# 

PRODUCT INSTRUCTION

Shenzhen OWLNV Technology Co.,Ltd



Adjustment Ring 12.Eyeshade 13.Power Sleep Mode (short press) 14. Picatinny Lens Cap Holder 15.Red Dot Adjustment Holes 16.Adjustable Red Dot 17. Focus Adjustment Bar 18.Ports & Slots 19.Logo 20.Lens 21.TF Card Slot 22.USB Charging Port

11.Eyepiece Dioptre 1. The Objective Lens Cap should be attached to cap holder 2.Battery installation

23.HDMI Output

Storage card is not included. Please prepare a TF card (128GB maximum) for Installation

Take off the Objective Lens Cap and keep the LOGO up, then attach the Cap to

the Picatinny rail, as it shows in above picture.

Please use lithium polymer chargeable 3.7V flat battery 18650. Remove battery compartment cap and make sure setting the positive polar towards to the direction inward. Put the cap back and screw it until tight. (Fail to do so may result in restarting!).

### Enter the menu with a long press of Menu button(8). Press PIP +/- button(5/7) to select options. Reticle Adjustment Enter a submenu with a short Gyroscope press of OK button (6). Exit the Default Magnification menu with a short press of Menu Default Color button(8). Brightness Of IR Brightness Range Unit Selection

OWLNV Digital Night Vision

Standard Version

Digital Night Vision L3-LRF

OWLNV

Range Finder Version



1.Lens Cap 2.Lens Foucs Adjustment Ring 3.Stretchable IR Illuminator 4.Battery Compartment 5.Playback (long press) Up (short press) 6.Record (long press) Ranger Finder/Ok (short press) 7.IR Illuminator (long press to switch on B&W mode, then short press to switch on IR Illuminator)

Down (short press) 3.Menu (long press) Red Dot (short press) 9. Power indicator 10.Battery Cap

## 3.Adjustments

A simple test can be taken to check the functions of the device after the installation of battery. First, rotate and adjust the eyepiece dioptre adjustment ring(10) until you see the WiFi/Battery/IR icon on the screen (there's no need to see a clear image), then rotate the Objective lens adjustment

ring(2) until you can see your target clearly. Second, switch to different modes, test IR, Red dot or Range finder.

4. Mount Installation There are five mounting holes in the base of the device. Attach the mount to the base of the device by using a hex-nut wrench and screws. The mount can be installed in multiple rails.

## 1>PIP (Picture-in-Picture)

7. Menu Operation

Enter the submenu PIP mode with a short press of OK button(6). Select "PIP OFF,PIP ON,Shortcut Key OFF, Shortcut Key ON" with Up/Down(5/7) button . Confirm your selection with a short press of OK button(6).

Once the shortcut key of PIP is turned on, enter or exit PIP mode with a short press of Menu button(8). (Laser function can not work in this situation)

## 2>Reticle Adjustment

Enter the submenu reticle adjustment with a short press of OK button (6). Select options with a short press of OK button(6). Adjust options or value with some short

press of  $\pm$ -button (5/7). To confirm your setting by entering "Save" with a short press of + button (5), choose "Yes" with a short press of OK button(6); To deny your setting by entering "Save" with a short press of - button(7), choose "No" with a short press of OK

# Notes

## 1.Don't look at the IR infrared light directly, or it will damage your eyes!

2. Massive power will be gathered when the infrared light is turned on. Don't aim at flammable items at a close range, otherwise it may cause fire. Please turn the infrared light off or enter sleep mode after use.

3. Please use a rechargeable battery with a rated voltage of 3.7V!

4. Attempts to disassemble or repair the device without authorization will void the warranty. Please contact with the maintenance point in time if there's any needs.



This box contains a night vision optics with,

Adjustment Ring 12.Eyeshade 13.Power

11. Eyepiece Dioptre

Sleep Mode (short press) 14. Picatinny Lens Cap Holder 15.Red Dot Adjustment Holes 16.Adjustable Red Dot 17. Focus Adjustment Bar 18.Ports & Slots 19.Logo 20.Lens 21.TF Card Slot 22.USB Charging Port

23.HDMI Output

24.Laser Ranger Finder

1.Turn On/Off: Turn on the device with a short press of Power button(13). Turn off the device with a long press of Power button(13). Power indicator(9) will keep light when the device is turned on.

Instructions

## 2.Sleep Mode:

Enter sleep mode with a short press of Power/Sleep button(13) when the device

Power indicator(9) will keep light when the device entering sleep mode.

## 3. The Eyepiece Dioptre Adjustment

The purpose of dioptre adjustment is to get a clear image for users with different visions. Rotate and adjust the dioptre adjustment ring (11) until you get a clear view of the WiFi/Battery/IR icon on the screen. One adjustment only for each eye. The image might be not clear if the objective lens is not properly adjusted.

4. The Objective Lens Adjustment Make sure the eyepiece dioptre foucs is adjusted properly. Aiming at your target, rotate and adjust the objective lens ring(2) until you get a clear and well-focused image.

**5.IR Illuminator Control** Turn on the device, enter black and white mode with a long press of IR button(7). Switch to IR1-3 or off with a short press of IR button. The IR Illuminator(3) is stretchable which can be pull out or push back to make a quick adjustment.

## 6.Red Dot

Turn on the device, then turn the laser on/off with a short press of Laser/Menu button(8). The position of laser can be adjusted on the red dot adjustment holes(15) by a hex-nut wrench.

## 6.5x A X:0 Y:0 Style Color Save

## 3>Gyroscope

Enter the submenu Gyroscope with a short press of OK button(6). Select "Display" or "Calibration" with a short press of +/- button (5/7). Select "On" or "Off" to turn on/off the gyroscope after entering "Display". Turn on the gyroscope before you select "Calibration". Enter "Calibration" by a short press of OK button(6). Keep the machine horizontally and stand still for about 8 seconds to complete the calibration.

# 4>Default Magnification

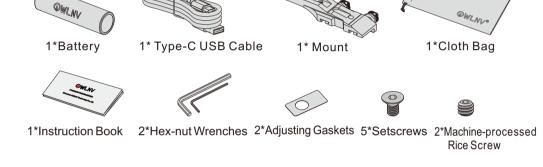
Enter the submenu Default Magnification with a short press of OK button(6). Select "6.5x" or "13x" as default magnification. Confirm your selection with a short press of OK button(6).

## 5>Default Color

Enter the submenu Default Color with a short press of OK button(6). Select "Color" or "Black & White" mode with a short press of +/- button (5/7). Confirm your selection with a short press of OK button(6).

1.Lens Cap 2.Lens Foucs Adjustment Ring 3. Stretchable IR Illuminator 4.Battery Compartment 5.Playback (long press) Up (short press) 6.Record (long press) Ok (short press) 7.IR Illuminator (long press to

switch on B&W mode, then short press to switch on IR Illuminator) Down (short press) .Menu (long press) Red Dot (short press) 9.Power indicator 10.Battery Compartment Cap



**Accessories Contents** 

# 6>Brightness Of IR

Enter the submenu Brightness of IR with a short press of OK button (6). Select "Off", "1", "2", or "3" with a short press of +/- button (5/7). Confirm your selection with a short press of OK button(6).

Please note this setting is for the default brightness of IR. Press IR button(7) under Black & White mode for instant setting of IR brightness.

# 7>Brightness

Enter the submenu Brightness with a short press of OK button (6). Select a level(LEVEL 0/1/2/3/4/5/6) with a short press of +/- button(5/7). Confirm your selection with a short press of OK button(6).

# 8>Range Unit Selection

Enter the submenu range unit selection with a short press of OK button (6). Select "Meter" or "Yard" with a short press of +/- button (5/7). Confirm your selection with a short press of OK button(6).

# 9>Auto Recording

Enter the submenu Auto Recording with a short press of OK button(6). Select "Off" or "On" with a short press of +/- button(5/7). Confirm your selection with a short press of OK button(6).

# 12>Record Audio

Menu

Date/Time

Default Setting

xiii Format

Version

Enter the submenu record video(mute) with a short press of OK button(6). Select "Off" or "On" with a short press of +/- button(5/7). Confirm your selection with a short press of OK button(6). It is a feature to choose mute video or sound video.

# 13>Beep sound

14>WiFi

Enter the submenu beep sound with a short press of OK button(6). Select "Off" or "On" with a short press of +/- button(5/7). Confirm your selection with a short press of OK button(6). This setting is to choose whether the keyboard press sound will be recorded into the video or not

Enter the submenu WiFi with a short press of OK button (5).

Enter the submenu "Format" with a short press of OK button (6). Select "Cancel" or "OK" with a short press of +/- button (5/7). Confirm your selection with a short press of OK button(6).

Please be careful, the data can not be recovered after the device is formatted.

# 19>Default Setting

18>Format

Enter the submenu "Default Setting" with a short press of OK button (6). Select "Cancel" or "OK" with a short press of +/- button (5/7). Confirm your selection with a short press of OK button(6).

# **Specifications**

Model	L3	Laser Detection Range	-	Dimension	186.5*57.5*70	Weight	530g
	L3-LRF		5-1000m		186.5*61*70		565g
Magnification	6.5x&13x	Focus	3m-∞	Eyepiece Resolution	1024*768 pixels	Transmission Method	Wi-Fi
IR Wavelength	850nm/940nm	IR Illumination Range	350m	IR Power	5w	Voltage	3.7V
Recording Format	MP4	Video Resolution	1920*1080 pixels	Frame Rate	30fps	Storage Type	TF Card (Upto128GB)
Battery Life	> 8hours			Battery Type	Li-ion 18650x1		

# 8.Shortcuts

# Power/Sleep button

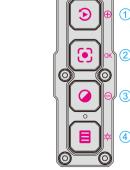
Turn on the device with a short press of power button, turn off the device with a long press of power button. Enter or exit sleep mode with a short press of sleep button.

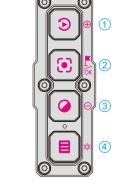
# ① Zoom(+) / play button

Zoom in or out with a short press of zoom button. Open or close the video file in memory card with a long press of zoom button, select videos by pressing +/- button, confirm the video by pressing OK button. Fast forward or rewind the video by pressing +/- button when the video is playing.

# Warranty card

Product model Product code ...... Date of purchase ..... Warranty period ..... User's phone Warranty records .....





Standard Version Range Finder Version

Enter the submenu Language with a short press of OK button(6). Select one of the

# 17>Date/ Time

Enter the submenu "Date/Time" with a short press of OK button(6). Select one of

# ② OK / Recording / LRF button

Turn on/ off range finder with a short press of LRF button . Turn on/ off record with a long press of record button.

# ③ IR/ mode switch (-) button

Switch to B&W mode or color mode with a long press of IR button. Short press IR button under Black & White mode to instantly set IR brightness.

# Menu/ Red dot

Turn on /off the red dot with a short press of red dot button. (This function will not work under PIP shortcut key mode.) Enter the menu page with a long press of menu button, exit the menu page with a short press of Menu button.

# Warranty

This product is warranted against defects in materials and workmanship for a period of Two years from the date of purchase.

This warranty is for the original purchaser only!

Notice: Do not disassemble the night vision device by yourself. If there is anytrouble, please contact the factory in time. If the repair, modification or product seal sticker is not approved by the company, it will not be covered by the warranty.

All damage caused by human factors or accidental product damage, including use in abnormal working conditions, failure to follow the



Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any

interference received, including interference that may cause undesired operation.

device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no quarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference

by one or more of the following measures: -Reorient or relocate the receiving antenna. —Increase the separation between the equipment and receiver. —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. —Consult the dealer or an experienced radio/TV technician for help.

In normal use, the wifi module away from the human body at least 5cm

# 10>Loop Recording Enter the submenu Loop Recording with a short press of OK button (6). Select

Menu

Auto Recording

Loop Recording

Date Stamp

Record Audio

Beep Sound

🤶 WiFi

Exposure

A Language

"Off", "3 minutes", "5 minutes" or "10 minutes" with a short press of +/- button(5/7). Confirm your selection with a short press of OK button(6).

# 11>Date Stamp

Enter the submenu Date Stamp with a short press of OK button(6). Select "Off" or "On" with a short press of +/- button(5/7). Confirm your selection with a short press of OK button(6).

## Select"Off" or "On" with a short press of +/- button (5/7). Confirm your selection with a short press of OK button(6). Exit WiFi with a long press of Menu button (8). (The Menu page can not be opened while WiFi is turned on) The default user name and password of WiFi are OWLNV and 12345678. The corresponding APP is available in its official website.

Enter the submenu exposure with a short press of OK button(6). Select one of the options with a short press of +/- button(5/7). Confirm your selection with a short press

# 16>Language

15>Exposure

options with a short press of +/- button(5/7). Confirm your selection with a short press of OK button(6).

the options with OK button(6). Select a correct value for year, month and date with a short press of +/- button(5/7). Select "YY /MM/DD", "MM/DD/YY" or "DD/MM/YY" as your date format with a short press of +/- button(5/7). Save selected date and exit the submenu with a short press of Menu button(8).