

Nikon 16028

Nikon Monarch HG 10x42mm Binocular Instruction Manual

Model: 16028

1. INTRODUCTION AND OVERVIEW

The Nikon Monarch HG 10x42mm Binocular is engineered for exceptional clarity, durability, and precise field handling. It features an advanced optical system designed to provide high-resolution, color-accurate images across a wide field of view. This manual provides essential information for the proper setup, operation, and maintenance of your binocular.



Figure 1: Front view of the Nikon Monarch HG 10x42mm Binocular.

Key Features:

- **Field Flatteners Lens System:** Ensures sharp, clear images from the center to the periphery of the field of view.
- **Extra-low Dispersion (ED) Glass:** Minimizes chromatic aberration for high-resolution, high-contrast images with natural color fidelity.
- **Fully Multilayer-Coated Lenses and Prisms:** Enhances light transmission for brighter views.
- **Dielectric High-Reflective Multilayer Prism Coating:** Provides consistently high light transmittance across the visible spectrum.
- **Phase-Correction Coating:** Applied to roof prisms for high-resolution images.
- **Lightweight Magnesium Alloy Body:** Offers strength, impact resistance, and portability.
- **Waterproof and Fogproof Construction:** Nitrogen-filled and O-ring sealed, submersible up to 5m (16.4 ft) for 10 minutes, preventing internal fogging in varying temperatures and altitudes.
- **Scratch-Resistant Coatings:** Protects objective and eyepiece lenses.
- **Long Eye Relief Design:** Provides comfortable viewing, especially for eyeglass wearers.
- **Turn-and-Slide Rubber Eyecups:** Adjustable for optimal eye position.
- **Diopter Adjustment Ring Locking System:** Prevents accidental changes to diopter settings.
- **Tripod Adaptable:** Features a tripod thread for stable viewing.

2. WHAT'S IN THE BOX

Upon unpacking your Nikon Monarch HG 10x42mm Binocular, please ensure all components are present:

- Nikon Monarch HG 10x42mm Binocular
- Carrying Case
- Neck Strap
- Objective Lens Caps
- Eyepiece Caps



Figure 2: Included accessories with the Nikon Monarch HG 10x42mm Binocular.

3. SETUP AND INITIAL ADJUSTMENTS

3.1 Attaching the Neck Strap

Thread the neck strap through the strap lugs on the binocular body. Ensure it is securely fastened to prevent accidental drops.

3.2 Adjusting Interpupillary Distance

Hold the binocular with both hands and look through the eyepieces. Adjust the distance between the two barrels until you see a single, circular field of view. This ensures proper alignment with your eyes.

3.3 Adjusting Eyecups

The Monarch HG features turn-and-slide rubber eyecups. Rotate the eyecups up or down to achieve the optimal eye relief. If you wear eyeglasses, keep the eyecups fully retracted. If you do not wear eyeglasses, extend the eyecups to a comfortable position that blocks out peripheral light.



Figure 3: Rear view of the binocular, highlighting the adjustable eyecups.

3.4 Diopter Adjustment

The diopter adjustment compensates for differences in vision between your left and right eyes. To adjust:

1. Close your right eye or cover the right objective lens.
2. Look through the left eyepiece with your left eye and rotate the center focus wheel until the image is sharp.
3. Close your left eye or cover the left objective lens.
4. Look through the right eyepiece with your right eye and rotate the diopter adjustment ring (located on the right eyepiece) until the image is sharp.
5. Once adjusted, lock the diopter ring by pushing it inwards.



Figure 4: Side view of the binocular, indicating the focus wheel and diopter adjustment ring.

4. OPERATING INSTRUCTIONS

4.1 Focusing

After performing the initial diopter adjustment, use the large center focus wheel to bring objects into sharp focus. The Field Flattener Lens System ensures that the entire field of view remains sharp from edge to edge.

4.2 Optical Performance

The Monarch HG binoculars utilize ED (Extra-low Dispersion) glass elements and multi-layer coatings to deliver bright, high-contrast images with true-to-life colors. This minimizes chromatic aberrations (color fringing) and provides a clear, detailed view.



Figure 5: Close-up of the objective lenses, showcasing the optical quality.

4.3 Tripod Mounting

For extended observation periods or to achieve maximum stability, the Monarch HG binoculars are tripod adaptable. A tripod thread is located in the center of the binocular body. Remove the cap covering the thread and attach a compatible tripod adapter (sold separately) to mount the binocular onto a tripod or hide clamp.

4.4 Official Product Video: Using the Monarch HG

Video 1: This video provides a detailed guide on using the Nikon Monarch HG binoculars, covering various features such as the Field Flatteners Lens System, ED glass, lightweight design, waterproof/fogproof construction, scratch-resistant coatings, built-in lens caps, and tripod mountability. It highlights how these features contribute to superior optical performance and user comfort for wildlife and nature observation.

5. MAINTENANCE

5.1 Cleaning Lenses

To clean the lenses, first, gently brush off any dust or debris using a soft lens brush or a can of compressed air. Then, use a clean microfiber lens cloth and a small amount of lens cleaning fluid (specifically designed for optics) to wipe the lenses in a circular motion. Avoid using harsh chemicals or abrasive materials, as these can damage the coatings.

5.2 Cleaning Body

Wipe the binocular body with a soft, damp cloth. For stubborn dirt, a mild soap solution can be used, followed by wiping with a clean, damp cloth and then drying thoroughly. Do not use solvents or strong detergents.

5.3 Storage

Store your binocular in its provided carrying case in a cool, dry place when not in use. Avoid exposing it to extreme temperatures or high humidity for prolonged periods. Ensure lens caps are in place to protect the optics from dust and scratches.

5.4 Waterproof and Fogproof Care

While the Monarch HG is waterproof and fogproof, it is important to ensure all caps and covers are properly

sealed before exposure to water or humid environments. After exposure to water, wipe the binocular dry with a soft cloth.

6. SPECIFICATIONS

Brand	Nikon
Model Name	MONARCH HG
Model Number	16028
Magnification Maximum	10x
Objective Lens Diameter	42 Millimeters
Prism Type	Roof Prism
Eye Relief	17 Millimeters
Exit-Pupil Diameter	4.2 Millimeters
Field of View	121 Meters
Water Resistance Level	Waterproof
Item Weight	1.5 Pounds
Item Dimensions L x W	5.7"L x 5.2"W
Material	Glass (Enclosure Material)
Color	Black

7. WARRANTY AND SUPPORT

7.1 Warranty Information

The Nikon Monarch HG 10x42mm Binocular comes with a Standard Warranty. For detailed information regarding warranty coverage, terms, and conditions, please refer to the official Nikon warranty documentation included with your product or visit the official Nikon website.

7.2 Customer Support

For any questions, technical assistance, or service inquiries, please contact Nikon Customer Support. You can find contact information and additional resources on the official Nikon website: www.nikonusa.com