

## What Do The Numbers Mean?

**10 x 40**

This is the magnification. You will see the object 10 times larger than with the naked eye

This is the size of the objective lens. This lens is 40mm in diameter

## Field of View

8 x 32



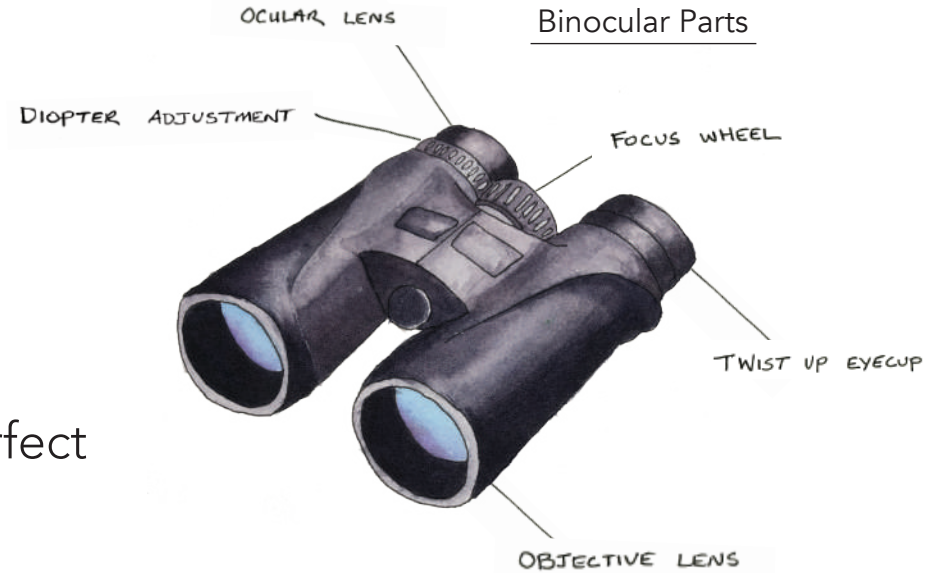
10 x 40



Increasing the magnification lets you see sharp detail from a long distance, but it also decreases the field of view.

# Choosing and Using The Perfect Binoculars For Your Outdoor Adventures

Adventuring outdoors is a joy and there is so much to be seen and experienced. A great pair of binoculars can enhance this experience and allow us to see more of what nature has to offer. Unfortunately, choosing the right pair of binoculars can be a little confusing. This short guide is designed to help cut through the confusion and help you choose a pair to suit your needs.



Your choice of binoculars is very personal and will depend on your budget and exactly how you plan to use them.

For stargazing choose a large lens diameter, for good performance in low light. For use on a boat choose lower magnification, for a more stable image.

Lower magnification	Higher magnification	Lower lens diameter	Higher lens diameter
The detail of your object is lower	Distant objects can be seen in high detail	Good performance in bright daylight but the image may appear dark in low light conditions	Image is clear and bright even in low light conditions
More stable image	Movement of your hand is magnified. You may therefore experience a shaky image	Smaller size and weight means that you are more likely to pack them when you go out for adventures	Large size and weight of the binoculars might be difficult or cumbersome to take into the field
Wide field of view	Field of view is reduced, making it harder to hold a moving subject within your sight	More affordable	Higher price



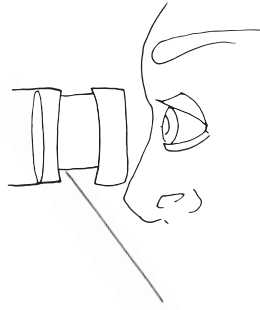
## Eye Relief

Eye relief is the optimal distance between your eye and the ocular lens. If looking from an incorrect distance you will see black areas or vignetted around the image.

If you wear glasses, be sure to look for binoculars with eye relief of 15mm or greater.



EYECUPS DOWN FOR EYEGGLASS WEARERS



EYECUPS EXTENDED FOR NO EYEGGLASSES

## Extra Things to Consider

- **Waterproofing**  
A quality pair of binoculars should be fully waterproof. This is a very useful feature as outdoor adventuring often involves water!
- **Fully multicoated**  
This means that all the optical surfaces inside the binoculars have been coated multiple times, which gives a clearer and brighter image.
- **Exit pupil**  
Exit pupil is the column of light entering your eye from the binoculars. It is calculated by dividing the size of the objective lens by the magnification. Larger exit pupil values perform better in low light conditions.

10 x 40 binocular  
40 divided by 10 = 4  
Exit pupil is 4mm

## Tips for Using your Binoculars

1. When looking for a subject, for example a bird, locate it first with the naked eye and fix your gaze on it, then move the binoculars up to your eyes. This is much easier than trying to find the bird through the binoculars.
2. Keep the strap of your binoculars fairly short. This way you will be able to get them up to your eyes and in position quickly if you see something interesting.
3. Compensate for the difference in focal ability between your own two eyes using the diopter adjustment. Our own eyes rarely focus the same as each other.

### Remember...

This adjustment is for your particular eyes. If someone borrows your binoculars they will have to make adjustments for their own eyes.

## Diopter Adjustment

- Step 1:  
Cover the right objective lens and leave the left side uncovered. Look through your binoculars.
- Step 2:  
Use the central focus wheel to adjust the view into clear focus.
- Step 3:  
Uncover the right side and cover the left. Look through the binoculars.
- Step 4:  
Now use the **diopter adjustment** to bring the image into clear focus.
- Step 5:  
Uncover both lenses and look through your binoculars. Congratulations! Your binoculars are now perfectly adjusted to your eyes.