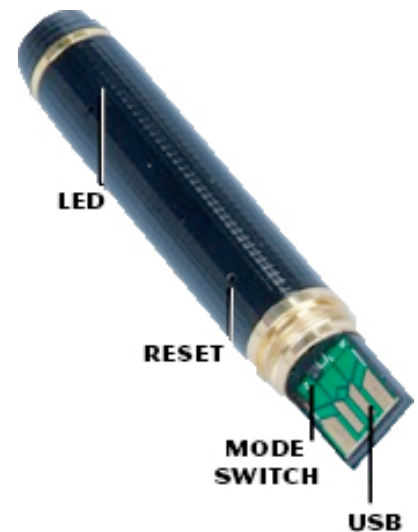


HD 720P Spy Pen Camera HD90

PENRECORDERPRO.COM



The HD90 Camera Pen

Is a simple, multifunctional video recorder built into a working ballpoint pen. Take photos, record audio, or capture HD720P video with the touch of a button.

Getting Started

The first step in using your device is charging it. Connect the device to a USB port on your PC or plug it into one of our optional charging accessories (wall/car/portable charger). While charging, the LED indicator will blink orange and will become solid when the battery is full. **Before first use, we suggest charging the device for 4 hours.**

If you plan on viewing your files on your computer, we suggest using VLC Player. The most recent version can be downloaded at no cost from <http://www.videolan.org>.

Insert micro SD card into the pen FIRST then power the device on, hold down the operation button (button on top of pen) for 2-3 seconds. The LED indicator will be orange while the device is booting. The pen will automatically start recording when you turn the pen on (video or audio depending on what position the mode switch is in). *SEE DETAILED INSTRUCTIONS BELOW*

Recording Video

When in video mode (mode switch 2) the pen LED will glow orange for 1-2 sec (booting) then will automatically start recording and the blue LED will blink a few times to show you that recording has started, then turn off for the remainder of recording. To stop recording click the button once, and the pen will go into video standby with solid orange.

While in video standby, the LED indicator will be a solid orange. Press the Record button to begin recording video. The LED will blink blue a few times and starts recording. Press the Record button again to save your current file and stop recording. (When you turn the pen on from the off position, the pen will automatically start recording after it has booted up)

Taking Photos

To take photos move the Mode switch to the 1st position. After the device is turned on in Mode Switch 1 it will automatically start recording audio after boot up (Orange LED will be slowly blinking.) Press the Record button once to stop recording audio; the orange LED will turn solid (pen is on but in standby mode). To take a photo press the record button, the LED will blink blue to indicate it is capturing and storing your photo, and will return to solid orange.

Recording Audio

To record audio, move the Mode switch to the 1st position. Turn the unit on and the unit will automatically start recording audio after booting up. While recording, the LED will slowly blink orange. To stop recording and save the file, press and hold for 2 – 3 to shut the pen off. To start recording again press and hold the record button to turn it on and the pen will start automatically recording.

Reviewing Files on a Computer

To view your files on a computer, simply connect the device via the supplied USB cord or by inserting the device directly into a USB port, making sure the device is powered OFF (or you can take insert SD card into your computer) . It will connect as a removable drive, and depending on the settings on your PC, it may automatically notify you that new hardware has been detected. If so, select Open Folder to View Files. (If nothing is happening when the device is plugged it, it may be possible that the USB is either not properly connected or connected backward, we suggest rotating the pen 180 degrees of the USB connector and insure that the USB pins are lined up)

If it is not automatically detected, click Start on your desktop. Select My Computer if you are using Windows, or Computer if using Windows Vista or Windows 7. The device should be listed as a Removable Disk under the Devices With Removable Storage section. Open that drive, there should be 4 subfolders AUDIO, IMAGE, SYSTEM, and VIDEO. The Video files will be stored in the VIDEO folder, the audio files in AUDIO folder and photos in the IMAGE folder. As mentioned earlier, we suggest using VLC Player to play back video files.

On a **Mac OS X System** open the finder icon, the pen will be listed under devices in the left hand side on the bottom of the finder menu with an eject button next to it. As mentioned earlier, we suggest using **VLC Player** to play back video files in Mac.

Setting Time and Date

Setting the time and date stamp on your device is easy. Simply **create a .txt file** on your computer and name it **“time” (on MAC use program “TextEdit” on Windows us “Notepad”)**. In that file you will enter the date and time in the following format: year.month.day hour:minute:second.

(Ex. **2011.01.31 12:00:00Y**) Setting Time and Date. To turn the time and date stamp off, enter N instead of Y.

Once you’ve created the file, connect the device to your computer via USB and save the .txt file to the device’s root directory NOT IN ANY OF THE SUB FOLDERS. When you connect the device to your computer, it will be assigned a drive letter (ex. C:, D:, E:). When you open that drive, you are in the root directory, or topmost level of the drive. After you have loaded the file, safely disconnect the device from your computer, turn the device on and off, and the time and date you loaded should now appear on any new videos and photos you record.

Basic Specifications

| Format | Resolution | Recording Time | Battery Life |
|-------------|----------------|------------------|--------------|
| Audio / WAV | N/A | 3 hours per 1 GB | 9 Hours |
| Video | AVI 1280x720 | 20 min per 1 GB | 75 Min |
| Photo | JPEG 1600X1200 | N/A | N/A |

Troubleshooting

Problem: The device seems to have frozen and isn’t reacting when any buttons are pressed.

Solution: This usually occurs if the device receives too many commands in too short a time. To reset the device, insert a pin into the reset hole and hold for 2 – 3 sec

Problem: When playing back my video, I can hear audio, but have no video.

Solution: This most often occurs if your computer’s media player is having trouble with your files. Try using VLC player, which can be downloaded for free at <http://www.videolan.org>.

Problem: My video playback is “choppy” or “stuttering.”

Solution: If this is occurring, try copying the video files to your PC. This happens when the file is too large to be played back using your USB connection. If that does not help please format the SD card.

F.Y.I.

When there is insufficient space the blue LED will flash for about 10 sec before the Pen saves the last files and shuts down. When there is insufficient battery life the orange LED will flash for 10 sec before the Pen saved the last files and shuts down