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## VANGUARD VEO HD2 8420

# Vanguard VEO HD2 8x42 Lightweight Binocular User Manual

Model: VEO HD2 8420

## INTRODUCTION

This manual provides instructions for the proper use and maintenance of your Vanguard VEO HD2 8x42 Lightweight Binocular. Please read this manual thoroughly before using the product to ensure optimal performance and longevity. This binocular is designed for clear, detailed viewing in various outdoor conditions, featuring ED glass and a waterproof/fogproof construction.

## PACKAGE CONTENTS

- Vanguard VEO HD2 8x42 Binocular
- Neck Strap
- Carrying Case
- Objective Lens Caps
- Eyepiece Caps
- Lens Cleaning Cloth
- User Manual



Image: The Vanguard VEO HD2 8x42 binocular shown with its included accessories: neck strap, carrying case, and lens caps.

## PARTS DIAGRAM

Familiarize yourself with the components of your binocular for proper handling and adjustment.



Image: Front view of the binocular, highlighting the objective lenses and the central focus wheel.



Image: Top view of the binocular, showing the central focus wheel and the diopter adjustment ring on the right eyepiece.

1. Objective Lenses
2. Eyepieces
3. Central Focus Wheel
4. Diopter Adjustment Ring
5. Twist-up Eyecups
6. Neck Strap Lugs
7. Tripod Adapter Socket (under cap)



Image: Bottom view of the binocular, showing the tripod adapter socket with its protective cap removed.

## SETUP

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### 1. Attaching the Neck Strap

Thread the ends of the neck strap through the strap lugs on the binocular body. Secure the strap according to the instructions provided with the strap. Ensure it is firmly attached before use to prevent accidental drops.



Image: The included neck strap, designed for comfortable carrying of the binocular.

## 2. Adjusting Interpupillary Distance (IPD)

Hold the binoculars with both hands and look through the eyepieces. Bend the binocular body at the hinge until you see a single, clear circular field of view. This adjusts the distance between the eyepieces to match the distance between your eyes.



Image: The Vanguard VEO HD2 8x42 binocular, illustrating its compact design.

## 3. Adjusting Eyecups

The VEO HD2 features three-stage twist-up eyecups for comfortable viewing with or without eyeglasses.

- For users without eyeglasses, twist the eyecups counter-clockwise until they are fully extended.
- For users with eyeglasses, twist the eyecups clockwise until they are fully retracted. This allows your eyes to be closer to the lenses, providing a full field of view.
- Intermediate positions can be used for fine-tuning comfort and eye relief.



Image: Close-up view of the binocular's eyecups, showing the twist-up mechanism for eye relief adjustment.

## OPERATING THE BINOCULAR

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### 1. Focusing

1. Close your right eye and look through the left eyepiece. Rotate the central focus wheel until the image is sharp and clear.
2. Close your left eye and look through the right eyepiece. Rotate the diopter adjustment ring (located on the right eyepiece) until the image is sharp and clear.
3. Now, with both eyes open, use only the central focus wheel to focus on objects at varying distances. The diopter setting should only need to be adjusted once for your vision.



Image: Detailed view of the diopter adjustment ring on the right eyepiece, marked with '+' and '-' symbols for correction.

## 2. Tripod Mounting (Optional)

For extended viewing or increased stability, the binocular can be mounted on a tripod using a binocular tripod adapter (sold separately).

1. Unscrew the cap located at the front of the central hinge to reveal the tripod adapter socket.
2. Screw the binocular tripod adapter into this socket.
3. Attach the adapter to your tripod's quick-release plate or head.



Image: The Vanguard VEO HD2 8x42 binocular shown mounted on a tripod using a binocular adapter, demonstrating stable viewing.

## MAINTENANCE

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### Cleaning Lenses

Use the provided lens cleaning cloth or a soft, lint-free cloth. Gently wipe the lens surfaces to remove dust or smudges. For stubborn marks, use a specialized optical lens cleaning fluid applied to the cloth, not directly to the lens. Avoid abrasive materials or excessive force, as this can damage the lens coatings.

### Storage

When not in use, store the binocular in its protective carrying case in a cool, dry place. Ensure all lens caps are in place to prevent dust accumulation and scratches. Avoid prolonged exposure to direct sunlight or extreme temperatures, which can affect optical performance and material integrity.



Image: The binocular with its protective carrying case and neck strap, ready for storage or transport.

## TROUBLESHOOTING

- **Blurred Image:** Ensure both the central focus wheel and diopter adjustment ring are correctly set for your vision. Check that eyecups are adjusted for your use (extended for non-eyeglass wearers, retracted for eyeglass wearers).
- **Double Image:** Adjust the interpupillary distance by bending the binocular body at the hinge until a single circular field of view is achieved.
- **Dust on Lenses:** Gently brush off loose dust with a soft brush or blow with a lens blower. Use the provided cleaning cloth for smudges. Avoid wiping dry lenses vigorously.

If issues persist after following these steps, please contact Vanguard customer support for further assistance.

## SPECIFICATIONS

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| Feature                  | Specification  |
|--------------------------|--|
| Magnification            | 8x   |
| Objective Lens Diameter  | 42mm   |
| Field of View            | 372 ft / 1000 yards  |
| View Angle               | 7.1 degrees  |
| Near Focus               | 6.6 feet   |
| Eye Relief               | 19 mm  |
| Weight                   | 25 ounces (approx. 0.71 kg)  |
| Dimensions (Product)     | Approx. 5.7 x 5.1 x 2.2 inches (based on typical 8x42 binocular size, not packaging) |
| Glass Type               | HOYA Extra-low Dispersion (ED) Glass   |
| Coatings                 | Fully Multi-Coated Lenses, Phase-Corrected BaK4 Prisms                               |
| Environmental Protection | Waterproof, Fogproof   |

## WARRANTY AND SUPPORT

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For detailed warranty information and customer support, please visit the official Vanguard website or contact your local authorized distributor. It is recommended to keep your purchase receipt as proof of purchase for any warranty claims.

Online resources, including FAQs and additional product information, may be available at [www.vanguardworld.com](http://www.vanguardworld.com).