Digital Recording Black & Silver Pen

This fully functional pen is perfect for secret shoppers, journalist activities and private investigators taking covert footage. It also is convenient for businessmen and students who want a simple method to retake memos and record meetings and lectures for further review.

Features

. Low illumination, high resolution video and photo recording
. High speed recording and quick light response
. Video Resolution：1280X720/640X480/352X288 selectable
. Photo Resolution：1280X720
. Motion detection auto recording
. Voice recording function
. Flexible use as a removable disk
. Built in 2GB memory, expandable with a MicroSD card up to 16GB (optional)
. Support AVI video format
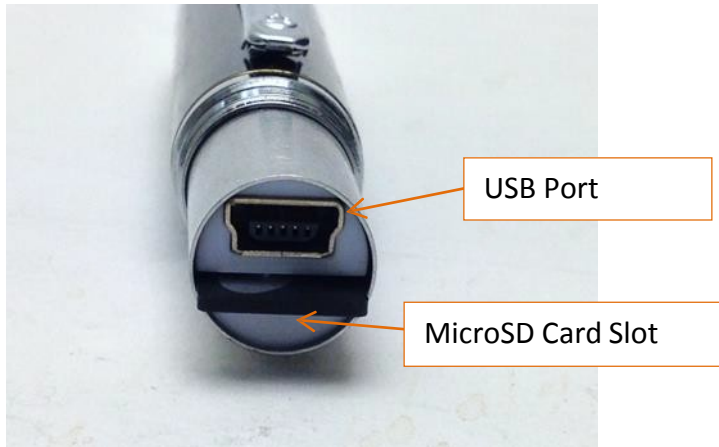. Built-in Li-po battery
. Easy operation with LED indicator

Components enclosed:

1）Main Unit (1)
2） User Manual (1）
3）CD (1)
4）AC Adaptor Charger (1）
5）USB Cable（1）

THANK YOU FOR PURCHASING THE BLACK & SILVER PEN

Thank you for purchasing our black and silver pen recorder. Please read this manual carefully before you make any attempt to operate this product and retain it for your future reference.

GET FAMILIAR WITH YOUR BLACK & SILVER PEN

IMAGES AND PARTS

USB Port

MicroSD Card Slot

Record/Stop Button

Reset Hole

LED Indicator

2GB

Camera Lens

Lens Cover Slider

OPERATING THE BLACK & SILVER PEN

IMPORTANT NOTICE: Allow the device to charge 4 – 6 hoursbefore using. Do not connect the device while it is recording, otherwise potential data corruption may occur.

HOW TO CHARGE THE PEN

USING A PC

1.   Plug the USB cable into the jack located in the center of the pen after unscrewing it.
2.   Plug the other end of the USB cable into your PC
   - Ensure the pen is off or on **Standby Mode**
   - The blue indicator light will flash while it is charging.
   - The blue indicator light will stay solid when fully charged

USING THE AC ADAPTOR CHARGER

1. Plug the A/C adapter into a power source such as an outlet
2. If the A/C light is on, then power is being fed to the adapter
   - If the light is not on, try a different outlet
3. Connect the USB charging cable to the A/C adapter

4. Ensure the pen is turned off or in Standby Mode
5. Connect the USB charger cable to the pen
- The blue indicator light will flash while it is charging.
- The blue indicator light will stay solid when fully charged.

HOW TO RECORD VIDEO

NOTICE: Ensure the lens cover on the pen has been slid down before beginning recording.

1. Push the Power / Record Button until the blue light turns on.
2. Wait about 3 seconds, the green light will start blinking.
   - The pen is now recording video.
   - The green light will blink once every second while recording.
3. Push the Record Button again to stop recording.
   - The blue light will turn on indicating it is in **Standby** mode and will remain solid until you start recording again.
4. Press and hold the Power / Record button to power off the pen.

NOTICE: If the continuous recording time for a video is over 60 minutes, the pen will save the current recording data and automatically continue recording to a new file.

HOW TO TAKE PHOTOGRAPHS

1. Push the Power/ Record Button until the blue light turns on.
2. Wait around 3 to 5 seconds.
   • The light will now flash green.
3. When the green light starts flashing, push the Power/ Record Button.
   • The light will turn blue, indicating the pen is in **Standby mode.**
4. Press the Record/Stop button quickly 3 times, the blue and green light will alternatively blink.
   • The pen is now in **Photography** mode.
5. In **Photography Mode** (blue **and** green indicators blink alternately), press the Record/Stop button once to take a photo.

6. Next the blue indicator light will blink, and two photos will be taken and saved **each time**. The blue light flashes rapidly when a photo is taken as confirmation.
7. To exit **Photography Mode**, quickly push the Power/ Record Button 3 times.
   • The light will turn a solid blue indicating the pen has returned to standby mode.

Note: To obtain the clearest picture, please keep the unit stationary and do not move while you are taking a photo.

HOW TO RECORD WITH MOTION DETECTION

1. Push the Power/ Record Button until the blue light turns on.
2. Wait around 3 to 5 seconds.
   • The light will now flash green.
3. When the green light starts flashing, push the Power/ Record Button.
   • The light will turn blue, indicating the pen is in **Standby mode.**

When the recorder is in **Standby Mode** (blue indicator light is on), quickly press the Record/Stop button **4** times, the recorder will enter Motion Detection Mode, and the green indicator lights will blink three times.

1. In Motion Detection Mode (blue **and** green indicators blink slowly), when an object is moving in front of the lens, the recorder will begin video recording automatically, blue and green indicator lights will blink faster.
2. When an object stops moving, after a few seconds, the recorder will stop recording and save video data automatically.
3. Press the Record/Stop button once, which will pause motion detecting, and the blue and green Indicator lights will remain on.
4. To exit Motion Detection mode, once again quickly press the Record/Stop button **4** times, the unit will revert back to Standby Mode, the blue indicator light will stay on.

TURNING OFF THE PEN

When the pen is in **Standby Mode**, hold the Record/Stop button down for 3 seconds, the pen will shut down.

The unit will also turn off under the following conditions:
1. The battery's power is low (the blue indicator light will blink for several seconds, and then the pen will save current data and shut down automatically).
2. The memory of the recorder is full (at this time, the blue and green indicators will blink for several seconds, and then the recorder will save data and shut down automatically).
3. If there has been no operation for 5 minutes in Standby Mode, the unit will shut down to save power.

SETTING VIDEO RESOLUTION

Three video resolutions can be set as needed: 1280x720, 640x480 and 352x288.

1. A sample file "framesize.txt" is included in the CD, you can open this file to the root of the device and edit the source digit for different video resolutions:
   - **0 for 1280x720**;
   - **1 for 640x480;**
   - **2 for 352x288;**

2. The contents of this file will be only a single digit: 0, 1, or 2. It will not include the actual resolution number.
3. Next you must save the file to the root directory of the pen, when the pen is connected to the computer.
4. Disconnect the pen from computer, turn the recorder on and the new video resolution will be automatically applied.

SETTING TIMESTAMP

The recorder has a real-time display, with the date and time being shown on an image. To set or adjust the date and time, follow these steps:

1. A sample file "time.txt" is included on the CD.
2. Save the file as a text file and it must be named "**time**" (all lowercase).
3. Edit a text file, the contents of this text file will only be
   20091106153000
   (Year – 2009, Month – 11, Day – 06, Hour – 15, Minutes – 30, Seconds – 00)
4. Save this file under the root directory of the pen memory when the pen is connected to your computer.
5. Disconnect the pen from the computer, turn the pen on, the time will be automatically applied.
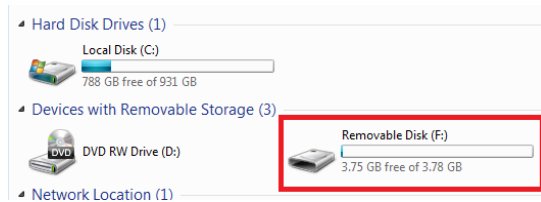
RETRIEVE THE FILES TO YOUR PC

1. Plug the device into your PC using the USB cable
2. Locate "Removable Disk" inside the (My) Computer folder
   - AutoPlay Removable Disk > Open folder to view files

Or…

- Go to Start > Computer > Removable Disk

3. Open the Removable Disk drive
4. Open the PHOTO/VIDEO/VOICE folder
5. Double click the file you want to view
    - VLC Player is recommended for watching videos

MAINTENANCE & TROUBLESHOOTING

THE DEVICE WON'T TURN ON
- Charge the device for at least 4 hours before the first use
- Make sure the charging cable is securely inserted into the device and into the power source

RESET FUNCTION
In case of system error or the unit operates abnormally, please reset the recorder.
- There is a small Reset hole on the back of the pin above the LED Indicator light, use a thin stick (e.g. safety pin, toothpick) to gently press the Reset button inside the hole.

THE DEVICE ISN'T CHARGING
- Replace the USB charger.
- If you are charging via a wall power source, you may need to charge via your PC. The AC adapter might be damaged.

MY COMPUTER DOESN'T RECOGNIZE THE DEVICE
- Unplug the device from your PC and reboot the device.
- Unplug the device from your PC and reboot your PC.
- Try using a different USB slot on your PC.
- Replace the USB cable.

THE SOUND OR VIDEO IS UNCLEAR
- The device needs to be charged.

OTHER PROBLEMS
- Call our technical support at **770–694–6923**

MAINTENANCE
- Keep the device dry. Precipitation, humidity, and any liquid or moisture can contain minerals that may corrode its electrical circuits. If your device does get wet, dry it off immediately and thoroughly.
- Do not use or store the device in dusty or dirty areas to protect the integrity of its moving parts and electronic components.
- Do not store the device in hot areas to prevent warping of plastics and to avoid electronic or battery damage.
- Do not store the device in cold areas to prevent condensation forming internally and damaging components.
- Do not attempt to open the unit.
- Do not drop, knock, or shake the device.
- Do not use chemicals, cleaning solvents, or detergents to clean the device.

*Please follow the law. Do not use the pen in any illegal manner.

SPECIFICATIONS

Video Resolution	**1280×720/640x480/352x288 selectable**
Video Format	AVI
Frames per Second	≥20fps
Recording Time	60 minutes (video)
Vision Angle	62°
Motion Detection	Yes
Photo Format	JPG
Minimum Illumination	1 Lux
Battery Charge (V)	DC 5V
Type of Memory	2GB internal and MicroSD card slot
Store Temperature	-20°- 80°
Recording Capacity	2GB ≈ 1 hour 4GB ≈ 2 hours 8GB ≈ 4 hours 16GB ≈ 8 hours 32GB ≈ 16 hours
USB Interface	2.0 USB
Player Software	VLC recommended
Operating Systems	Windows 2000 Windows Me Windows XP Windows Vista Windows 7 Windows 8 Mac OSX Linux