

night vision goggles

with 2.5-inch UHD video camera 48 MP, Battery

User manual



Zavarius™

ZX-3546-67

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Information and answers to frequently asked questions
(FAQs) about many of our products, as well as necessary
Updated manuals can be found on the website:

www.zavarius.de

Enter the item number or item name in the search field
there.

Your new night vision glasses

Dear Customer,

Thank you very much for purchasing these night vision goggles.

Please read these operating instructions and follow the listed instructions and tips to ensure you can use your new night vision glasses to their full potential.

Scope of delivery

- night vision goggles
- Transport bag
- Cleaning cloth
- carrying strap
- USB charging cable (USB-C to USB-A)
- Li- Ion battery
- User manual

Necessary accessories

- USB power adapter (5V/1A)

Optional accessories

- Micro SD memory card (max. 128 GB, Class 10 or higher for best results with video files)
- ZX-3557: Adjustable head mount

Important information at the beginning



DANGER!

Never look directly at the sun through your night vision goggles. This can cause permanent damage to your eyes.

Safety instructions

- This user manual is designed to familiarize you with how this product works. Therefore, keep these instructions in a safe place so that you can refer to them at any time. Pass them on to subsequent users.
- Please observe the safety instructions when using the product.
- The product, its accessories and packaging are not toys for children. Therefore, keep children away from it. Children must be supervised to ensure they do not play with the device.
- Modifying or altering the product will compromise product safety. Caution: Risk of injury!
- All modifications and repairs to the product or its accessories may only be carried out by the manufacturer or by persons expressly authorized by the manufacturer.
- Never open the product on your own. Never attempt repairs yourself!
- Handle the product carefully. It can be damaged by bumps, blows, or falls from even a low height.

- Keep the product away from extreme heat.
- Never immerse the product in water or other liquids.
- Check the product for damage before use. Do not use it if it shows visible damage.
- Never use the product after a malfunction, e.g. if it has fallen into water, been dropped, or damaged in any other way.
- Technical specifications subject to change without notice. Errors and omissions excepted.

Important information about the battery and its disposal

Batteries do not belong in household waste. As a consumer, you are legally obliged to return defective batteries that can no longer be charged for proper disposal. You can drop off your batteries at the public collection points in your community or anywhere that sells batteries of the same type.

- Batteries should be kept out of the reach of children.
- Do not heat the battery above 60°C and do not throw it into fire: Danger of fire, explosion and blaze!
- Do not short-circuit the battery.
- Do not attempt to open batteries.
- Stay close by while the battery is charging and check its temperature regularly.
- Do not subject the battery to mechanical stress. Avoid dropping, hitting, bending, or cutting the battery.
- Stop the charging process immediately if the device overheats significantly. A battery that heats up excessively or becomes deformed during charging is defective and must not be used further.

- When charging the battery, be sure to observe the correct polarity of the charging plug. Incorrect charging plug connection, unsuitable charger or reversed polarity poses a risk of short circuit and explosion!
- Remove the battery from the device if you will not be using it for an extended period of time.
- Never fully discharge the battery, this will shorten its lifespan.
- Make sure to observe the correct polarity of the battery. An incorrectly inserted battery can lead to the destruction of the device – risk of fire.
- If the battery is to be stored for a longer period of time, a residual capacity of approx.] is recommended. 30% of the loading volume.
- Avoid direct sunlight at the storage location. The ideal temperature is 10 – 20 °C.

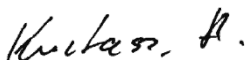
Important disposal information

This electrical appliance does not belong in household waste. For proper disposal, please contact the public collection points in your community. Details regarding the location of such a collection point and any possibly Please refer to the information provided by the respective municipality for any existing quantity restrictions per day / month / year.



Declaration of Conformity

PEARL Inc. hereby declares that the product ZX-3546-675 is in compliance with the RoHS Directive 2011/65/EU + (EU)2015/863 and the EMC Directive 2014/30/EU.

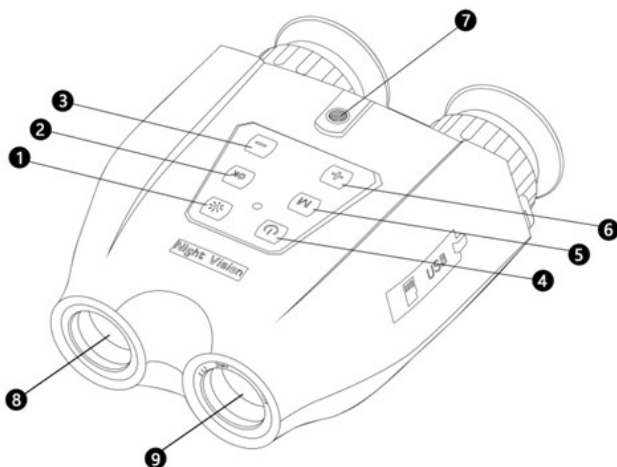


Quality Management, Dipl. Ing. (FH) Andreas Kurtasz

The full declaration of conformity can be found at www.pearl.de/support. Enter the item number ZX-3546 in the search field there.



Product details



1 IR button

2 OK button

3 Minus key

4 POWER button

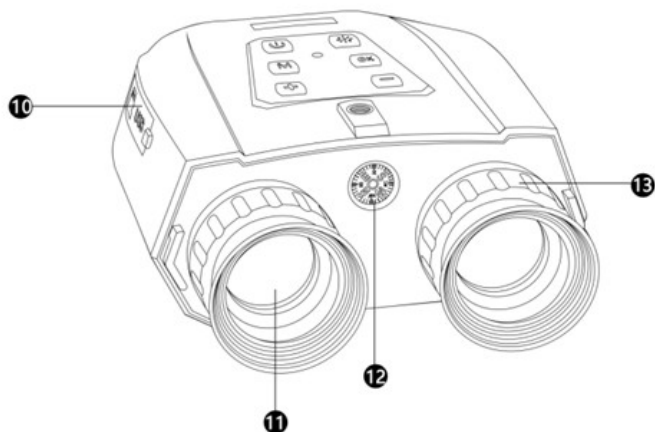
5 M key

6. Plus button

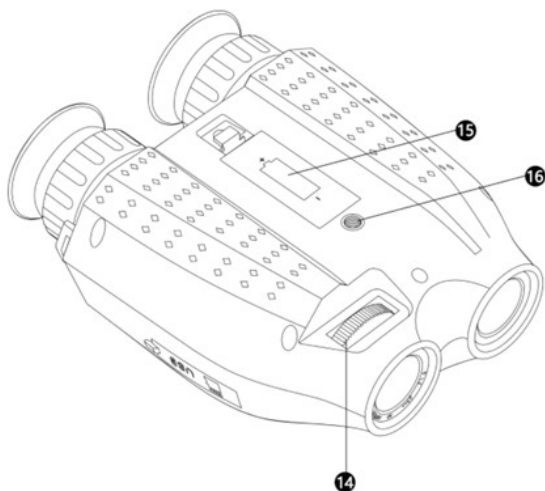
7. tripod thread

8. IR light

9. camera lens



- | | | | |
|-----|---|-----|-----------------------------|
| 10. | Micro-SD slot/
USB-C port (under
cover) | 12. | compass |
| | | 13. | Diopter adjustment
wheel |
| 11. | eyepiece | | |



- 14. focus wheel
- 15. Battery cover

- 16. tripod thread

commissioning

Insert battery

Open the battery compartment and insert the Li- Ion battery . When inserting the battery, ensure correct polarity. Close the battery compartment again.

Charge battery

1. Open the rubber cover that covers the USB-C port.
2. Connect the included charging cable to the USB-C port and a suitable USB power adapter.



A NOTICE:

Please do not use a USB power supply that outputs more than 5V/1A.

3. Disconnect the charging cable from the USB-C port once the battery is fully charged.

Insert Micro SD card

Open the rubber cover that covers the Micro SD slot and insert a Micro SD card into the Micro SD slot.



A NOTICE:

If you only want to use your night vision goggles for live viewing and not for taking photos and videos, your night vision goggles will also work without a micro SD card.

use

Turn on/off

1. Press and hold the power button for a few seconds to turn on your night vision goggles.
2. Press and hold the power button again for a few seconds to turn off your night vision goggles.

focus wheel

- Hold your night vision goggles to your eyes and adjust the focus as needed using the focus wheel.

Diopter correction

If your eyes have different prescriptions, you can compensate for this difference using the diopter adjustment wheel.

- Adjust right eye: Close your left eye. Next, adjust the diopter using the right diopter adjustment wheel until your image is as sharp as possible.
- Adjust left eye: Close your right eye. Next, adjust the diopter using the left diopter adjustment wheel until your image is as sharp as possible.

Zoom

- Press and hold the plus button to zoom in.
- Hold down the minus button to zoom out.

exposure

- In good lighting conditions, the exposure is automatically regulated by your night vision goggles.
- To adjust the exposure in low light conditions, repeatedly press the plus/minus button in photo mode or video mode.



A NOTICE:

You can manually adjust the exposure value between 1 and 9 in this way.

Night vision mode at dusk

- Press the IR button once to switch to night vision mode at dusk. The scene icon appears in the upper left corner of the display. 

Night vision mode in complete darkness

1. Press the IR button twice to switch to night vision mode. The scene icon appears in the upper left corner of the display. 
2. Press and hold the IR button to adjust the IR brightness from level 1 to level 3.

Taking photos (photo mode)

1. When you turn on your night vision goggles, they will automatically start in photo mode. The photo icon appears in the upper left corner of the display. 

2. Adjust the focus by turning the focus wheel and press the IR button twice at night to turn on the IR light.
3. Press the OK button to take the photo.

Recording videos (video mode)

1. Press the power button repeatedly until you see the video icon in the upper left corner of the display. 
2. Adjust the focus by turning the focus wheel and press the IR button twice at night to turn on the IR light.
3. Press the OK button to record the Video .

Playback mode

1. Press the power button repeatedly until you see the play icon in the upper left corner of the display. 
2. The last saved file is displayed on the screen. If it is a photo, the file extension JPG will appear in the upper center of the display. When a video is displayed, the file extension AVI appears in the upper center of the screen.
3. Use the plus/minus buttons to navigate through the saved files.
4. Press the M button to access the "Delete", "OK" or "Cancel" menu. Use the plus/minus buttons to navigate through the selection. Press the OK button to confirm your selection.

Settings menu

- Press the M button to access the settings menu. Here you can set the photo resolution, video resolution, date, backlight, and language.

- When you are in the settings menu, you can use the plus/minus button to enter and exit a submenu. Within a submenu, you can use the plus/minus buttons to scroll from one item to another. Press the OK button to confirm each action.

Transferring recordings to computer

To transfer your photos and videos to a computer, connect the included USB cable to the USB-C port on your night vision goggles and a USB-A port on the computer.

Cleaning and care

- Wipe the casing of your night vision goggles with a lint-free, slightly damp cloth. Do not use harsh cleaning agents and do not hold your night vision goggles under running water.
- Clean the camera lenses and eyepieces of your night vision goggles with the included cleaning cloth. Be especially careful when cleaning. Be careful not to scratch the glasses.

Technical data

Li- Ion battery		3.7V 700mAh 2.59Wh
Battery life		up to 1 hour at night/ 3 hours during the day
Optical magnification		6x
Digital Zoom		8x
Lens diameter		35 mm
Image sensor		CMOS
IR radiation power/wavelength		3W/850 nm
Night vision range	Absolute darkness	up to 200 m
	dusk	up to 500 m
Photo resolution		48M, 30M, 25M, 20M, 10M, 8M, 5M, 3M
Photo format		JPG
Video resolution		2.5K UHD, 1080FHD, 1080P, 720P
Video format		AVI
Operating temperature		-30° to +55° C

Protection class	IP44
Languages	German, English, Japanese, French, Spanish, Portuguese, Korean, Italian, Chinese, Russian, Arabic
Micro SD memory card	max. 128 GB, Class 10 or higher for best results with video files
Mass	153 x 126 x 58 mm
Weight	364 g

Customer service:

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