

**Digital Night Vision Monocular**

Operating Manual

Model: DENVER NVI-450

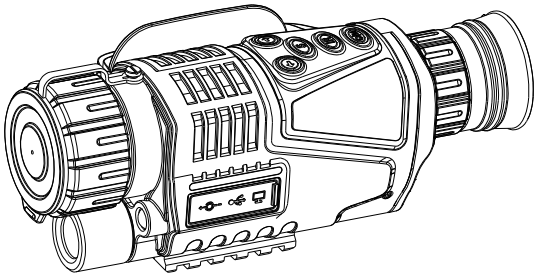
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## DENVER NVI-450

### *Operating Hints*



**【Name】** Digital Night Vision

**【Model】** DENVER NVI-450

**【Features】**

- It is a night vision monocular which can be used to observe objects in the dark and low light situation. Two lighting modes are available to use. The viewing distance in the low light environment will be at infinity, 200 meters viewing distance in the dark environment.
- Easy to exchange data with other instruments, having USB, AV OUT and DC IN sockets.

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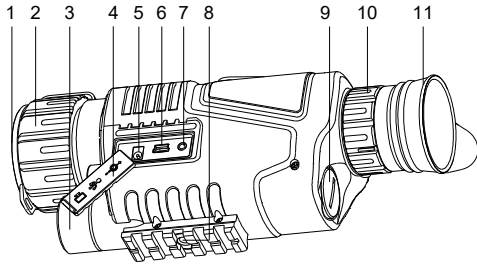
- It can be used normally in the day or night, owning the photo shooting, video shooting, playback and other functions. 5X fixed zoom and 5X digital zoom.
- It is the best auxiliary tool of extending human's visual senses.

**【Operating Hints】**

- It is a night vision monocular which can be used to observe objects in the dark and low light situation. Two lighting modes are available to use.
- It is suitable to use in full dark environment.
- Turn the auxiliary light on to observe the objects when it works in the dark situation. Adjusting the brightness by the distance of the objects. CCD is used in this viewer. If there is any light resource existed, the auxiliary light could not be turned on, please adjust the focal distance only to get the sharp image of objects.
- Work time: 1 hour under auxiliary light mode; 1.5 hour without using auxiliary light mode.

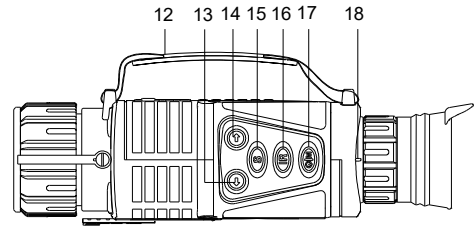
## DENVER NVI-450

### *Components Introduction*



- 1 - Objective Cover
- 2 - Objective Focusing Wheel
- 3 - High Beam Light
- 4 - Socket Door
- 5 -Micro SD card Slot (Not Incl.)
- 6 - USB2.0
- 7 - DC 5V
- 8 - Tripod Receptacle
- 9 - Battery Cover
- 10 - Diopter Ring
- 11 - Eyecup

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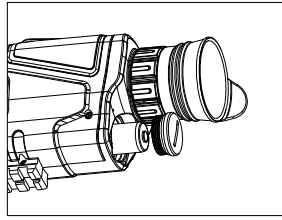


- 12 - Hand Grip Strap
- 13 - Up
- 14 - Down
- 15- Functions(for photos shooting, video shooting and playback)
- 16 - Auxiliary Lighting/Brightness Adjustment
- 17 - POWER/FUNCTION
- 18 - Diopter Dial

*Operating Instructions*

**【Battery Installation】**

- Turn the battery cover down; insert one battery correctly (note the negative electrodes bottomed) and turn the cover back. Turn the viewer on, the screen could be lightened up if the battery installed correctly. Otherwise, please reinstall the battery again or tighten the cover again.

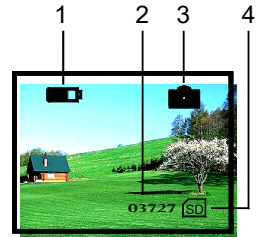


**【Announcements】**

- Ensure the model of battery should be correct;
- Ensure the electric quantity should be full enough;
- Pay attention to the anode and the cathode of the battery.

**【Power On】**

- Take the objective cover down.
- Long press #17 for 3 seconds to lighten screen up, observing from Eyecup(#11), if the screen has been lightened up and icons have been shown normally, the viewer could be used then
- Icons Instructions:
  - 1 Battery
  - 2 Images Size
  - 3 Current Mode: Photo Shooting Mode
  - 4 SD card in
- The Observing (Photo Shooting) Mode is available to use after the startup.



**【Power Off】**

- In any mode, long press #17 for 3 seconds to turn it off.

Operating Instructions

【Scenery Observation】

● Take the objective cover d screen from eyecup#11.

1. Adjust the diopter the sharp images
2. Adjust the objective focusing wheel #2 to make the images to be sharpest and easy to observe then.



Brightness Adjustment

● Automatic fine-tuning control of display brightness could be operated by Viewer.

● Digital zoom could be realized by pressing #13 and #14 ranged at 1x to 5x.

● If the environment is light auxiliary light off to save the power. Or turn the auxiliary light on to get the sharp



High Beam Adjustment

【Announcements】

Don't block the light resource.

【Brightness Adjustment】

● In the observing mode, press #16.

● Enter the menu of brightness adjustment.

Just as the screen showed, the number after "Bright" means the current brightness index.

● Press #15 to heighten the index and #16 to lower it. 9 means the highest brightness of display. The index ranged at 1 to 9, 9 means the brightest index.



【High Beam Adjustment】

In the observing mode, press #16 twice to enter the high beam adjustment menu.

The screen will be just as the picture showed.

The index of LAMP shows the intensity of auxiliary light.



*Operating Instructions*

- Press UP#13, DOWN #14 , the high beam will be changed ranged at 0 to 9(9-highest, 0-off).
- When the high beam function is opened, the menu is exited, LAMP shows on the screen will be flickered.

**【Date and time set up】**

Press#17 three times and then press the DOWN #14 you will come to the time setting surface. Press UP#13, DOWN #14 to change the numbers and press #17 to select the year, month or time and save .

**【Announcements】**

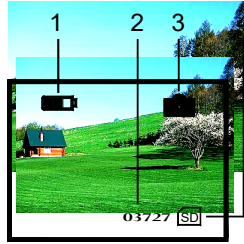
On any mode above, the menu will be disappeared and went back to observing (photo shooting) mode if there is any operation within 8 seconds.

Please turn the auxiliary light off if you don't use it to save the battery.

*Operating Instructions*

**【Photo Shooting】**

● Enter the observing mode automatically after the viewer turned on and in this mode, you could take the pictures of the scenery.

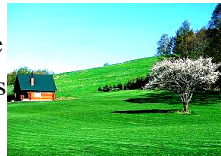


**Icons Instructions:**

- |                                     |                        |
|-------------------------------------|------------------------|
| 1 Battery                           | <b>Photos Playback</b> |
| 2 Images Size                       |                        |
| 3 Current Mode: Photo Shooting Mode |                        |
| 4 SD card in                        |                        |

● press #17 to shoot a photo and the photo will be saved automatically in the SD card.

● The image size is based on the SD card. The minute difference is the actual image size.



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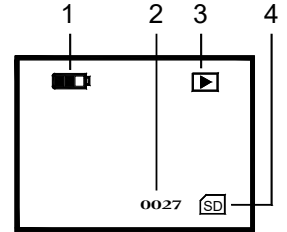
**Video Playback**

**【Playback】**

● In the Observing (Shooting) mode, press #15 to enter the Playback function.

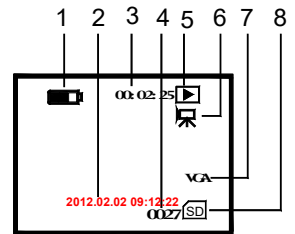
● Icons  
Instructions(photo):

1. Battery
2. The serial number
3. Playback mode
4. SD card in



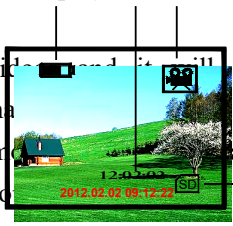
● Icons Instructions(video):

1. Battery
2. Date
3. Time counting
4. Current serial No.
5. Playback Mode
6. Video Playback Mode
7. VGA Video Format
8. SD card in



*Operating Instructions*

- In the playback mode, press #13 and #14 to view the photos and videos. The playback order is based on the shooting mode.
- Identify photos and videos and it will be entered different menus automatically.
- In the video playback mode, press #13 to start the video and press again to stop.



Micro SD card Slot (Not Included) **Video Shooting**

**【Video Shooting】**

- In the observing mode, press #17 twice to enter the video shooting mode.

Icons Instructions:

1. Battery
2. Timing
3. Video Shooting
4. SD card in

- Press #17 to start video shooting.
- The video could be saved in SD card automatically.
- The video size is based on the surplus capacity of SD card. The minute difference is available between the actual video size.



**【Monitor Connection】**

- Connect monitor to video Output Interface.
- Long press #15 for 3 seconds to switch the display on the screen of external monitor.

**【PCs Connection】**

- The viewer is equipped with USB2.0 interface.
- The PC could identify the viewer automatically and read the content in the SD card.
- The battery could be charged by connection of PCs.

**【Auto Power Off】**

- The viewer will be turned off if there is not any operation within 3 minutes except in video shooting and playback mode.

**【Battery Application】**

- Model: 14500, 800mAh, 3.7V.
- Please ensure the battery should be charged 10 hours to make it works best in the first time.

**【External Power】**

- Plug the DC IN 5V in.
- The viewer could work for long time and won't be powered off automatically.
- The viewer could be charged when the external power connected well.

## DENVER NVI-450

### *Basic Parameters*

#### 【Basic Parameters】

Type	Items	Index
Optical Performance	Magnification	5
	Dimension of Objectives	$\phi$ 40mm
	Field of View	5° x3.75°
	The Range of Ocular Adjustment	$\pm$ 0.6
	Observing Distance (Low Light Environment)	2m~ $\infty$
	Observing Distance (Full Dark Environment)	~200m

Power	Voltage	3.7V DC
	Replaceable Battery	Rechargeable Battery
	Charging Source	5.0V/2A Adapter
Other	Measurement (L×W×H)	200 x 86 x 56 mm
	Weight	400g

*Configuration Standard*

**【Configuration Standard】**

Items	Amount
video cable	1
USB cable	1
Pouch	1
External power adapter	1
Operating Manual	1
Hand grip Strap	1
battery	1
Cloths	1

**【Operating Environment and Announcements】**

The viewer should be kept in the soft pouch. Operating temperature ranged at -5~40°C. Relative humidity is 80%. In order to avoid the wetness and mildew, please keep it in the clear and dry environment. Avoiding the great pressure and solar radiation also please.

When the image jitter happens or the LCD couldn't be lightened up, please charge the battery in time.

Blow away the dusts before wipe the optical surface. If the viewer won't be used for a long time, please keep charge the battery occasionally to avoid the effectiveness lose.

Please notice - All products are subject to change without any notice.  
We take reservations for errors and omissions in the manual

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