

W WÜLF F

NIGHT VISION FULL HD BINOCULAR
MANUAL

RESEARCH | DEVELOPMENT | PRECISION

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ABOUT YOUR DEVICE

The WULF Night Vision binoculars have been designed to allow you to observe your surroundings in low light conditions or in complete darkness. The large widescreen display gives you a full colour image during daylight hours and will provide a black and white image in complete darkness with the use of the built in IR illuminator. The IR illuminator can be focused to optimise the image at different distances in darkness.

The Night Vision binoculars also give you the opportunity to record video and images with the supplied 64GB memory card, you can replay these in the device or use the USB cable to connect to your PC and download them.

WHAT'S IN THE BOX

- Night vision device
- MINI USB cable
- 64GB memory card
- Power bank holder
- A/V cable
- Storage pouch
- User manual

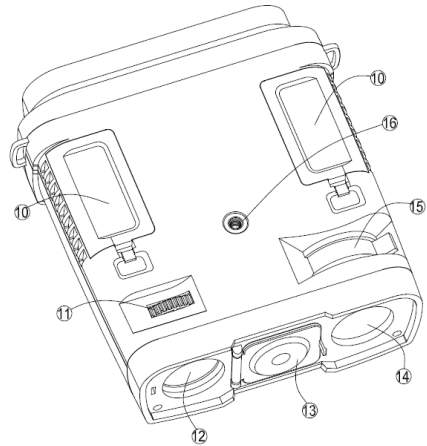
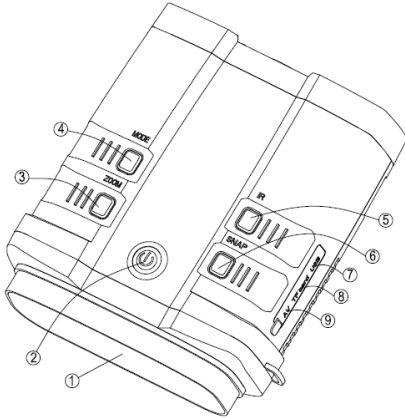


SPECIFICATION

Optical Performance	Magnification (3.6-10.8) X31 Digital Zoom Max 3x Angle Of View 9.2° Objective Aperture 31mm Exit Pupil Distance 30mm F# for Objective lens 1.3 IR ZOOM 2X 5m~∞ in daytime; Viewing in the darkness up to 300M (monochrome)
Video Output	640x360 resolution TFT LCD OSD menu display CVBS always output with VGA resolution
Imager	High-sensitivity CMOS Sensor Size 1/2.7" Resolution 1920X1080
IR LED	5W Infrared 850nm LED
Memory Card	Support SDHC 4GB~128GB Memory Card
Hardware Buttons	Power on/off Snap Mode selection Zoom IR switch

Operation	Preview Record JPEG file in TF storage Capture AVI file in TF storage Playback media file from SD storage
Power	External power supply - DC 5V/2A 8 pcs AA battery 8-12 V Battery life: 10 hours working time with IR off Low battery warning
System	4 modes (Capture, Video, Playback Menu) Single frame Image Capture Video image Record Playback image Delete image 7 level IR switch SD card format Power save (Off/1 min/ 3min/5 min) Language: English / Français /Español/ Deutsch/Italiano/Português/Русский System Reset Light Freq. 50/60HZ RTC setting Version
Size	Size 170mm x 150mm x 60mm 700g

OVERVIEW



1. Widescreen display
2. Power button
3. Zoom button
4. Mode button
5. IR button
6. Snap button
7. USB port
8. Memory card slot

9. Video out
10. Battery cover
11. Focus adjustment
12. Objective lens
13. Daylight filter
14. IR Illuminator
15. Infrared focus
16. Tripod adapter

BATTERY INSTALLATION

Open battery compartment and install the 8XAA batteries being sure to follow the polarity markings inside the battery compartment.

Replace the battery cover.


INSERTING/REMOVING MEMORY CARD


Remove the rubber cover to expose the memory card port. Insert the memory card into the port and push until it locks in place.

To remove the memory card, please push the memory card inward and it will pop out allowing you to remove it fully. Storage capacity: 8GB or above is recommended

INSTRUCTIONS FOR USE

Power On: Press and hold the power button for 2 seconds to turn on the device.

Taking Pictures: Press the [MODE] button until the capture photo mode is selected. The icon  will appear in the top left corner of the screen. Press the [SNAP] button to record images.

Video Recording: Press the [MODE] button until the video mode is selected. The  will appear in the top left corner of the screen. Press the [SNAP] button to start recording video and press the [SNAP] button again to stop recording.

Playback Videos and Photos: Press the [MODE] button until playback mode is selected.

Use the [Zoom] and [IR] buttons to scroll through the videos and images stored on your memory card. When

a video is selected, press the [SNAP] button to open the menu, use the [Zoom] and [IR] buttons to select play in the menu and press the [SNAP] button to begin playback.

Deleting Stored Videos and Photos: In playback mode, use the [Zoom] and [IR] buttons to select the video you wish to delete. Press the [SNAP] button. You will be given the option to play or to delete the image and video, use the [Zoom] and [IR] buttons to select delete in the menu and press the [SNAP] button.

TURNING OFF DEVICE

Press and hold the power button for 2 seconds to turn off the device.

FOCUSING THE IMAGE

With the Night Vision Binoculars pointed at the object you would like to view, turn the focusing ring located just below the objective lens until the image on the screen is sharp and clear.

KEY FUNCTIONS

MODE:

Toggles between Video / Photo / Playback / Menu

SNAP:

In Video Mode: Press to take video, press this button again to stop recording.

In Photograph Mode: Press to take a photo.

In Playback Mode: Press to Play or delete the video.

In Menu Mode: Press to select.

ZOOM:

In Video Mode: Press to increase the zoom.

In Photo Capture Mode: Press to increase the zoom.

In Playback Mode: Press to select the next picture or video

In Menu Mode: Press to select the previous menu listing.

IR:

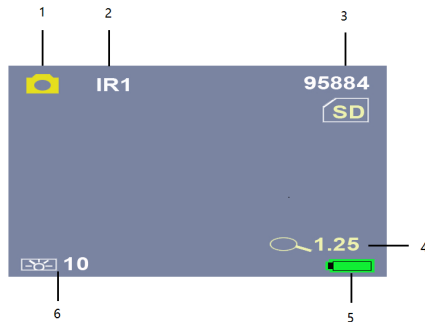
In Video/Photo Mode: Press to turn on the infrared light. With each additional press, the IR brightness will increase.

In Playback Mode: Press to select the previous photo or video.

In Menu Mode: Press to select the next menu listing.

LCD DISPLAY INFO

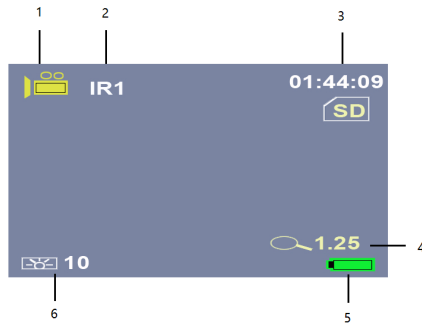
Your screen display in Photo Mode



1. Icon displaying that you are in Photo Mode
2. Intensity of the IR illuminator ranging from 1 to 5 (The Power output from the IR illuminator is increased when a USB power supply is used. You will see IR brightness options from 1 to 7)
3. Number of images that can be stored on the memory card before it is full.
4. Digital zoom
5. Battery power remaining
6. Screen brightness from 1 to 15

LCD DISPLAY INFO

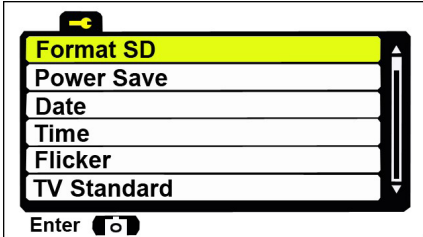
Your screen display in Video Mode



1. Icon displaying that you are in Video Mode
2. Intensity of the IR illuminator ranging from 1 to 5 (The Power output from the IR illuminator is increased when a USB power supply is used. You will see IR brightness options from 1 to 7)
3. Remaining time of video that can be stored on the memory card before it is full.
4. Digital zoom
5. Battery power remaining
6. Screen brightness from 1 to 15

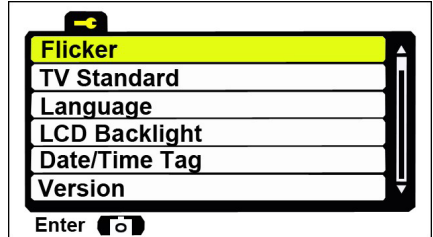
LCD DISPLAY INFO

Your screen display in Menu mode



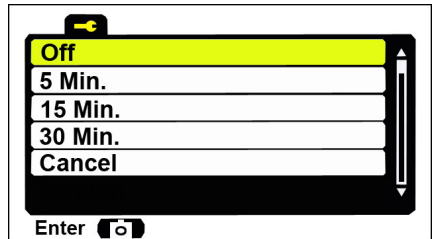
Format SD:

Select to format the memory card.



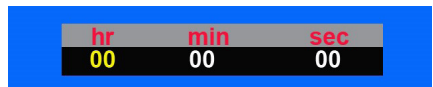
Power Save:

The Night Vision Binoculars can be set to automatically shut down after the selected period of inactivity.



Date & Time:

ZOOM: UP
IR: DOWN
SNAP: OK

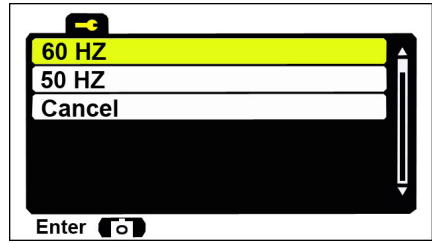


Language:

English | Français | Deutsch | Italiano | Español | Polish

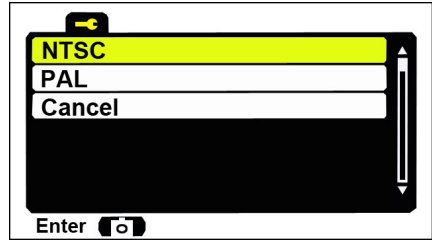
Flicker:

Use this option to select the refresh rate of the screen.



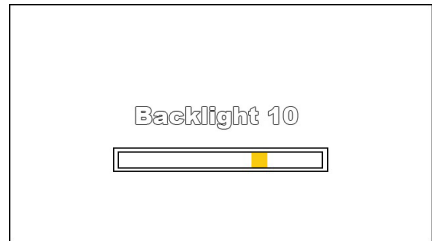
TV Standard:

The video output format can be set to NTSC (North America) or PAL (Europe)



LCD Backlight:

Can set the screen brightness from 0 to 15



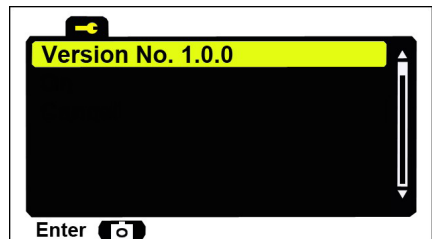
Date/Time Tag:

When 'on' is selected, the date/time stamp will be displayed in the picture or video.



Version:

The software version of the device.



USING THE ZOOM FUNCTION

When using the device in photo or video mode you can increase the zoom to make it easier to get a detailed view of your target at longer distances.

The optical magnification (base magnification) built into the device is 3.6x.

Press the [ZOOM] button to toggle between 1x and 3x digital zoom. Hold the [ZOOM] button to slide up the magnification.

The optical magnification combined with the digital zoom gives you an overall magnification range from 3.6x to 10.8x giving you a very flexible product suitable for use in a range of situations.

USING THE IR LIGHT IN COMPLETE DARKNESS

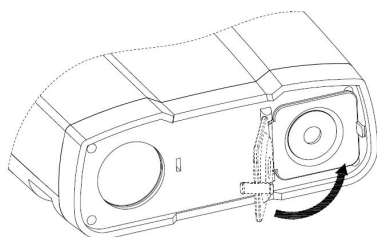
This device can be used in complete darkness by activating the built in IR (infrared) illuminator.

Press the [IR] button to activate the infrared illuminator and switch into black and white, night mode.

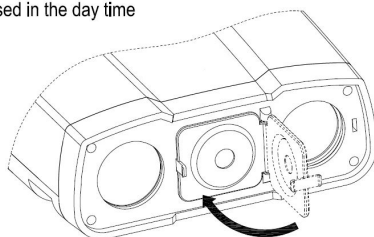
You must remove the daylight cover from the objective lens when using in the dark.

Press the [IR] button to select between the 5 levels of brightness (The Power output from the IR illuminator is increased when a USB power supply is used. You will see IR brightness options from 1 to 7).

The daylight filter should be replaced when used in daylight to protect the camera and optimise the performance.



Used in the day time



Used at night

VIEWING VIDEOS AND PHOTOS ON YOUR TV

Connect the AV output port of the Night Vision Binocular with an AV cable.

Connect the other end of the AV cable to the TV video input.

In playback mode, press the ZOOM/IR buttons to select the file you will display on your TV.

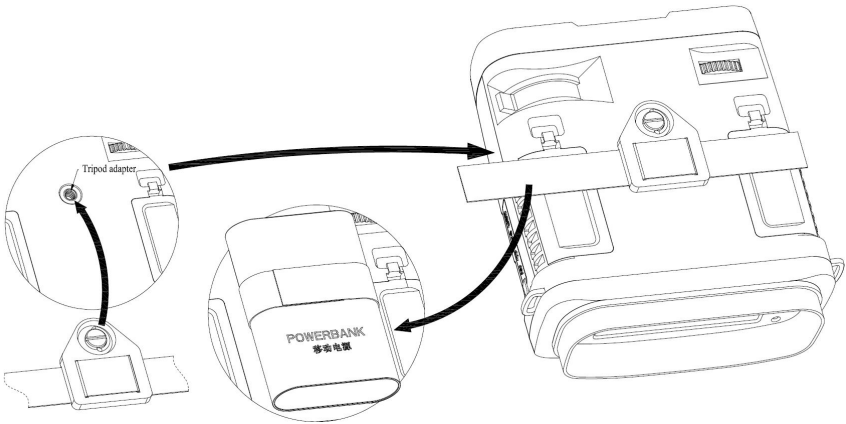
Note: When the Night Vision Binocular is connected to a TV, the screen inside the device will not work.

TRANSFER VIDEOS & IMAGES TO YOUR COMPUTER

Remove the rubber cover to expose the USB port on the side of the night vision binoculars. Using the supplied USB cable to connect the night vision device to a computer.

The Night Vision Binocular will then be displayed in your computer in the same way a removable memory card or external hard drive would display.

ATTACH POWER BANK TO DEVICE



CARE AND MAINTENANCE

Clean the device only with a dry or slightly damp, lint-free cloth.

Do not use abrasive cleaners to clean the device.

This device is a high-precision optical instrument, so in order to avoid damage, please **do not**:

- Use the device in ultra-high or ultra-low temperature
- Keep or use it in moist environments for a long period of time.

Note: Remove batteries from the device if you intend on not using it for a long time.

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