

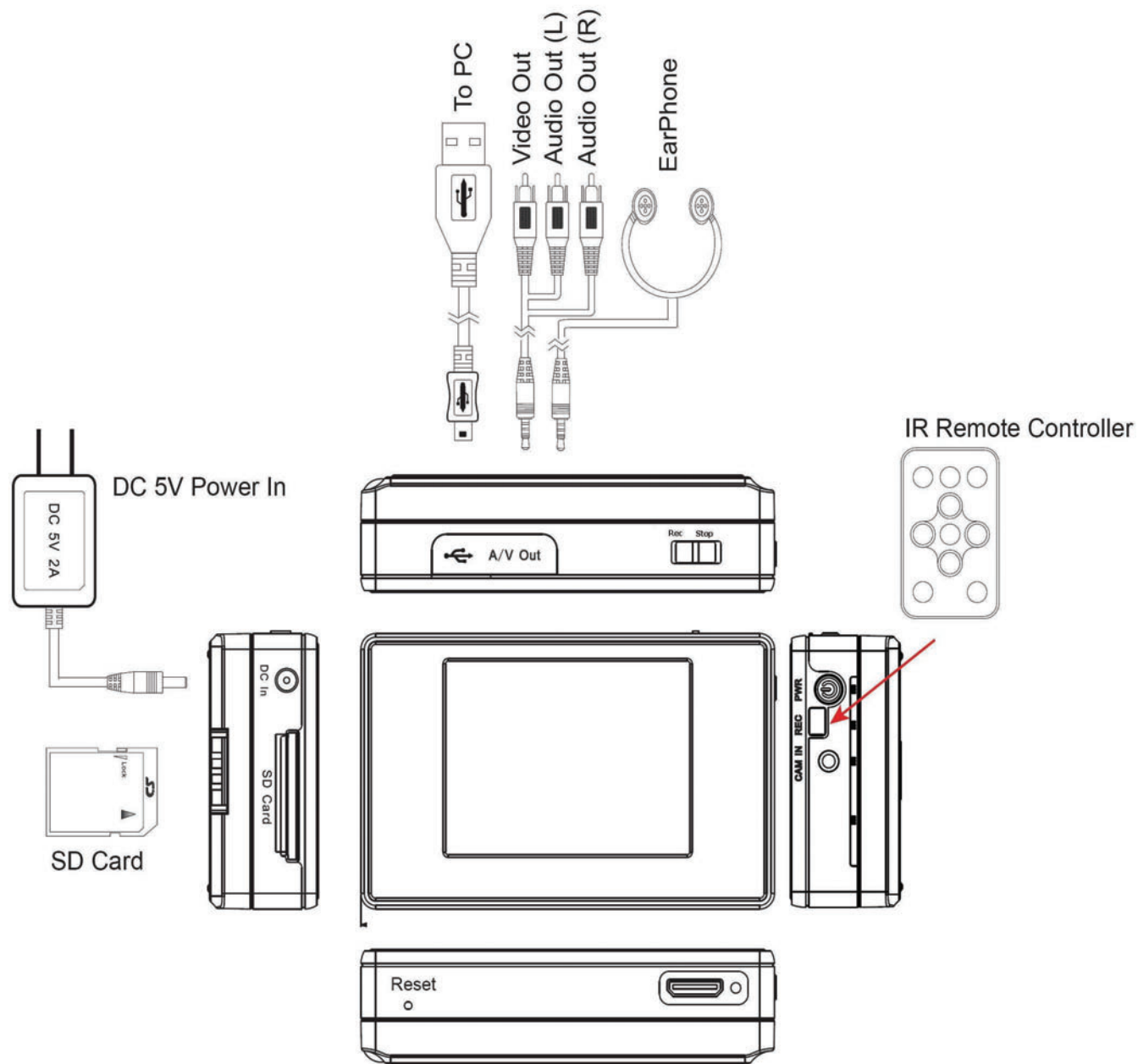
PV-500 ECO User's Guide



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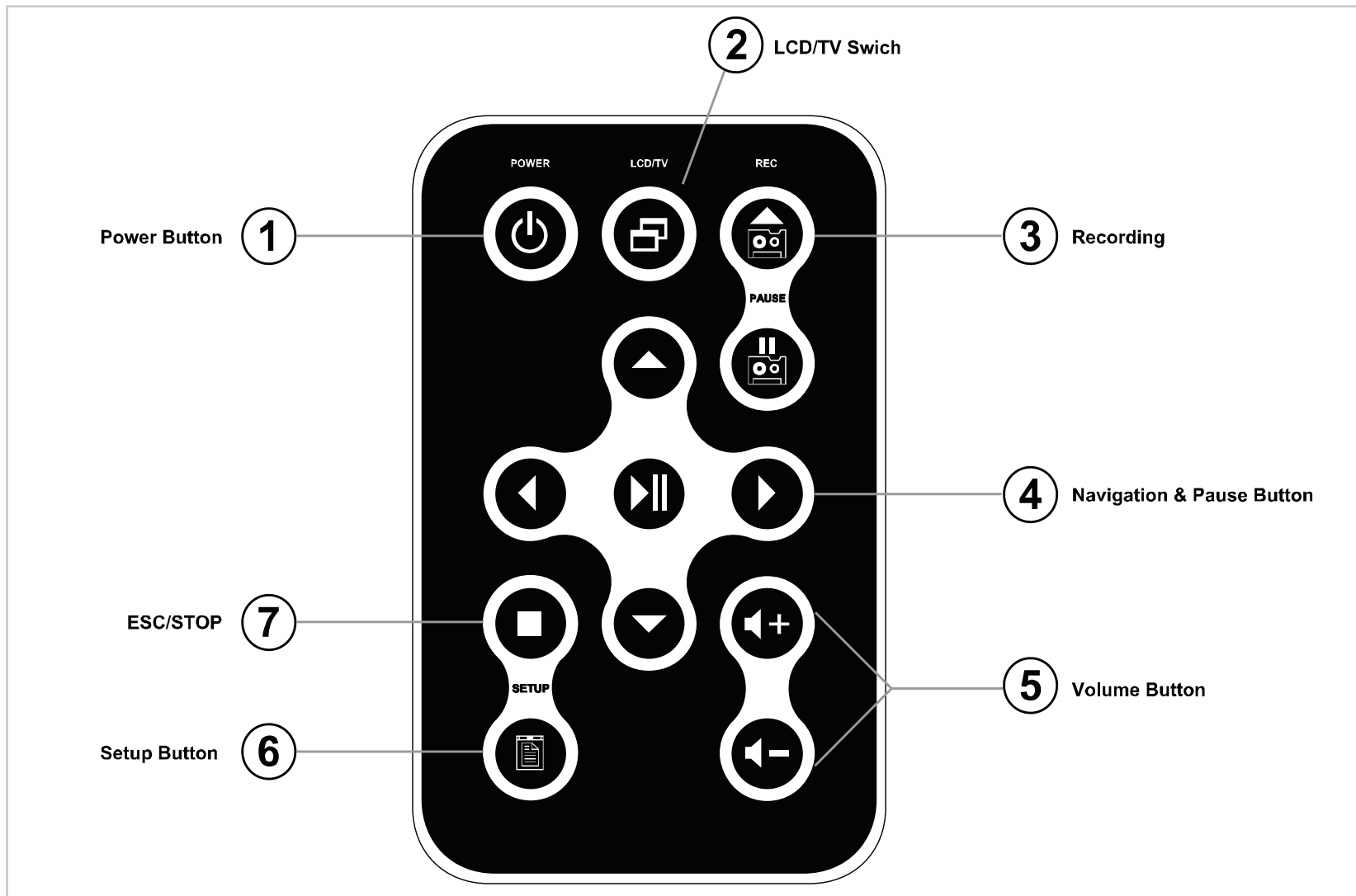
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PV-500ECO

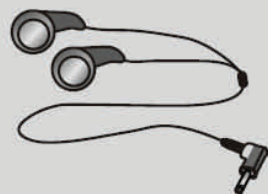


Remote control

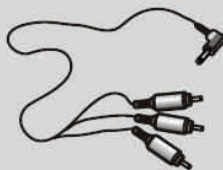
IR remote controller is required to get access to all the applications of PV-500ECO.



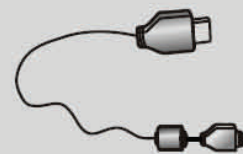
Accessories



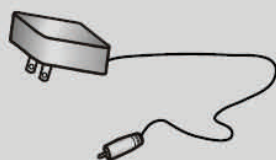
Stereo Earphones



RCA Cable



USB Cable



AC adaptor



Battery



User's Manual



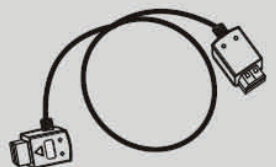
Video Sensor
(Optional)



Remote Control
(Optional)



R/F Wireless Controller
(Optional)



Wire Control Cable
(Optional)



Wire Control
(Optional)

Video file playback

Browse images and picture

External video source recording

Functions setting



Turn on/ off of PV-500 EVO player

To	Do this	
Turn On	Press the Power On/ Off button  about 1 sec. on PV-500ECO, to turn on the power and the greeting screen will appear.	
Turn Off	Press the Power On/Off button  about 1sec. on PV-500ECO, or press the Power button on the remote control to turn off PV-500ECO.	

Using IR remote controller

Use IR remote controller to get started for all the applications of PV500ECO device.

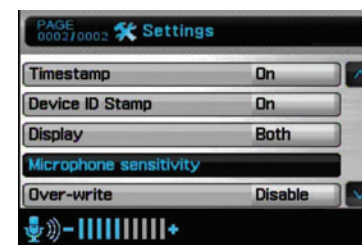
- Press ESC button  to return last page or return back to main menu.
- Press  /  to the last or next item
- In the sub-menu bar of  or , press  /  to the last or next item.
- Press  to play or enter the item that chosen.
- Press  /  /  /  to choose each function on the main menu.

Adjust Volume



While playing Video or in the Microphone setting mode, press the volume button in the remote controller to adjust volume.

- Volume varies in 10 steps.
- Volume status will be displayed on the left-down side of screen.



REC Button

Use IR remote controller to get started for all the applications of PV500ECO device.

- **Start Recording:** Press REC button on the remote controller to start recording.



- **Stop Recording:** Press PAUSE button on the remote controller to pause/stop recording, and the screen will return to stand-by mode of Preview to prepare for recording.



SETUP Button

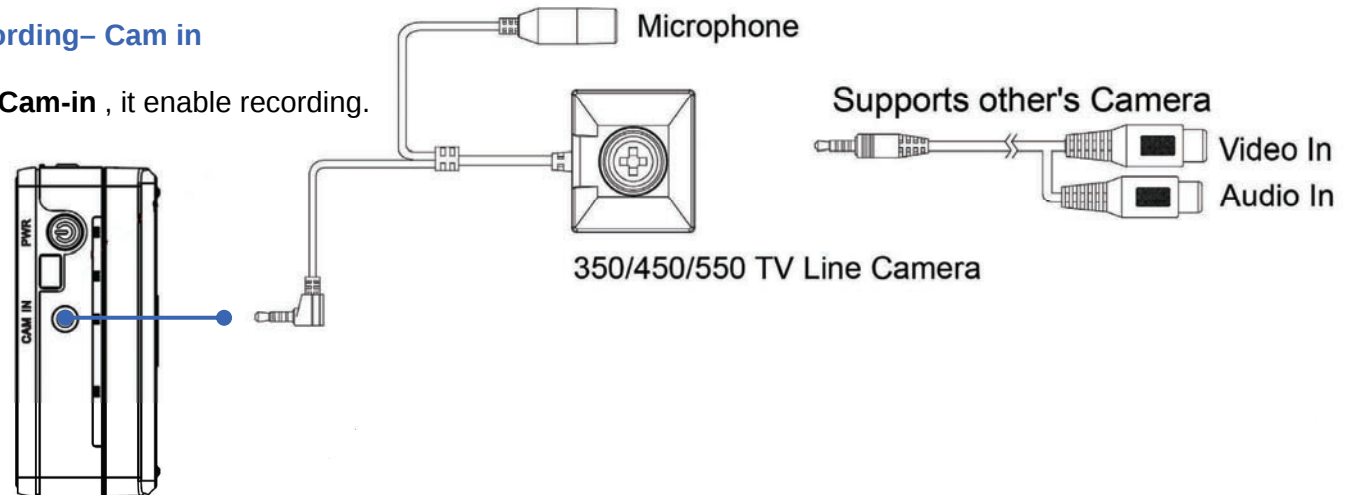


In each function mode, Press SETUP Button for its settings .

Link with other equipments

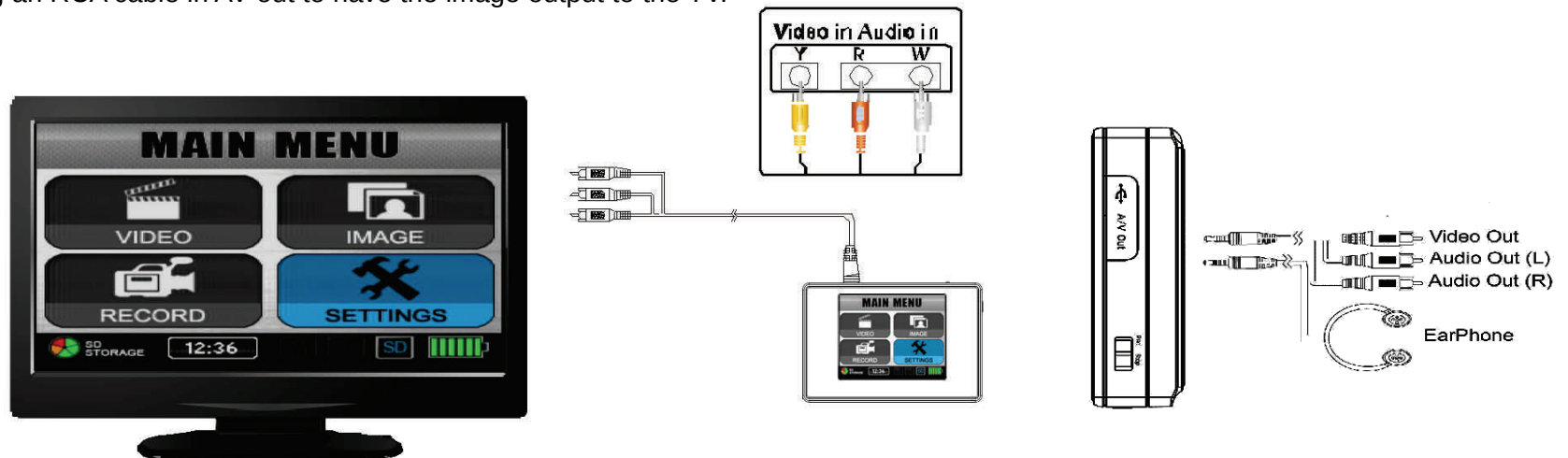
● External Video Source Recording– Cam in

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



● Output to TV Screen:

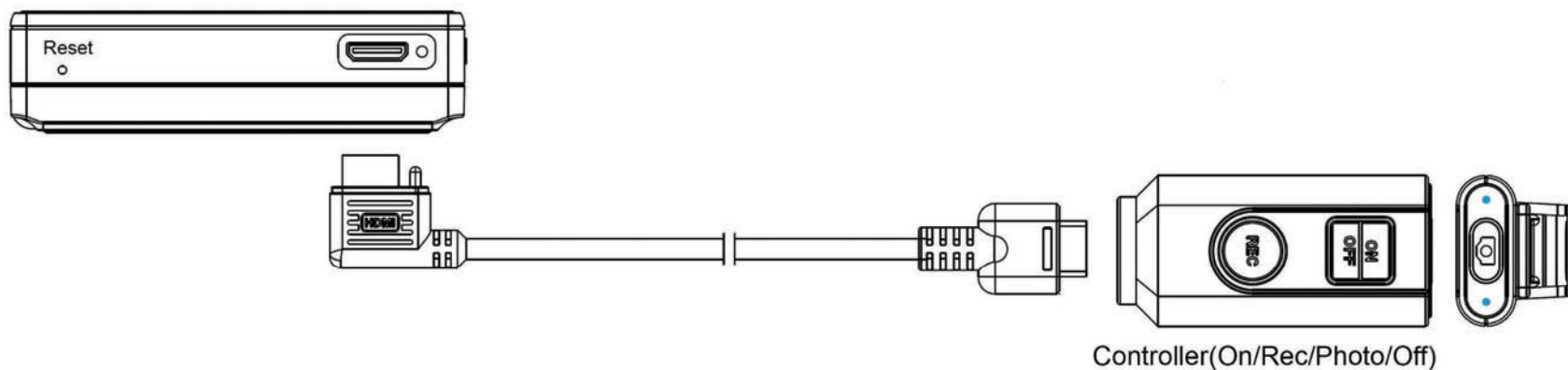
Plug an RCA cable in AV-out to have the image output to the TV.



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

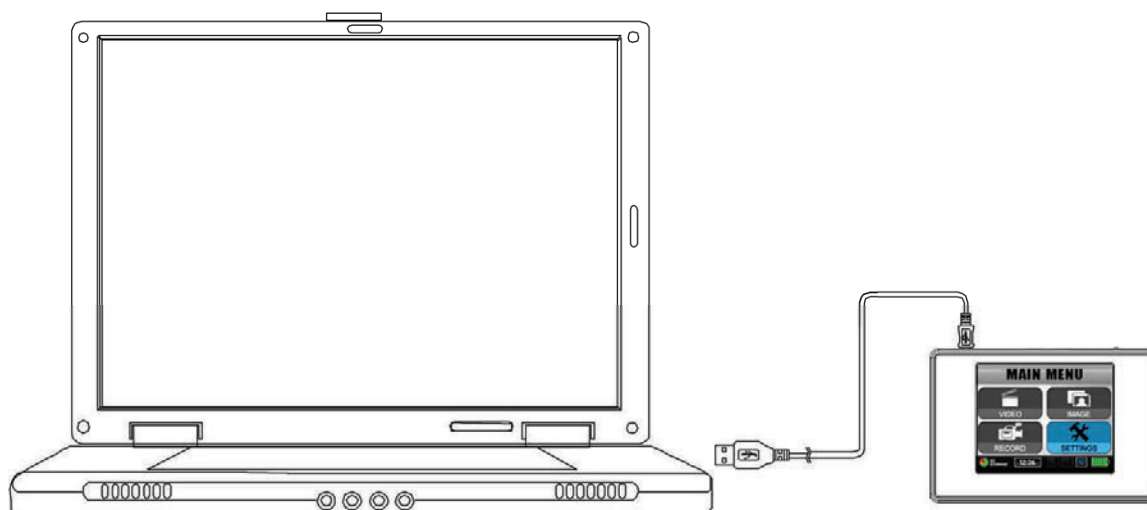
- **Connect to wire controller:**

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



- **Connect to PC:**

1. Connect the two ends of A/B type of USB cable to PV-500 ECO 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.



BATTERY MODE



SUPPLY MODE



Precaution: The LED light will be turned off after finishing charging; to keep long life-span of the battery, the power supply should be

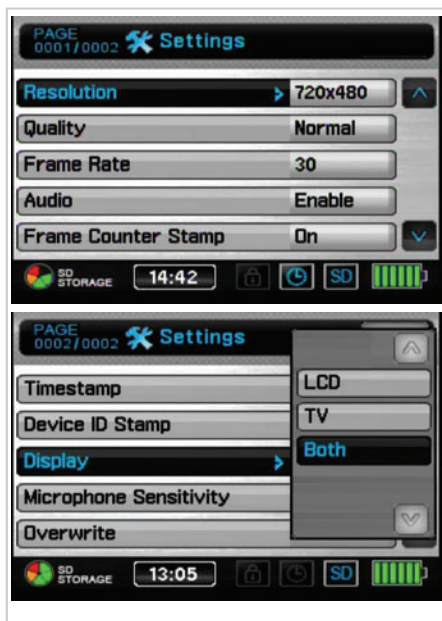
Introduction to all Setting Functions

In the MAIN MENU mode,  press **SETUP** button on the remote controller to enter the **SETTINGS** mode;  Press **ESC** button to escape Setting Mode.



01. Preview >

- Press  on **Preview** to start setting each function as below.
- In sub-menu, Press  /  to enter the last or next item/page; Press  to finish the selection.

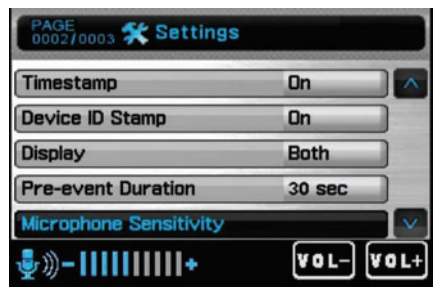


- Resolution (352*288 /640*480/720*576/1024*768/1280*720/1280*960)
- Quality (Good/Normal/Low)
- Frame Rate(1 / 5/ 15 /20/25)
- Audio (Enable/Disable)
- Frame Counter Stamp (On/Off)
- Timestamp (On/Off)
- Device ID Stamp (On/Off)
- Display (LCD/TV/Both)
- Microphone sensitivity
- Over-write

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

02. Pre-event >

Press  on 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 >

Press  on 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 > Setting Date and Time

Press  on **Date and time** to select.

In the sub-menu bar  / , Press  /  to enter the last or next item/page.

Press  to finish the selection.



05. Date/time /format >

Press  on **Date Time Format** to select.



06. Language > Choose the language for Operating interface

Press  on **Language** to select.



07 Pre-set Recording Mode > set up the screen to be automatically returned to which recording mode.



08. Resume to pre-set duration > Setting how long to be resumed to the Pre-Set mode.

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

In Timer recording setting,  Press 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. Indicator > Setting to turn on/off the indicator (LED)



11. Back light out duration > Setting to turn off the backlight during the device is not used.



12. Storage option > PV500ECO device accepts SD card only.

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



14. Storage capacity Icon > show the icon on the device

SD card needs to be inserted to slot then  will be displayed in the left-bottom side of screen. Press  to the last page

15. Format memory > allow to format SD



16. TV-out setting >



17. TV-output adjustment >



18. Display > Output TV Display setting



19. Video playback >



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



21. Image thumbnail > Setting if enable to preview when reading photo files



22. Slide show > setting if enable slideshow



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



24. **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.



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

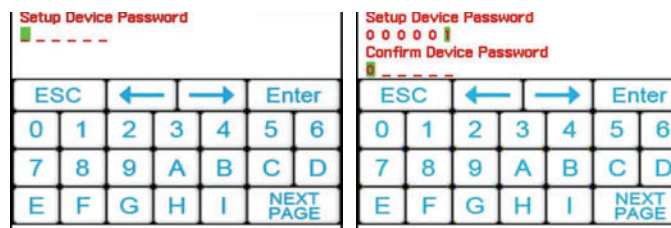


26. Power on password > lock or not to lock when turning on PV-500ECO; if set" On", it requires password to enter main menu of PV-500ECO player.



27. Set power on password >

Press  /  on the remote control to choose your six-character and then confirm these characters once more with pressing,  button to complete the setting.

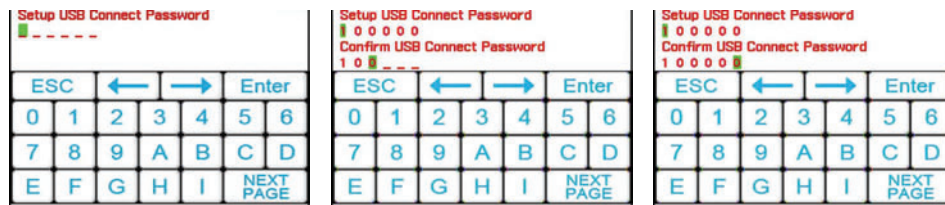


28. USB connect password> setting if locked when reading data through USB



29. Set USB connect password>

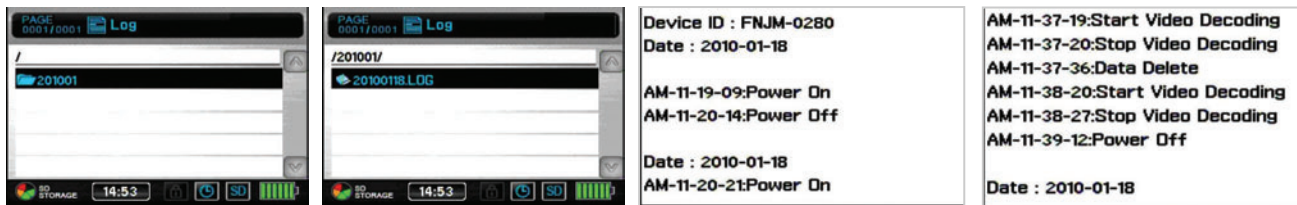
Press  /  on the remote control to choose your six-character and then confirm these characters once more with pressing  **Enter** button to complete the setting.



30. Create log file > choose if you want to save all



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



32. Save all log file >



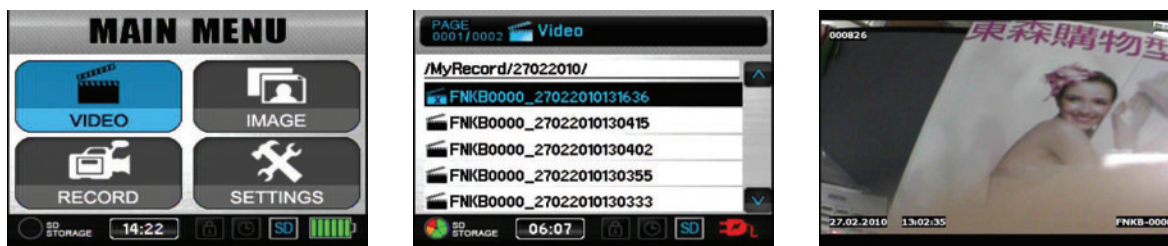
33. Device information > show information about PV-500ECO



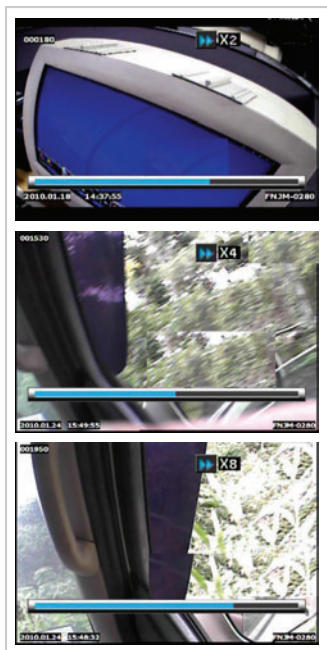
Video Playback

Operations in Main Menu

Press  to VIDEO setting on the Main Menu to open the newest files ; Choose the files to play  the video as below. Then Press ESC  button to enter MyRecord file, Press ESC  button to enter the main menu.



Fast Playback



- **Double Speed Playback:** Press  during normal playback, the video file will be played with a speed two times quicker; press  to pause the video, Press  again to resume the normal playback speed.
- **4 Times Speed Playback:** Press  twice during normal playback, the video file will be played with a speed four times quicker; press  to pause the video, Press  again to resume the normal playback speed.
- **8 times Speed Playback:** Press  three times during normal playback, the video file will be played with a speed eight times quicker; press  to pause the video, Press  again to resume the normal playback speed.



Slow motion function

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



Reverse Playback

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



Pause >

Press  to pause the video, Press  again to resume the normal playback speed.

Stop >

Press **ESC**  button to stop playing and return to File List mode.

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

During Video Playback > Press  pause button, the video will be paused, and the setting items will appear :



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

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



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

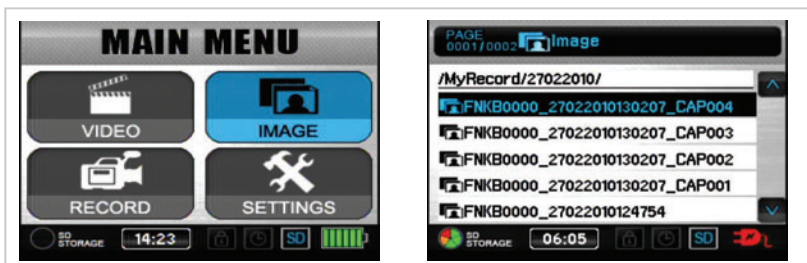
In the upper-file > Press  button, the setting items will appear:



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

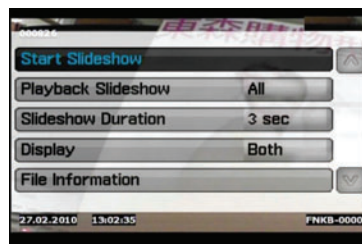
Operations in Main Menu

Press  IMAGE to choose the newest Photo file and then  the photo file to browse; Press  to the upper file folder listed in date; Press  once more to the upper level / MyRecord.



Start slideshow

- In File list Mode or Image Browsing Mode, press SETUP  to show the setting items, select "Start Slideshow" to start the Slide Show; Press  /  to choose SlideShow then press  to start slide show.
- Press  to stop Slide Show and return to the file list.



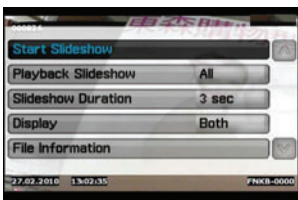
During selecting photo in a image file > Press **SETUP** button , the setting items appear:



- 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



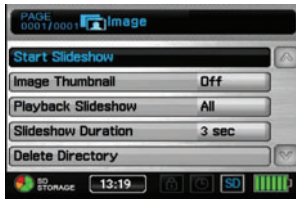
During Photo Browsing: Press **SETUP** button , the setting items appear



- 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 : Press **SETUP** button , 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)



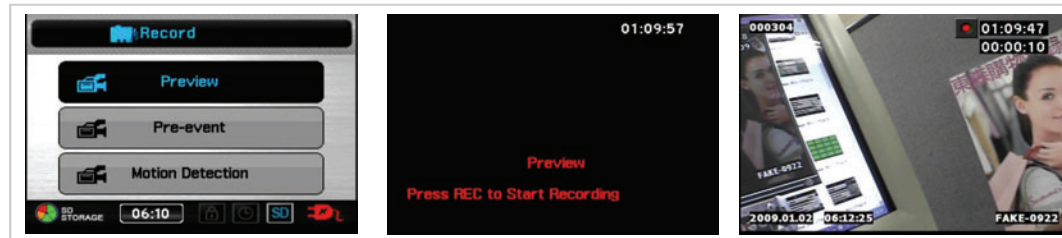
Supported Image File Format

Baseline	
JPG	Lower than 4032 * 4032

- Connect an external Camera
- Select Record function then press  to enter record page

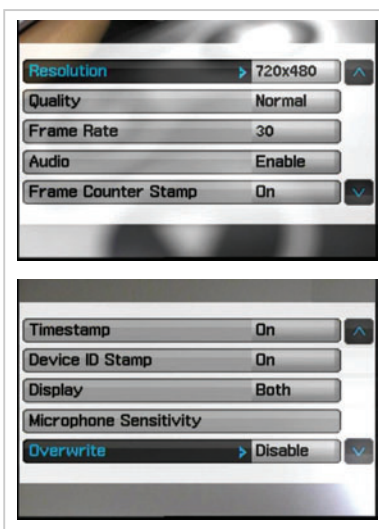


Preview



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.

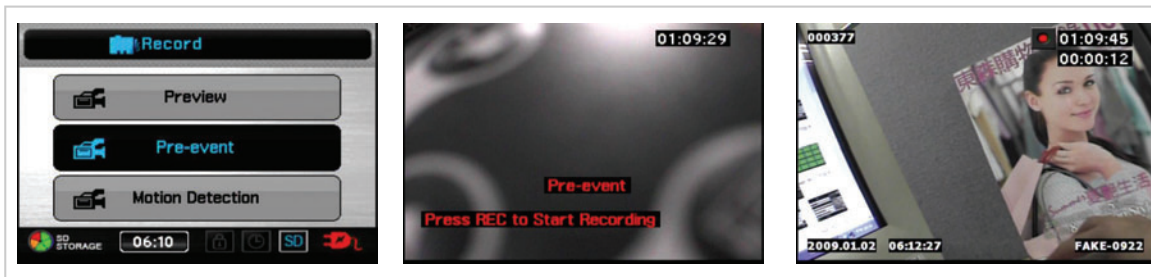


In Preview mode > Press  SETUP, the setting items appear:

- 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

Press REC or the one in  the remote controller to start Recording. Press  STOP to finish recording.



In Preview mode, Press  SETUP, 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)

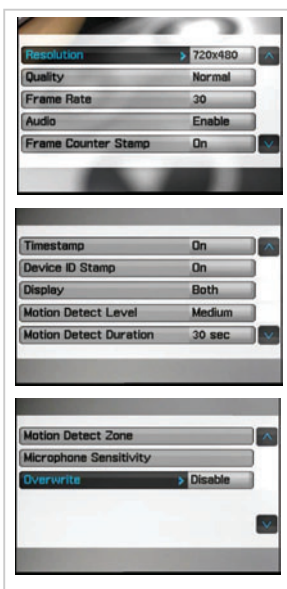
Select Motion Detection and press  to enter.

Press  REC button on the remote controller to start Recording. Press  STOP button to finish recording.

If the recording environment is still, recording will stop, show Detecting...., it will appear in the bottom of screen until the environment detect some motion, the recording will start again, and the same event will be repeated.



In Motion Detect Mode , Press  SETUP button, the setting items



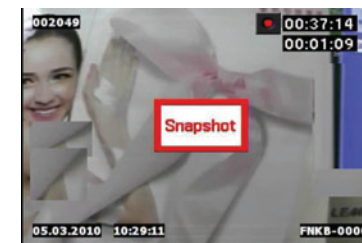
- Resolution (352*288 /640*480/720*56/1024*768/1280*720/1280*960)
- Quality (Good/Normal/ Low)
- Frame Rate (1 / 5/ 15 /20/25)
- Audio (Enable/Disable)
- Frame Counter Stamp (On/Off)
- Timestamp (On/Off)
- Device ID Stamp (ON/Off)
- Display (LCD/TV/BOTH)
- Motion Detect Level (High/Medium/Low)
- Motion 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.

Press  button on Remote Controller for a captured picture. The captured pictures will be saved in the image file.

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

Press  button on the Remote Controller for a snapshot. The snapshot pictures will be saved in the image file.

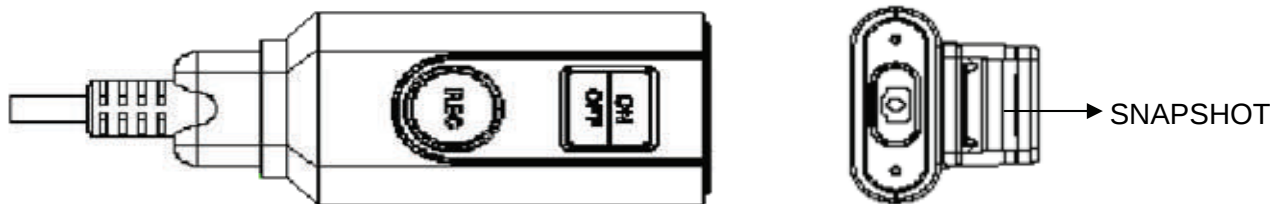


Recording in two-time large >

In recording mode, press  SETUP button, the recording image will enlarge two-time; press  SETUP button to get back the normal size during recording.

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. Press REC button again to stop recording.
Snapshot	Press  button in the top of device to snapshot during recording. Press  button in the top of device during preview mode, capture a picture stored in the image file.



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
MJPEG (AVI)	a-law, u-law		

 **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)

Timer	Time
Display	Resolution 320 x R.G.B x 240 2.36 inch TFT-LCD touch screen with LED backlight NTSC/PAL composite output NTSC/PAL composite output
AV IN/ OUT	AV input/output through two ϕ 3.5mm 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) LED 3 – Video recording (red)
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

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-500ECO; 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.

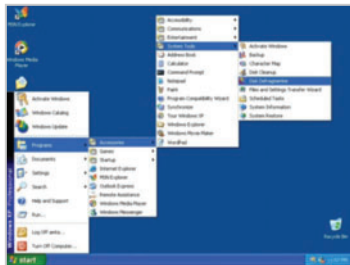
- If you connect the device to a PC through USB, and use the computer to format the storage device, please use FAT32 format.
- Please do not scrub the LCD with hard materials, because the LCD is easy to be damaged. If you want to remove the dust on the LCD screen, please clean the body with a soft dry 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-500ECO and wait for about one hour before use.

Do not store or operate the PV-500ECO under such environment below:

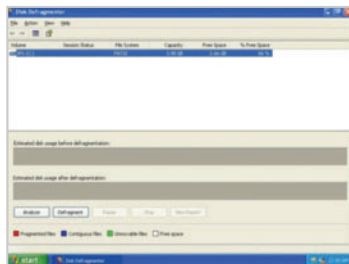
- High humidity.
- Directly exposed to the sunshine or closed location with high temperature as well as the extra-low one.
- Places with heavy vibration or strong magnetic fields, e.g.: close to automobiles, voltage transformers or magnets. not push hard to avoid damaging the card and the device.

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.

