

MINOX

MINOX NV 400

Anleitung

Instruction

Notice d'utilisation

MINOX NV 400

- Deutsch
- English
- Français



Achtung! Attention!

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

never remove the lens cap in daylight.

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

Introduction

Dear MINOX Customer,

Congratulations on your purchase of this MINOX 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 MINOX Night-Vision scope will give you a great deal of pleasure and always keep you perfectly in the picture!

MINOX NV 400



Contents

Introduction	Page 3	Troubleshooting	Page 6
Get familiar with your Night-Vision scope	Page 4	The Night-Vision scope does not switch on	Page 6
Control elements	Page 4	No image appears	Page 6
General information	Page 4	Flashes	Page 6
Operating instructions	Page 4	The device fogs up	Page 6
Use in daylight	Page 4	The image diminishes or disappears	Page 7
Inserting batteries	Page 4	Black dots in visual field	Page 7
Switching on	Page 4	Light power of image tube lessens	Page 7
Switching off	Page 4	Image tube defective	Page 7
Use at night	Page 5	Technical Data	Page 8
Switching on	Page 5	Customer Service	Page 9
Adjusting	Page 5		
Infra-red illuminator	Page 5		
Switching off	Page 5		
Safe keeping	Page 5		
Important information	Page 5		
Advice on care	Page 6		

Get familiar with your Night-Vision scope

Control elements

1. Objective lens
2. Front focusing ring
3. Image intensifier tube
4. Eyepiece and focusing ring
5. Battery compartment
6. Infra-red illuminator power switch
7. Main power switch
8. Infra-red illuminator

General Notes

This top quality optical-electronic product is fitted with a Generation 2+ 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 -20° C to 40° C. 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 x CR 123A). 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. 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 20-30 m (22-33 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.

Infra-red illuminator

The infra-red illuminator provides you with an improved imaging result under inadequate light conditions. After actuating the infra-red illuminator switch the image appears brighter.

Switching off

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

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.

Save keeping

To protect the lens always fit the lens cap before putting the Night-Vision scope away in the every-ready case.

Important information

To avoid irreparable damage to your Night-Vision scope, please always observe the following instructions:

- If you wish to use the device in daylight, **never** remove the lens cap. The small opening in the center of the cap is adequately dimensioned 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! Always transport the scope in the provided ever-ready case.

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

Aim at an object. Turn the eyepiece adjustment until you get a sharp image. Then turn the lens focusing ring to improve the sharpness further.

Repeat this procedure 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 darker surroundings the flash occurrence will become less or cease 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

	MINOX NV 400
Optical magnification	2,0 x
Lens diameter	1.58 inch / 40 mm
Optical system	3 groups in 5 elements
Tube type	Generation 2+
Resolution	40 lp/mm
Infrared illuminator	yes
Tripod thread	yes
Battery	1 x CR 123 A
Dimensions	3.35 x 6.89 x 2.36 inch / 175 x 85 x 65 mm
Weight	approx. 1.23 lb / 560 g
Order number	62403
Accessories	Teleconverter (included in scope of delivery)

Customer Service

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

MINOX GmbH
Walter-Zapp-Straße 4

D-35578 Wetzlar, Germany

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

info@minox.com
www.minox.com

For your notes

Änderungen in Konstruktion und Ausführung vorbehalten.

Design subject to alterations without notice.

Sous réserve de modifications.

MINOX GmbH

Walter-Zapp-Str. 4

D-35578 Wetzlar, Germany

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

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

e-mail: info@minox.com

www.minox.com

99431