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# **HD 1080P PEN CAMERA (Model: HD180)**

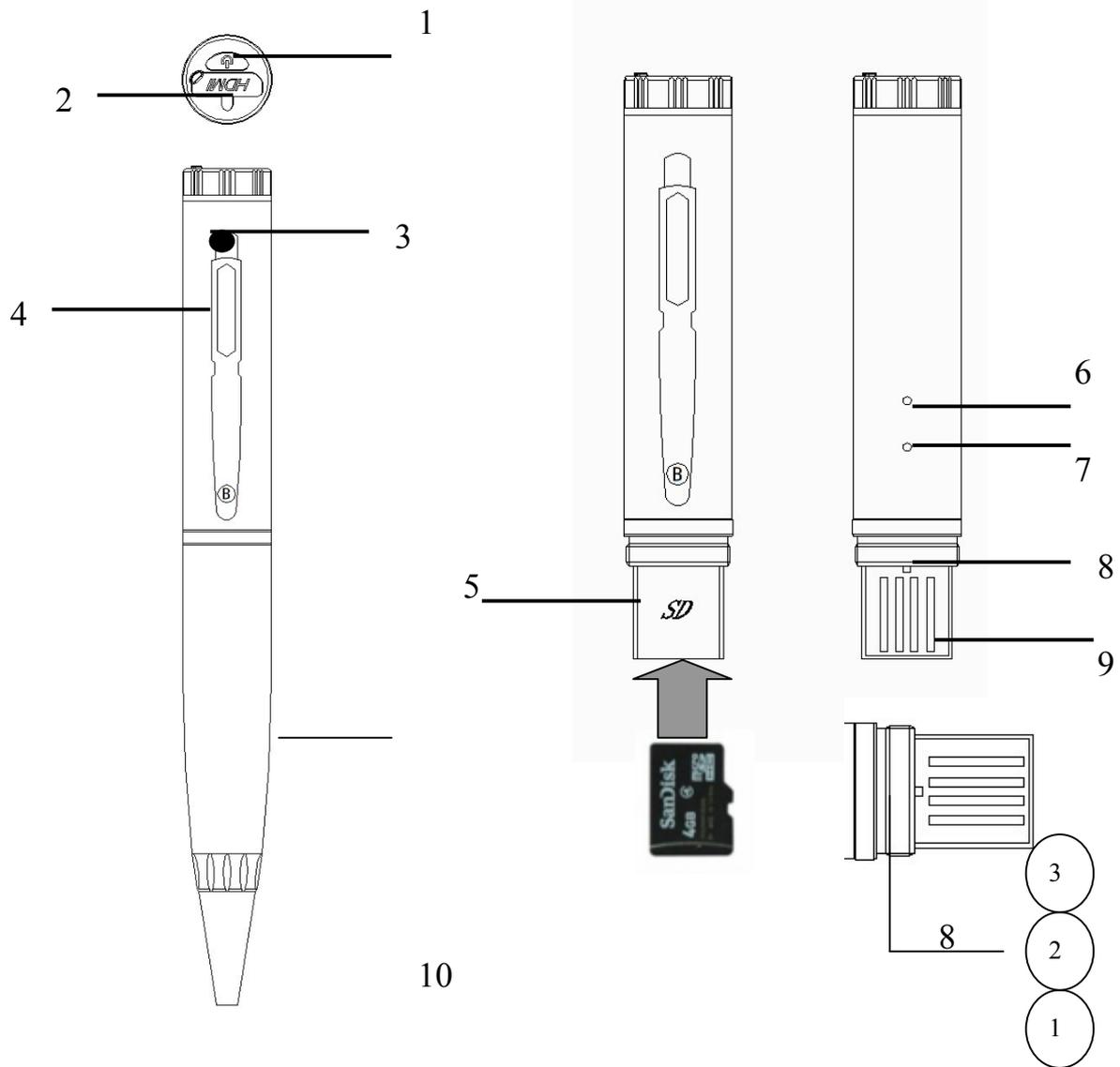
## **USER MANUAL**

Finally you can take video in true 1080P with a pen camera! Thank you for your purchase of the HD180 Camera Pen.

### **Key Specs**

- ◆ The 5000000 pixel CMOS sensor, true HD camera function
- ◆ No flashing light while recording
- ◆ Professional, sleek, & high quality finish
- ◆ Conceal camera lens when not in use
- ◆ The HDMI output function
- ◆ Full HD 1080P video @ 30fps
- ◆ Plug directly into the computer like a flash drive (no cables needed)
- ◆ Works as a PC-camera
- ◆ Can support up to 64GB memory card
- ◆ Motion detection mode
- ◆ The built-in high capacity lithium battery (250mAH)

# Construction



1. On/Off/OK	6. Reset Button
2. HDMI Output	7. Indicator Light
3. Camera Lens	8. Mode Switch
4. Camera Lens Concealer	9. USB Connector
5. SD Cart Slot	10. Ink

# How to operate

## 1. Charging/Battery Life:

The pen has a built-in rechargeable lithium battery. We recommend giving it a full charge before using it for the first time. It takes about 3 hours for a full charge.

### How to Charge

- 1). You can charge by plugging it in to your computers USB port
- 2). You can also plug it directly into a USB wall charger and charge this way too. Please make sure that the power out-put of the charger is no more than 1A and 5 volts.

### How to tell when its done charging?

The indicator light will show a solid red color while it is charging. When it is done charging, the light will turn off.

### What happens if the battery dies while recording?

The yellow and blue lights flash 5 times and it will automatically save the current video file and shut down.

## 2. Switching Between Modes:

The pen has 3 operating modes: photo mode, motion detection mode, and video recording mode. It can perform other functions within these modes, see chart below:

Switch Position	Function
①	1. after turning on, take pictures 2. after turning on, connected PC to read the pen 3. television is connected, page up (HDMI)
②	Motion detection video mode

③	1.after turning on, record video 2.after turning on, pc-camera function 3. television is connected, page down (HDMI)
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**Note:** Please make sure that you stop recording video before you switch to another mode. If you switch modes while it is recording, it might cause the pen to malfunction. Please wait to switch mode 4-5 seconds after you have stopped recording in order to give the pen time to save the video file.

### 3. How to Turn ON/OFF:

**ON:** To turn on “short press” the power button, the pen will boot up and then the light will turn a solid yellow color.

**OFF:** Long press the power button. The current file being recorded will be saved and the indicator light will turn of.

### 4. Record Video:

Make sure mode switch in the #3 position. Turn the pen on and the light will be a solid yellow, at this point the pen is on and ready to record. Short press/click the power button, **the yellow light will flash 3 times to indicate that recording has started but then it turns off during recording.**

Short press the top button to stop recording and the pen will save the current video (each time you start/stop recording it creates an new video file). After stopping the video the yellow light will be a solid yellow, this tells you the pen has stopped recording and is not in standby mode.

**Note:** Video is recorded in 5 minute increments. This is done to ensure you don't lose a large video file and also to make sure the video file size doesn't get too large.

**Note #2:** Because the pen takes 1080P, it needs a higher speed/class of memory card. We recommend using at least a class 6 speed of memory card.

### 5. Motion detection:

Make sure mode switch is in #2, turn the pen on and the light will turn a solid

blue color. The pen will automatically start recording when it detects motion. The blue light will start flashing to indicate that it is recording. If 10 seconds goes by without any motion, the pen will stop recording and save the file and go back into standby mode.

**Note:** *If there is constant movement/motion, the pen will record video in 5 minute increments just like the regular video recording mode.*

## **6. Take a Photo:**

Make sure the mode switch is in position #1, turn the pen on and the light will illuminate a solid blue/yellow color while in standby mode. Click the top button once, to take a photo, the blue light will flash once to indicate that a photo was taken. After a photo is taken it will enter standby mode again.

## **7. Connect computer:**

When you plug the pen into the computer, it works just like a flash drive.

### **Here is how it works:**

Make sure you are in picture mode, turn the pen on and plug it into the USB port. After plugging it in, the red light will turn on, wait about 3 seconds for your computer to recognize the pen. It will mount on your computer just like a flash drive. From here you can view, transfer, or delete the files.

**Note:** *You can also take the micro SD card out of the pen and put it into a card reader to view the files.*

**Note #2:** *When playing back video on the computer, we recommend transferring the video files to your computer before playing them back. Sometimes the video might skip if you try playing back directly from the pen.*

## **8. HDMI output:**

Turn the pen on. And plug the HDMI cable (optional accessory) into the top of the pen and into your TV. Choose the proper HDMI input on your TV. Play and pause video using the power button. Switch the shooting mode to move to next/previous video file.

## 9. Change Time/Date:

Create a new text document on your computer using Textedit (MAC) or NotePad (Windows). Enter the time/date into this text document in the following format “year/month/date/hour/minute/second”:

Example: “2013/10/01/12/00/00”

Once the above text has been entered into the document. Plug the pen into the computer and wait for it to mount as a drive. Save as the file as an un-formatted/plain text file named “TIMESET.TXT” in the “root” directory of the pen.

After the file is saved onto the pen, unplug the pen from the computer. Turn on the pen on and off (reboot) and the time/date will be applied.

**NOTE:** *When you save in the “root directory” this means you are not saving the file into any sub folders on the pen.*

## 10. PC—camera:

You can use the pen as a pc/web camera. Make sure the pen is in video mode (position 3). Turn the pen on and plug into the computer, open my computer (windows), click network camera icon.

**Note:** *To use as pc/web camera there is no other software needed. This should be a feature built into windows. We can't guarantee the compatibility of this feature with all pc operating systems.*

## 11.Reset function:

If the pen freezes or malfunctions it might just need to be reset in order to fix the issue. Find a small object such as a pin or end of a paper clip. Insert into the reset hole and push down to reset.

**NOTE:** *Resetting the pen is similar to resetting a computer. You won't lose any recorded files, it just resets the software in the pen.*

## Tech Specs:

Item mesh	Related parameters
Video format	AVI
Video coding	H.264
Video resolution	1440X1080P
Video frame rate	30FPS
Player software	Playback in windows media player, VLC, or quicktime
Format images	JPG
Image pixels	12M Pix
Image proportion	4:3
Support system	Windows me/2000/xp/2003/vista; Mac os; Linux;
Battery capacity	250mAh
Working time	About 50 minutes
Recharging voltage	DC-5V
Interface type	USB 2.0
Storage support	TF card
Battery type	High capacity polymer lithium electricity

## PENRECORDERPRO.COM WARRANTY POLICY

The limited warranty set forth below is provided by PENRECORDERPRO.COM with respect to ALL PENRECORDERPRO.COM Brand Products purchased. The PENRECORDERPRO.COM Brand Products purchased with this limited warranty are the only products which this limited warranty provided by PENRECORDERPRO.COM apply. Any PENRECORDERPRO.COM Brand Product, when delivered to you in new condition in its original packaging, is warranted against material defects and workmanship for a period of ONE YEAR from the date of original purchase. Defective units returned to PENRECORDERPRO.COM and proven to be defective upon inspection will be replaced with a unit that has similar or more advanced features as our technology progresses. This limited warranty covers all defects encountered in normal use of ANY PENRECORDERPRO.COM Brand Product and does not apply in the following circumstances:

A. Loss of or damage due to abuse, mishandling, improper packaging by you, alteration, accident, electrical current fluctuations, failure to follow operating, maintenance or environmental instructions prescribed in the user manual or services performed by an unauthorized PENRECORDERPRO.COM dealer. Additionally, water damage, sand dust/corrosion damage, damage due to impact, scratches, abrasions or damage to the housing, or other accidental damage to any other accessories that has been determined to have resulted from misuse, abuse or failure to operate the units as set forth in the operating instructions.

B. Use of any parts, accessories, or supplies other than those sold by an authorized PENRECORDERPRO.COM dealer in conjunction with any PENRECORDERPRO.COM brand. Any questions? Or to start a warranty claim, Please e-mail us at [info@PENRECORDERPRO.COM](mailto:info@PENRECORDERPRO.COM) or call 208.392.1169.

### **Other Notes:**

- ◆ Please strictly abide by relevant state laws, when using this pen
- ◆ Software upgrades: We periodically release firmware software updates for this pen. Please check the product description on [www.penrecorderpro.com](http://www.penrecorderpro.com) or [www.recordergear.com](http://www.recordergear.com) for latest firmware.
- ◆ Working temperature: please don't expose the pen to extreme heat or cold.
- ◆ Exposure to moisture: This product is not waterproof. Please avoid exposure to moisture.