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## KAHLES Helia 1-5x24i

# KAHLES Helia 1-5x24i Riflescope User Manual

Model: Helia 1-5x24i

## 1. INTRODUCTION

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This user manual provides comprehensive instructions for the proper use, setup, operation, and maintenance of your KAHLES Helia 1-5x24i Riflescope. The Helia series is designed for precision and reliability, offering exceptional optical performance for hunting applications. Please read this manual thoroughly before using your riflescope to ensure safe and optimal performance.

## 2. SAFETY INSTRUCTIONS

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Always prioritize safety when handling firearms and optical equipment. Failure to follow these instructions may result in injury or damage to the product.

- Never look directly at the sun or any intense light source through the riflescope, as this can cause permanent eye damage.
- Ensure the firearm is unloaded and safe before mounting or adjusting the riflescope.
- Always follow local laws and regulations regarding firearm and hunting equipment use.
- Keep the riflescope out of reach of children.
- Handle the riflescope with care to prevent drops or impacts that could damage the optical system or internal components.

## 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- KAHLES Helia 1-5x24i Riflescope
- Protective lens caps
- Cleaning cloth
- User manual (this document)
- Warranty card

## 4. SETUP AND INSTALLATION

## 4.1 Mounting the Riflescope

Proper mounting is crucial for accuracy and consistent performance. Use high-quality 30mm rings or a compatible SR-rail mount (if applicable) that are appropriate for your firearm.

1. Ensure the firearm is unloaded and pointed in a safe direction.
2. Attach the mounting rings or SR-rail to your firearm's receiver according to the mount manufacturer's instructions.
3. Place the riflescope into the lower half of the rings, ensuring the reticle is level.
4. Position the riflescope for optimal eye relief. This is the distance between your eye and the eyepiece when you have a full, clear field of view. Typically, this is around 95mm for the Helia 1-5x24i.
5. Secure the top halves of the rings, tightening screws evenly and to the torque specifications provided by the ring manufacturer. Do not overtighten.



Figure 1: Front angled view of the KAHLES Helia 1-5x24i Riflescope, showing the objective lens and magnification ring.



Figure 2: Side view of the KAHLES Helia 1-5x24i Riflescope, illustrating the option for SR-rail mounting.

## 4.2 Diopter Adjustment

The diopter adjustment compensates for individual eyesight differences, ensuring the reticle appears sharp and clear.

1. Point the riflescope at a plain, bright background (e.g., a clear sky or a plain wall).
2. Look through the scope and quickly glance away.
3. While looking away, adjust the diopter ring (located at the eyepiece) until the reticle appears perfectly sharp the instant you look through the scope.
4. Avoid staring through the scope for too long during adjustment, as your eye may compensate for blurriness.

## 4.3 Zeroing the Riflescope (Windage and Elevation)

Zeroing aligns the point of impact with the point of aim. This process should be performed at a shooting range following all safety protocols.

1. Set up a target at a known distance (e.g., 50 or 100 meters/yards).
2. Fire a group of shots (e.g., 3 shots) while aiming at the center of the target.

3. Observe the point of impact relative to your aim point.
4. Adjust the elevation turret (top) to move the point of impact up or down. Turn the turret in the direction indicated to move the impact point. Each click adjusts the impact by 10 mm at 100 m (0.36 inch at 100 yds).
5. Adjust the windage turret (side) to move the point of impact left or right. Turn the turret in the direction indicated to move the impact point.
6. Repeat firing and adjusting until the point of impact consistently matches your point of aim.



Figure 3: Top view of the KAHLES Helia 1-5x24i Riflescope, highlighting the elevation and windage adjustment turrets.

## 4.4 Illuminated Reticle Operation

The Helia 1-5x24i features an extra-bright day/night illuminated reticle with intelligent automatic switch-off.

- The illumination control is typically integrated into the parallax or windage turret.
- Rotate the control to turn the illumination on and adjust its brightness.
- The intelligent automatic switch-off feature conserves battery life by turning off the illumination when the riflescope is not in use or is held at extreme angles. It will reactivate when the scope is brought back to a normal viewing position.
- To replace the battery, unscrew the battery cap on the illumination module. Use the specified battery type (e.g., CR2032).

## 5. OPERATING INSTRUCTIONS

### 5.1 Magnification Adjustment

The Helia 1-5x24i offers a variable magnification range from 1x to 5x.

- Rotate the magnification ring (located near the eyepiece) to increase or decrease the magnification.
- At 1x magnification, the scope provides a true 1x view, allowing for irritation-free viewing with both eyes open, ideal for driven hunts.



Figure 4: Rear angled view of the KAHLES Helia 1-5x24i Riflescope, highlighting the magnification adjustment ring.

### 5.2 Focusing

Once the diopter is set for your eye, the riflescope is designed to be parallax-free at typical hunting distances. Objects at various distances should appear clear across the magnification range.

## 5.3 Using the Reticle

The reticle is located in the second focal plane (SFP), meaning its apparent size remains constant regardless of the magnification setting. This ensures that the subtensions of the reticle change relative to the target as magnification is adjusted.

## 6. MAINTENANCE AND CARE

Proper care will ensure the longevity and performance of your KAHLES riflescope.

- **Cleaning Lenses:** Use the provided cleaning cloth or a high-quality optical cleaning kit. First, gently brush off any loose dust or debris. Then, use a lens cleaning solution and a clean microfiber cloth to wipe the lenses in a circular motion from the center outwards. Avoid using harsh chemicals or abrasive materials. The lenses are OILPHOBIC coated for easier cleaning.
- **Cleaning Body:** Wipe the riflescope body with a soft, damp cloth. Avoid solvents or strong detergents.
- **Storage:** Store the riflescope in a cool, dry place, preferably in its original packaging or a protective case. Avoid extreme temperatures and high humidity.
- **Water Resistance:** The riflescope is designed to be waterproof, but avoid prolonged submersion. Always dry the scope thoroughly after exposure to moisture.

## 7. TROUBLESHOOTING

If you encounter issues with your riflescope, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Blurry image / Reticle not sharp	Incorrect diopter setting	Re-adjust the diopter (Section 4.2).
Point of impact shifts	Loose mounting rings or rail; damaged scope	Check and re-torque mounting screws. If problem persists, contact KAHLES support.
Illuminated reticle not working	Low or dead battery; illumination turned off	Check illumination setting. Replace battery if necessary.
Fogging inside lenses	Extreme temperature change; seal compromise	Allow scope to acclimate. If persistent, contact KAHLES support.

If the issue persists after attempting these solutions, please contact KAHLES customer support.

## 8. SPECIFICATIONS

Key technical specifications for the KAHLES Helia 1-5x24i Riflescope:

Feature	Value
Magnification	1 - 5x
Objective Lens Diameter	24 mm
Field of View	42.4 - 8.1 m/100 m

Feature	Value
Eye Relief	95 mm
Diopter Compensation	+2 / -3.5 dpt
Twilight Factor (DIN 58388)	3.0 - 11.0
Impact Correction per Click	10 mm (100 m) / 0.36 inch (100 yds) / 0.1 MIL
Adjustment Range (E/W)	2.5 / 2.5 m
Tube Diameter	30 mm
Length	278 mm
Weight	475 g
Weight including SR-rail	499 g
Reticle in Focal Plane	2 (Second Focal Plane)
Illuminated Reticle	Yes (Day/Night with intelligent auto-off)
Material	Aluminium

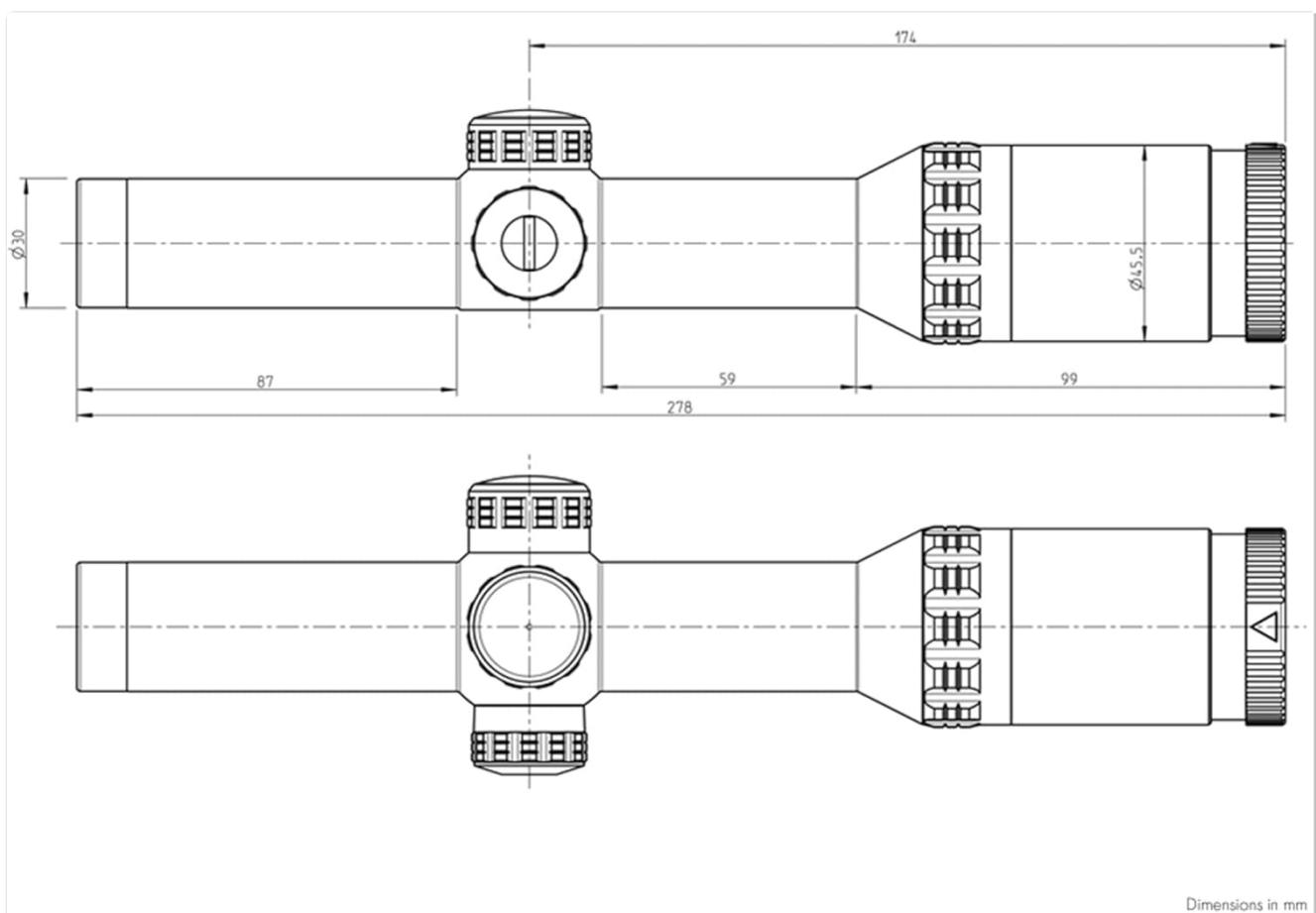


Figure 5: Technical drawing illustrating the dimensions of the KAHLES Helia 1-5x24i Riflescope in millimeters.

## 9. WARRANTY AND SUPPORT

KAHLES stands behind the quality of its products. The Helia 1-5x24i Riflescope comes with a **10-year warranty**.

For warranty claims, technical assistance, or any other inquiries, please contact KAHLES customer support through their official website or authorized service centers. Retain your proof of purchase for warranty validation.

For more information, visit the official KAHLES website: [www.kahles.at](http://www.kahles.at)