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**Digital Night Vision Monocular**

**Instruction Manual**

**Model: PJ2-0532**

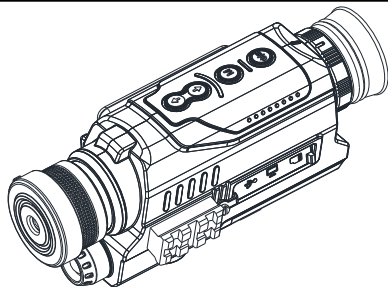
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**OVERVIEW**



**【NAME】 Digital Night Vision Monocular**

**【MODEL】 P4-0118**

**【FEATURES】**

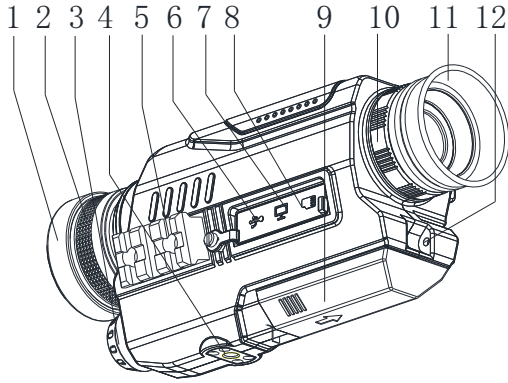
- The digital night vision monocular is a powerful gadget to view objects in circumstances where it is totally dark or of very low light. The viewing distance is up to infinity (low light) or 200m (total darkness).
- The device has USB and AV OUT interfaces.
- This multifunctional device can be used for photo shooting, audio/video recording & playback etc. , both during the day or at night, with 5X optical zoom and 8X digital zoom.
- It is a perfect auxiliary device to extend human vision.

**CAUTIONS FOR USE**

**【CAUTIONS FOR USE】**

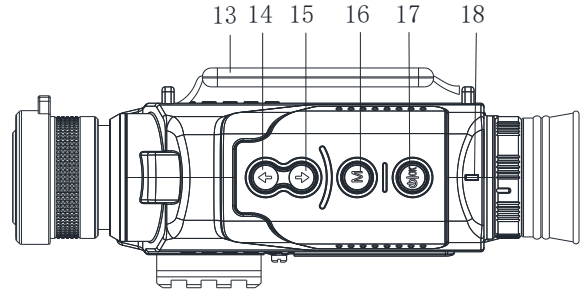
- This hand-held digital night vision monocular is a precise optoelectronic device which is applied to observing objects at night, even in total darkness..
- The device is equipped with a built-in powerful infrared (IR for short) illuminator that enables clearer viewing in low ambient light conditions.
- The IR will turn on automatically when the device works in the dark environment. Users can adjust the brightness of IR according to the distance of objects. An infrared sensitive CMOS sensor is utilized. The IR will turn off automatically if any light resource is available, such as streetlight or moon light. In this case a clear image will be obtained simply by adjusting the focal length of the objectives.
- Operation duration: Approximate 2.5 hours with the IR on and 6 hours with the IR off.

**COMPONENTS**



- |                      |                           |
|----------------------|---------------------------|
| 1 - Objective Cover  | 2 - Objective Focus Wheel |
| 3 - Auxiliary IR     | 4 - Tripod Socket         |
| 5 - Picatinny Rail   | 6 - USB 2.0               |
| 7 - AV OUT Interface | 8 - TF card               |
| 9 - Battery cover    | 10 - Diopter Dial         |
| 11 - Eyepieces       | 12 - Hand Strap Holder    |

**COMPONENTS**



- 13 - Hand Strap
- 14- Down
- 15 - Up
- 16 - Function Switching
- 17 - Power on-off/ function confirm/ video play & stop button
- 18 - Diopter Dial

**OPREATING INSTRUCTIONS**

**【BATTERY INSTALLATION】**

- Pull the battery cap backward to take it off. Insert three pieces of AA battery with negative ends inward.
- Press button #17 . If the screen lights up that means you have already loaded the battery correctly. If not, please repeat the steps above, until the device works properly.
- If the device failed to work after you made sure that the battery is in good condition and the cover is closed properly, please return it to your vendor for service.

**【NOTES】**

- The battery should meet the following requirements:
  1. The battery has been fully charged;
  2. Pay attention to the direction of positive and negative ends while installation;
  3. NO lithium battery of same size, such as 14500 lithium battery, should be used, that will damage the motherboard.

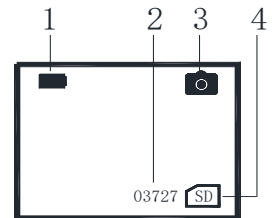
**OPREATING INSTRUCTIONS**

**【POWER ON】**

- Remove the objective lens cover. Press #17 , view through #11 eyepieces. If the internal screen lights up and icons are displayed as shown in this picture, it means that the device works properly.

- Icon legend:

- 1 Battery Indicator;
- 2 Number of Photos Available;
- 3 Photo Mode;
- 4 TF card Inserted





- Observation (photo) mode is activated after the device is turned on, and normal observation and photo taking operations are available.

**【POWER OFF】**

- In any mode, press #17 for seconds the device will go off.

**OPERATING INSTRUCTIONS**

**【SCENERY OBSERVATION】**

- The objective cover is fitted with a light filter, so you will get a better view without taking it off when you observe in daytime. DO take it off while using at night.
- In observation (photo) mode, aim the lens at the target and look at the display screen through #11 eyepieces.
  1. Adjust the #10 diopter dial till icons on the screen become clearest.
  2. Adjust the #2 objective focus wheel to obtain the clearest image.
- The device will adjust the screen brightness automatically according to the average brightness of the central scene.
- Press #14  and #15  to change the digital zoom from 1X to 8X; no obvious mosaic should occur on the screen.
- The auxiliary illuminator is not necessary if the ambient light is intensive enough.




**OPERATING INSTRUCTIONS**

- If the ambient light is dim and the object cannot be seen clearly, the device will identify the light intensity and turn on the auxiliary illuminator accordingly and adjust its intensity automatically.

**【NOTES】**

- Do not block the light of the auxiliary illuminator.




**【SCREEN BRIGHTNESS ADJUSTMENT】**

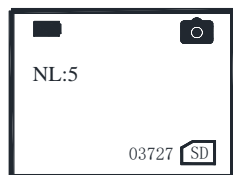
- Under observation (photo or video) mode, long-pressing button #16  to enter the screen brightness adjustment function menu as shown in the picture. The index following “**Bright**” indicates the current screen brightness.
- Press #14  or the #15  to adjust the brightness level from 1 to 9, level 9 being the brightest.



**OPERATING INSTRUCTIONS**

**【ILLUMINATION ADJUSTMENT】**

- In observation (camera or video) mode; long press #16  to enter the auxiliary illuminator adjustment menu as shown in the picture. The index following “**Lamp**” indicates the light intensity of the auxiliary illumination.
- Press #14  or #15  to adjust the auxiliary illuminator brightness level from 0 to 9. Level 9 is the brightest, level 0 indicates that the auxiliary illuminator is off.
- The “NL: X” icon will appear on the left top corner of the screen after the IR is on and the adjustment menu disappeared, the ‘X’ index shows the brightness level.



**OPERATING INSTRUCTIONS**

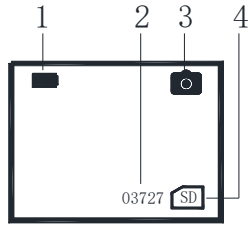
**【NOTES】**

- The IR auxiliary illumination has two status, automatic or manual. Automatic status is on by default when you turn on the device. When you press the function button to enter the manual mode, the automatic mode will fail.
- If the NL index is 0 (which means the automatic mode is completely closed) you can manually turn on the auxiliary illuminator in a dark environment; if the NL index is 1 (which means automatic mode is on) then you do not need to adjust manually.
- The function menu will quit automatically if no operation is performed for 5 seconds, parameters set will be saved and the device will return to observation (photo) or video mode.

**OPREATING INSTRUCTIONS**

**【PHOTO MODE】**

- Observation (photo) mode is automatically activated after the device is turned on. You can observe and take pictures of what you see.



- Icons legend:

1. Battery Indicator;
2. Number of Photos Available;
3. Photo Mode On;
4. TF card status

- Press button #17 once to take one picture; pictures are automatically saved in the TF card.
- Icon No.2 indicates the available number of pictures, which is calculated based on the remaining storage of the TF card, minor errors might exist.

**【NOTES】**

- No built-in storage is equipped. Photo and video can be taken only after the TF card is inserted.

**OPREATING INSTRUCTIONS**

**【PLAYBACK MODE】**

- Observation (photo) mode is automatically activated when the device is turned on. Press #16 twice to enter the playback mode.

- Icons legend:

(photo playback)

1. Battery Indicator;
2. Sequential number of the photo being displayed;
3. Playback Mode;
4. TF card Inserted

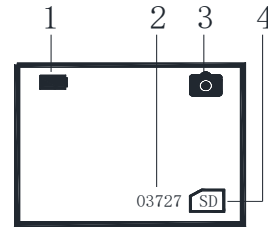
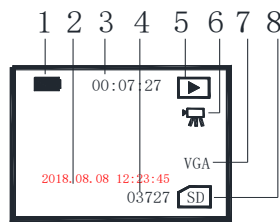


Photo Playback

**OPREATING INSTRUCTIONS**

- Icons legend:  
(video playback)

1. Battery indicator;
2. Recording Date;
3. Video Length Indicator
4. The Number of the Video being played;
5. Playback Mode;
6. Video Playback Mode;
7. VGA Video Format;
8. TF card Inserted



Video Playback

- In playback mode, press #14 or #15 to switch between files. The playing order is based on recording order.
- The device plays photos and videos according to their taking time. It identifies their formats automatically and then enters the corresponding playback menu.
- During video playback, press button #17 to start playing, and press it again to pause.

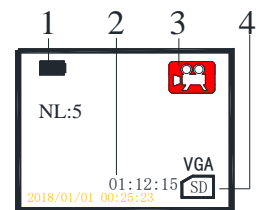
**OPREATING INSTRUCTIONS**

**【VIDEO MODE】**

- In observation (photo) mode, press #16 to enter video recording mode.

- Icons legend:

1. Battery Indicator;
2. Available Video Recording Length;
3. Video Mode;
4. TF card Inserted

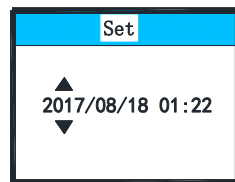


- Press #17 to start recording. Icon No.2 starts to count the recording length.
- While recording, the video is saved in the TF card automatically.
- The available recording length is automatically calculated based on the remaining capacity of the TF card, minor errors might exist.
- Press #17 again to stop recording.

## OPERATING INSTRUCTIONS

### 【TIME SET】

- Long press #16 **[M]** to enter function menu. Press #16 **[M]** to move the '\*' before "Time set" option.
- Press #14 **[↑]** or #15 **[↓]** to enter the time setting.
- Press #14 **[↑]** and #15 **[↓]** to change number pointed by the cursor. Press #17 **[OK]** to move the cursor forward or backward, which indicates year, month, date, hour and minute.
- Press #17 **[OK]** to exit.

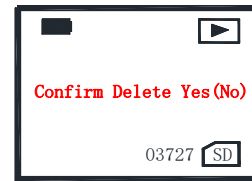


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## OPERATING INSTRUCTIONS

### 【FILE DELETION】

- In playback mode, long press #16 **[M]**, a confirmation prompt will appear. Press #14 **[↑]** and #15 **[↓]** to switch between YES and NO. Press #17 **[OK]** to confirm your choice. Press #16 **[M]** to exit deletion mode.



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## OPERATING INSTRUCTIONS

### 【CONNECTION TO MONITOR】

- Connect an external monitor to the device via video output interface #7 with a video cable.
- Screen display can be output to the external monitor, and the internal screen is closed at the same time.

### 【CONNECTION TO PC】

- This device is equipped with an USB2.0 interface. Insert one end of the USB cable into the USB interface, and connect the other end to a computer.
- This device can be used as a portable storage device. Computer will identify the device as a portable storage device and read the files saved in the TF card automatically.

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## POWER MANAGEMENT

### 【AUTO POWER-OFF】

- In any other mode, if no operation is performed for 3 minutes, the device will power off automatically.
- It will never power-off automatically while in video or playback mode.

### 【BATTERY TYPE】

- This device uses three standard AA battery. Please use a high-quality battery to avoid malfunction or failure of the device.

### 【EXTERNAL POWER SUPPLY】

- NO external power supply available.

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## TECHNICAL SPECIFICATIONS

### 【TECHNICAL SPECIFICATIONS】

Category	Item	Parameter
Optical Performance	Magnification	5
	Objective lens Diameter	φ32mm
	Field of View	5°×3.75°
	Diopter Range	±1
	Viewing Distance (low light)	2m~∞
	Viewing Distance (Total darkness)	~200m
Power	Operating Voltage	4.2V DC
	Replaceable Battery	5#(Size AA)*3
Miscellaneous	Dimension (L×W×H)	190×83×56 (mm)
	Net Weight	345g

## STANDARD CONFIGURATION

### 【STANDARD CONFIGURATION】

ITEM	Qty
AV cable	1 pc
Portable Soft Bag	1 pc
Instruction Manual	1 pc
Hand Strap	1 pc
Lens Wiping Cloth	1 pc

## MAINTENANCE & PRECAUTIONS

### 【MAINTENANCE & PRECAUTIONS】

- Keep the device in its soft pouch when not in use. Operating ambient temperature of the device is -5~40°C and relative humidity is under 80%.
- Store the device in a clean and dry place to keep the lens away from moisture and mildew. Prevent the device against pressing, mechanical damage, moisture and solar radiation.
- Try to avoid rain and fog. Try to prevent from falling, colliding or hitting.
- Please charge the battery in time when image jitters occur or the LCD cannot light up.
- When it becomes necessary to clean optical surfaces of the objective lens, eyepiece or the IR, please blow away the dusts before wiping the optical surface, and then rub the surface with a soft cloth.

## MAINTENANCE & PRECAUTIONS

- Please protect the battery properly to avoid deterioration of the performance of the battery when the device is not in use for a long period.