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Digital Night Vision Monocular

Instruction Manual
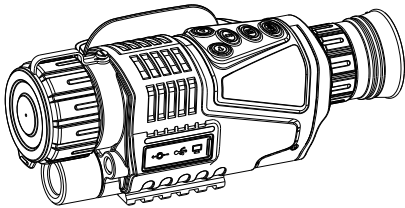### Model：P1S-0540

【CONTENTS】

CONTENTS

OVERVIEW

【NAME】 Digital Night Vision Monocular
**【MODEL】 P1S-0540**
【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 under circumstance of low light and up to 200m under circumstance of total darkness.
- A referential object is suggested while observing a distant object.
- The device is equipped with USB and AV OUT interface.
- Photo shooting and video recording/playback during 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】

- P1S-0540 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 powerful built-in 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 to a proper level for a better viewing result according to the distance of objects. A low illumination level CMOS sensor is adopted. The IR will turn off automatically when any light source is available, such as streetlight or moon light. In this case a clear image will be obtained simply by adjusting the focal length of objectives.
- Operation duration: up to 2.5 hours with the IR off; 1.5 hour with IR on.
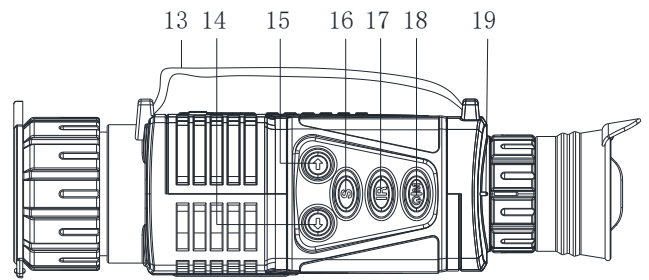
COMPONENTS

1 2 3 4　　5 6 7　8　　　9　10　11　12
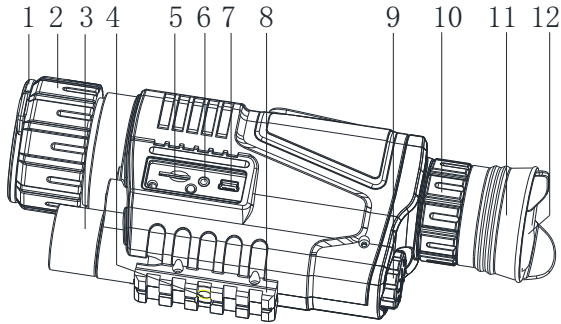
1 - Objective Cover　　　2 –Objective Focus Wheel
3 - IR　　　　　　　　　4 - Tripod Socket
5 - TF Card Slot　　　　　6 - AV OUT Interface
7 - USB2.0 Socket(charging) 8 - Picatinny Rail
9 - Battery Compartment　10 - Diopter Ring
11 -Eyecup　　　　　　　12 - Eyepiece

COMPONENTS

13　14　　15　　16 17　18　　19

13 - Hand Strap
14 - Left Button
15 - Right Button
16 – Function Switching (photo/video mode, playback mode and video output)
17 - Image Brightness Setting/Time setting/Deletion
18 - POWER/Function Check/Video play/Pause
19 - Diopter Dial (Indicator)

OPERATING INSTRUCTIONS

【BATTERY　INSTALLATION】

- Remove the battery compartment cover and insert the battery with negative end downward, then screw the cover back.
- Press the power button#18 ⏻|M . 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.
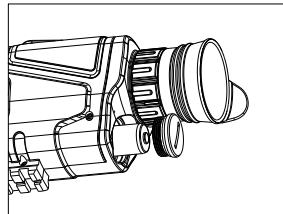
【NOTES】

- The model of battery must meet the requirements of the device　(rechargeable lithium battery 14500 CE);
- Make sure that the battery is fully charged;
- Pay attention to the positive and negative ends while installation.

OPERATING INSTRUCTIONS

【POWER　ON】

1　　2 3　　4

- Take #1 objective cover and #11 eyepiece cap off.
- Long press #18 ⏻|M Look through the #12 eyepiece, the device works well if the screen is lightened and icons are shown as normally as the right picture.
- Indicative Icons：
  1　Battery Indicator;
  2　Image Capacity Remaining;
  3　Photo Mode;
  4　TF Card is inserted or not
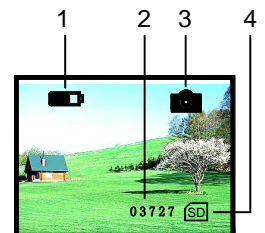
【POWER　OFF】

- In any mode, long press #18 ⏻|M to turn the device off.

OPERATING INSTRUCTIONS

【SCENERY OBSERVATION】

- Take off the objective cover, set the device to the observation mode (photo mode), aim the objective at the target. Look at the screen through #11eyecup.
1. Adjust the #10 diopter ring till the icons on the screen became sharpest.
2. Adjust the #2 objective focus wheel to obtain the clearest image.
- The device will adjust the screen brightness itself automatically according to the average brightness of the central part of the scene.
- Press #15 ➡ and #14 ⬅ to achieve digital zoom from 1X to 8X; no obvious mosaic shows on the screen.
- If the ambient light is bright enough, the device will work normally without the auxiliary light (IR) on.
- If the ambient light is dim, the auxiliary light will turn on automatically and the default brightness for switching is level 5 (screen display NL: 5).

OPERATING INSTRUCTIONS

【NOTES】

- DO NOT put anything in front of the #3 IR to cause IR ray blocking.

【BRIGHTNESS ADJUSTMENT】

- Press #17 〔IR〕 in the observation (photo or video) mode.
- Enter brightness adjustment menu, you will see the screen display as shown in this picture. The index following "Bright" implies the current brightness of the screen.
- Press #14 〔⬅〕 and #15 〔➡〕 to adjust the brightness ranging 1- 9 (9 is the brightest.).

OPERATING INSTRUCTIONS

【ILLUMINANCE ADJUSTMENT】

- In the observation mode (photo or video) press #17 〔IR〕 to enter the built-in auxiliary light adjustment menu.
- The index following "Lamp" implies the illuminance of the auxiliary light just as shown in the right picture.
- Press #14 〔⬅〕 and #15 〔➡〕 to adjust the illuminance of the auxiliary light ranging 0 - 9 (9-brightest; 0-off).
- When you exit the menu with the IR on, "NL:X " will be flickered ("X" is the IR brightness index).
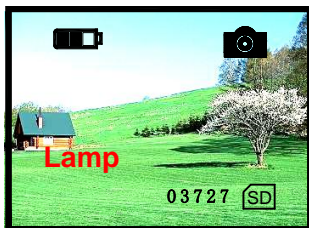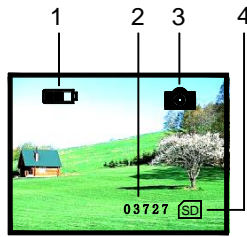

OPERATING INSTRUCTIONS

【NOTES】

- In any mode above, the function menu will disappear and return to photo mode if no operation is carried out within 5 seconds.

OPERATING INSTRUCTIONS

【PHOTO MODE】

1   2   3   4

- The device enters observation (photo) mode by default after it is turned on. You can take pictures in this mode.
- Indicative Icons：
  1. Battery Indicator;
  2. Image Capacity Remaining;
  3. Photo Mode;
  4. TF card in or not
- #18 ⓄM works as the shutter in this mode. Each press captures one picture. The picture will be saved automatically in TF card.
- The image capacity remaining is calculated by the remaining storage of TF card, minor errors might exist.

【NOTES】

- Built-in storage is NOT contained in this device. Photo and video functions will work unless the TF card is loaded properly.

OPERATING INSTRUCTIONS

【PLAYBACK MODE】

1   2   3   4

- In the observation mode, press #16 **S** twice to switch to the playback function.
- Indicative Icons：
  (photo playback)
  1. Battery Indicator
  2. No. of Photos
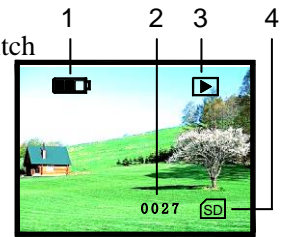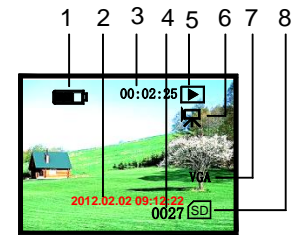 3. Current Mode (Playback)
  4. TF card in

Photo Playback

- Indicative Icons：
  (video playback)
  1. Battery Indicator
  2. Shooting Date
  3. Shooting Time
  4. Current No. of Video
  5. Playback Status
  6. Video Playback
  7. VGA Video Format
  8. TF card in

1 2 3 4 5 6 7 8

Video Playback

OPERATING INSTRUCTIONS

- In the playback mode, press #14 ⟵ or #15 ⟶ to view the photos and videos.
- The playing order of photos and videos is based on the shooting order. The device will automatically identify data format and enter the corresponding playing mode.
- Press #18 ⓄM to play the video and repress to stop it.
- Press #16 **S** to exit playback mode.

OPERATING INSTRUCTIONS

【VIDEO MODE】

1   2   3   4

- In the observation mode, Press #16 **S** to enter the video mode.
- Indicative Icons：
  1. Battery Indicator
  2. Timekeeping
  3. Current Mode
  4. TF card in

Video Shooting

- Press #18 ⓄM to start recording, icon #2 turns into time-counting to record the length of the video.
- Press #18 ⓄM again to stop recording.
- The video will be saved in the TF card automatically.
- The remaining recording time is calculated by the remaining storage of TF card, minor errors might exist.
- Press #16 **S** twice to exit video mode.
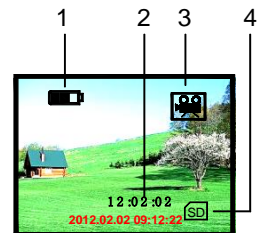
OPERATING INSTRUCTIONS

【TIME SET】

- Press #17 **IR** to enter the menu. Press #17 **IR** to position (*) before the "Time set". Press #14 **←** or #15 **→** to set the time.

- Buttons #14 **←** and #15 **→** are used for changing the index pointed by the cursor, press #18 **Ɵ|M** to switch the cursor position (year, month, day, hour and minute).

- Press #18 **Ɵ|M** again to exit the menu.
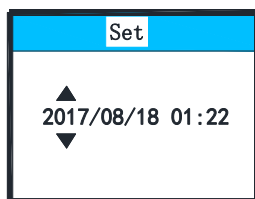
OPERATING INSTRUCTIONS

【DELETION】

- In playback mode, press #17 **IR** to show the deletion menu, switch to YES or NO by pressing #14 **←** or #15 **→** , press #18 **Ɵ|M** to confirm the selection. Press #16 **S** to exit the deletion mode.

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OPERATING INSTRUCTIONS

【CONNECTION TO MONITOR】

- Connect to the external monitor via the video output interface #6.
- The display inside the device will shut down after connection.

【CONNECTION TO PC】

- Connect the device to a computer using USB cable via the built-in USB 2.0 socket.
- PC will identify the device as a portable storage device automatically and read the data recorded in the TF card.
- The battery will be charged while connecting to a computer.
- During data transmission, the device must be maintained on with battery loaded.

POWER MANAGEMENT

【AUTO POWER OFF】
- The device will turn off automatically if no operation is carried on within 3 (or 10) minutes.
- The device won't be turned off automatically in the video or playback mode.

【BATTERY TYPE】
- Large capacity rechargeable battery, 750mAh, 3.7V.

【EXTERNAL POWER】
- The device will work continuously and will not turn off automatically when connected to an external power source.
- The battery would be charged when the device is connected to an external power source.

【NOTES】
- Standard mobile power source is applicable.
- 1A or 2A mobile power source is recommended.
- The device will be charged when connected to a computer.

TECHNICAL SPECIFICATIONS

【TECHNICAL　SPECIFICATIONS】

TYPE	ITEMS	VAULE
Optical Performance	Magnification	5
	Objectives Diameter	φ40mm
	FOV	5 °×3.75 °
	Adjustable Range of Ocular	±0.6
	Observing Distance (Low Light)	2m～∞
	Observing Distance (Complete Darkness)	～200m
Power	Operating Voltage	3.7V DC
	Replaceable Battery	Lithium rechargeable battery
Other	Dimensions (L*W*H)	200*86*56mm
	Net Weight	400g

STANDARD CONFIGRATION

【STANDARD　CONFIGURATION】

Items	Amount
AV Video Cable	1
USB Cable	1
Pouch	1
Operating Instruction	1
Hand Grip Strap	1
Battery	1
Cloths	1
External Power Supply	1

MAINTENANCE & PRECAUTIONS

【MAINTENANCE & PRECAUTIONS】

- Keep the device in its soft pouch when not in use. Operating temperature is -5~40°C and relative humidity is under 80%.
- Night vision devices should be kept in a clean and dry place to keep lens away from moisture, mildew, heavy pressure, mechanical damage, moisture and solar radiation.
- Try to avoid rain or fog, try to prevent falling, touching or hitting.
- Please charge the battery in time when the image jitter happens or the LCD won't light up.
- Blow away the dusts before wipe the optical surface. Rub the surface with a soft cloth.
- Please protect the battery in case the battery falls, if the device is not using for a long time.