



# **MINOX**

## **MINOX NV mini**

**Anleitung**

**Instruction**

**Mode d'emploi**

## Minox NV mini

- Deutsch
- English
- Français



### Achtung! Attention!

Entfernen Sie bitte **niemals** bei Tageslicht den Objektivschutzdeckel.

**Never** remove the lens cap in daylight.

N'enlevez **jamais** le couvercle de l'objectif en plein jour.

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## **Introduction**

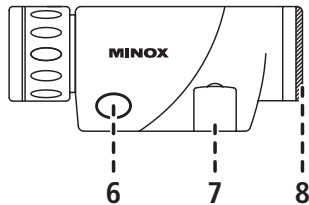
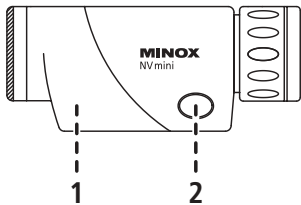
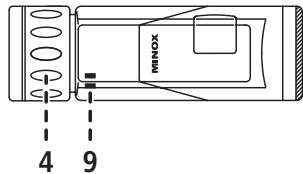
Dear MINOX Customer,

Congratulations on your purchase of this night vision 'scope. You have chosen a product that boasts highest optical quality and precision mechanics.

This User's Manual will advise you on how to obtain the best performance results from your MINOX night vision 'scope.

We hope this night vision 'scope will give you a great deal of pleasure and always keep you perfectly in the picture!

# MINOX NV mini



## Get familiar with your night vision 'scope

### Control elements

1. Housing
2. Main power switch
3. Objective lens
4. Eyepiece and focusing ring
5. Infrared illuminator
6. Infrared illuminator power switch
7. Battery compartment
8. Lens cap\*
9. Carrying strap position held

\*never remove in daylight!

## General information

This top quality optical-electronic product is fitted with a Generation 1+ residual light amplifier. The field of use includes observation and orientation aid in twilight, moonlight, starlight or darkness (in combination with the infra-red illuminator). The temperature range is from  $-30^{\circ}$  to  $+50^{\circ}$  C /  $-22^{\circ}$  to  $+122^{\circ}$  F. With its compact dimensions it is easy to handle and ready for use at any time. When used and cared for correctly this night vision 'scope guarantees satisfactory operation for many years.

## **Operating instructions**

### **For use in daylight**

#### **Inserting the battery**

Please ensure that the lens of your Night-Vision scope is covered by the lens cap. Remove the battery compartment lid and insert the battery (1 CR 1/3 N). Always observe correct poling. Fully close the battery compartment again.

#### **Switching on**

To protect the sensitive image tube against irreparable damage, never remove the lens

cap in daylight. The small opening in the center of the cap is adequately dimensioned for daylight use.

Actuate the main switch. The green LED display lights up. When you look through the eyepiece you will see a bright, green, fluorescing image.

#### **Switching off**

Actuate the main switch. When you look through the eyepiece you will still see the green image for a few minutes, before it disappears. This is normal and not a fault, because the Night-Vision scope always switches off gradually.

## **For use at night**

### **Switching on**

Remove the lens cap. Actuate the main switch and hold it down. The green LED lights up. When you look through the eyepiece you will see a green, fluorescing image.

### **Adjustment**

Aim at an object situated at a distance of 20 to 30 m (22 to 33 yds). Turn the focusing ring on the eyepiece to get a sharp image. Then turn the front focusing ring to make the image sharper still. Repeat this procedure if necessary.

## **Infrared illuminator**

By actuating the button for the infrared illuminator in addition to the main power button you can achieve a better imaging result in inadequate light. Hold this switch down as well to make the image appear brighter.

### **Switching off**

As soon as you let go of the main power button the device gradually switches off. You will see the green image for a few more minutes before it disappears. This function is normal and is not a cause for a complaint.



Important note:

For longer battery service life we recommend you not to leave the Night-Vision scope switched on continuously. It is better to switch it off every now and again.

## **Safe keeping**

Please protect the lens with the lens cover at all times.

## **Important information**

To avoid irreparable damage to your MINOX night vision 'scope, please always observe the following instructions:

- Never remove the lens cover when using the scope in daylight. The small opening in the center of the cover is perfectly adequate for using the device in daylight.
- Never disassemble the scope.
- Always insert the batteries as specified and observe correct poling.
- Do not use an external power supply.
- Remove the batteries from the battery compartment if the device is not being used for a prolonged period.

- Always cover the lens with the lens cap when not in use.
- Do not expose the device to direct sunlight.
- Do not keep the device under extremely low or high temperatures.
- Do not keep the device in damp, dusty or dirty areas.
- Keep the device safe from any external influence.
- Never subject the device to knocks or impact.

## **Advice on care**

Protect the Night-Vision scope against falling, damp, dirt and extreme temperatures. Protect all optical surfaces against damp and abrasive agents. These may otherwise damage the anti-reflection coating.

Only remove dust and dirt from the lens using a soft, dry cloth. For safety reasons please remove the batteries!

## **Troubleshooting**

### **The night vision 'scope does not switch on**

Check that the batteries are correctly installed. Check the performance of the batteries.

### **No image appears**

Select your subject matter. Turn the eyepiece adjustment to obtain a sharp image. Then turn the lens ring to further enhance pin-sharp definition. Repeat this process, if necessary.

### **Flashes**

During the first two minutes after switching on the scope, flashes may occur. If this flashing

continues the surrounding area may be too bright. This can occur even with mounted lens cap. In a dark environment this phenomena is reduced or disappears completely.

### **The device fogs up**

If the device is used at low temperatures and is then suddenly exposed to a warmer ambient temperature, condensation may develop on the cold surface of the device. It can take up to 5 hours before the scope has acclimatized to the ambient temperature.

### **The image diminishes or disappears**

Excessive light (moonlight, spotlights or projectors) can lead to faulty imaging. Move the

scope away from the light source immediately. The image will be restored within a period of two minutes. Imaging results can also only be achieved at short distances if there is severe fog, haze or under extremely dark conditions.

### **Black dots in the visual field**

When you view the image of your night vision 'scope through the eyepiece you may perceive small black dots. This is not a quality fault but a typical feature of night-vision equipment of this type.

### **Light power of image tube lessens**

The light power of the image tube decreases in the course of its service life. When the

night vision 'scope is used correctly the service life is approximately 10,000 hours. The service life is reduced if the night vision 'scope is exposed to strong light sources such as street lamps or headlights/spotlights.

### **The image tube is defective**

The image tube is subject to natural wear. If the light amplification of the image tube becomes less, please send your night vision 'scope directly to the MINOX Customer Service where a new image tube can be inserted, if necessary.

## Technical Data

|                         |  |
|-------------------------|--|
| Integral IR LED         | yes  |
| Optical magnification:  | 2x   |
| Lens diameter           | 22 mm / 0.87 inch                          |
| Resolution:             | 35 lp/mm                                   |
| field of view:          | 11°  |
| Tube type:              | Gen. 1+                                    |
| Diopter compensation:   | +/- 4dpt                                   |
| Operating temperatures: | -30° up to +50° C / -22° up to +122° F     |
| Water resistant:        | yes  |
| Battery:                | 1 CR 1/3 N (3.0 V)                         |
| Dimensions              | 33 x 41 x 107 mm / 1.30 x 1.61 x 4.21 inch |
| Weight                  | 180 g / 6.35 oz                            |
| Scope of delivery:      | hand strap, battery                        |

## **Customer Service**

You can reach our Customer Service under the following address, where they will be pleased to help you:

MINOX GmbH

Walter-Zapp-Str. 4

D-35578 Wetzlar / Germany

Tel.: +49 (0) 6441 / 917-0

Fax: +49 (0) 6441 / 917-612

[info@minox.com](mailto:info@minox.com)

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

**For your notes**

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## Conditions of warranty

With the purchase of this MINOX product you have acquired a product which has been manufactured and checked to special quality standards. For this product the MINOX GmbH provides warranty of 2 years. The period commences on the date of purchase from an authorized dealer and the warranty is subject to the following conditions:

- 1) During the warranty period we shall deal with complaints based on faulty manufacture (free of charge) by repair, replacement of defective parts or replacement by an identical flawless product at our own discretion. Consequential claims, no matter what kind of what legal argument in connection with this warranty, cannot be accepted.
- 2) Claims under warranty are null and void, if the defect has been caused by improper handling – which also can include the use of non-MINOX accessories – if the MINOX product is serviced by unauthorized persons or workshops, or if the serial number has been obliterated.
- 3) Warranty claims can only be made by submission of the typewritten sales slip of an authorized dealer.



- 4) When submitting claims under warranty please return the MINOX product together with the typewritten sales slip and a description of the claim to the MINOX GmbH or MINOX agency.
- 5) Tourists may, if required, make use of the Agency of the country in which they are travelling (within the terms of the Warranty of the MINOX GmbH) by presenting the typewritten sales slip.

Änderungen in Konstruktion und Ausführung vorbehalten.

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Sous réserve de modifications.

MINOX est une marque déposée par MINOX GmbH, Wetzlar.

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