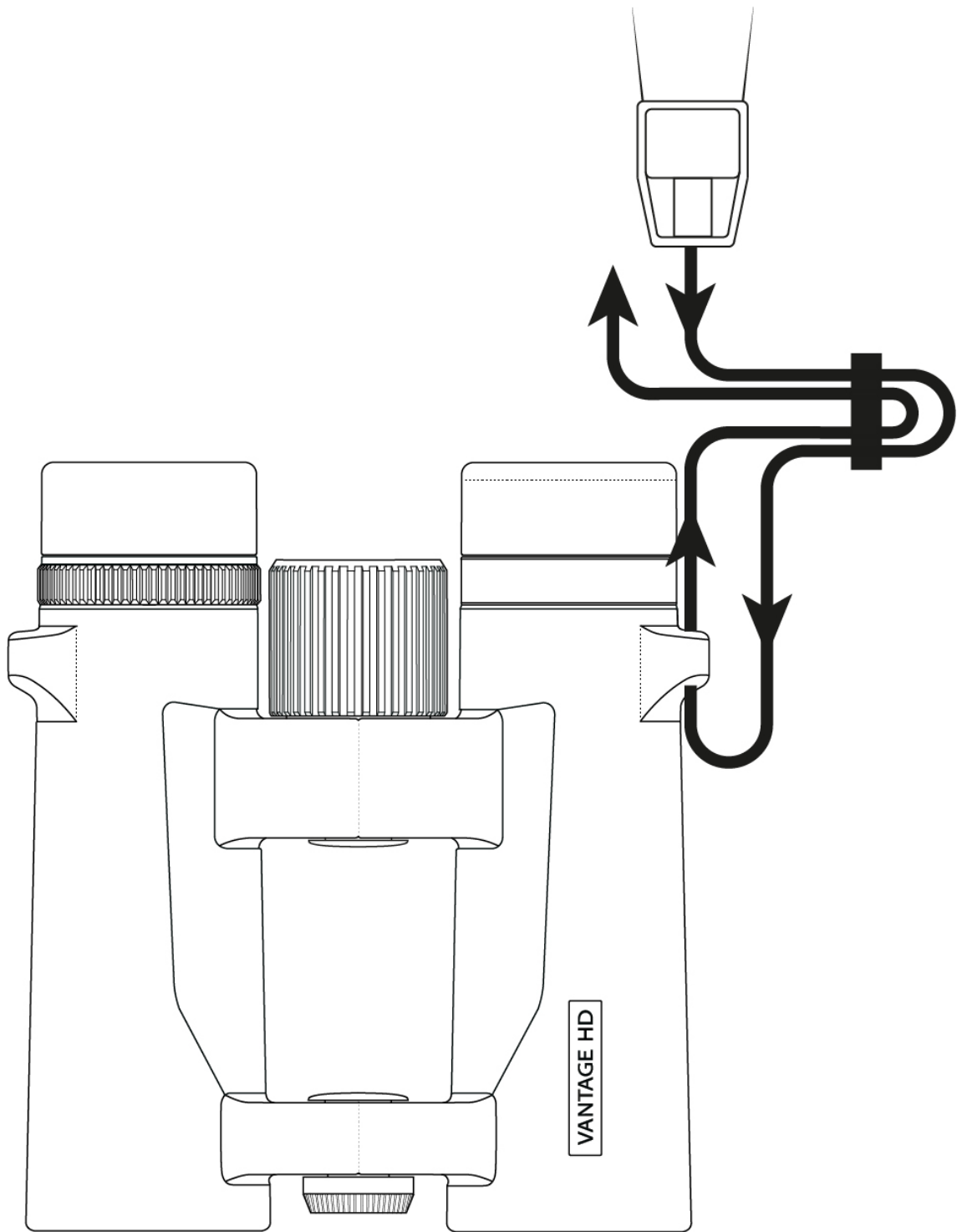
4. The binoculars have now been adjusted to your eyes. Note the diopter reading of the right eyepiece for future reference.



## Attaching the Neck Strap

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.



## 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.

## Specification & Terminology

### Magnification

The binocular magnification is the first number in the binocular description. e.g. a 10x42 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.

### Objective Lens

The objective lenses are at the front end of the binocular. The width of the objective lens relates to the second number in the binoculars description. e.g. a 10x42 binocular has a pair of objective lenses that each measure 42mm in diameter.

Larger objective lenses give better light transmission and allow for a brighter picture. A larger objective lens will allow the binoculars to be

used in lower light conditions.

## **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 8x42 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 10x42 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.

## **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.

## **Warranty**

Hawke products are covered by our lifetime warranty. For full details and conditions or to make a claim please see [hawkeoptics.com/warranty](http://hawkeoptics.com/warranty) or contact your in-country distributor.

Please note: your proof of purchase should accompany any warranty claim.

## **Product Registration**

You can register your purchase with us now at [hawkeoptics.com/registration](http://hawkeoptics.com/registration)

Hawke products are covered and/or licensed by one or more of the following registered designs, patents or are patent pending – visit [hawkeoptics.com/ip](http://hawkeoptics.com/ip)