

# DÖRR

---

# DIGITAL NIGHT VISION BINOCULARS

WITH PHOTO & VIDEO RECORDING

**GB** INSTRUCTION MANUAL



## ZB-200 PV

## ILLUSTRATION OF PARTS



**THANK YOU** very much for choosing a quality product by DÖRR.

**Please read the instruction manual and the safety hints carefully before using the device for the first time.**

Keep the operating instructions together with the device for reference. If other people use this device, provide them with these instructions. If you sell the unit, this manual forms an integral part of the device and must be supplied with it.

**DÖRR is not liable for damage caused by improper use or failure to observe the operating and safety instructions.**

In the event of damage caused by improper handling or by external influence, the guarantee or warranty claim becomes void. Any manipulation, structural modification of the product or opening of the housing by the user or an unauthorised third party shall be considered improper handling.

## 01 | ⚠ SAFETY HINTS

- ⚠ **Never look at the sun through this night vision device! As you may damage your eyesight and become blind!**
- ⚠ **This device is not a toy! To prevent accidents and suffocation keep the device, the accessories and the packing materials away from children and pets.**
- People with physical or cognitive disabilities should use the device with supervision.
- People with cardiac pacemakers, defibrillators or any other electrical implants should maintain a **minimum distance of 30 cm**, as the device generates magnetic fields.
- Make sure to use the device only with **appropriate, high-quality alkaline batteries type Mignon AA LR6 1,5V** (not included). **When inserting the batteries, please respect the correct polarity (+/-).** Please remove batteries when device is not in use for a long period of time.
- Turn off the device after use.
- Protect the device from rain, moisture, direct sunlight and extreme temperatures.
- Do not operate or touch the device with wet hands.
- Protect the device against impacts. Do not use the device if it has been dropped. In this case a qualified electrician should inspect the device before you use it again.
- Do not attempt to repair the device by yourself. **Risk of electric shock!** When service or repair is required, contact qualified service personnel.
- Protect the device against dirt. Never use aggressive cleansing agents or benzine to clean the device. We recommend a soft, slightly damp microfiber cloth to clean the outer parts of the device. **Turn off the device and remove batteries before cleaning.**
- Store the device in a dust-free, dry and cool place.
- If the device is defective or without any further use, dispose of the device according to the Waste Electrical and Electronic Equipment Directive WEEE. For further information, please contact your local authorities.

## 02 | ⚠ SAFETY HINTS FOR BATTERIES

Only use high-quality batteries of popular brands. **When inserting the batteries, please respect the correct polarity (+/-).** Do not insert batteries of different types and always replace all batteries at the same time. Do not combine used batteries with fresh batteries. Please remove batteries when device is not in use for a longer period. **Do not throw the batteries into fire, do not short-circuit and do not disassemble them! Never charge non-rechargeable batteries – risk of explosion!** Remove empty batteries immediately from the device to avoid the leaking of battery acid. Remove leaking batteries from the

device immediately. Clean the contacts before inserting fresh batteries. **Risk of battery acid burn!** In case of contact with battery acid, rinse the affected area immediately with water and contact a doctor. Batteries can be dangerous to life if swallowed. **Keep batteries away from small children and pets.** Do not dispose of batteries in household waste (see also capture „Disposal of Batteries/Accumulators“).

### 03 | PRODUCT DESCRIPTION

**Compact night vision binoculars with digital zoom and with photo and video recording function.**

The large LCD display offers sharp colour images at daylight and black and white images rich in contrast in the dark. With a range of up to 500m at daylight and up to 200m in the darkness it is the perfect companion in the hunting ground. With the infrared illumination, the brightness of images can be increased in several steps. The live view can be stored as an image or video on a micro SD/SDHC memory card (optional) at any time.

- **With 2x digital zoom**
- **Visual distance up to 500m by day, in the darkness up to 200m**
- **Large viewfinder with colour LCD display**
- **Selectable 7-level infrared illumination**
- **1/4" tripod mount**
- **Supplied with neck strap and hardcase**

### 04 | NOMENCLATURE

- 01 Lens
- 02 Infrared illumination
- 03 On/Off button
- 04 Button video mode/recording
- 05 Button brightness
- 06 Button infrared illumination
- 07 Button photo mode/releasing
- 08 Button zoom
- 09 micro SD card slot
- 09a) Rubber cover
- 10 Eyelets for neck strap
- 11 LCD display
- 12 Focussing wheel
- 13 Battery compartment cover
- 14 Battery compartment cover lock
- 15 1/4 Inch tripod socket
- 16 Battery compartment
- 16a) Contacts
- 17 Battery holder for 4 batteries
- 17a) Battery contact

## 05 | FIRST STEPS

### 05.1 Inserting/replacing the batteries


#### ▶ NOTICE

**Make sure to use the device only with appropriate, high-quality alkaline batteries type Mignon AA LR6 1,5V (not included). When inserting the batteries, please respect the correct polarity (+/-).**

Please remove batteries when device is not in use for a long period of time.


**Inexpensive Battery Value Packs can be found in our webshop:**

[www.doerr-outdoor.de](http://www.doerr-outdoor.de) 

Slide the two battery compartment cover locks (14) to the position with the open lock .

Remove the battery compartments covers (13) and take out the battery holders (17). Insert **each 4 pcs Alkaline batteries, type Mignon AA LR6 1.5V** (not included) into both battery holders (17) - **make sure that the polarity is correct when inserting the batteries +/-** (markings on the bottom of the battery holder).

Insert the battery holders (17) back into the battery compartments (16) - **make sure that the battery contact (17a) points in the direction of the arrow (marking on the battery holder) to the contacts (16a) in the battery compartment (16).**


Put on the battery compartment covers (13) and set the two battery compartment cover locks (14) to the position with the closed lock .


### 05.2 Inserting/removing the micro SD memory card

#### ▶ NOTICE

**When inserting or removing the micro SD memory card, the night vision binoculars must be switched off (no live view display)!**

Open the rubber cover (09a) and insert a micro SD memory card (optionally available in stores) into the micro SD card slot (09), until it clicks into place. **Please make sure that the labelled side of micro SD card is facing upwards.** We recommend using a micro SD/SDHC card with a capacity **from 4 GB to max. 32 GB.**

When the micro SD memory card is inserted correctly, the LCD display (11) shows the symbol .

If the micro SD memory card is not inserted correctly or if it is missing or defective, the LCD display (11) shows the symbol .

To remove the micro SD memory card, first push it further into the micro SD card slot until it releases with a click – then the micro SD memory card can be removed completely.

#### ▶ NOTICE

**If you want to use a micro SD memory card that still has files on it, we recommend that you save these files on your computer and format the micro SD card before use.**

### 05.3 Fastening the neck strap

To prevent the night vision binoculars from falling down, we recommend using the supplied neck strap. To fix the neck strap pull the two loops through the eyelets (10) of the night vision binoculars and fasten them with the buckles.

### 05.4 Mounting onto a tripod (optional)

With the 1/4" tripod socket (15) the night vision binocular can be mounted onto a tripod (optionally available from DÖRR).

## 06 | OPERATION

#### ⚠ CAUTION

**Never look through this night vision binoculars at the sun! You may blind yourself!**

#### ▶ NOTE FOR EYEGGLASS WEARERS

**If you wear glasses, please keep them on while using the night vision binocular to ensure best image results.**


### 06.1 Switching on

To switch on the night vision binoculars, press the On/Off- button (03). The LCD display (11) shows a coloured live view.

### 06.2 Focusing


To focus the night vision binoculars, turn the focusing wheel (12) to the left or right until the live view in the LCD display (11) is sharp.

### 06.3 Digital Zoom

To zoom-in the live view, press the zoom button (08). In the right bottom of the LCD display (11) the symbol  appears and indicates the minimum zoom factor of 1,07. By repeatedly pressing the zoom button (08), the live view can be magnified in steps up to 2 times. To return to the 1: 1 image, press the zoom button (08) repeatedly until the symbol in the display disappears.



## 06.4 Adjusting the brightness of the LCD display

To increase the brightness of the live view in the LCD display (11), press the button for brightness (05) repeatedly until the desired brightness is reached. Possible settings from 0 - 9. The value is displayed at the left bottom of the LCD display (11), e.g.  1.


## 06.5 Infrared illumination (for use in the dark)

When using in the dark, press the IR button (06) once, to switch on the infrared illumination (02). The symbol **IR1** for lowest infrared illumination appears in the top left of the LCD display (11) and you will see a black and white live view.

To increase the brightness of the infrared illumination, press the IR button (06) repeatedly until desired brightness is achieved. Possible settings from IR1 to IR7.

To turn off the infrared illumination, press the IR button (06) repeatedly until the symbol in the display disappears.

## 06.6 Battery indicator

Press the On/Off button (03) to turn on the night vision binoculars. In the right bottom of LCD display (11) the battery indicator symbol appears .

## 06.7 Taking pictures


Switch on the night vision binoculars with the On/Off button (03). The night vision binoculars is automatically in photo mode. The top left corner of LCD display (11) the number of photos taken will be shown, e.g.: **00020**.


Adjust the focus with the focusing wheel (12). When taking pictures in the dark, switch on the infrared illumination (see chapter 06.5).


Press the release button  (07) to take a picture.

## 06.8 Video recording

Switch on the night vision binoculars with the On/Off button (03). The night vision binoculars is automatically in photo mode first. Adjust the focus with the focusing wheel (12). For recordings in the dark, switch on the infrared illumination (see chapter 06.5).

To start the video recording, press the button  (04).

While recording a red dot  will flash in the top centre of LCD display (11). In the right top of LCD display, you can see the length of video **00:00:00**.

To stop the video recording, press the button  (04) again. The night vision binoculars switches back to photo mode automatically.

## 06.9 Turning off

After use press the On/Off button (03) for about 2 seconds to switch off the night vision binoculars.

## 06.10 Viewing your photos/videos

To view your photos and video recordings, remove the micro SD memory card and read it out with a suitable micro SD card reader (optionally available from DÖRR) and your PC/Notebook.

### NOTICE

**When removing the micro SD memory card, the night vision binoculars must be switched off (no live view display)!**

## 07 | CLEANING AND STORAGE

Never use aggressive cleansing agents or benzine to clean the device. We recommend a soft, slightly damp microfiber cloth to clean the outer parts of the device. Remove batteries before cleaning! Store the device in a dust-free, dry and cool place. **This device is not a toy - keep it out of reach of children. Keep away from pets.**

## 08 | TECHNICAL SPECIFICATIONS

Display format	<b>4:3</b>
Display resolution	<b>320 x 240 Pixels</b>
Brightness display	<b>adjustable in 9 steps</b>
Infrared illumination	<b>IR LED 2 W, 850 nm adjustable in 7 steps</b>
Visualisation	<b>in colour by day, black and white by night</b>
Range up to approx.	<b>500m by day/200m by night</b>
Picture angle approx.	<b>6,8°</b>
Magnification	<b>2-times digital zoom</b>
Aperture	<b>f/1,4</b>
Recording capability	<b>Photo / Video without audio</b>
Picture format	<b>JPEG (1280 x 1024 Pixel)</b>
Video format	<b>AVI (640 x 480 Pixel)</b>
Memory card	<b>micro SD/SDHC 4GB to max. 32GB (not included)</b>
Power supply	<b>8x Alkaline Mignon AA LR6 1,5V (not included)</b>
Operating time approx.	<b>10 h in day mode/6 h with IR illumination (with fresh batteries)</b>
Tripod mount	<b>1/4"</b>
Housing	<b>ABS, rubberized</b>
Colour	<b>black</b>
Dimensions approx.	<b>19 x 16 x 5,5 cm</b>
Weight approx.	<b>429 g (without batteries)</b>

*DÖRR GmbH reserves the right to make technical changes without notice.*

## 09 | SCOPE OF DELIVERY

- 1x Night vision binoculars ZB-200 PV
- 1x Neck strap
- 1x Hardcase
- 1x Safety hints

## 10 | DISPOSAL, CE MARKING

### 10.1 DISPOSAL OF BATTERY/ACCUMULATOR

Batteries and rechargeable batteries are marked with the symbol of a crossed-out waste bin. This symbol indicates that empty batteries or rechargeable batteries that can no longer be recharged must not be disposed of in household waste. Old batteries may contain harmful substances that can cause damage to health and the environment. As the end user, you are legally obliged to return used batteries (under German battery law, Section 11 Act Revising the Law of Waste-Related Product Responsibility for Batteries and Accumulators). You can return batteries free of charge after use at the point of sale or in your immediate vicinity (e.g. at municipal collection points or in shops). You can also return batteries to the seller by post.

### 10.2 WEEE INFORMATION

The WEEE (Waste Electrical and Electronic Equipment) Directive, which came into force as European law on 13 February 2003, led to comprehensive changes in the disposal of discarded electrical equipment. The primary purpose of this directive is to prevent e-waste while promoting reuse, recycling and other forms of reprocessing in order to reduce waste. The WEEE logo (dustbin) shown on the product and on the packaging indicates that the product must not be disposed of in normal household waste. You are responsible for delivering all discarded electrical and electronic equipment to appropriate collection points. Sorting waste for separate collection and sensible recycling of packaging waste helps to use natural resources more sparingly. Furthermore, e-waste recycling is a contribution to preserving our environment and thus also people's health. Further information on the disposal of electrical and electronic equipment, recycling and collection points can be obtained from local authorities, waste disposal companies, specialist retailers and the manufacturer of the device.

### ✓ 10.3 CONFORMITY WITH ROHS

This product complies with the European RoHS Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment and variations thereof.

### CE 10.4 CE MARK

The imprinted CE mark complies with the applicable EU standards and indicates that the device meets the requirements of all EU directives applicable to this product.

**DÖRR Night Vision Binoculars ZB-200 PV**

Item-No. **490334**

Made in China

**DÖRR GmbH**

Messerschmittstr. 1

D-89231 Neu-Ulm

Fon: +49 731 970 37 69

hello@doerr.gmbh

<https://www.doerr-outdoor.de>