

# **MINOX**

**Bedienungsanleitung  
Instructions  
Mode d'emploi**

## **MINOX ZE 5i**

**ZE 5i 2-10x50 / ZE 5i 3-15x56 SF**

**Zielfernrohre  
Riflescopes  
Lunettes de visée**

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## Welcome to MINOX!

You're about to join those who have long revered MINOX as an exceptional value in performance sport optics – that rare, understated blend of extraordinary features, quality, and durability for a surprisingly affordable investment.

This scope was developed, engineered and assembled in Germany, giving it the “**Made in Germany**” seal of approval.

This user guide is intended to provide you with the information you need to take full advantage of the many features we've built into your MINOX ZE 5i riflescope. Information on proper adjustment, care and troubleshooting is included.

Please read all information before starting!

Thorsten Kortemeier  
Managing Director

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## Know Your Scope

1. Objective Lens
2. Parallax Control (ZE 5i 3-15x56 SF)
3. Red Dot Adjustment Wheel
4. Battery Compartment
5. Ocular
6. Diopter Adjustment
7. Variable Power Ring
8. Elevation Adjustment
9. Windage Adjustment

## Mounting

**Note:** We strongly recommend having your scope mounted by a qualified gunsmith or professional workshop to ensure that the gun and riflescope are properly aligned.

## Focusing the Reticle

The reticle should be in sharp focus when looking through the scope from approximately 4 inches (10 cm).

1. Firmly place the firearm with scope mounted on a rest.
2. If the reticle appears to be out of focus, turn the ocular ring to the left or right until the reticle is in sharp focus.
3. Glance through the scope while pointing at a blank background such as a wall or the sky.

**Note:** Do not stare through the scope, as this will cause your eye to attempt bringing the reticle into focus when it actually is not, causing eye strain.

4. If your eyesight changes over time, remember to refocus the reticle.

## Magnification Adjustment

**Please note:** Never use your MINOX rifle-scope as a substitute for binoculars or to watch another person.

To change the magnification of the target, adjust the variable power ring located on the front of the eyepiece. The size of the reticle will not change.

## Parallax Adjustment

(ZE 5i 3-15x56 SF)

Parallax error – the aim on the scope seemingly changing as the position of your eye changes especially at higher magnifications – is created when the image of the target is not focused in the same plane as the reticle. If they are in the same plane, moving your eye up and down or side to side will not change the position of the reticle in relationship to the target. If they are not in the same plane, shifting your eye will cause the position of the reticle to move in relationship to the target image. This can result in inaccuracy, particularly at higher magnifications or over greater target distances.

To correct this effect, MINOX has included a side focus to manually adjust the scope for

the shooting range, ensuring the target image and the reticle remain focused in the same image plane.

1. Be sure the reticle is in sharp focus prior to adjusting the parallax control.
2. Measure or estimate the target distance and adjust the parallax control to the corresponding calibration (in meters). Note: these values are approximate.
3. Look through the scope to confirm that the parallax shift has been eliminated. To fine tune the adjustment, look through the scope and slightly adjust the parallax control (side focus) while slowly moving your head up and down. When the target no longer moves behind the reticle, the parallax shift has been eliminated.



Fig.1

**Parallax Control**

*ZE 513-15x56 SF*

## Elevation and windage adjustments

**Please note:** If the differences between the impact points are too great, the rifle-scope mounting should be corrected.

To improve the point of impact, make necessary corrections using the elevation and windage adjustments (Fig. 1).

After removing the caps counter-clockwise, the markings and reference points are now visible. The knobs can be turned in both directions – each audible click will move the point of impact 1 cm at 100 m.

**Note:** Once the desired point-of-impact has been achieved, both the Elevation and Windage knobs can be reset to "zero" by loose-

ning the knobs and adjusting the knobs back to the zero position. Once tightened, the adjustments can now be utilized to "dial" desired "hold off" to compensate for bullet drop and distance or bullet drift due to wind.

## Illuminated reticle

### Inserting the batteries

Your MINOX ZE 5 i riflescope is equipped with an illuminated reticle and is powered by a CR 2032 battery, two of which are included in the scope of delivery. Looking towards the front of the riflescope, the lighting unit can be found on the left of the center tube (Fig. 2).

- 1) Turn the battery cover counter-clockwise until opened. Here you will find the battery holder for both the active and spare batteries (Fig. 3).

Fig. 2 (ZE 5i3-15x56 SF)



Fig.3  
Battery holder with 2x CR 2032,  
3 Volt batteries





- 2) Insert both batteries into the holder with the "+" poles facing each other and then insert it into the battery compartment.
- 3) Close the compartment by turning the battery cover clockwise until snug.

**Please Note:** Your MINOX ZE 5i riflescope offers the exceptional advantage of having a spare battery with you at all times. The practical battery holder not only holds the active battery in place, but accommodates a spare battery for quick replacement if the need should arise.

### Setting the illuminated dot

Turning the illuminated dot on and off can be accomplished using the brightness level adjustment ring (Fig. 4). The red dot is off when the 0 is aligned with the white dot on the tube

(Fig. 4). Turn the ring to level 1 to activate the red dot in the reticle. The brightness of the red dot can be set by turning the ring – 1 is the dimmest and 11 the brightest level.

The red dot is deactivated at every position between the brightness levels on the adjustment ring (Fig. 5). This innovative feature allows for:

- a) quick deactivation of the red dot when not needed
- b) quick reactivation of the red dot to the previously set brightness level for fast aiming when required.

**Note:** To increase battery life, turn the red dot off when not needed. The illuminated dot in the reticle of your MINOX ZE 5i automatically deactivates itself after approximately 3 hours.

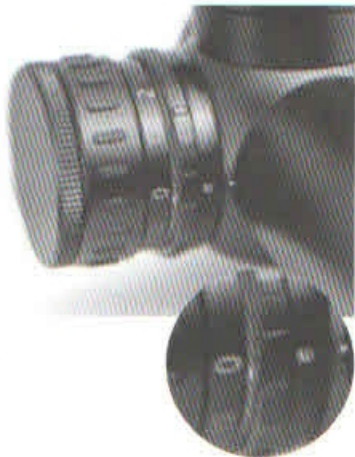


Fig.4

### Low battery indicator

If the battery is low on power, the red dot will blink three times in a row immediately after activating the illuminated reticle. This means that the battery should be changed. The red dot will also blink three times when switching between brightness levels.

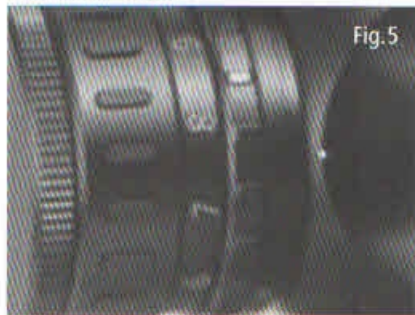


Fig.5

## Changing the batteries

Turn the red dot off (e.g. brightness level to 0). Turn the battery cover counter-clockwise until opened. Remove the battery holder (Fig. 3) and then the dead battery (the battery towards the tube of the riflescope). Turn the battery holder around so that the fresh battery is towards the riflescope tube and reinsert it.

**Note:** A second battery must be in the battery holder at all times to ensure proper contact with the metal contacts.

Close the compartment by turning the battery cover clockwise until snug.

### Note:

- Please use only CR2032, 3 V Lithium batteries.
- To avoid battery leakage, please remove the batteries if the scope will not be used over a longer period of time.



**Note:** This device contains disposable batteries. Please dispose the batteries at a designated battery collection point. Further information can be obtained in your community or at the retailer where you purchased your riflescope.

## Care and Maintenance

MINOX has engineered extraordinary durability into every riflescope we build. However, they are still precision optical instruments and reasonable care should be taken to ensure optimal performance.

Do not disassemble your scope in any way as this could damage the seal which makes the scope water- and fog-proof.

Transport your scoped firearm in a padded gun case. In the field, protect your scope from excessive impact. When cleaning your firearm, cover the lenses of your scope to prevent accidental contact with cleaning solutions.

Clean the scope periodically by wiping the housing with a clean soft cloth.

## Troubleshooting

### Accuracy Problems

Accuracy is affected by many variables, including variations inherent in different firearms. For inconsistent or excessively large groups, double groups, stringing or flyers, here are important items to check:

1. Check all mounting components and screws for tightness. These account for most common accuracy problems.
2. Ensure that the parallax adjustment is calibrated in accordance with the shooting distance (ZE 5i 3-15x56 SF).
3. Check to ensure firearm barrel and chamber are clean and free of copper fouling, as these can affect accuracy.
4. Allow the barrel to cool between repeated shots.

5. Ensure that the receiver screws and all connections are not loose.
6. Ensure ammunition is consistent. Use identical ammunition for all sight-in procedures. Also, many firearms will shoot one type of ammunition more accurately than another.
7. Shoot from an appropriate, solid rest.
8. If items 1-7 are ok, have a gunsmith check the following:
  - Warped stock or bedding
  - Erosion of barrel or chamber throat
  - Excessive trigger pull
2. Extreme elevation problems may require a metal shim under the front or back of the mounting base.
3. Extreme windage problems may require use of windage-adjustable rings to properly position the scope.

### **Eye Relief Problems**

This problem is seldom encountered with a MINOX scope because of its precision design and manufacture.

However, eye relief may be a problem if another individual is allowed to use your firearm and scope. Also, extremely short- or long-action rifles, or firearms with unusual mounting placement may require use of extension bases or rings to move the scope further backwards or forwards to achieve proper eye relief.

### **Sighting-In Problems**

1. To get on the target, bore-sight the rifle or shoot from close range. Then make necessary adjustments from the initial bullet impacts.

## Fogging

Internal lens surface fogging is the result of broken seals allowing moisture to enter the scope. If the seal has failed under normal use, MINOX will repair or replace the scope in accordance with the MINOX warranty terms. However, fogging is most commonly the result of scope disassembly, which is not covered by the MINOX warranty. With any internal fogging, return the scope to your authorized MINOX dealer or the MINOX service center for repair.

External lens surface fogging is a common problem under the right temperature and humidity conditions. It cannot be avoided. Anti-fogging solutions may offer some relief, but simply wiping with a clean cloth is the most effective treatment. Avoid breathing on the eyepiece lens in cold weather.

## Serial Number

The serial number can be found on the underside of the riflescope. Enter this serial number into the online registration form for the MINOX Comfort Service at [www.minox.com/service](http://www.minox.com/service).

## Service

Avoid unnecessary expense and delays by first checking all the user information and troubleshooting suggestions before returning your scope for service. If service is required, follow these instructions to send your MINOX scope directly to the service center:

1. Pack the scope with adequate packing materials to prevent damage.
2. Ship your scope prepaid and insured to your authorized MINOX dealer or local MINOX distributor.

**USA / Canada:**

MINOX USA  
Sport Optics Repair  
741 Main Street  
Claremont, NH 03743

**GB:**

MINOX GB Ltd,  
960 Capability Green  
Luton, LU1 3PE  
Bedfordshire

**Germany:**

MINOX GmbH  
Walter-Zapp-Str. 4  
D-35578 Wetzlar

Please send your MINOX riflescope to authorized dealers in all other countries. You can find these addresses under:

[www.minox.com/service](http://www.minox.com/service)

3. Include a detailed description of the problem along with a copy of the original sales receipt.

## Conditions of Warranty

With the purchase of this MINOX riflescope you have acquired a product that has been manufactured and inspected in accordance with especially high quality standards.

For this product we provide a legal warranty of 2 years, in accordance with the following regulations from the day of purchase at an authorized dealer:

- 1) During the warranty period we shall compensate complaints based on faulty manufacture with repair, replacement of defective parts or by replacement with an identical flawless product at our own discretion. Consequential claims, regardless of manner or legal argument in connection with this warranty, will not be accepted.
- 2) Claims under warranty are null and void if the defect has been caused by improper handling – which also can include the combined use of non MINOX accessories – if the MINOX product is serviced by unauthorized persons or workshops, or if the serial number has been made unreadable.
- 3) Warranty claims can only be made by submission of the printed receipt as proof of purchase from an authorized dealer.
- 4) When submitting claims under warranty, please return the MINOX riflescope together with the proof of purchase and a description of the complaint to MINOX GmbH in Germany, or the nearest MINOX dealer.
- 5) Tourists may, if necessary, make use of the MINOX dealer in the country in which they



are travelling (within the warranty terms of MINOX GmbH) by presenting the printed proof of purchase.

### **Extended MINOX Warranty Service**

Take advantage of the extended MINOX product warranty and register your MINOX product. Find out more at [www.minox.com/service](http://www.minox.com/service).