

# HD Head-mounted Rangefinder Night Vision Device



User Manual

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## Introduction

Thank you for purchasing our company's NVG08S multi-function high-definition night vision device. Please read this manual carefully before use and keep it properly. Familiarity with the operating methods and technical parameters of the product in the manual will help you have a better experience. We look forward to our products bringing you happiness.

NVG08 captures high-definition photos and videos with its excellent optical clarity during the day, low light or at night, and can accurately measure distances during the day and night through the ranging function and confirm the direction outdoors with the electronic compass function. This machine can be observed handheld or used as a helmet night vision device.

The videos and photos in the machine can be transferred to the computer and network platform through the Type-c cable when the machine is turned on, or the contents of the SD card can be directly read through the card reader and transferred to the computer and network platform.

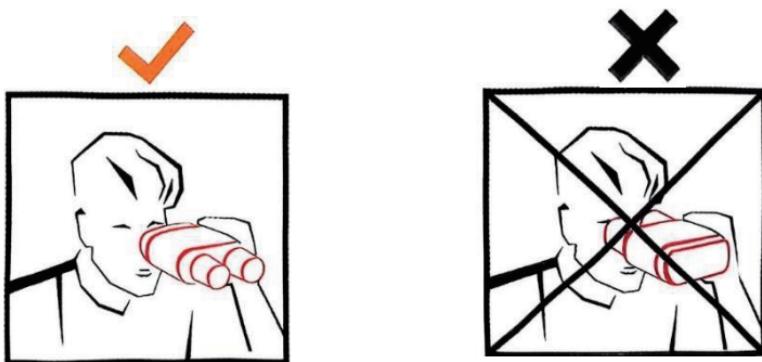
## ① Tips & Warnings

### Correct observation method

Please do not observe through the glass, as this will affect the observation effect.



### Use the Correct Direction



# 1. Product Description

## Structure Diagram



①IR Infrared Lamp	⑧Objective Focus Knob
②IR Control Button	⑨Distance measurement
③Color switch/NV mode key	⑩Ranging operation button
④MicroSD Card Slot	⑪Digital zoom button
⑤Power button	⑫Confirm button
⑥USB port	⑬Digital zoom out button
⑦Mode button	⑭Helmet Bracket Slot
⑮Eyepiece Cover	⑯Eyepiece

### 3.Button Operation Statement

<b>DM</b>	<ol style="list-style-type: none"><li>1. Long press to switch the distance measurement status: Off/Manual/Auto</li><li>2. In the case of manual distance measurement, short press once to measure the target distance once.</li></ol>
<b>IR</b>	<ol style="list-style-type: none"><li>1. In video/photo mode: Click the [IR] button to turn on the infrared light night vision mode. Click the [IR] button again to increase the infrared brightness. There are 4 levels of infrared light. When the highest level is reached, press the [IR] button to turn off the infrared light.</li><li>2. Press and hold the IR button and the infrared light brightness will directly reach the highest level</li></ol>
<b>C/NV</b>	<ol style="list-style-type: none"><li>1. Short press to change the background color of the display</li><li>2. Long press the button to enter the super night vision mode, and the NV mark will be displayed on the screen. In the super night vision mode, it can adapt to very dark external light conditions.</li></ol>
<b>[]</b>	<ol style="list-style-type: none"><li>1. Press and hold for 3 seconds to turn on or off the night vision device. When the screen is on,</li><li>2. Click once and the screen will enter sleep mode. The machine will work as usual. Press any key again to exit the screen sleep mode.</li></ol>
<b>[M]</b>	<ol style="list-style-type: none"><li>1. In the standby interface, click the [MODE] button to switch between photo, video and playback modes.</li><li>2. In the standby interface, long press the [MODE] button to enter the system menu, and long press again to exit the system menu.</li><li>3. In the system menu mode, click the [MODE] button to return to the previous menu.</li></ol>
<b>[OK]</b>	<ol style="list-style-type: none"><li>1. In video mode: click to record, click again to stop recording.</li><li>2. In photo mode: click to take a photo.</li><li>3. In playback mode: click to play the video, click again to stop the video playback.</li><li>4. In system menu mode, click the OK button to confirm the current selection.</li><li>5. In photo and video modes, long press the OK button to call up or eliminate the picture-in-picture on the screen.</li></ol>
<b>[]</b>	<ol style="list-style-type: none"><li>1. In video mode: click to zoom in.</li><li>2. In camera mode: click to zoom in.</li><li>3. In playback mode/system menu mode: click to function as an up option.</li></ol>
<b>[]</b>	<ol style="list-style-type: none"><li>1. In video mode: click to zoom out.</li><li>2. In camera mode: click to zoom out.</li><li>3. In playback mode/system menu mode: click to play the down option.</li></ol>

## 4.Basic Settings and Function Operations

### 4.1 Battery Installation

Please use the screwdriver provided by us to open the battery cover and install the battery according to the markings in the battery box.

※Tip 1: The 21700 battery is installed in this machine, and the battery can be charged directly through this machine.

※Tip 2: This series of products supports mobile power and 5V external power supply to the machine

### 4.2 Inserting an SD card

1.Insert the micro-SD card into the micro-SD card port and push until it locks into place.

2.To remove an installed micro-SD card, push the card inward and it will pop out.

※Tip 1 The recommended storage capacity is between 4GB and 256GB.

※Tip 2 If the machine cannot read the SD card normally, please use this machine to format the SD card. After formatting, if the machine still cannot read it normally, please try using a new micro-SD card.

### 4.3 Power on/off

Press the power button for 3-4 seconds to turn on the night vision device and enter observation mode.

When the device is powered on, press the power button for 3-4 seconds to turn off the night vision device.

## 4.4 Distance measurement

Press and hold the 「DM」 button and pay attention to the changes on the display. The distance measurement mode is displayed at the bottom of the screen, and the target area for distance measurement is in the red box in the center of the screen.

The screen displays Distance measurement off, indicating that the rangefinder is not turned on.

The screen displays Manual distance measurement. At this time, short press the DM button once to measure the distance of the target object once.

The screen displays Automatic distance measurement. The rangefinder works in real time and feedbacks the distance of the target area at any time.

## 4.5 WIFI connection



QR code



Viidure

WIFI APP

1. Scan the QR code (Figure1) to download the "Viidure" APP (Figure2) .
2. When turning on the night vision, long press the 「M」 key to enter the menu, select "WIFI" → then select "ON", check the SSID and WPA2.
3. Open the "Viidure" app, click on "Add Camera" → "Next", find the "SSID" number of the night vision device in the WIFI account, enter the WPA2 password to complete the connection. Once connected, open the Viidure APP.
4. In the app, you can take photos and record videos, simply exit to end. You can also long press the 「M」 Key on the night vision device to exit the WIFI.

## **4.6 Viewing/Photographing**

Press the [M] button and select the photo shooting mode; the icon will appear in the upper right corner of the screen. At this time, press the [OK] button to take a photo.

※Tip 1 Aim at the object to be observed and look at the screen from the eyepiece #⑯. Adjust the objective lens focus knob #⑧ to obtain the clearest image.

※Tip 2 Press to turn on digital zoom, but if the external light is very dim, digital zoom is not recommended.

## **4.7 Video Recording**

Press the [M] button and select the video mode. The icon will appear in the upper right corner of the screen. Press the [OK] button to start recording the video. The red dot flashes to indicate that the video is recording normally. Then press the [OK] button again to stop recording.

## 4.8 Playback/File View

Long press the [M] button and select the playback mode. You can switch between viewing saved photos and videos using the [  ]/[  ] buttons.

## 4.9 Deleting files

In playback mode, press and hold the [MODE] button. Delete the file image you are viewing. Use the [  ]/[  ] button to select [Yes] or [No], and then press the [OK] button to delete the image.

## 4.10 Protecting videos and photos

In playback mode, press and hold the [M] button. Protect the image you are viewing. Use the [  ]/[  ] button to select [Protect] or [Unlock protection], and then press the [OK] button to protect the image.

Setup	
	Delete
	Protect
1/1	

Setup	
	Protect
	Lock Current
	Unlock Current
	Lock All
	Unlock All
1/1	

## 4.11 Adjust the focus

Select the target/reference object and slowly rotate the objective lens focus knob 2 until the image on the display is clear.

## **4.12 Using the zoom function**

In video mode/photo mode, press the [+] / [-] key to select digital zoom.

## **4.13 Using infrared**

This device with built-in infrared can be used in a completely dark environment.

Press the [IR] button to activate the infrared light. Select the brightness between 1 and 4 levels. The concentrated light is very effective for observing distant objects in the dark.

## **4.14 Connecting to a computer/transferring files**

### **Method 1**

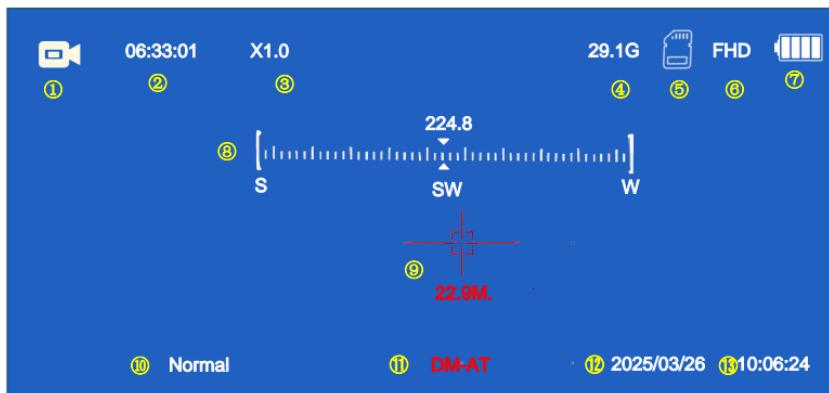
Use a USB cable to connect the computer and the night vision device. On the display of the night vision device, "Mass Storage" will be displayed. At this time, you can find the photos and videos in the night vision device card under "My Computer/Removable Disk" on the computer.

### **Method 2**

You can remove the SD card in the machine and use a card reader

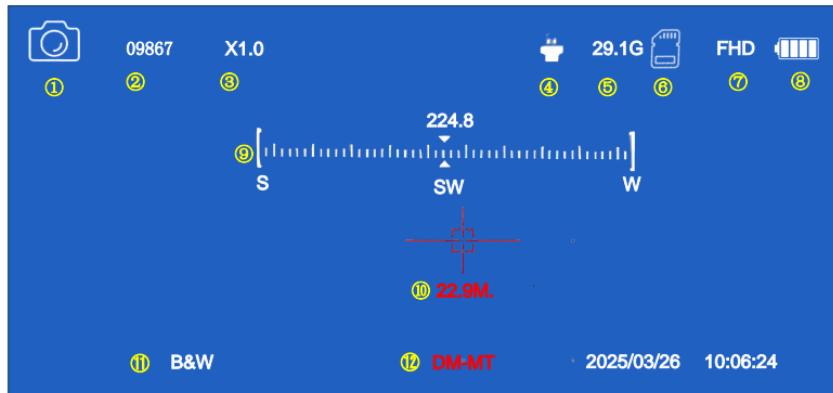
※Tip 1 Please turn on the power of the night vision device when connecting to the computer, otherwise the computer cannot recognize the device.

## 5.1 Video Mode Display



<b>1</b>	Video Recording Mode Icon
<b>2</b>	Recording Time
<b>3</b>	Digital Magnification
<b>4</b>	Memory Card Capacity
<b>5</b>	SD card Status
<b>6</b>	Full High Definition
<b>7</b>	Battery Level Indicator
<b>8</b>	Compass Bearing
<b>9</b>	Distance Measurement on
<b>10</b>	Color Mode
<b>11</b>	Full Color Mode
<b>12</b>	Date Display
<b>13</b>	Time Display

## 5.2 Photo Mode Display



1	Photo Mode Icon
2	Photograph Quantity Available
3	Digital Magnification
4	Infrared Intensity Indicator
5	Memory Card Capacity
6	SD card Status
7	Full High Definition
8	Battery Level Indicator
9	Compass Bearing
10	Distance Measurement on
11	Black and White Mode
12	Manual Distance Measurement

## 5.3 Playback video/photo mode display



1	Review mode icon
2	Battery level indicator
3	Shooting date and time
4	Video/photo serial number

## 5.4 System menu display

[System menu page]: In the photo and video modes, long press the [MODE] key to enter the following mode, press the zoom in and zoom out keys to move up and down, select the directory to be adjusted, when the cursor moves to the directory, press the OK key to confirm your selection, press the [M] button to return to the previous menu. You can make corresponding settings according to your needs. If you feel that the effect after the setting is not as good as the original setting, you can restore the factory settings in the system menu.

## 6.Specification

Model	NVG08S
Optical zoom	1X ( Fixed multiple )
Digital zoom	6X ( Can be adjusted)
Objective lens diameter	18MM
Eyepiece	72MM*40MM
Infrared fill light	3W,850mm, 4 levels adjustment
Range measurement range	10m-1200m
Range measurement accuracy	$10 \leq L \leq 100m : \pm 1m; L > 100m : \pm (1 + L * 0.4\%)m$
Display screen	3" LCD, 854*480
Photo resolution	7392*4160
Video resolution	2560*1440
Interface	USB, TYPB-C
Working voltage	3.45V -5.8V
Body weight and size	525g 245*165*83mm
Protection level	IP56
Electronic compass	yes
WIFI link	yes
Photography and video recording	yes
Playback	yes
Picture in picture (PIP)	yes
Display brightness adjustment	yes
Automatic switch	yes
Cross auxiliary line	yes
Time adjustment	yes
Night vision enhancement	yes
Support mobile phone connection	yes

## 6.Specification

Model	NVG08F
Optical zoom	5X ( Fixed multiple )
Digital zoom	6X ( Can be adjusted)
Objective lens diameter	42MM
Eyepiece	72MM*40MM
Infrared fill light	3W,850mm, 4 levels adjustment
Range measurement range	10m-1200m
Range measurement accuracy	$10 \leq L \leq 100m : \pm 1m; L > 100m : \pm (1+L*0.4\%)m$
Display screen	3" LCD, 854*480
Photo resolution	7392*4160
Video resolution	2560*1440
Interface	USB, TYPB-C
Working voltage	3.45V -5.8V
Body weight and size	575g 255*165*86mm
Protection level	IP56
Electronic compass	yes
WIFI link	yes
Photography and video recording	yes
Playback	yes
Picture in picture (PIP)	yes
Display brightness adjustment	yes
Automatic switch	yes
Cross auxiliary line	yes
Time adjustment	yes
Night vision enhancement	yes
Support mobile phone connection	yes

Q: After turning on the device, there is nothing but a white screen. What did I do wrong?

A: Please use our original SD card or use the SD formatting software on this machine before trying again.

Q: Can I turn down the display brightness? Too bright for me?

A: Yes, our default setting is to automatically adjust the brightness. If you feel uncomfortable, there is a "bright" setting in the system menu settings, which can be set to 1, 2, 3, 4, 5 levels. 1 is the lowest level.

Q: Will this work in complete darkness?

A: Yes, you can use infrared, no moonlight or starlight is needed.

Q: Why can't the device be read after connecting to the computer?

A: Please turn on the power of the night vision device when connecting to the computer.

B: Please use our original USB cable to connect

Q: Why can't the SD card be read normally after inserting it?

A: Please format the SD card with this machine. If it still cannot be read normally, please replace it with a high-quality SD card.

B: Do not use SD cards larger than 256GB, it is recommended to use 32G cards.





