

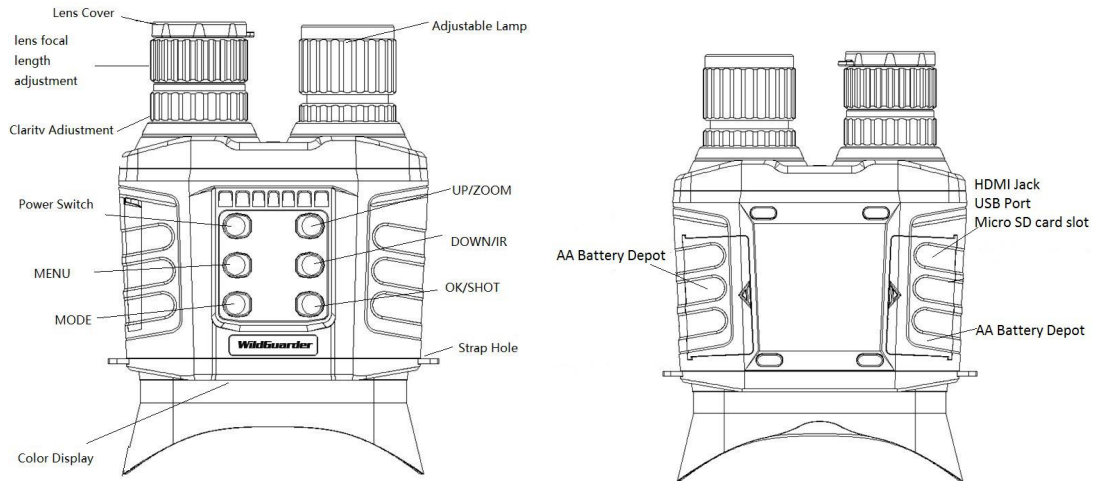
WildGuarder OWLER1 Night Vision Binoculars



Congratulations on your purchase of high quality night vision device. Use this device to view surrounding in low light condition even in complete darkness. You can even take picture and video using the device which can be saved to a Micro SD card. This device can be used in daytime as well. Use the supplied USB cable to download images to computer.

User's Manual

Night Vision Overview



Specification

Optical Performance	Optical Zoom	20X
	Digital Zoom	4X
	Angle of View	From 1.8°to 68°
	Objective Aperture	30mm
	Exit Pupil Distance	12.53mm
	F# for Objective Lens	F=1.6
	View in the dark	500m
Imager	Size	1/2.7
	Resolution	4608x2592
Light System	Luminance	5W
	IR Wavelength	850nm
Power	Working Voltage	4V-6V
	Power Supply	8*AA
Interface	Output	USB
	HDMI Supporting	HDMI
	Storage	Micro SD card
Displayer	Screen Resolution	854 X 480
Size	210mm(Length) 161mm(width) 63mm(Height)	
Weight	0.9KG	
Certificates	CE, FCC, ROHS, Patent protected	

Power Supply

A. AA battery

1. Please install batteries into to device before usage
2. Open the battery cover on the back of device.
3. Insert 8pcs 1.5V AA batteries into the battery
4. Close the battery cover



(Left AA Battery Compartment)

(Left AA Battery Compartment)

Note: 1. Do not mix different brand batteries

2. Do not mix old and new batteries

3. Do not mix batteries with different voltage

B. External Power

1. 5V Power bank can feed this device via supplied USB cable.

2. And user can charge rechargeable AA battery via USB cable.

Inserting Memory Card

1. Please prepare a Micro SD card C10 in advance

2. Open the card slot cover, Micro SD card slot will be seen.

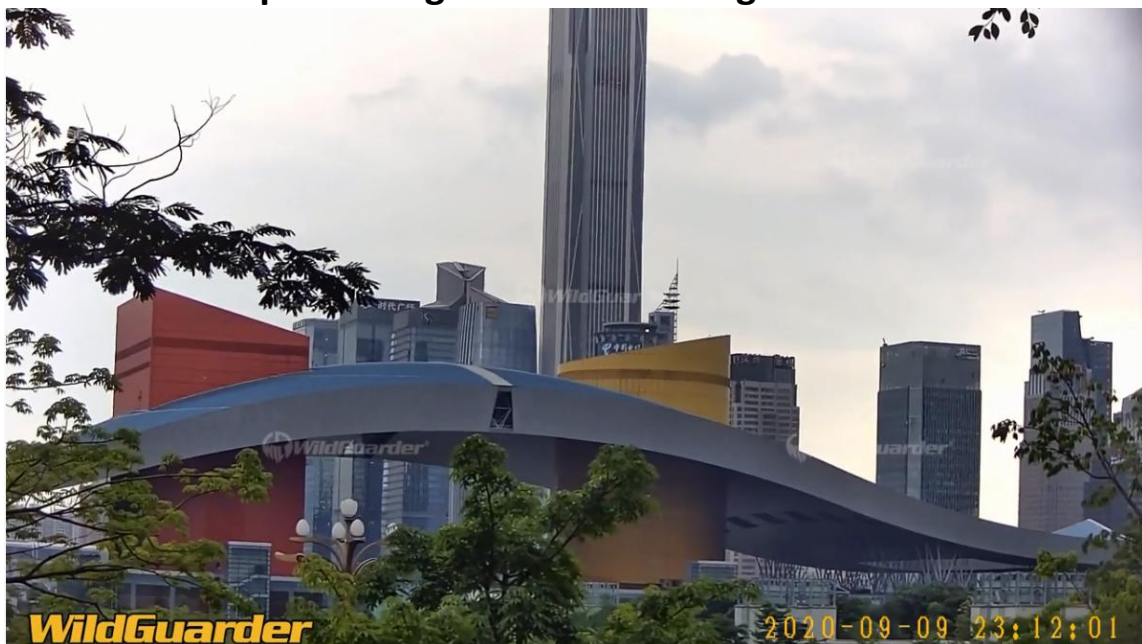
3. Insert the card into the slot in a right way. Chip side faces up



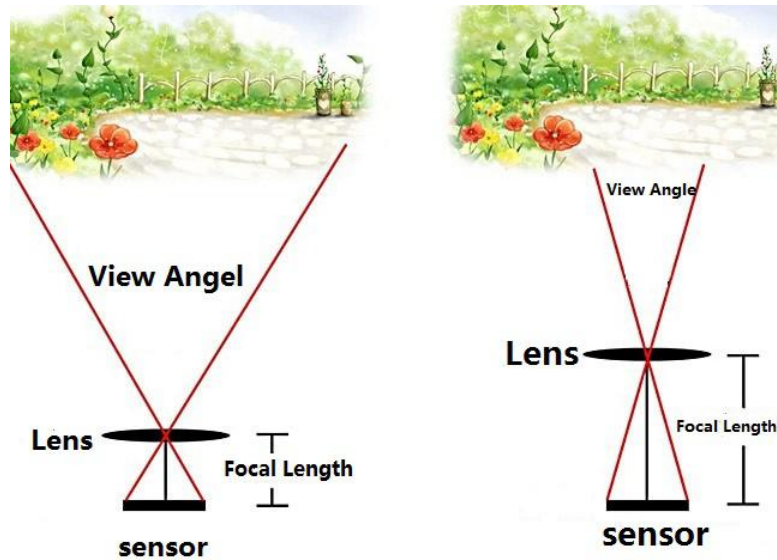
4. Format the Micro SD card to improve the battery life and shutter speed.

5. To remove the card from device, press its edge, it will pop out, then remove it

Optical Magnification and Digital Zoom





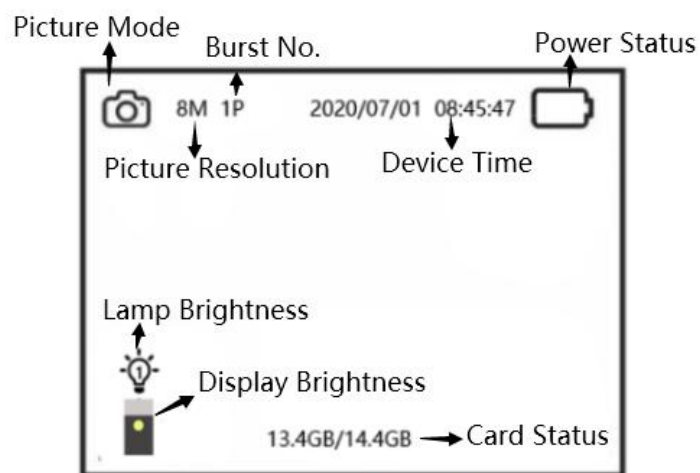


(Optical Magnification)

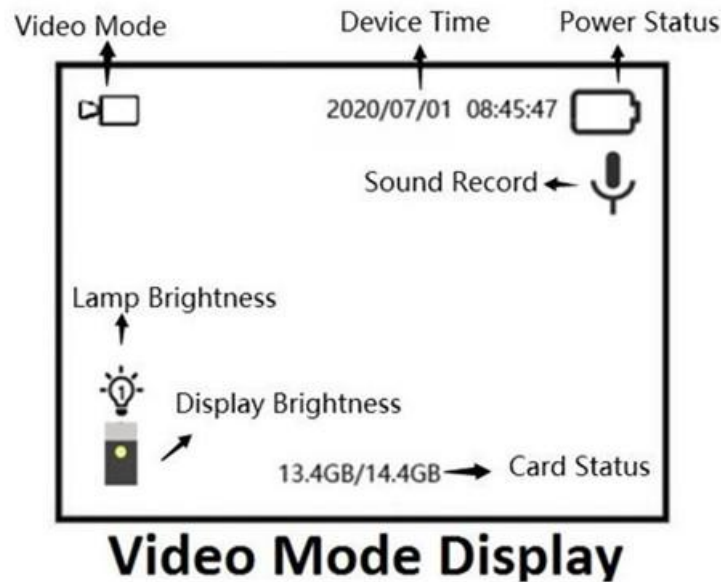
Original Clear Object → → → Bigger Object
(4X)

(Digital Zoom in)


Display Information



Picture Mode Display



Button Function list

Buttons	Function
	Turn ON/OFF video when keeping pressing When press in a short time, the display brightness will be switched.
MENU	Back to menu or enter menu
MODE	Picture mode, Video mode or Review mode
ZOOM	Zoom function is cycled within this button
IR	IR Lamp brightness is cycled within this button
SHOT	In image mode, shot to get one picture; in video mode, press it and start/stop video recording
▲	Check sub-menu, and check picture/video when in review mode
▼	Check sub-menu, and check picture/video when in review mode
OK	When set up sub-menu, press OK button to confirm

Menu Function List

Menu	Function	Default Setting
Language	OSD language	English
Image Resolution	Image resolution options:	8MP
Burst Number	Image quantity per shooting	1 Photo
Video Length	To choose how long video is needed	10s
Sound Record	Sound record can be ON or OFF	ON
Date/Time setting	Input date/time manually	NONE
Date/Time Stamp	Data/time info will be shown on picture/video or not	ON
Date Format	D/M/Y, M/D/Y, Y/M/D Format	M/D/Y
Display Brightness	There are three levels to choose	Middle
Lamp AUTO OFF	The lamp will be off within 3min, 5min, or 10min, or it will not off auto.	OFF
AUTO OFF	This device will be off within 3min, 5min, or 10min, or it will not off auto.	3min
Card cycle	Micro SD card can be loop-record	ON
Card Format	Quick format this memory card	NONE
Default Setup	Setup can be back to factory default	NONE

Version	User can check firmware version information	NONE
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Basic Operation

1. Turn on and turn off



Keep pressing the power button () for 3s to turn ON/OFF the device.

2. Changing the mode

This night vision has three different modes: image mode, video mode and playback mode. Press the MODE button to switch.

Image Mode: to take picture

Video Mode: to record video

Playback Mode: to review the record files

3. Taking picture

- a) Turn on the device, the default mode is not photo one, if no, press the MODE button and switch to Photo mode
- b) The lens focal length is adjustable, the longer focal length is, the more far the view is. What is more, the clarity can be amended by hands.
- c) Zooming
Keep the pressing button to zoom in or out the image, the value of magnification level appears on display
- d) Take a till photo
 - View your subject on LCD screen
 - Press the SHOT button to take a photo

4. Recording Video

- a) Turn on the device, press the MODE button to switch to video mode
- b) The focal of lens length is selectable, the longer focal length is, the more far the view is. What is more, the clarity is adjustable by hands.
- c) Zooming
Keep the pressing button to zoom in or out the image, the value of magnification level appears on display
- d) Start to record video
 - View your subject on LCD screen
 - Press the SHOT button to start recording, the record duration will be shown on display
- e) Press the SHOT button to stop recording to finish video recording

Download Files to Computer

A. Using a card reader

1. Eject the Micro SD card from the device and insert it into a card reader, then connect the card reader to a computer.
2. Open (my computer) and double-click the removable disk icon who represents the memory card.
3. Copy images from the card to computer.

B. Connecting the device to PC via USB cable

1. Turn on the night vision; connect it to a computer with USB cable.

2. When connecting to the computer, MSDC will appear on the display
3. Open (my computer) a removable Disk will occur in drive list, Double-click the icon to check the contents.
4. Copy the photos from the card to computer.



Trouble Shooting

A. Unite do not turn on

Solution:

1. Reinstall all batteries. Making sure of the correct polarity (+-) orientation
2. Replace all with new batteries
3. Clean the battery compartment, especially the contact points.

B. Observed image is too bright

Solution: If you are using IR light, press the IR to choose the suitable IR brightness.

There are 4 levels, OFF, level 1, level 2 and level 3. They are cycled in IR mode

C. Observed image is too dark

Solution: If light environment is dark, please press IR button to turn on IR light, there are 4 levels, OFF, level 1, level 2 and level 3. They are cycled in IR mode. Please choose the suitable IR level

D. Image is blurry

Solution: 1. re-focus by adjusting the lens part (FAR-NEAR) to when object outlook occurs, and then adjust the lens part (Clarity Adjustment)

2. Check the condition of the lens surface and color display, please clean them if necessary.

3. In low light conditions, activate the IR lamp

Technical Maintenance

Technical maintenance should be done at least twice a year, includes the following steps

1. Clean the outside metal and plastic surfaces from dust, dirt and moisture, wipe the lens and glass with a soft lint free cloth
2. Clean the battery compartment's electric contact points using an oil-free solvent
3. Inspect the Glass and lens and gently blow off any dust and sand, or clean them with a soft and clean cloth.

4. Keep device far away from humid environment



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