OWLNV

Digital Night Vision N7

User Manual



Important Note

1.This product can only be adapted to optical telescopes with AO focus or side focus feature.

2. A few optical telescopes may not work due to its particular design of optical path.

3. Internal diameter of sleeve is 48mm, applicable external diameter of eyepiece is 38mm-48mm.

WARNING

1. Looking directly at the IR light can cause serious damage to your eyes.

2. Infrared light when turned on consumes massive amount of power. Don't aim at flammable items at a close range as it may cause fire.Please turn the infrared light off or enter sleep mode after use.

3. Please use only 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 our authorized maintenance points whenever needed.



1 Stretchable IR Illuminator
2 Battery Compartment Cap
3 Sleeve Base
4 Sleeve O-ring
5 Sleeve Lock
6 Objective Lens Focusing Adjustment Ring
7 Eyeshade
8 Eyepiece Dioptric Adjustment Ring
9 TF Slot / Type-C / HDMI
10 Logo



11 Red Dot
12 Red Dot Adjustment Holes
13 Sleep / Power Key
14 Red Dot Key
15 IR Illuminator / B&W Mode Key
16 OK / Photo / Record Key
17 Menu / Playback Key
18 Zoom / WiFi Key

Unpacking

This box contains a night vision optics with,



1*Sleeve 1*Type-C USB Cable 1*Cloth Bag 1*Instruction Book 2*Hexagon Wrenches
2*Sleeve screws 3*Sleeve Rings 1*P.V.C Tape 2*Sleeve O-Rings

TF Storage Card
-Storage card is not included. Please prepare a TF card (128G maximum) for data storage.
-WiFi Streaming needs to have the TF-CARD installed otherwise this may cause videos to freeze.

Installation

1. Battery Installation

Please use lithium-ion chargeable 3.7V flat battery 18650. Make sure the positive polar and negative polar match the indication inside the battery compartment.

2. Scope Installation

1> Connect "Sleeve" to "sleeve base" of the scope

Find the notch of the sleeve. Match and push the sleeve into sleeve base. Rotate the sleeve till you hear a click sound.

2>Connect the Sleeve to your scope

First, insert the eyepiece of your scope into the Sleeve, preferred gap of in-wall of your scope and outer wall of the sleeve less than 0.1mm.Wrap the electrical tape to the eyepiece of your scope to ensure the gap will be less than 0.1mm.

Then,ensure the reticle of your rifle scope is upright on the screen by rotating the sleeve.

Last,tighten the screws on the sleeve.

Adjustment

1. The Eyepiece Adjustment

1> Turn power on

2> Rotate ⑧the Eyepiece Dioptric Adjustment Ring till you get a clear view of the WIFI / Battery / IR icon on the screen.

2.The Objective Lens Focus adjustment

3>Rotate ⑥the Objective Lens Focus Adjustment Ring to a clear reticle view of your rifel scope.

4>Once screen is at preferred clear reticle view, then your scope is good to go.

Instructions

1.Turn On/Off

Long press ⑬"Power" Button to turn on / off.

2. Sleep Mode

Short press ⑬"Power" Button to enter Sleep Mode while the device is on.

Short press ⑬"Power" Button to wake-up.

3. IR Illuminator

Long press ⑮"B&W" button to activate black and white mode, then short press "B&W" button to activate IR illuminator.

Single press ⑮ "B&W" button to adjust brightness of IR illuminator.

Double press ⑮ "B&W" button to switch wavelenth between 850nm and 940nm.

4. IR Illuminator Brightness Adjustments

Short press the ⑮"B&W" button to select brightness while IR illuminator is turned on.

5. Red Dot

Short press ⑭ "Red Dot Switch" button to switch on Red Dot.

Menu Operation

Short press "Menu" button to Go to Menu.

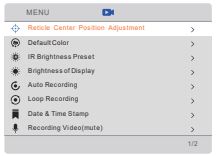
Short press "OK" button to enter Sub-menu.

Short press "Menu" button to exit Menu.

1> Reticle Center Position Adjustment

This is to center-align the cross-hair of YOUR rifle scope in the display.

Go to "Menu". Select and enter "Reticle Adjustment" then adjust the "x"-axis & "y"-axis by pressing "+"/ "-" and "IR" / "Menu" Button.Press "OK" to confirm your setting.



正面

2> Default Color

This is to preset the "color Mode" or "B&W" mode, which will be activated after restarting.

Color Mode, use in daytime.

B&W Mode,use in night time(IR Illuminator can be switched on only under the B&W mode).

Go to Menu, select and enter Default Color, select "Color" or "B&W" mode.

Short press OK to confirm your selection.

3>IR Brightness Preset

This is to preset the brightness of IR , which will be activated after restarting.

Go to Menu. Select and enter Brightness of IR. Select preferred brightness, "off","1","2","3".Short press OK to confirm your selection.

4> Brightness of Display

Go to Menu. Select and enter Brightness of Display Screen.Choose preferred brightness.Short press OK to confirm your selection.

5> Auto Recording

The scope will record automatically when turned on if set with "On"

Go to "Menu". Select and enter "Auto Recording". Choose "Off" or "On".Short press "OK" to confirm your selection.

6> Loop Recording

This is to continuously record by replacing a previously recorded clip if the TF card is out of space."3 minutes", means the each clip will be recorded for 3 minutes, the earliest clip will be replaced by new clip when TF card is full.

Go to Menu. Select and enter Loop Recording,Select "off" and "3minutes", "5minutes", or "10 minutes".Short press OK to confirm your selection.

7>Date & Time Stamp

This is to determine if date & time will be showed on photo / video.Go to Menu. Select and enter Date Stamp,Select "Off" and "On".Short press OK to confirm your selection.

8> Record Video (Mute)

This is to determine if the audio will be recorded in the clip."On" means with audio recorded."Off" means without audio recorded.

Go to Menu. Select and enter Record Video (Mute).Select "Off" or "On".Short press "OK" to confirm your selection.

9> Beep Sound

This is to determined if Beep Sound will be recorded in the video when operating the scope

Go to Menu.Select and enter Beep Sound.Select "Off" or "On".Short press OK to confirm your selection.

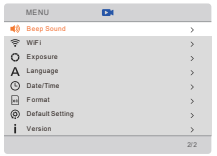
10> WiFi

This is to go streaming on alternative device.Go to Menu.Select and enter WiFi.Select "Off" or "On".Short press OK to confirm your selection.

The default WiFi user name is OWLNV.

The default WiFi password is 12345678.

An official OWLNV app will be released soon,please reach out to cs@owlnv.com for alternatives.



11> Exposure

Go to "Menu". Select and enter "Exposure". Choose from different options.Short press "OK" to confirm your selection.

12> Language

Go to "Menu". Select and enter preferred Language. Short press "OK" to confirm your selection.

13> Date / Time

Go to Menu. Select Date/Time.

Press Up/Down button to Select Year/Month/Date/Time or format of date.

Press OK button to move between Year/Month/Date/Time.

Short press Menu button to confirm your selection.

14> Format

Go to Menu. Select and enter Format. Select "Confirm" or "Cancel".

IMPORTANT: ALL DATES WILL BE DELETED AND CAN'T BE RECOVERED AFTER FORMAT.

15> Default Setting

Go to Menu.Select and enter Default Setting. Select "Ok" or "Cancel".Short press OK to confirm your selection.

Shortcuts

-Long Press IR button to switch between Color Mode and B&W mode. (Infrared illuminator can only be switched on under B&W mode)

-Long Press "WiFi" button to switch on or off WiFi.

-Short Press "-" button to zoom in .

-Short Press "+" button to switch on/off Red Dot.

-Long Press "Playback" button to playback video clips which stored in TF card.

-Short Press "Record / Photo" button to take picture .

-Long Press "Record / Photo" button to video record.

Specifications

Model No.	N7	Battery	18650X1	Dimension	131*97*64 (include eyeshade)
Magnification	4X-14X	IR wave length	850nm&940nm	IR power	5W
Photo resolution	1920*1080	Storage type	TF Card (Up to 128GB)	Battery life	>8h
Sleeve size	<45mm	Focusing	3cm-∞	Transmission method	WIFI
Video resolution	1920*1080	Weight	300g	IR illuminate distance	350m
Eyepiece resolution	1024*768	Frame rate	30fps	Output type	MP4
Voltage	3.7V	Charge Type	Type-C		

Warranty Card

Product Model: _____

Product Code: _____

Date of Purchase: _____

Warranty Period: _____

User Name: _____

User's Phone: _____

User Address: _____

Warranty Records: _____

Warranty

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

This warranty is for the original purchaser only!

Notice :

Operate this device in daylight or view any strong radiation source like the Sun, electric welding and Laser directly may cause permanent damage to internal parts of this device and this is not covered by the Warranty.

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.

FCC Statement:This equipment has been tested and found to comply with the limits for a Class B digital 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 guarantee 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 5mm

背面

N7说明书制作要求：1.双胶纸（60g）双面彩印；
2.灰色虚线是需要印刷的，绿色虚线不要印刷；
3.印刷成品未折叠前的大小为A3大小，即297mm*420mm；
4.如右图所示，按照灰色虚线和绿线虚线折叠；折叠后的尺寸为：148.5mm*105mm，且有LOGO的第一格在最外面

