

Lawmate PV-500EVO2 User Manual

Last Modified on 12/23/2015 9:03 pm EST

PV-500 EVO User's Guide



**Law Enforcement Products Manufacturer
Law Mate**

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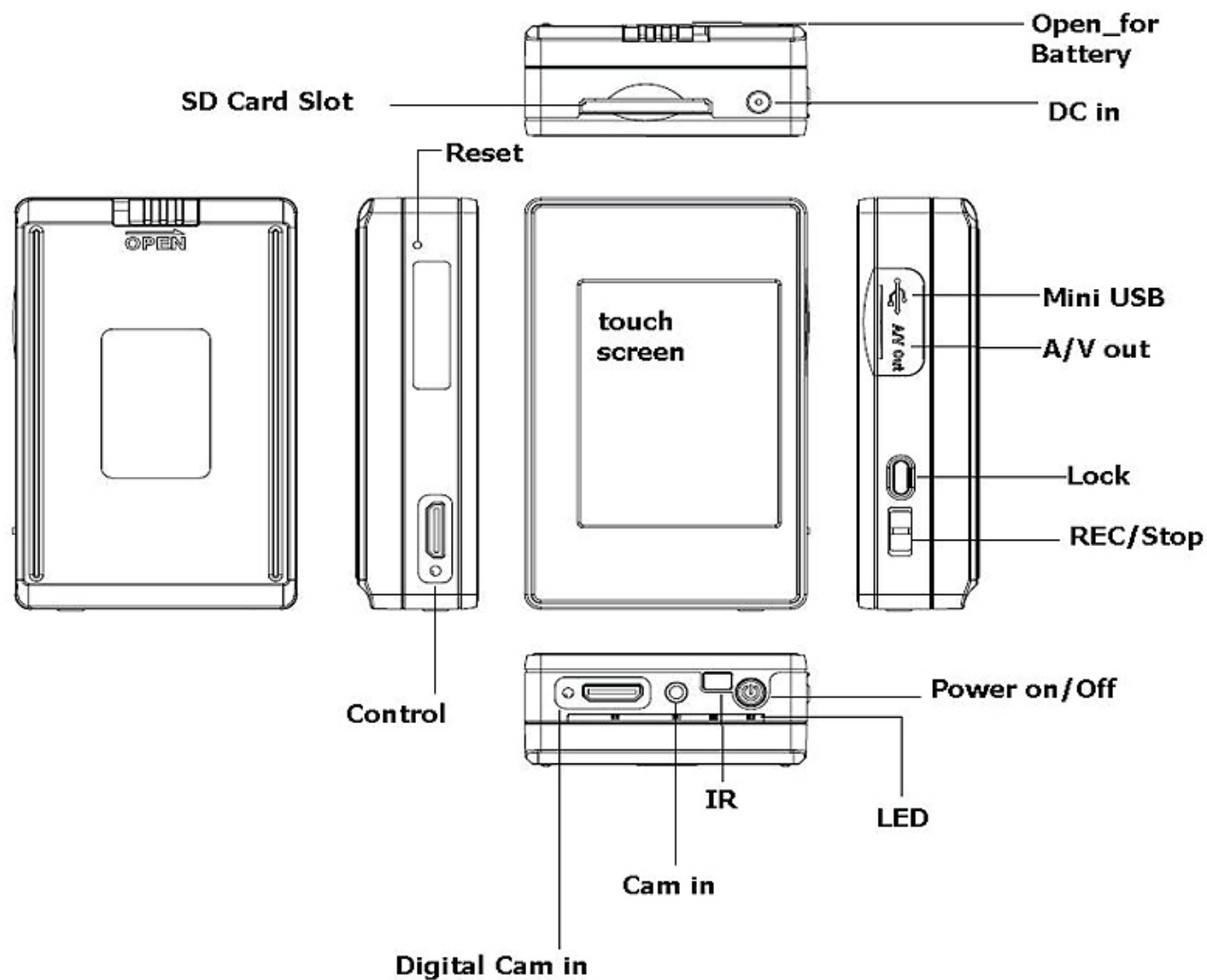
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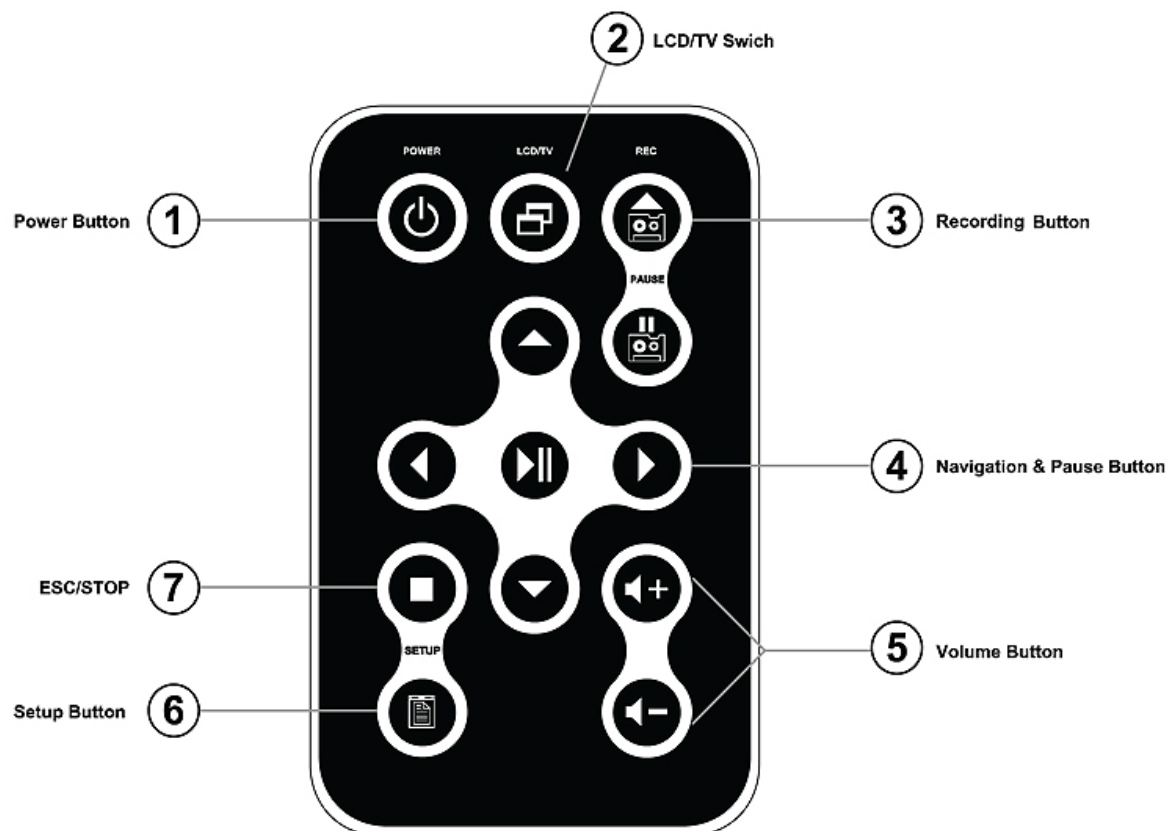
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Overview

PV-500EVO Main Device



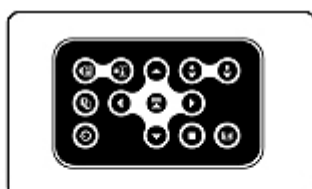
Remote



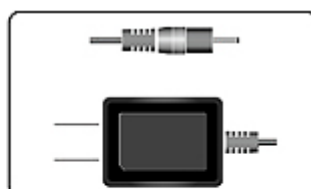
Accessories



BA-NP120 Battery



PI-PV800 Controller



CHG-0520 Charger



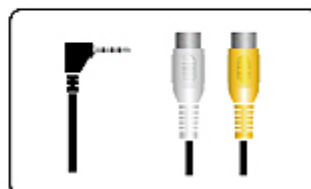
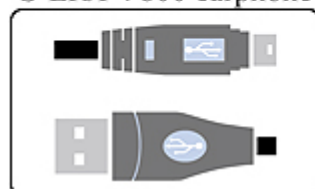
S-ER/PV800 earphone



PT-1000 Pouch



Manual



Optional



PI-WD10 Controller



PI-VTR10 Controller



PI-WL10 Controller



JK-10 Dock



VQ-PV806 Dock



RX-PV800 Dock

Function Modes

Video file playback

Browse images and picture



External video source recording

Functions setting



Basic operation

Turn on/ off of PV-500 EVO player

To	Do this	
Turn On	Press the Power On/ Off button  about 1 sec. on PV-1000, to turn on the power and the greeting screen will appear.	

Turn Off




Press the Power On/Off button  about 1sec. button on PV-1000 or press the Power button on the remote control to turn off PV-1000.

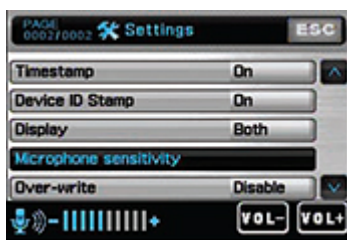


Using the touch screen

Tap any application to get started or tap an item in the list to choose it.

Tap icon **ESC** to return last page or return back to main menu.

Tap icon  or  to move next page's menu. Tap icon  for function setting.



Adjust Volume



While playing Video, Tap icon **VOL-** / **VOL+** or the one in the remote controller to adjust volume.

Volume varies in 10 steps.

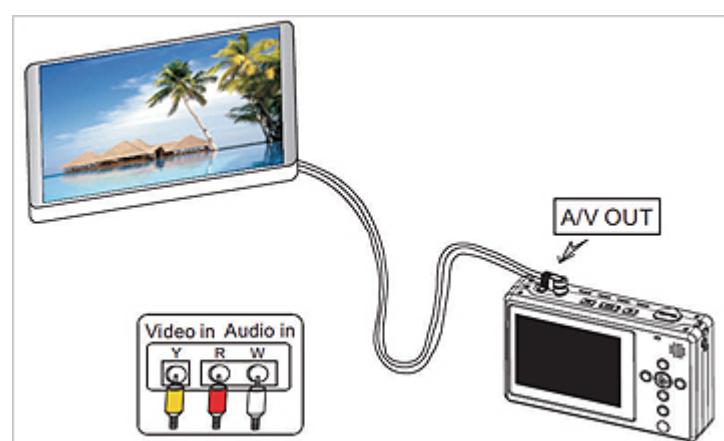
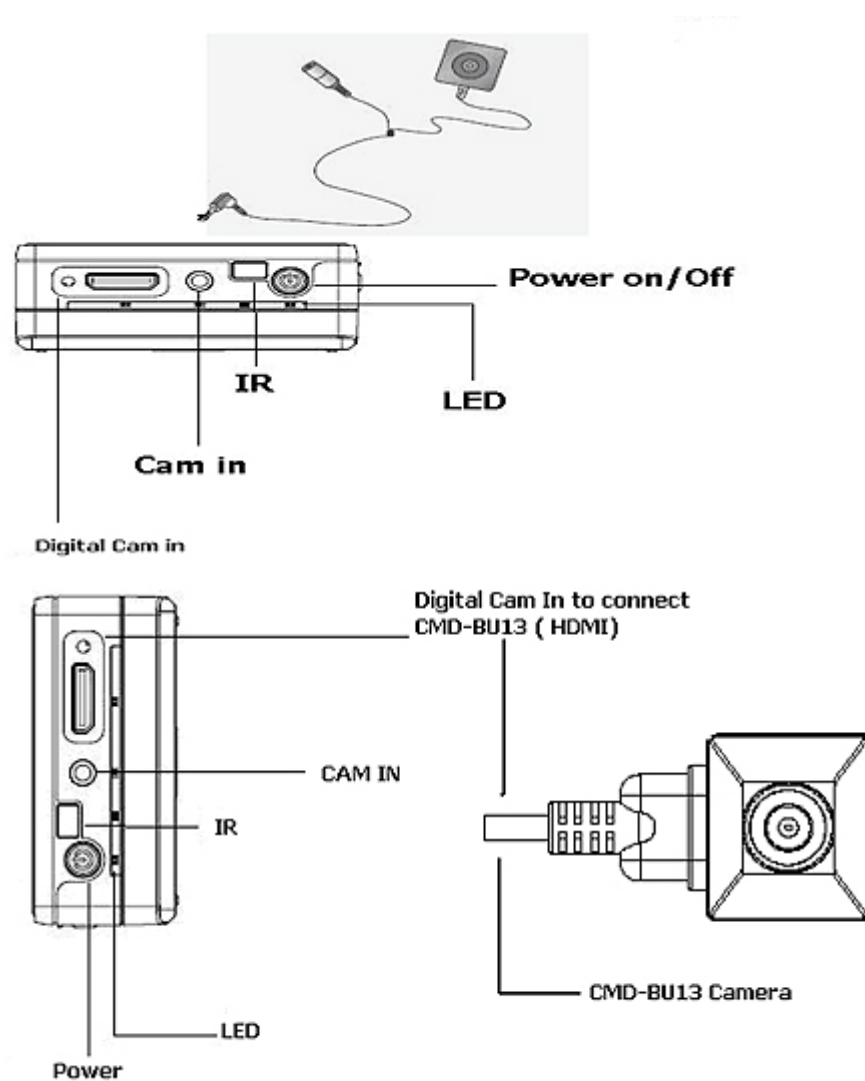
Volume status will be displayed on the left-down side of screen.

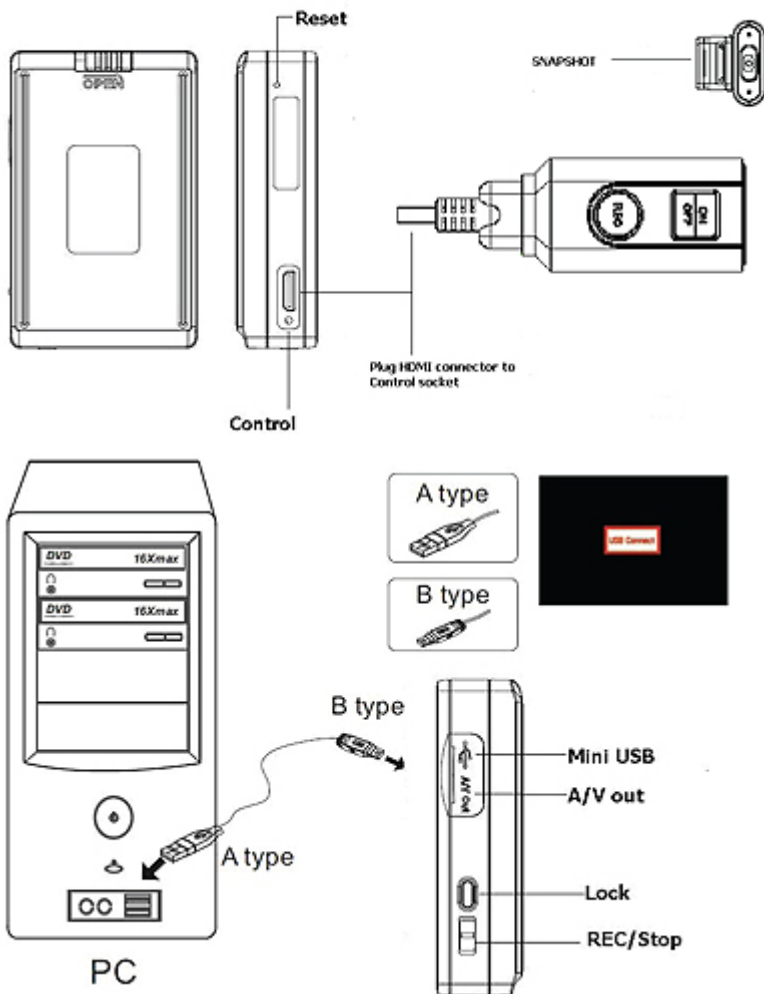
Record button



- **Start Recording** Push the REC button on the PV-500EVO or the one  on the remote controller to start recording.
- **Stop Recording:** Press STOP button or the one  on the remote controller to stop recording, and the screen will return to stand-by mode of Preview to prepare for recording.

Link with other equipments





- **External Video Source Recording- Cam in**

Plug an external camera into Cam-in , it enable recording.

- **External Video Source Recording - Digital Cam in**

- **Output to TV Screen:**

Plug an RCA cable in AV-out to have the image output to the TV.

- **Precaution:** Check "Setup" Menu, the setting of "Display" must be set from "LCD" into "TV" enable image output.


- **Connect to wire controller:**

- **Connect to PC:**

1. Connect the two ends of A/B type of USB cable to PV-1000 and PC.
2. An indication for “USB Mode” appears on the screen for 5 seconds after the link is properly installed.

- **Charging:**

When the power goes down, power LED indicator blinks (green) and the meter with no bars displays on the bottom right corner of the screen, which indicates that the power of the host exhausts; please recharge it immediately. connect the main device with the power supply and then plug the power supply into the electrical outlet. The LED light will be on Orange.

 **Precaution:** The LED light will be turned off after finishing charging; to keep long life-span of the battery, the power supply should be unplugged after finishing charging; **Please charge the battery last for 12 hours before 1st time to use**

Introduction to all Setting Functions

01. Preview >

Tap SETTINGS on the screen to the page1 of setting functions then Tap Preview to start setting each function as below.





- Resolution (352*288 /640*480/720*576/1024*768/1280*720/1280*960)
- Quality (Good/Normal/Low)
- Frame Rate(1 / 5/ 15 /20/25)
- Audio (Enable/Disable)
- Frame Counter Stamp (On/Off)
- Timestamp (On/Off)
- Device ID Stamp (On/Off)
- Display (LCD/TV/Both)
- Microphone sensitivity
- Over-write



Notice: For TV output, it is needed to select Display to TV or Both.

02. Pre-event >

Tap SETTINGS on the screen to the page1 of setting functions then Tap Pre-event to start setting each function as below.





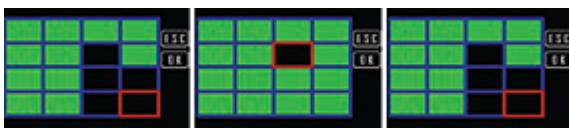
- Resolution (352*288 /640*480/720*576/1024*768/1280*720/1280*960)
- Quality (Good/Normal/Low)
- Frame Rate (1 / 5/ 15 /20/25)
- Audio (Enable/ Unable)
- Frame Counter Stamp (On/Off)
- Timestamp (On/Off)
- Device ID Stamp (ON/Off)
- Display (LCD/TV/BOTH)
- Pre-Record Time (30 sec□15 sec)
- Microphone sensitivity
- Over-write (Disable/Enable)

03. Motion detection >



Tap SETTINGS on the screen to the page1 of setting functions then Tap Motion detection to start setting each function as below.



- Resolution (352*288 /640*480/720*576/1024*768/1280*720/1280*960)
- Quality (Good/Normal/Low)
- Frame Rate (1 / 5/ 15 /20/25)
- Audio (Enable/ Unable)
- Frame Counter Stamp (On/Off)
- Timestamp (On/Off)
- Device ID Stamp (ON/Off)
- Display (LCD/TV/BOTH)
- Motion detection level (LOW/Medium/High)
- Motion Detect Record time (30sec/1min/3min/5min/10min)
- Motion Detect Zone
- Microphone sensitivity
- Over-write (Disable/Enable)



04. Date/time setting > Set Date and Time

Tap SETTINGS on the screen to the page1 of setting functions then Tap Date and time to start setting the number. Tap  or  to the next page menu.




05. Date/time /format >

Tap SETTINGS on the screen to the page1 of setting functions then tap Date Format to select.



06. Language > Choose the language for Operating interface

Tap Language on the page2 of setting functions; tap  or  move next page menu.



07. Recording Mode > set up the screen to be automatically returned to which recording mode. Tap Pre set recording mode on the page2 of setting functions then select the one you wish



08. Resume to pre-set duration >



Tap Resume to Pre-set Duration on the page2 of setting functions to select.

09. Timer recording > set up the timing to recording mode

Tap the application of Timer recording on the page 2 of setting functions to select one blank

column in order to reset the timer. Once timer setting is set, the screen will appear reserving time as below.



Notice: it is needed to set the setting as “ ON” to book the reserved recording successfully; the reservation will be executed only when the device is in Power on state.

10. Back light out duration >

Setting to turn off the backlight during the device is not used.



11. Storage option >

PV500 device accepts SD card only.

12. Storage information > show the size and the free space of the storage.



13. Storage capacity > how the icon on the device; SD card needs to be inserted to slot then  will be displayed in the left-bottom side of screen . Tape **ESC** to the last page

14. Format memory > allow to format SD



15. TV-out setting >



16. TV-output adjustment >

17. Display > Output TV Display setting



18. Video playback >



19. Video thumbnail > Setting if enable to preview image when reading video files



20. Image thumbnail > setting if enable to preview when reading photo files

21. Slide show > setting if enable slideshow



22. Slideshow duration > setting the section time during slideshow playing



23. Firmware upgrade > Insert the SD card which contains updated software into the device and press enter button, after the system is updated, it will reboot automatically; if the message “Update Error” is shown, it means that there are errors during updating, it might be that the software is incomplete or the memory card has some problem, please use other memory card, or reboot the device after inserting the memory card.



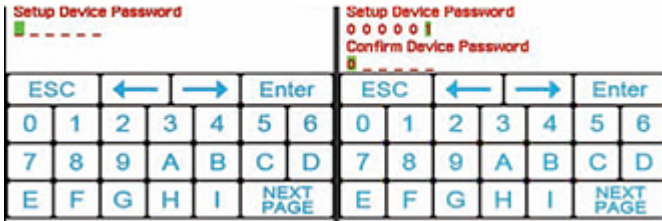
24. Restore factory setting > choose if you would restore factory setting, Tap ok/Cancel.



25. Power on password > lock or not to lock when turning on PV-500EVO; if set” On”, it requires password to enter main menu of PV-500EVO player.



26. Set power on password > Tap your chosen 6 characters and then confirm these characters once more, after setting Tap Enter to complete the setting.

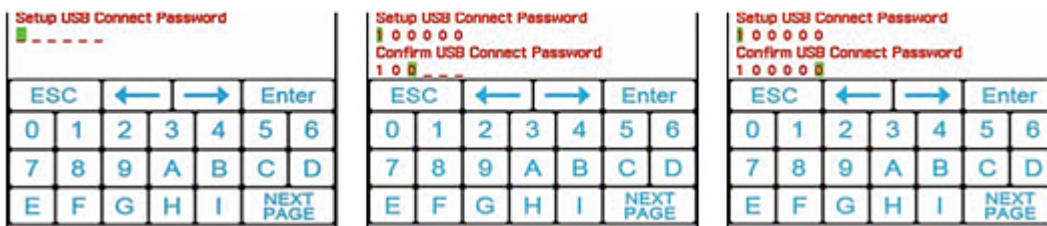


27. USB connect password > setting if locked when reading data through USB



28. Set USB connect password >

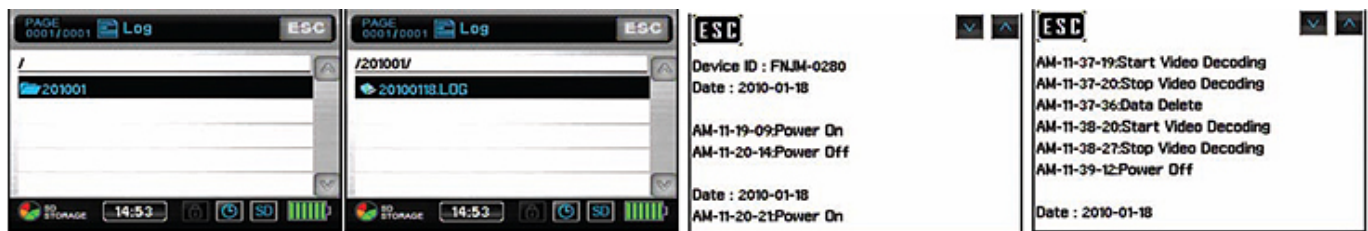
Tap your chosen six-character on the screen and then confirm these characters once more, after setting tap Enter to complete the setting.



29. Create log file >



30. View log > view all log record for power on/off, USB plug-in/out and record and playback.



31. Save all log file >

Tape it to save all logs

32. Device information > show information about



33. LED > Setting LED panel to be off/on



34. Continuous shot Max > setting the max. times for the continuous shot



35. Digital CMOS low light mode > Enable or disable for recording in 30fps.



36. Digital CMOS Anti-Flicker >



37. Digital CMOS Calibration >



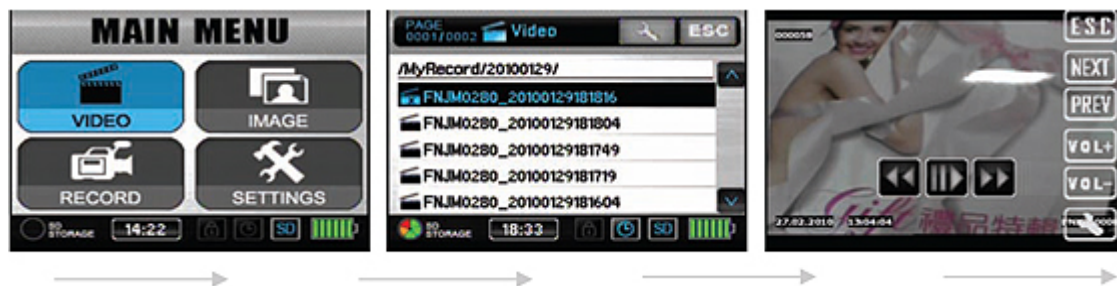
38. Vibration Settings > setting if use Vibration on the device when turn on/off or start/stop the recording.



Video Playback

Operations in Main Menu

Tap VIDEO on the Main Menu to open the newest files .
Choose the files to play video as below.





Tap **ESC** button to open files listed in date; choose desired video file to play. Tap **ESC** button again to enter the upper level of My Record.



Fast Playback





- **Double Speed Playback:**

- Tap  during normal playback, the video file will be played with a speed two times quicker; press  to return to the normal playback speed.

- **4 Times Speed Playback:**

- Tap  twice during normal playback, the video file will be played with a speed four times quicker; press  to return to the normal playback speed.







- **8 times Speed Playback:**

- Tap  three times during normal playback, the video file will be played with a speed eight times quicker; Tap  to return to the normal playback speed.

Introduction to all Setting Functions









Slow motion function

- **1/2 Speed slow motion:** Tap  after pausing the playback, the video file will be played in 1/2 slow motion; Tap  button to return to the normal playback speed.
- **1/4 Times Speed Playback:** Tap  twice after pausing the playback, the video file will be played in 1/4 slow motion; Tap  button to return to the normal playback speed. .
- **1/8 times Speed Playback:** Tap  three times after pausing the playback, the video file will be played in 1/8 slow motion; Tap  button to return to the normal playback speed.

Reverse Playback



- **Two times reverse playback:** Tap  during normal playing, the video file will be played with a speed two times quicker; press  to return to the normal playback speed.
- **Four times reverse playback:** Tap  twice during normal playing, the video file will be played with a speed four times quicker; Tap  to return to the normal playback speed.
- **Eight times reverse playback:** Tap  three times during normal playing, the video file will be played with a speed eight times quicker; Tap  to return to the normal playback speed.

Pause >




Tap icon  to pause the Video; Press  once again to return to normal playback.

Stop >




Tap icon **ESC** to stop playing and return to File List mode.

Video Capture > Capture Image while the video is playing.

Tap icon  on the screen to capture image while previewing. The captured pictures will be stored in the image file.



Video snapshot

Tap icon  on the screen to snapshot while recording. The snapshot - picture will be stored in the image file.

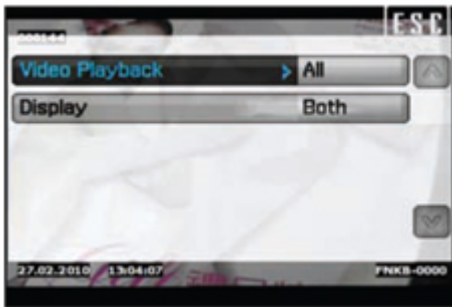


Notice: It is unable to capture an image by using remote control.

Video Editing

During Video Playback >

Tap  button, the video will be paused, and the setting items will appear :



- Video Playback (All/Single/No)
- Display (LCD/TV/BOTH)
- Tap **ESC** to playback .

In File List mode > Tap  button, the setting items will appear:



- Video Playback (All/Single/No)
- Video Thumbnail (on/off)
- Delete (One/All)
- Deletion Lock (On/Off)
- File Information

In the upper-file > Tap  button, the setting items will appear :

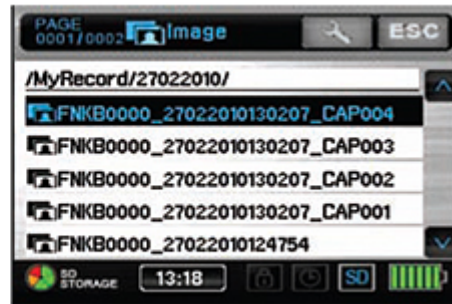


- Video Playback (All/Single/No)
- Video Thumbnail (on/off)
- Delete Directory




Photo Browsing

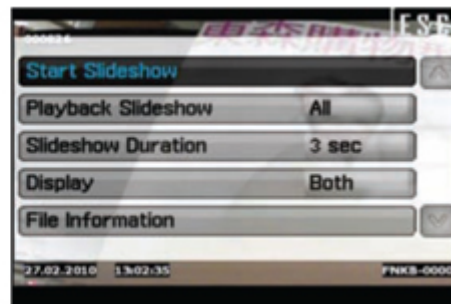
Operations in Main Menu

Tap icon IMAGE to choose the newest Photo file, file can be browsed after tapping it; Tap icon **ESC** to the upper file folder listed in date; Tap icon **ESC** once more to the upper level of MyRecord.



Start slideshow

- In File list Mode or Image Browsing Mode, tap icon 
- to show the setting items, select "Start Slideshow" to start the Slide Show; to tap  or  to choose SlideShow Time and tap slideshow period to adjust period time.



- Tap touch screen to stop Slide Show.

Photo Edit Mode

During selecting photo in a image file > Tap  icon, the setting items appear:



- Start Slideshow
- Image Thumbnail (On/Off)
- Delete (On/Off)
- Deletion Lock (On/Off)
- Playback Slideshow (One/All)
- Slideshow Time (3/5/7/10 sec)
- File Information

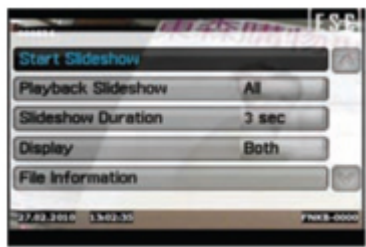
During Photo Browsing: Tap  icon, the setting items appear:



- Start Slideshow
- Playback Slideshow (All/No)
- Slideshow Duration (3 sec/ 5 sec/ 7 sec/10 sec)
- Display (LCD/TV/BOTH)
- File Information (Tap it to read file information)

Press STOP to return to the upper level.

In File List Mode : Tap  icon, the setting items appear:



- Start Slideshow
- Image Thumbnail (On/Off)
- Playback Slideshow (No/All)
- Slideshow Duration (3 sec/ 5 sec/ 7 sec/10 sec)
- Delete Directory (Tap it to delete all image photos under this file)

Supported Image File Format

Supported Image File Format

	Baseline
JPG	Lower than 4032 * 4032

Record

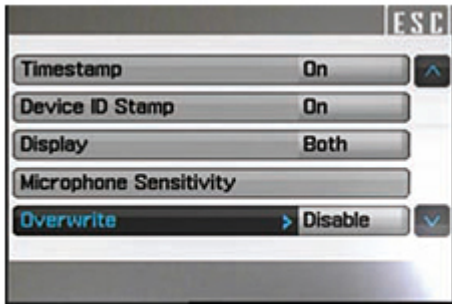
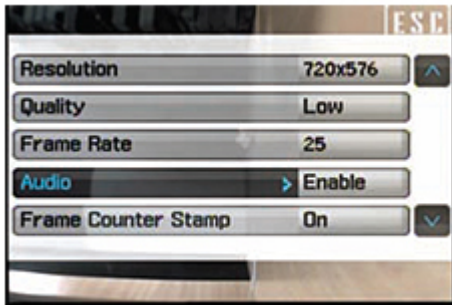
Connect an external camera and select Record function. Then press  to enter record page




Preview

Before connecting an external camera, there's no signal on the screen; after connecting, screen will show up preview mode and stand by to record.

Press REC to start recording or REC button on the remote control; Press **STOP** to finish recording.



In Preview mode, Tap  icon, the setting items appear:

- Resolution (352*288 /640*480/720*56/1024*768/1280*720/1280*960)
- Quality(Good/Normal/Low)
- Frame Rate(1 / 5/ 15 /20/30)
- Audio (Enable/Disable)
- Frame Counter Stamp (On/Off)
- Timestamp (On/Off)
- Device ID Stamp (On/Off)
- Display (LCD/TV/Both)
- Microphone Sensitivity
- Overwrite

Pre-Event


Tap Pre-event to enter Pre-event mode. Press REC or the one in the remote controller to start Recording.



In Preview mode, Tap  icon, the setting items appear:




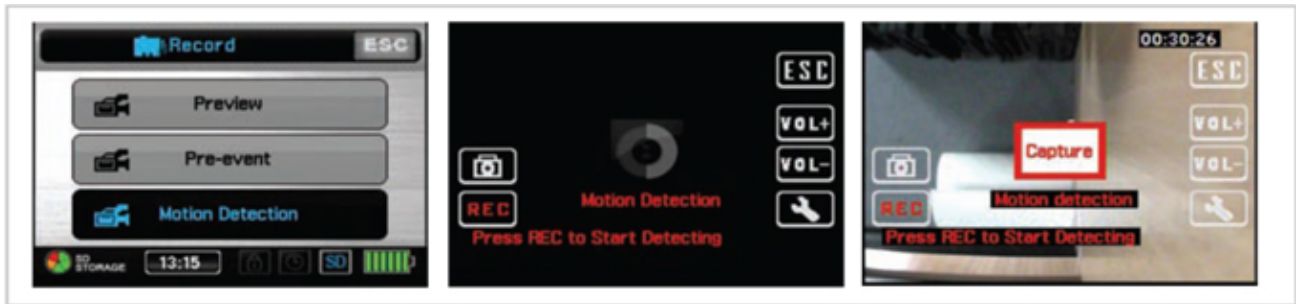
- Resolution (352*288 /640*480/720*56/1024*768/1280*720/1280*960)
- Quality (1 / 5/ 15 /20/30)
- Frame Rate (30/
- Audio (Enable/ Unable)
- Frame Counter Stamp (On/Off)
- Timestamp (On/Off)
- Device ID Stamp (ON/Off)
- Display (LCD/TV/BOTH)
- Pre-event Duration (30 sec ' 15 sec)
- Microphone Sensitivity
- Over-write

 **Notice:** Under this Pre-Event mode, the video image will be automatically recorded to Video file without pressing REC button.

Motion Detect (Press REC to start recording)

Select Motion Detect and press  to enter Motion Detect mode.

Tap  or the one in the remote controller to start Recording. If the recording environment is still, recording will stop, show.... Detecting will appear in the bottom of screen until the environment has some motion, the recording will start again, and the same condition will be repeated.




In Motion Detect Mode, tap icon , the setting items appear:




- Resolution (352*288 /640*480/720*56/1024*768/1280*720/1280*960)
- Quality (Good/Norma/ Low)
- Frame Rate (1 / 5/ 15 /20/25)
- Audio (Enable/Disable)
- Frame Counter Stamp (On/Off)
- Timestamp (On/Off)
- Device ID Stamp (ON/Off)
- Display (LCD/TV/BOTH)
- Motion Detect Level (High/Medium/Low)
- Motion Detect Duration (30 sec/1min/3 min/ 5 min/ 10min)
- Motion Detect Zone > Press |u to select the area for target of motion detect.
- Microphone Sensitivity
- Overwrite

Video Capture > Capture Image while in preview mode but not recording mode.


Tap  button on the left side of screen for a captured picture. The captured pictures will be stored in the image file.

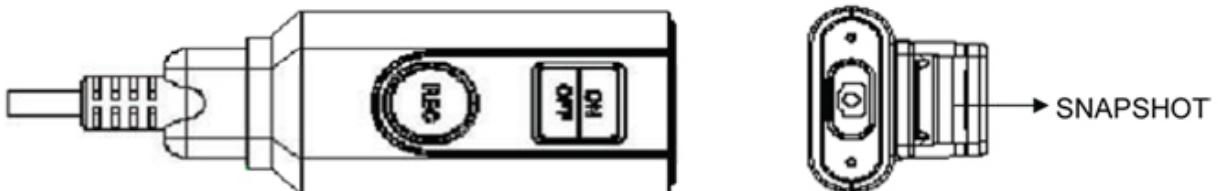
Video Snapshot > Snapshot Image while in preview mode but not recording mode.

Tap  button on the left side of screen for a captured picture. The captured pictures will be stored in the image file.

Remote Controller

Operating Remote Controller

To	Do this
Power Off	Press Off button to power off the device.
Power On	Press On to power on the device.
Record	Press REC button to start recording.
Snapshot	Press  button in the top of device to snapshot during recording.



Supported Video File Format

File Format	Resolution	Bit Rate	Frame rate
	Under 1280*960	Under 10Mbps	Under 30 fps
AVI(DivX 4/5.0)	X	X	X
AVI (DivX 2/3)	X	X	X
MPEG1(DAT, MPG-VCD File format)	X	X	X
ASF (MPEG4)	•	•	•
RM	X	X	X
WMV	X	X	X
VOB (DVD file format Without copy protection)	X	X	X



Notice: • :can be played in PV-1000.

x :can not be played and the file format can not be converted.

Resolution setting: (352*288
/640*480/720*56/1024*768/1280*720/1280*960)

Specifications

Timer Time	
Display	Resolution 320 x R.G.B x 240 2.36 inch TFT-LCD touch screen with LED backlight
AV IN/ OUT	AV input/output through two φ3.5mm jack
CCD in / DC5V Out	CCD input /DC 5V output through 2.5mm jack
LED indication Light	LED 1 - charging (red) LED 2 - Power (green)
Storage Device	SD card (support SDHC)
Computer connection	USB 2.0 mini connector
Power System	Rechargeable/ exchangeable Lithium Ion Battery 3.7v 2200mAh Power supply 100-240 V, 50 ~ 60 Hz
Dimension/ Weight	80 * 21 * 51mm/ 120g (battery included)
System Requirements	Operating system: Window: Window2000, Window XP CPU: Intel Pentium III 800 MHz and beyond Relevant hardware accessories: USB port, Mouse, CD-ROM Window- compatible display with a required resolution of 1024 * 768

Important

- Link the PV-800 with PC via USB cable to read, download & save the files in the hard disc directly.
- If you connect the device to a PC through USB, and use the computer to format the storage device, please use FAT32 format.
- Please do not scrub the LCD with hard materials, because the LCD is easy to be damaged. If you want to remove the dust on the LCD screen, please clean the body with a soft dry cloth, if dirt or stains are left, you can clean it with a little soft cleansing liquid; do not use volatile solutions because they will cause chemical reactions, thus

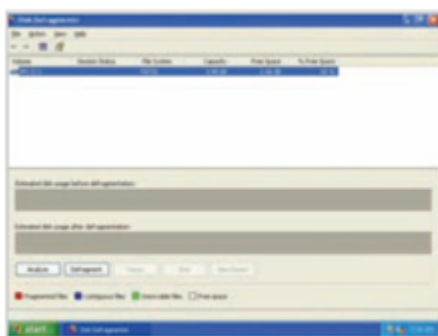
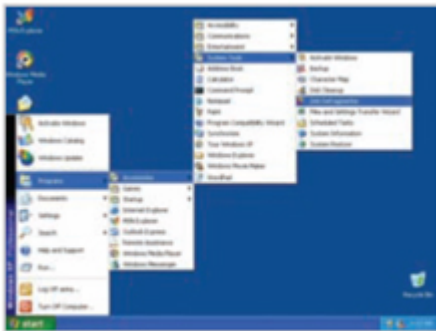
the device might be deformed or discolored.

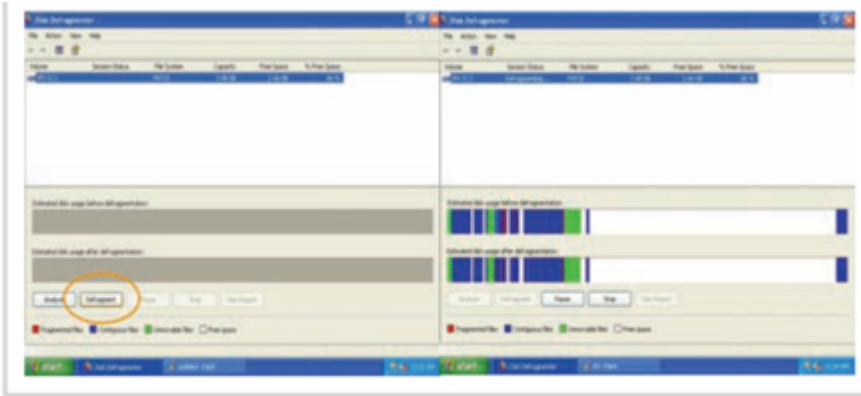
- If the device is moved from a cold place to a warm one, the LCD screen will fog up; if this situation takes place, please turn off your PV-1000 and wait for about one hour before use.

Do not store or operate the PV-1000 under such environment below:

- High humidity.
- Directly exposed to the sunshine or closed location with high temperature as well as the extra-low one.
- Places with heavy vibration or strong magnetic fields, e.g.: close to automobiles, voltage transformers or magnets.
- Do the defragment to the hard disc in every 1~2 months to make sure it working better normal & correct.
- working better normal & correct.

Fragment





- **Step 01:** Please link the PV-1000 with PC via the USB cable.
- **Step 02:** Browse the mouse cursor to the "Start" on the corner of the table & click it then browse the cursor to the All Programs Subsidiary Application Programs System tools fragment tool.
- **Step 03:** Select the hard disc device from the PV-1000 which been linked well & detected by PC to be the target to start the fragment task to.
- **Step 04:** Once under the fragment, an analysis will come first, after then will start to do the fragment accordingly.

PRECAUTION

Before using this product, please read this manual in detail to ensure you are using this product properly.

- All keypad functions invalid except the "HOLD" switcher while the cable controller been plugged to use & dominate the whole operation instead.
- All the recorded files are stored in the IMAGE/VIDEO folder.
- If the file is corrupted so that it cannot be played, The system will return to the file detailed list.
- The player can distinguish an unlimited number of files/folders. However, within a folder, only up to 999 files can be distinguished.
- The supported video file is AVI, not including AC3, DTS, AAC or else.
- All data in the device may be deleted due to excessive impact, lightning, power surge etc., the manufacturer does not bear or guarantee the losses caused in the above conditions, please protect and back up the data in the device properly.
- Please do avoid heavy vibration while recording, which might damage the hard disc or other components inside the unit.
- Please do not apply heavy pressure on your PV-1000; the player may be damaged because of heavy pressure.

- While plug the SD card if the card can not slide smoothly to the end, do not enforce to push it, which might damage the memory card & the unit.
- Check if the card is plugged into with the right side.
- While take out the SD card, push the card first gently then pull out it after the card latch inside the unit was lose. If the memory card is inserted in the wrong direction, the card can not be pushed completely into the bottom of the slot, please do not push hard to avoid damaging the card and the device.

NOTES