



HD SPY WATCH WITH NIGHT VISION

The HD Spy Watch with Night Vision combines a stylish analog wristwatch with a hidden digital camera that captures full-motion video at Full HD resolution. The camera can record video in the dark thanks to built-in infrared LEDs that enable night vision. You'll also be able to use the camera to take photographs or as an audio recorder. The weather-resistant camera contains 8GB of internal memory and a rechargeable battery.

In the Box

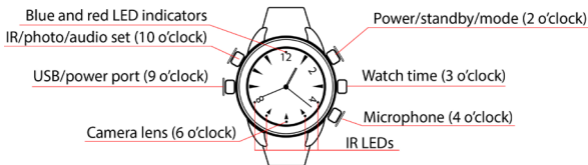
Watch/camera on wrist strap
CD-ROM
USB cable
AC adapter
Mic shutoff knob
User guide

Precautions

- Don't leave the watch in a hot environment such as on the dashboard of a vehicle parked under a blazing sun.
- The camera with its charging/data port closed is resistant to water in rain and snow as well as to dust, but the watch should never be intentionally immersed in liquid. It is not meant for use while swimming or diving.
- Don't toss the watch into a fire since the batteries could explode.
- Don't aim a bright light into the lens or point the camera at the sun since either could damage the sensor.
- Don't operate the device in dusty, sandy or dirty places since the camera's components could be damaged. If you want to chance taking the camera into less than desirable conditions, make sure the USB port is covered by its cosmetic button.
- This product should not be used in illegal ways. Observe relevant laws.

All in Good Time

As a clandestine camera, the HD Spy Watch's controls and features aren't obvious. Here's a diagram showing where the controls and indicators are.



Charging the Camera

Find the combined USB/power socket by unscrewing the knob at 9 o'clock. Place the tiny knob in a safe place so you can retrieve it later to conceal the port when the camera is in use and cover the opening during inclement weather.

Insert one end of the USB cable in the included AC adapter and plug the single-pin end of the cable into the watch's power socket so that it snaps into place. Plug the adapter into an electrical outlet for about an hour. Alternatively, you can charge the watch without the adapter by plugging the cable into a standard USB port. However, charging may take longer than using the AC adapter.

When the watch is connected to a USB port or the AC adapter, the blue LED on the watch will stay steady during charging and turn red when fully charged.

Note: If battery power is low when you turn on the camera or the battery becomes depleted when the camera is in use, blue and red LEDs will flash for about 5 seconds and the camera will shut down. (If the camera has been recording, it will first save the current file.) The tiny LEDs can be seen when you look directly at the "12" on the watch face.

Installing the Driver

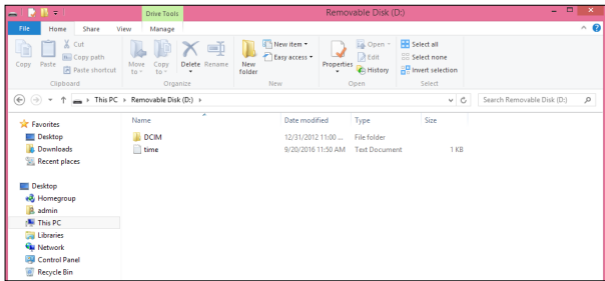
Before connecting the HD Spy Watch to a computer the first time, be sure to install the driver software. Insert the included mini-CD-ROM in your computer's CD/DVD tray and install the PC camera driver. The camera is compatible with Windows, Macintosh and Linux operating systems. Further driver installation instructions can be read as a Word file from the disc or you can just click on Setup and go through the guided setup. You'll be prompted to restart the computer before plugging in the watch.

Setting the Watch Time

Place your fingernails under the time adjustment knob (at 3 o'clock) and push it outward, then turn it clockwise or counterclockwise to change the position of the hands on the clock face. Push the knob back in to set the time as shown.

The clock hands are powered from a dedicated, replaceable battery that does not draw power from the camera's rechargeable battery. If the time stops working, take the product to a jeweler or watch repair shop to have the battery changed as you would any wristwatch.

Remember to adjust the time twice a year when clocks spring ahead or fall back an hour or when you travel to a different time zone.



Setting the Camera Date and Time

The date and elapsed time of each video will be superimposed on the bottom of the screen during playback. You should enter the correct date and time before your first recording. Once you've installed the camera driver software from the enclosed disc (see above), use a word processing program or text editor such as Notepad on your computer, enter the current date and time on one line in this order:

year.month.day hour:minute:second followed by a space and the letter Y.

So, for example, Sept. 22, 2016 at 1:17 pm would be entered:

2016.09.22 13:17:00 Y

Tip: Add an extra minute or two to the time you type in to accommodate the steps that follow.

Save the data with the "time.txt" file name. (Microsoft Word, for example, enables you to save content as a "txt" file rather than in its default "docx" format.) Once you connect the watch to the computer's USB port and it comes up as an external drive, save or copy the time.txt file into the external drive's root directory.

Note: Don't save the time.txt file inside the DCIM folder, which is reserved for the media files captured by the camera.

If you don't want the date and time superimposed on the picture, you can disable the data stamp on subsequent recordings. Follow the instructions for setting the date and time above but enter the letter "N" as in "no" instead of the "Y" at the end of the text in the file. For example, the file would read:

2016.09.30 10:30:00 N

When the date and time are not superimposed on the picture, you can check the file directory on your computer for the information.

Note: The camera default is to superimpose the date and time on the picture. If you don't do anything with the camera out of the box, an incorrect date and time will likely appear until you change the setting.

Quick Start Video Recording

Assuming the camera is charged, it shouldn't take more than a few seconds to start recording video.

1. Press and hold the button on the watch periphery at 2 o'clock for about 2 seconds. A tiny blue LED atop the "12" on the clock face will light up, then flash three times to confirm that recording has started. The LED remains unlit during video recording.
2. To pause the recording double tap the same 2 o'clock button. The blue LED will glow steadily indicating that the recording has been saved, and the camera is now in Standby mode.
3. To resume recording, press the 2 o'clock button once. The LED will flash three times indicating that a new recording has begun.
4. To turn off the camera while recording or from Standby mode, simply hold down the 2 o'clock button for more than 2 seconds.



Watch and Wear

Wear the watch on your left or right wrist as you would any watch so you can read the face with the 12 o'clock pointing up. The lens is built into the dot at 6 o'clock. If you gaze at the watch on your wrist as it's recording, you'll appear upside down on playback. Not to worry. The lens has been mounted upside down so that when you hold your wrist outward horizontally with, for instance, your hand across your stomach, subjects in front of you will appear upright on playback.

Note: Make sure while recording videos or taking photos to orient the watch with the 12 o'clock pointed toward the floor and the 6 o'clock to the ceiling. Be mindful of your fingers and shirt or coat sleeves. Pay particular attention not to cover the portion of the watch face near 6 o'clock since that's where the lens is hidden.

Night Vision

Four infrared LEDs along the bottom of the clock face can be activated to record black and white video in darkness. You must turn the night vision feature on each time while the camera is recording video.

1. Start recording video (as described above), then press and hold the 10 o'clock button for about 2 seconds. The red LED will flash three times, confirming that night vision is engaged.
2. To disable night vision, press and hold the 10 o'clock button for about 3 seconds. Though there will be no confirming LED flashing this time, night vision will be disabled.

Note: The infrared LEDs cannot be set to automatically activate. Subjects you expect to capture with night vision must be centered in the frame and no more than about 5-feet (1.5 m) away from the watch. Make sure that your fingers don't cover the watch face.

Taking Photos

When photographs are preferable to videos, you can set the camera to capture still images.

1. Turn on the camera normally as you would to start a video recording by holding down the 2 o'clock button, then pause the video recording by pressing the 2 o'clock button twice. With the LED now a steady blue, the camera is in Standby mode.
2. Press the 2 o'clock button twice. The red LED will start to flash.

3. As soon as you see flashing red, press the 10 o'clock button once. The blue LED will glow steadily.
4. Press the 10 o'clock button once so that the LED changes to red.
5. To take a snapshot, tap the 2 o'clock button. Each time you press this button, the solid red LED will blink to confirm that a photo has been saved.
6. To power off the camera, press and hold the 2 o'clock button for 4- to 5 seconds.

Note: The watch should be held at least 12-inches (30 cm) away for the subject to be in focus.

Each photo results in a JPG file that consumes between 700- and 850KB. On playback in your computer, the photo's date and time will be stamped in the bottom right-hand corner of the image. It should match the original "date modified" field in the file directory as seen when you pull up the camera's DCIM/100DSCIM subdirectory. The date and time stamp on the picture can be disabled in photos going forward as they can be for video. See "Setting the Camera Date and Time" on pg. 4.

You cannot choose the photo resolution nor can you take photos while recording video. If you need to grab a photo from a video, use the take-snapshot command in your playback software or PrtScn button on your keyboard for pasting into a paint program or photo utility.

Voice Recording

Though you can use the video mode to record audio even if you don't care about the picture, the advantage of an audio-only recording is that you can store the audio WAV file in a fraction of the space of a video AVI file. The steps necessary to put the watch into audio-only recording mode, however, are a bit complicated.

1. Start recording video (as described above), then pause the video by double tapping the 2 o'clock button to put the camera into Standby mode. The blue LED will flash three times, indicating Standby mode.
2. In Standby mode press and hold the 10 o'clock button for 2 or 3 seconds until the red LED starts to flash.
3. As soon as it starts to flash, press the button at 10 o'clock once. You should now see a steady blue LED.

4. Press the 10 o'clock button once, and the LED will change to red. Then, 3 seconds later, press the same button again. The LED should now change to a solid blue light again.

5. Tap the 2 o'clock button to start the audio recording, and the LED will flash blue every second continuously to confirm a recording in progress.

6. You can pause the audio recording by pressing the 2 o'clock button, and the LED will turn solid blue. To resume audio recording, tap the button again.

7. You can power off the camera after pausing the audio recording (see Step 6 above) by holding the 2 o'clock button for 4 or 5 seconds until the red LED starts to flash quickly.

LED Indicators

Pay attention to the two light emitting diodes embedded in the "12" of 12 o'clock on the clock face. Here's a summary of what the lights mean:

Blue and red flashing together for 5 seconds indicate that the camera is out of memory.

Blue and red alternatingly flashing indicate the battery must be recharged.

Blue means Video mode. When the LED flashes, video recording is starting. When it's steady, the camera is in Standby mode.

Red generally means Photo mode. When the LED is steady, the camera is set to take still pictures. When you press the 2 o'clock button and the LED flashes, a still image has been saved.

When the red LED flashes three times, it means you've activated the infrared LEDs for night vision.

A flashing red LED also indicates a step in starting a voice recording.

When the watch is connected to a USB port or the AC adapter, the blue LED on the watch will stay steady during charging and turn red when fully charged.

Playback and File Management

Once you plug the watch into a USB port on your computer, you'll find the recorded content in an external drive subdirectory such as: D:\DCIM\100DSCIM. Use playback software (not included) such as the VLC Media Player to play video, a paint or photo viewing program to review photos and a music or media player to hear audio recordings.

Use your computer's file manager to copy files to your computer and delete files from the HD Spy Watch's internal memory. Once the camera's memory fills up, you must start deleting files to make room for new videos, photos or audio recordings.

FAQs

Can the camera be set for loop recording?

No. Once the internal memory fills up, the camera will stop recording. You must transfer and delete files manually using your computer.

Can the device be used as a live webcam?

No. When the HD Spy Watch is plugged into a computer's USB port, you can only play and manage its recorded content.

Can the camera record video while plugged into a USB power port?

No. The camera can only record while powered from its battery.

Can the recording resolution be changed?

No. Video is always captured at 1920 x 1080 pixels.

Can the audio be disabled during video recording?

Yes. That is, if you screw off the tiny knob with the hole at 4 o'clock and replace it with the included mic shutoff knob (without hole) that cuts off the path to the microphone.

How much memory does a 15-minute video file use?

More than 1GB.

What happens when a recording exceeds 15 minutes?

A new file is automatically started. Since it is contiguous, you shouldn't lose content.

Do the three inner clocks on the watch face operate?

No. They're only there for show.

What if the computer doesn't recognize the camera?

Check that both ends of the cable are firmly attached. Try a different USB port. Try rotating the cable plug while it's inserted in the watch socket.

How do I reset the camera?

In the event the camera locks up or crashes, the system can be reset by holding down the buttons at 2 o'clock and 10 o'clock at the same time.

SPECIFICATIONS

Image sensor	12 MP (1/4" CMOS)
Video resolution	1920 x 1080
Frame rate	30 fps
Lens	Fixed
Viewing angle	90°
Minimum focusing distance	12" (30 cm)
Internal memory	8GB
Video storage capacity	70- to 80 min.
Video format	AVI
Photographic resolution	4032 x 3024
Photo format	JPG
Photo storage capability	About 2000 photos
Audio	Mono
Voice sampling	8 KHz
Audio storage capability	About 360 hr.
Audio format	WAV
IR night vision	4 LEDs
IR illumination range	Up to 5' (1.5 m)
Interface	One-pin socket on watch to USB
Cable length	26"
Charging time	About 1 hr.
Battery longevity	About 150 min.
Battery charge	DC 5V 500mA
Battery type	Embedded high-capacity lithium polymer (LiPo)
Storage temperature	-20° – 80°F (-29° – 27°C)
Compatible computers	Windows, Macintosh, Linux
Size	2" (5 cm) clock face diameter with knobs 9.5" (24 cm) length with strap spread open
Weight	3.2 oz. (90 g)

Help

Thanks again for purchasing a SpyTec product! We appreciate your business and strive to make your experience the best possible. If you have any issues with your product, please contact us at support@spytec.com so that we can help you get things started.

Warranty

This Limited Warranty applies to physical goods sold by STI and lasts for a period of 90 days from the date of sale of the device. This Limited Warranty covers any manufacturing defects to the device or accessories encountered by normal use. This warranty does NOT cover damages resulting from improper use of the device (including the use of incompatible accessories such as chargers, storage devices, etc.), unauthorized modifications to the device, negligence, or from any environmental or natural disasters, or from loss or theft. This warranty requires proof of sale of the device from STI or from approved resellers only.

Devices that are covered will be repaired or replaced at STI's discretion. Devices requiring replacement will be fulfilled with a new or refurbished unit, or a similar unit if the original unit is no longer available.

To take advantage of our warranty, please go to: <http://www.spytec.com/return-policy/> and review our returns policy. If your device meets the above guidelines as well as the guidelines on our website, please click the button to proceed to the Return Authorization Form. In the event our online guidelines change, this warranty will supersede any newer changes. Once you have filled out the Return Merchant Authorization form, please wait for instructions. The date the form is filled out must not exceed 90 days from the date of sale.



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