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Digital Night Vision Monocular

Instruction Manual

Model: P4-0118

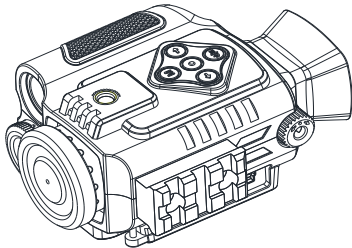### 【CONTENTS】

CONTENTS

OVERVIEW

【NAME】　　　Digital Night Vision Monocular
【MODEL】　　P4-0118
【FEATURES】
● The device is can be used either in daytime or at night, with multiple functions like photo shooting, video recording and playback, etc.
Zoom range: 1X optical zoom and 5X digital zoom.
● Daytime: Observing, audio and video recording, photo shooting. Recorded photos and videos are of full colors, with video format of VGA 640*480.
● Nighttime: With the aid of the built-in auxiliary infrared (IR for short) illuminator it can capture a target up to 200m away in circumstances of total darkness or of extremely low light. Users can observe, record audio & video, and photograph, with images being black and white.

OVERVIEW

● Support TF card (optional 4G-32G) for storage expansion; video recording time: 1 ~16 h.
● Built-in USB port, you may transfer data to PC via the USB port.
● Audio/Video output interface available.
● Power supply: Large capacity rechargeable lithium battery type 14500.
● Operating time: 1.5 ~2.5 h in the daytime or 1h at night (with IR on to full brightness).
● It is a powerful auxiliary device to extend human vision.

CAUTIONS FOR USE

【**CAUTIONS FOR USE**】

● P4-0118 digital night vision monocular is a precise optical electronic instrument which is applied to observe object where the light level is extremely low.

● The device is equipped with a built-in infrared (IR for short) illuminator that enables a clearer viewing in a complete dark environment.

● The IR will turn on automatically when the device works in the dark. 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 existed, 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 1.5-2.5h with the IR off and 1 hour with the IR on.

COMPONENTS
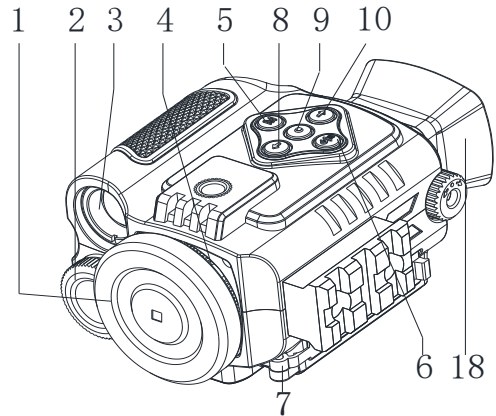
1 - Objective Cover   2 - Battery Compartment
3 - IR   4 - Objective Focus Wheel
5 - Menu Button
6 - Power on/off/Confirmation Button
7 - Socket cover   8 - UP
9 - Brightness Control   10 - DOWN
18 - Eyepieces

COMPONENTS
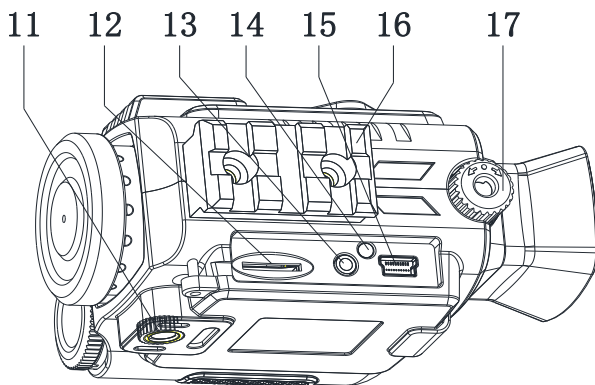
11 - Tripod Socket
12 - TF card Slot
13 - Video Output Interface
14 - Charging Indicator
15 - USB Interface
16 - Picatinny Rail
17 - Diopter Dial
19 - Optical Filter
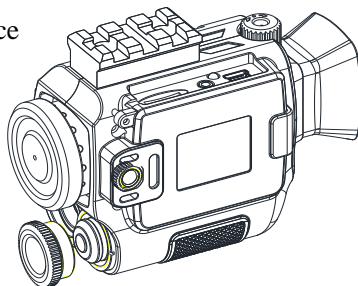
OPERATING INSTRUCTIONS

【**BATTERY   INSTALLATION**】

● Remove the battery compartment cover and insert the battery with negative end downward, then screw the cover back. Press the #6 ⏻ok utton. If the screen lights up that means the battery has been loaded properly. 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 model of battery must meet the requirements of the device (rechargeable lithium battery 14500 CE);
● Ensure the battery is fully charged;
● Make sure that the battery is fully charged;
● Improper position of the battery cover may result in abnormal operation of the device.

OPERATING INSTRUCTIONS

【POWER-ON】
- Do not take off the objective cover in daytime while take it off at night.
- Press #6 [⏻|OK] the power button. Observe from #18 the eyepieces, the device works well if the screen is lighted up and icons appear as shown in this picture.
- Icon legend:
  1. Photo Mode;
  2. Battery Indicator;
  3. TF card inserted;
  4. Image Capacity Remaining;
- The device enters the observing (photo) mode after it is turned on. You may either observe or take photo, or record a audio/video.
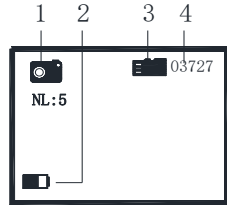
【POWER-OFF】
- In any mode, press #6 [⏻|OK] button for 3 seconds to turn off the device.

OPERATING INSTRUCTIONS

【SCENERY OBSERVATION】
- Take off #1 objective cover at night. Aim the objective at the target in observation mode. Look at the screen through #18 eyepieces.
1. Adjust #17 diopter dial to make the screen as clear as possible.
2. Adjust #4 objective focus wheel to achieve a clear target.
- The device adjusts the screen brightness automatically according to the average brightness of the central part of the scene.
- Press #8 [↑] or #10 [↓] to achieve digital zoom from 1X to 5X.
- When the ambient light is bright enough, the IR will turn off automatically to save battery power.
- When the ambient light is dim and the scene is hardly observed, the IR will turn on automatically to obtain a clearer observation.

【NOTES】
- DO NOT place anything in front of the #3 IR.

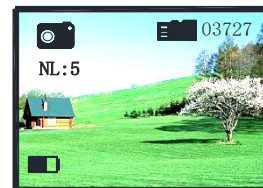# OPERATING INSTRUCTIONS

【SCREEN BRIGHTNESS ADJUSTMENT】

- In the observation (photo/video) mode, press #5 [M] button for 3 seconds to enter the screen brightness adjustment menu. The index following "**Bright**" shows the current screen brightness, as shown on the right picture.
- Press #5 [M] to move the "*" mark before "Bright".
- Press #8 [↑] or #10 [↓] button to adjust the screen brightness from 1 to 9 (maximum).

OPERATING INSTRUCTIONS

【IR ILLUMINANCE ADJUSTMENT】

- The illumination IR of this device is determined automatically according to the ambient light level.
- When the ambient light is dim, the device will turn on the IR system automatically and adjust the brightness itself.
- When the IR system is on, "NL:"followed by a number appears on the top left corner of the screen to show the current brightness value.
- The #9 [●] button is used for adjusting the illumination level, looping from 0~9 (maximum).

【NOTES】
- If no further operation is done for 5 seconds, the menu will disappear automatically and the device will return to the observation mode.
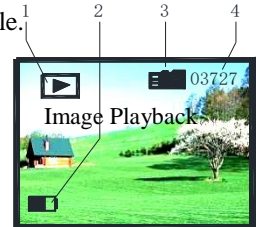
OPERATING INSTRUCTIONS

【PHOTO　MODE】

● Press #6 ⎡ ⎤ to power on the device. It will enter the observation mode (photo mode) by default. You may observe from the eyepieces, and take pictures.

● Icon legend:
  1. Photo mode;
  2. Battery Indicator;
  3. TF card inserted;
  4. Images Capacity Remaining

● Press #6 ⎡ ⎤ once to take one picture, and it will be automatically saved in the TF card.

● The number 4 display on the screen indicates the total remaining number of pictures can be taken based on the TF card capacity. The image capacity remaining is calculated by the remaining storage of the TF card, minor errors might exist.

● Press #5 ⎡M⎤ to exit.
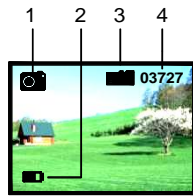
OPERATING INSTRUCTIONS

【PLAYBACK MODE】

● The device will enter the photo mode automatically after it is turned on. Press #5 ⎡M⎤ to enter the video recording mode, and to enter the playback mode by press it once more. Your pictures and videos in the TF card will be identified automatically and duly played.

● Press #8 ⎡↑⎤ or #10 ⎡↓⎤ to move the cursor forward or backward to select desired file.

● Icon legend:
  (Image playback)
  1. Playback mode;
  2. Battery Indicator;
  3. File on Display;
  4. Number of playable files

OPERATING INSTRUCTIONS

● Icon legend:
  (video playback)
  1. Playback mode;
  2. Battery Indicator;
  3. Recording date of photo or video;
  4. File play in process;
  5. Video Duration;
  6. Number of the Playable Files on the TF card
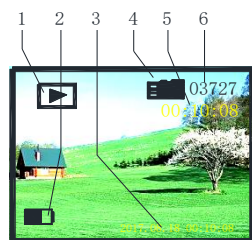
Video Playback

【FILE DELETION】

● In the playback mode, long press #5 ⎡M⎤ to enter the deletion dialogue as shown in the picture. Confirm your choice by pressing #6 ⎡ ⎤. Press #8 ⎡↑⎤ or #10 ⎡↓⎤ to switch between YES or NO. Press #5 ⎡M⎤ to quit.
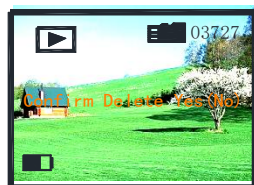
OPERATING INSTRUCTIONS

【NOTES】

● In the playback mode, press #8 ⎡↑⎤ or #10 ⎡↓⎤ to page up and down. Play sequence is subject to the time that photos and videos were recorded.

● It identifies file formats automatically and enters the corresponding playback menu.

● In the video playback mode, press the #6 ⎡ ⎤ to start the play and stop it by pressing #6 ⎡ ⎤ once again.

● Press #5 ⎡M⎤ to exit the playback mode and return to the observation mode.

OPERATING INSTRUCTIONS

【VIDEO MODE】

- In the observation (photo) mode, press #5 M once to enter the video mode.
- Icon legend:
  1. Video Mode;
  2. Battery Indicator;
  3. Date;
  4. Recoding Time;

Video

- Press #6 ⏻OK to start recording; icon No.4 starts to count the recorded time.
- During video recording, videos will be saved in the TF card automatically.
- The recording time available is calculated based on the remaining storage of TF card, some errors might exist.
- Press #6 ⏻OK to stop video recording.
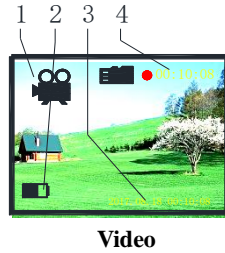
OPERATING INSTRUCTIONS

【TIME SET】

- Press #5 M for 3 seconds to enter the menu. Press #5 M to move the "*" in front of "Time set". Press #8 ↑ or #10 ↓ to enter the time set page.
- Icon legend
  1. Date format ;
  2. Date setup;
  3. Time setup;

Bright:7
*Time set

- Press #8 ↑ or #10 ↓ to change the date format (yy/mm/dd or dd/mm/yy).
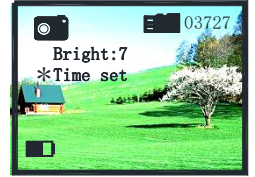- Press #6 ⏻OK to set. Move the cursor to the target position.
- Press #8 ↑ to increase the number or #10 ↓ to decrease the number.
- Press #6 ⏻OK again to exit the setup.

Set
1 — YYYY/MM/DD
2 — 2017/08/18
3 — 18 : 08 : 08

OPERATING INSTRUCTIONS

【DIGITAL ZOOM】

- While in the photo (observation) or video mode, you may zoom in or out the scene by means of digital magnification up to 8 powers.
- Press #8 ↑ once, the image will be zoomed in for one power. The maximum magnification is 5 powers.
- Press #10 ↓ once, the image will be zoomed out for one power. The adjustment step is one power.
- The zoom status is indicated by icon No.5 (4.00X).

1 2 3 4 5

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4.00
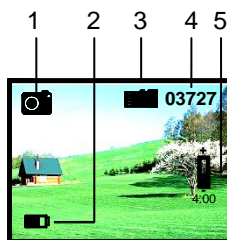
OPERATING INSTRUCTIONS

【CONNECTION TO MONITOR】

- The device can be connected to an external monitor via #13 video output interface with a video cable.
- Image or video can be output to the external monitor; the built-in display screen and external monitor can work simultaneously.

【CONNECTION TO PC】

- The device is equipped with USB2.0 interface which enables you to connect it to a computer.
- Remaining storage also can be used as a portable storage device. After connected to a computer, press ⏻OK and the computer will be able to identify it as a storage device and the data stored in the TF card will be read by the computer.
- When the device is connected to a computer, its battery will be charged.

POWER MANAGEMENT

【BATTERY TYPE】

- Rechargeable lithium battery is adopted with capacity of 750mAh, 3.7v.
- Charge the battery for no less than 10 hours before its first usage.

【EXTERNAL POWER】

- External power adaptor is supplied.
- Plug the output of the 5.0V/1000mA adapter to the "DC IN" port on the device, then plug the cable to the wall socket (110-240V).
- With external power adaptor plugged in, the device will not turn off automatically, and the battery will be charged.

TECHNICAL SPECIFICATIONS

【TECHNICAL SPECIFICATIONS】

TYPE	ITEMS	VALUE
Optical Performance	Magnification	1
	Objective Diameter	φ18mm
	Field of View	16.8 °×20.2 °
	Diopter Range	±5
	Observing Distance (low light)	2m～∞
	Observing Distance (complete darkness)	～200m

Power	Operating Voltage	3.7V DC
	Battery	Rechargeable lithium battery
	Power supply	5.0V / 1000mA Adaptor
Other	Dimension(L ×W ×H)	102 *76* 49mm
	NET. Weight	170g

STANDARD CONFIGURATION

【STANDARD CONFIGURATION】

ITEM	Qty
AV Video Cable	1 pc
USB Cable	1 pc
Pouch	1 pc
Power Adaptor	1 pc
Operating Instructions	1 pc
Hand Grip Strap	1 pc
Battery	1 pc
Cloths	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℃ 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.
- 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.