

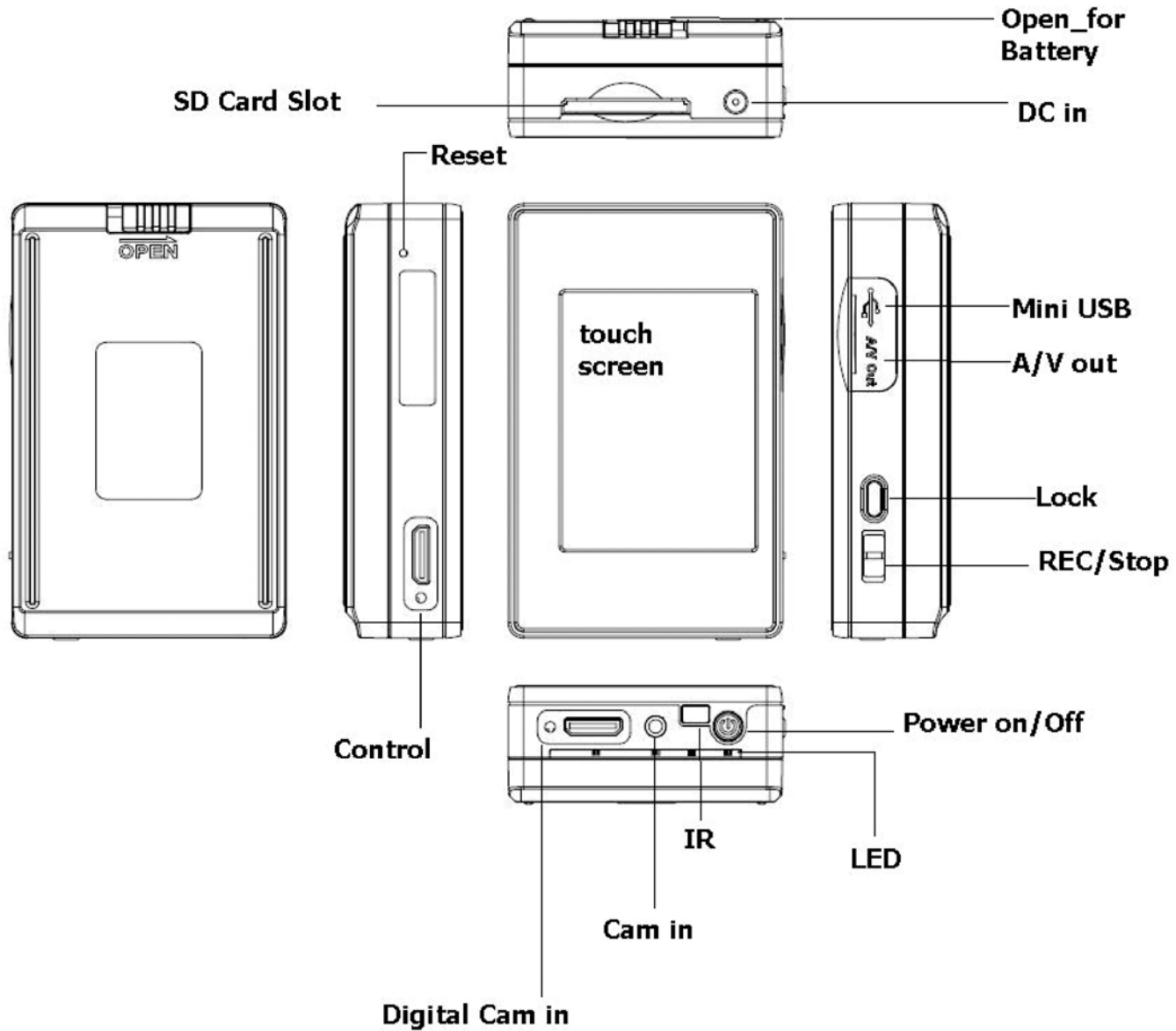
# PV-500 EVO *User's Guide*



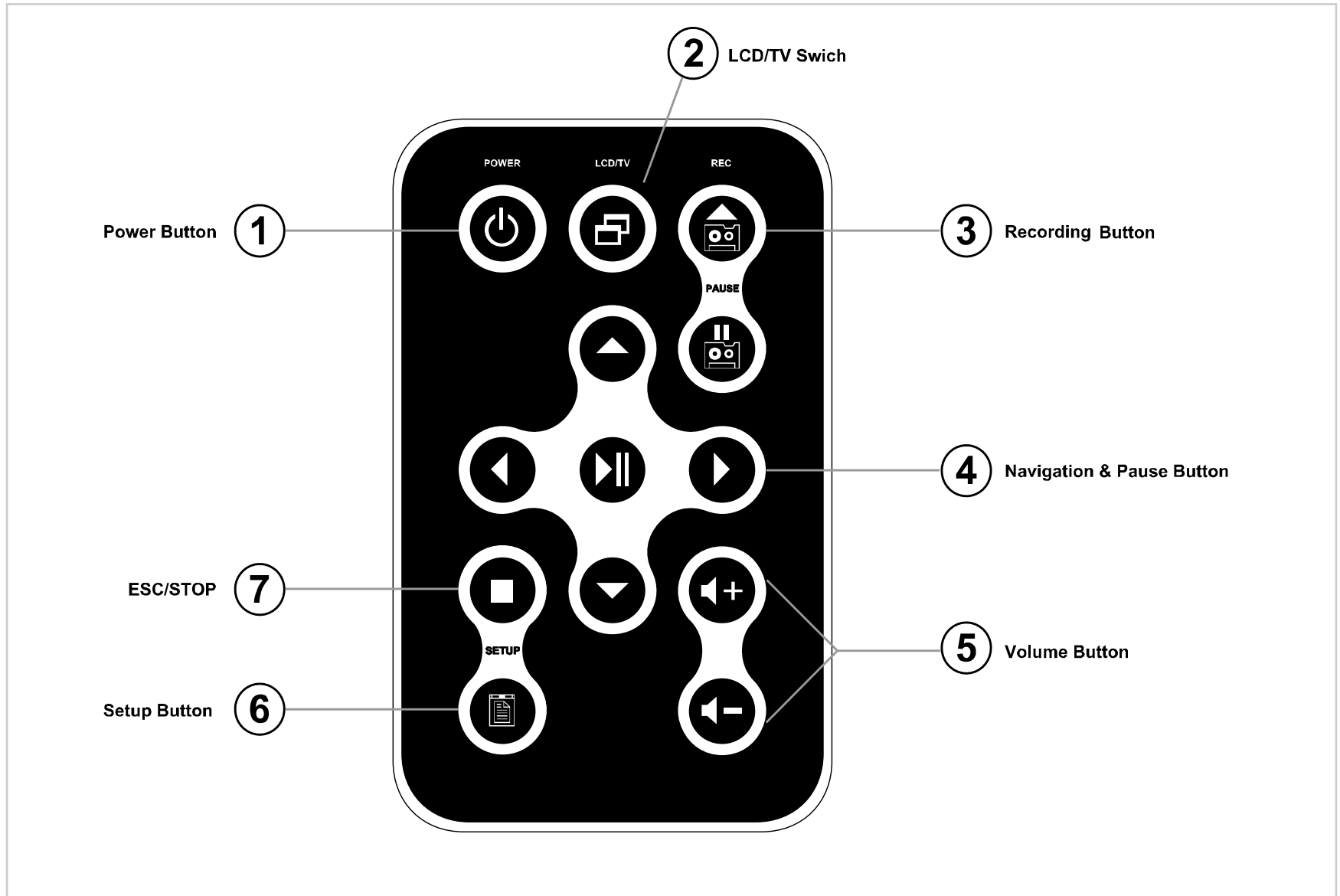
## TABLE OF CONTENT

<b>CHAPTER 01</b>	<b>OVERVIEW</b>	<b>02</b>
<b>02</b>	<b>FUNCTION MODES</b>	<b>05</b>
<b>03</b>	<b>BASIC OPERATION</b>	<b>06</b>
<b>04</b>	<b>INTRODUCTION OF ALL SETTING FUNCTIONS</b>	<b>10</b>
<b>05</b>	<b>VIDEO PLAYBACK</b>	<b>22</b>
<b>06</b>	<b>VIDEO EDITING</b>	<b>25</b>
<b>07</b>	<b>PHOTO BROWSING</b>	<b>26</b>
<b>08</b>	<b>PHOTO EDITING MODE</b>	<b>27</b>
<b>09</b>	<b>SUPPORTED IMAGE FILE FORMAT</b>	<b>29</b>
<b>10</b>	<b>RECORD</b>	<b>30</b>
<b>11</b>	<b>REMOTE CONTROLLER</b>	<b>34</b>
<b>12</b>	<b>SUPPORTED VIDEO FILE FORMAT</b>	<b>35</b>
<b>13</b>	<b>SPECIFICATIONS</b>	<b>36</b>
<b>14</b>	<b>IMPORTANT</b>	<b>37</b>
<b>15</b>	<b>NOTE</b>	<b>40</b>

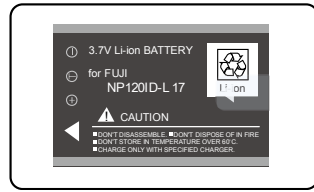
## PV-500EVO Main Device



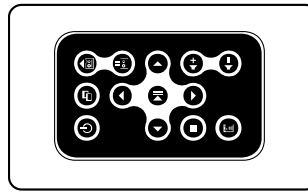
## Remote



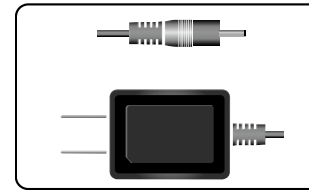
## Accessories



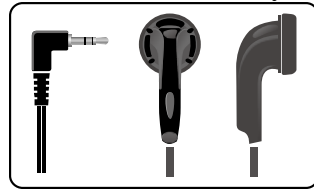
BA-NP120 Battery



PI-PV800 Controller



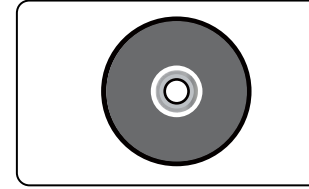
CHG-0520 Charger



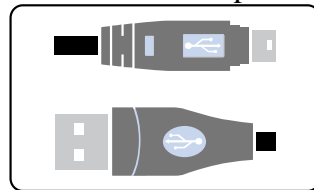
S-ER/PV800 earphone



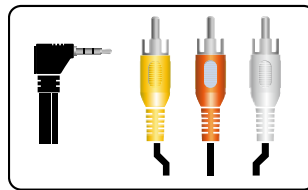
PT-1000 Pouch



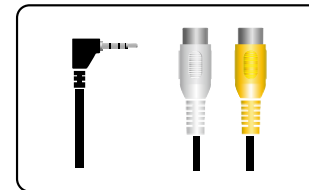
Manual



S-USB/PV-500EVO USB

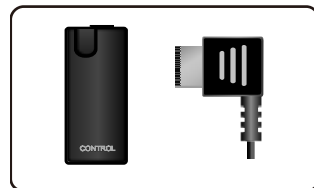


S-1R3R/PV-800 AV Cable



S-PJ2R AV Cable

## Optional



PI-WD10 Controller



PI-VTR10 Controller



PI-WL10 Controller



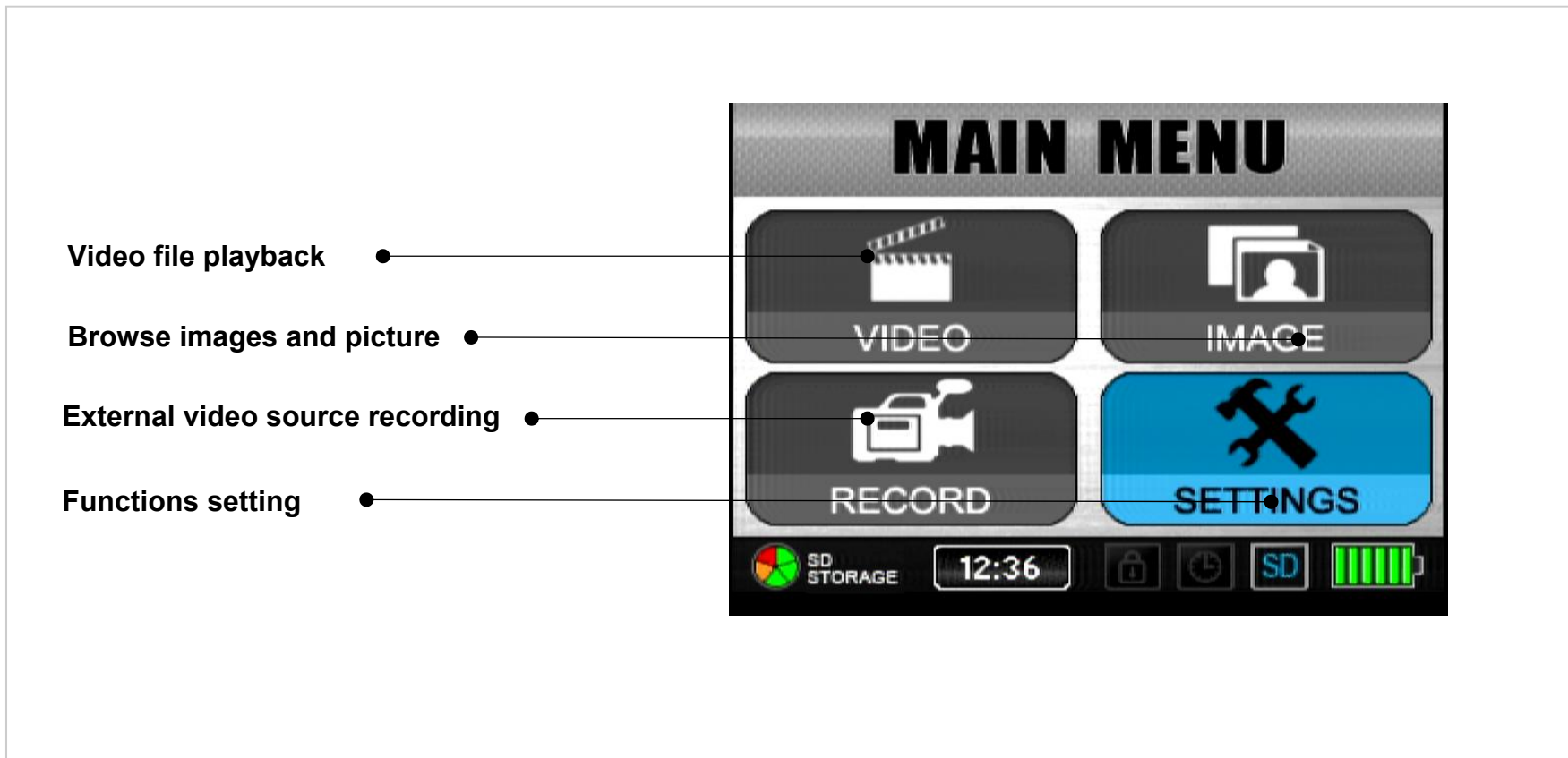
JK-10 Dock



VQ-PV806 Dock



RX-PV800 Dock




## Turn on/ off of PV-500 EVO player

To


Do this

Turn On

Press the Power On/ Off button  about 1 sec. on PV-500EVO, to turn on the power and the greeting screen will appear.



Turn Off



Press the Power On/Off button  about 1sec. button on PV-500EVO or press the Power button on the remote control to turn off PV-500EVO.



## Using the touch screen

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



Tap icon  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  /  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

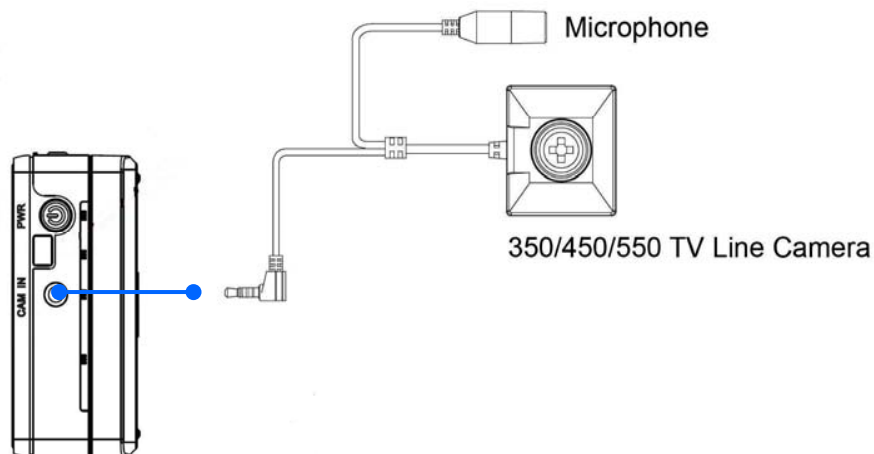
- **Start Recording:** Push the REC button on the PV-500EVO or the  one on the remote controller to start recording.
- **Stop Recording:** Press STOP button or the one  on the remote controller to stop recording, and the screen will return to stand-by mode of Preview to prepare for recording.



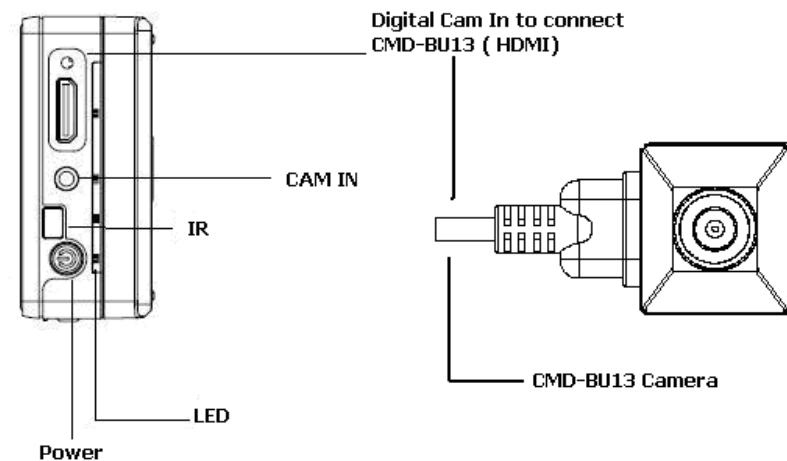
## Link with other equipments

### • External Video Source Recording– Cam in

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



### • External Video Source Recording – Digital Cam in

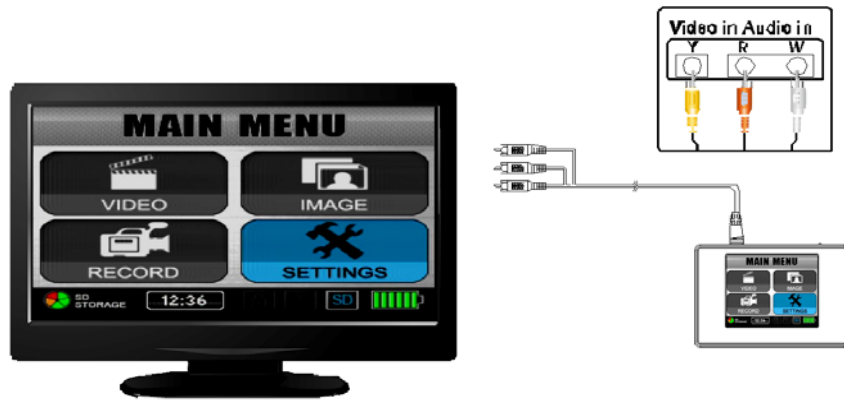




# Basic operation

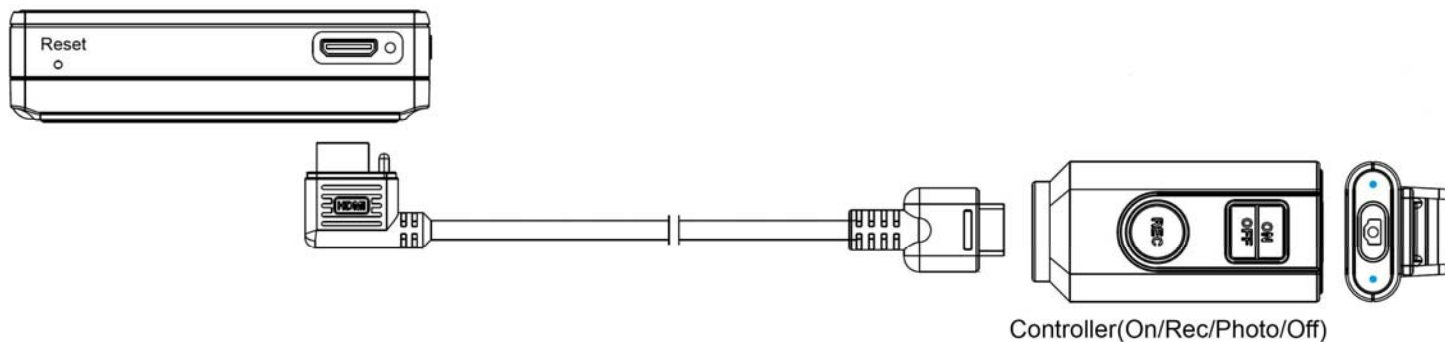
- **Output to TV Screen:**

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



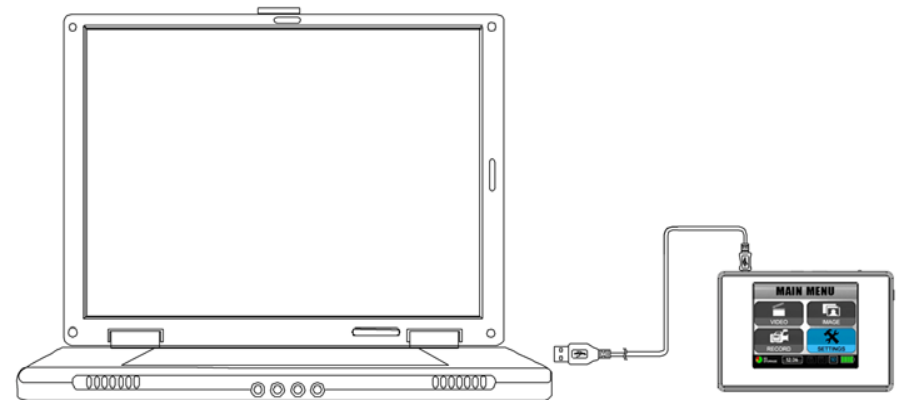
**! Caution:** Check “Setup” Menu, the setting of “Display” must be set from “LCD” into “TV” enable image output.

- **Connect to wire controller:**




- **Connect to PC:**

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



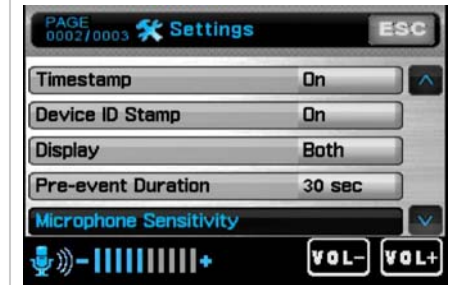
- Resolution (352\*288 /640\*480/720\*576/1024\*768/1280\*720/1280\*960)
- Quality (Good/Normal/Low)
- Frame Rate( 1 / 5/ 15 /20/25)
- Audio (Enable/Disable)
- Frame Counter Stamp (On/Off)
- Timestamp (On/Off)
- Device ID Stamp (On/Off)
- Display (LCD/TV/Both)
- Microphone sensitivity
- Over-write

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

# Introduction to all Setting Functions

## 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.



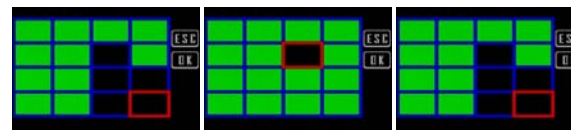
- Resolution (352\*288 /640\*480/720\*576/1024\*768/1280\*720/1280\*960)
- Quality (Good/Normal/Low)
- Frame Rate ( 1 / 5/ 15 /20/25)
- Audio (Enable/ Unable)
- Frame Counter Stamp (On/Off)
- Timestamp (On/Off)
- Device ID Stamp (ON/Off)
- Display (LCD/TV/BOTH)
- Pre-Record Time (30 sec , 15 sec)
- Microphone 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 Pre-set 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. Indicator > Setting to turn off the indicator.



## 11. Vibration > Setting to turn on /off Vibration during turn on/off device or recording.



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



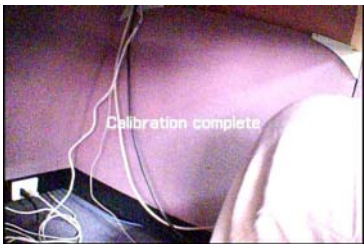
**13. Digital Cam Low Lux** > Setting if force to recording with 30fps.



**14. Digital Cam NTSC/PAL** >



**15. Digital Cam Calibration** >






16. **Storage option** > PV500 device accepts SD card only.



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



18. **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.
- Tap **ESC** to the last page.



19. **Format memory** > allow to format SD



## 20. TV-out setting >



## 21. TV-output adjustment >



22. **Display** > Output TV Display setting.

## 23. Video playback >



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



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

26. **Continuous Shot No.** >



27. **Start slideshow** > setting if enable slideshow



28. **Slideshow duration** > setting the section time during slideshow playing



- 29. 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.



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

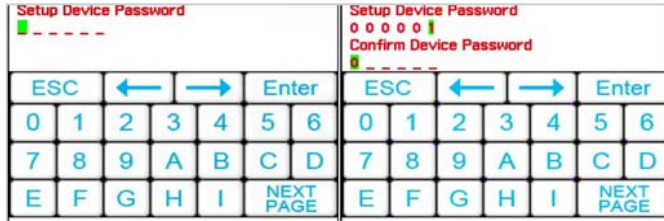


- 31. Power on password** > lock or not to lock when turning on PV-500EVO; if set” On”, it requires password to enter main menu of PV-500EVO player.



## 32. Set power on password >

Tap your chosen 6 characters and then confirm these characters once more, after setting Tap **Enter** to complete the setting.

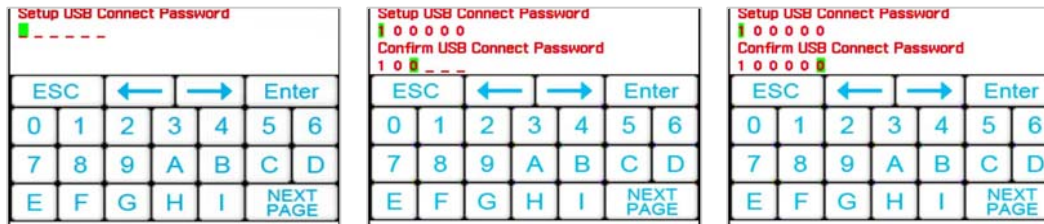


## 33. USB connect password> setting if locked when reading data through USB



## 34. 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.



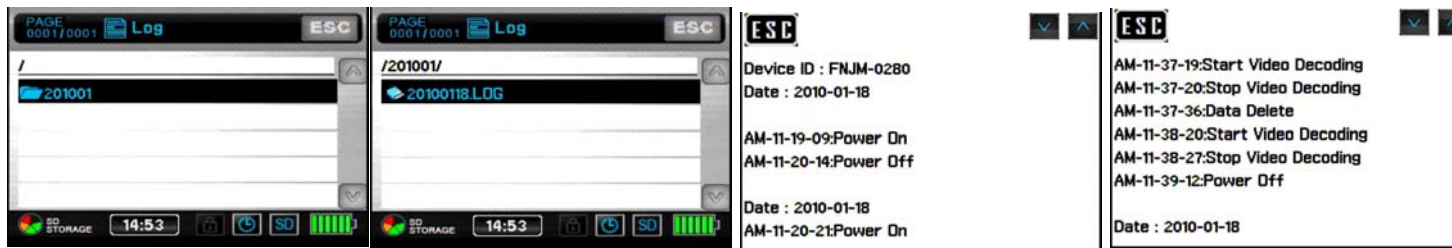
## 35. Touch Panel Calibration > to calibrate touch panel by point the cross until "Success" appeared on the panel.



## 36. Create log file > setting for creating logs or not



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



## 38. Save all log file > Tape it to save all logs

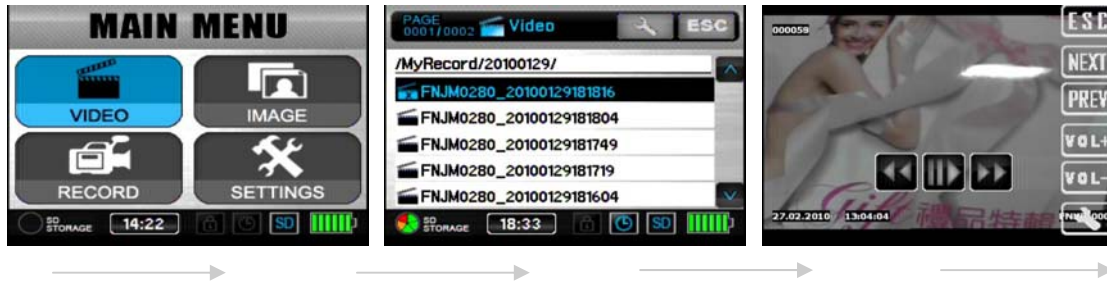


## 39. Device information > show information about PV-500EVO



## 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









## 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.









## 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  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.

**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 :

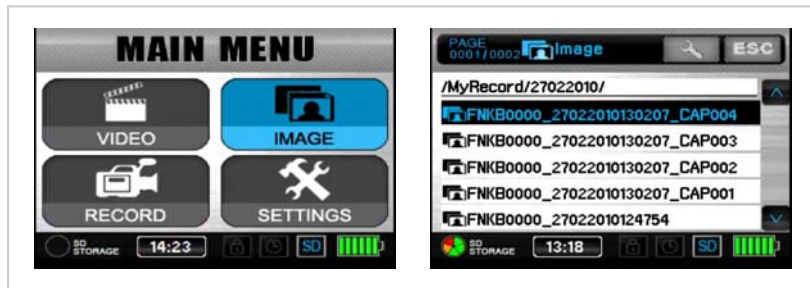


- Video Playback (All/Single/No)
- Video Thumbnail (on/off)
- Delete Directory




# 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

	<b>Baseline</b>
<b>JPG</b>	Lower than 4032 * 4032

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

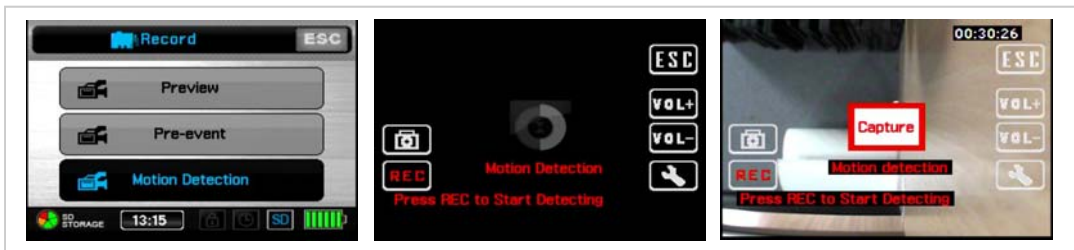
 **Notice:** Under this Pre-Event mode, the video image will be automatically recorded to Video file without pressing REC button.



## Motion Detect (Press REC to start recording)

Select **Motion Detect** and press **|▶** to enter **Motion Detect** mode.

Tap **REC** 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.


## Operating Remote Controller

To	Do this
Power Off	Press <b>Off</b> button to power off the device.
Power On	Press <b>On</b> 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
MJPEG ( AVI)		a-law, u-law	

 **Notice:** ● :can be played in PV-500EVO.

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)

<b>Timer</b>	Time
<b>Display</b>	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
<b>AV IN/ OUT</b>	AV input/output through two $\phi$ 3.5mm jack
<b>CCD in / DC5V Out</b>	CCD input /DC 5V output through 2.5mm jack
<b>LED indication Light</b>	LED 1 – charging (red) LED 2 – Power (green) LED 3 – Video recording (red)
<b>Storage Device</b>	SD card ( support SDHC)
<b>Computer connection</b>	USB 2.0 mini connector
<b>Power System</b>	Rechargeable/ exchangeable Lithium Ion Battery 3.7v 2200mAh Power supply 100-240 V, 50 ~ 60 Hz
<b>Dimension/ Weight</b>	80 * 21 * 51mm/ 120g (battery included)
<b>System Requirements</b>	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-500EVO; 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.

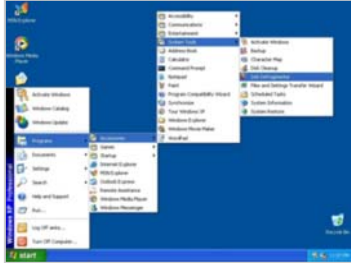
- If you connect the device to a PC through USB, and use the computer to format the storage device, please use FAT32 format.
- Please do not scrub the LCD with hard materials, because the LCD is easy to be damaged. If you want to remove the dust on the LCD screen, please clean the body with a soft dry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

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

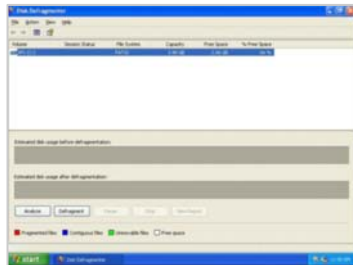
- High humidity.
- Directly exposed to the sunshine or closed location with high temperature as well as the extra-low one.
- Places with heavy vibration or strong magnetic fields, e.g.: close to automobiles, voltage transformers or magnets. not push hard to avoid damaging the card and the device.

## Fragment

- **Step 01:** Please link the PV-500EVO 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-500EVO 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.

