

**OTP-NVP900C**

**World's First Starlight  
Night Vision Camera Pen**

User Manual



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## Part1: Before First Use

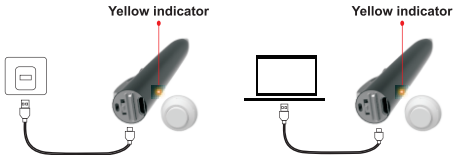
### ■ Remove the pen cap

USB slot and micro SD card slot are hidden in the pen cap. When charge camera, read disk and insert micro SD card, please take the pen cap out.



### ■ Charging the camera

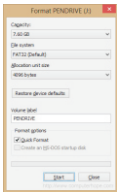
Before the first use, please charge the camera to full power. While charging, the LED lights turn yellow and turn off when the camera is fully charged.



## Part1: Before First Use

### ■ Formatting the micro SD card

Before the first use, please format the micro SD card to FAT 32 format. (Applicable to Windows system ONLY). The camera only supports class 10 micro SD cards with at least an 8GB capacity and a maximum capacity of 32 GB.



### ■ Resetting the camera

If the camera malfunctions for any reason, reset it with the included pin. A small paperclip can also be used.



## Part2: Quick Guide

### A. Remove the pen cap

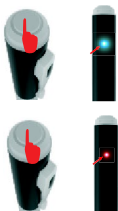


### B. Install the micro SD card

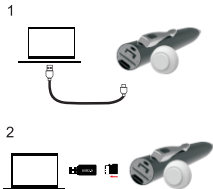


### C. Turn on/off and record

 > 2S power on/off



### D. Play the video



For more detailed information, see **Part 3: Detailed User Manual.**

## Safety precautions

- Read this instruction manual carefully before using the camera. It contains important information for your safety as well as operating and maintenance instructions.
  - Follow all safety precautions in order to prevent damage due to improper use of the camera.
  - Keep this user manual for future use. Should this camera be passed along to a third party, this user manual should be handed on as well.
  - Use the camera only for its intended purpose.
  - In the event of improper use or erroneous handling, no liability can be assumed for any possible damage which may occur.
  - Never try to repair the camera yourself. Only allow qualified personnel to repair the camera in the event of malfunctions.
  - Warning! Never immerse the camera in water or other liquids while cleaning or operating it. Never hold the product under running water.
  - Do not open the housing under any circumstances. Do not introduce any metal objects into the interior of the housing.
  - Never use accessories which are not recommended by the manufacturer.
  - Keep the camera away from all hot surfaces and flames. Protect the camera from extreme heat and cold, dust, direct sunlight, humidity, and water.
  - Do not place heavy objects on the camera.
- The manufacturer is not responsible for any missing video data due to maloperation, microSD card malfunctions, camera angle limitation, etc.

## Warning on invasion of privacy

The camera should be used for legal purpose only. Follow the laws of your country. Recording and circulating an image of an individual may constitute an infringement of their privacy for which you could be liable. Ask for authorization before filming individuals, particularly if you want to keep your recordings and/or circulate images on the Internet or any other medium. Do not circulate a degrading image or one which could undermine the reputation or dignity of an individual.

# What's included



Camera



USB cable



Card reader



User manual



Pin



# Diagram



# Button specification

## A.Power



Press and hold the button for 2 seconds to turn on the camera into manual recording mode, press and hold the button for 2 seconds to turn off the camera. After connecting the camera to PC with the included USB cable, long press the button for 2 seconds to read disk.

## B. MicroSD card



Install and remove the micro SD card.

## C. USB charging



Used for USB cable connection.

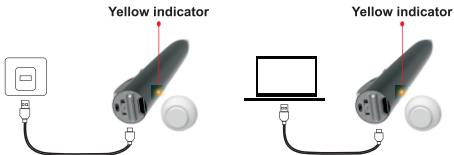
## D.Reset



If the camera malfunctions for any reason, You can use the included pin to push the reset button to reset. When successfully reset, the camera will turn off right away. Then, you need to press the power button to turn on the camera again.

# How to use camera pen

## 1.Charging your camera



- (1) Plug the USB cable both in the camera and in a computer USB port or a 5V/1A adaptor(not included).
- (2) The yellow LED is on while charging and turns off when the camera is fully charged.

## 2.Install micro SD card



Insert the micro SD

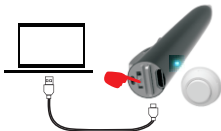


Remove the micro SD

Pay attention to the direction, as the micro SD card only goes in one way.

# How to use camera pen

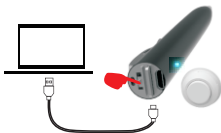
## 3.Format micro SD card



(1) Connect the camera to PC with the included USB cable. Press the power button for 2 seconds, then blue LED is always on and red LED flashes, camera enters into disk reading mode.

(2) The disc icon will appear on your computer, then you need to right click removable disk, click format and start. Indication will appear on the computer when finished formatting.

## 4.Set parameters

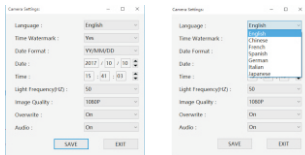


A. Connect the camera to PC via the included USB cable.

B. Press and hold the power button for 2 seconds, then blue LED flashes continually, camera enters into disk reading mode, the disc icon will appear on your computer.

## How to use camera pen

C. Open removable disk, double click the Set Camera file, you can see the related parameters including Language, Time Watermark, Date Format, Date, Time, Light Frequency(HZ), Image Quality, Overwrite, Audio.



D. Setting language : Click drop-down box on the right side of Language, choose suitable language, then click SAVE.

E. Setting time watermark: Click drop-down box on the right side of Time Watermark, choose YES(show the date and time) or NO(no date and time) according to your need, then click SAVE.

F. Setting date format: Click drop-down box on the right side of Date Format, choose y/m/d, d/m/y or m/d/y according to your need, then click SAVE.

G. Setting date: Click up and down buttons on the right side of Date, modify the date number according to your need, then click SAVE.

H. Setting time: Click up and down buttons on the right side of Time, modify the time number according to your need, then click SAVE.

## How to use camera pen

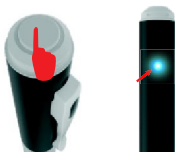
I. Setting light frequency(HZ): Click drop-down box on the right side of Light Frequency, choose frequency standard suitable for your country, then click SAVE.

J. Setting image quality: Click drop-down box on the right side of Image Quality, choose 1080P/720/VGA according to your need, then click SAVE.

K. Setting loop recording: Click drop-down box on the right side of Overwrite, choose YES(loop recording on micro SD) or NO(no loop recording) according to your need, then click SAVE.

L. Setting audio: Click drop-down box on the right side of Audio, choose ON(turn on audio) or OFF(turn off audio) according to your need, then click SAVE.

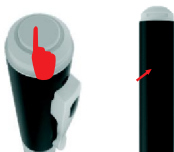
### 5.How to turn on/record manually



Press and hold the power button for 2 seconds to turn on the camera, then blue LED continually flashes and the camera starts recording.

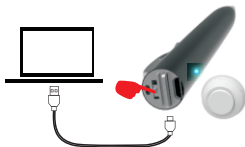
# How to use camera pen

## 6.How to save video/turn off



Long press the power button for 2 seconds, then blue LED stops flashing and goes off, the camera saves video and turns off.

## 7.How to read disk



Connect the camera to PC via the included USB cable, Press and hold the power button for 2 seconds, then blue LED continually flashes, the camera enters into disk reading mode. The disk icon will appear on your computer, then open the removable disk.

# How to use camera pen

## 8.How to reset

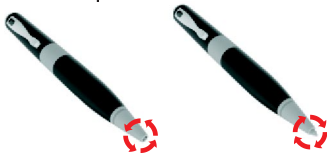


If the camera malfunctions for any reason, you can use the included pin to push the reset button to reset. When successfully resetting, the camera will turn off right away. Then, you need to press the power button to turn on the camera again.

## 9.How to switch into night vision

When ambient light brightness is lower than 10LUX, the camera will automatically switch into night vision and the video is black and white.

## 10.How to use this pen



Hold nib with fingers, rotate it counterclockwise(the right hand side), then nib is rotated out, you can write by this pen. If rotate it clockwise(the left hand side), the nib will shrink in.



## Technical specifications

Power supply	DC 5V
Infrared type	940
Battery	LiPo
Battery capacity	400 mAh
Video format	AVI
Video coding	MJPEG
Resolution	1080P/720P/VGA
Lens angle	65°
SD card capacity	Max 32GB
Night vision distance	4-5 meters
Max day time recording time	3 hours
Max night vision recording time	1.5 hours
Day time recording power consumption	130 mAh
Night vision recording power consumption	260 mAh
USB interface	Micro 5P

## LED status

Charging	Steady yellow
Fully charged	Yellow LED turns off
Turn off	Blue LED stops flashing and goes off
Recording	Blue LED continually flashes
Reading data from SD card	Blue LED flashes quickly for 10 seconds and the camera turns off
Reset	LED goes off and the camera turns off
Low power	Blue LED flashes quickly for 10 seconds and the camera turns off

## FAQS

### **1. Q: What should I do when all the operations malfunction?**

A. Please try to reset the camera, there is a pin included in the package, and you can use it to push the reset button to reset the camera.

### **2. Q: What should I do if my computer doesn't recognize the camera after connecting to computer?**

A. Check whether the USB cable is loose contactor damaged.

B. Check USB port, you can change another USB port to connect.

C. Check your computer's net work speed and operation, then restart the computer.

D. Unplug the USB cable, reset it with the included pin and re-insert the USB to computer.

### **3. Q:What should I do when I can't play the video on computer or there is only sound without frame?**

A. We recommend replacing a mainstream player on the market and restarting the computer.

### **4. Q: What should I do if the micro SD card can't save the video or video file shows 0KB(no content)?**

A. Please try to format the micro SD card to FAT32, or you can change a new micro SD card. We recommend using class 10 card with 16GB capacity.

### **5. Q: What should I do if night vision video is all dark, but sound is normal?**

A. Check if infrared LEDs are on and reset the camera.

## FAQS

**6. Q: What should I do if the date and time is not updated after modification?**

- A. Check whether you have clicked SAVE after modification.
- B. Check if you change the default date and time format in the process of modification.

**7. Q:What should I do if the camera turns off when SD card is full, it can't automatically overwrite the oldest video files with new ones.**

- A. Check if the second line in the Set Camera file is the default 'YES' , if not, you need to change it to "YES".