

Operation Manual

(SPY DVR)

Hardware Orientation

I. DVR

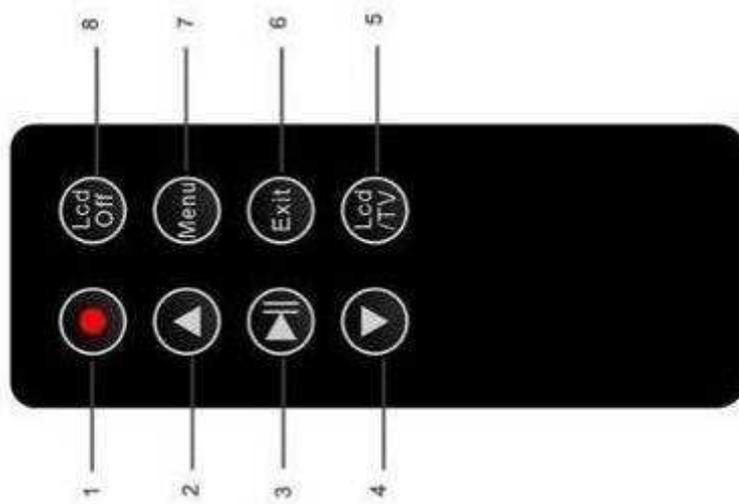


- | | | |
|----------------------------|------------------|-------------------------|
| 1. Power On/Off | 2. Charge Led | 3. Internal Microphone |
| 4. AV Input & DC Out jack | 5. Low Power LED | 6. Record / Stop Button |
| 7. Power On/Record LED | 8. DC5V In Jack | 9. USB Port |
| 10. AV Out & Alarm In Jack | 11. Reset Button | 12. Lock Switch |
| 13. Internal Speaker | 14. SD Socket | 15. IR Sensor |
| 16. Down Button | 17. Up Button | 18. Enter Button |

19. Esc Button(OSD OFF)

20. Menu Button

II. Remote Control



1. Record/Stop button

2. Up Button

3. Enter Button;

4. Down Button

5. LCD/TV Switch Button

6. Exit Button(OSD OFF);

7. Menu Button

8. LCD Off Button;

III. Accessories



Battery



AV Cable



Control



Leather



AC Adapter



Wired Control Button



USB Cable



Manual

Setting Record Modes

There are three work model for record : showed as the following Figure

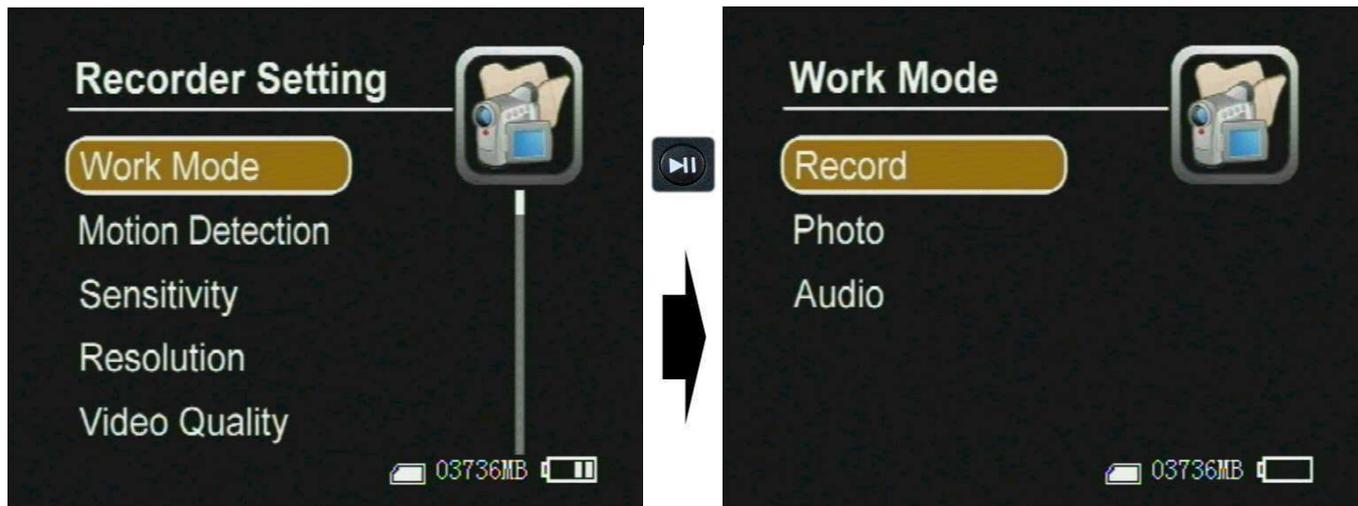


Figure 0

- **Record** ----- for video and audio record, the record data will be saved in AVI files under the “Record Files” folder; the prompt icon will appear on the top left corner of the screen.
- **Photo** --- for still picture capture ,the photos will be saved in JPG files under the “Photo Files”, and the prompt icon will appear on the to left corner of the screen.
- **Audio** ----for only audio record, the record data will be saved in WAV files under “”Audio Files” and the prompt icon will appear on the top left corner of the screen;

Basic Operation

I . How to turn on / off the DVR:

- Turn on /off the DVR by the **Power On/Off**  switch.

Push **Power On/Off**  to “On/Off” side until the RED power led light to turn the DVR on , then the start up picture will appear on the screen; when the DVR is power on, push the **Power On/Off** switch  to “On” side until the shut down picture appear on the monitor to turn the DVR off,

PS: if the video signal and SD card are unavailable the DVR will alarm by vibration and the red letters on screen until they all are ready;



Start up

Figure 1



Shut down

Figure 2

- One button for all task by the Alarm In Cable 

Press the red button to the DVR will power on to record, if the you want to stop the recording , please press the button the release the switch , the DVR will save all files and power down;

Ps: 1.. the Alarm In Cable Button  is inserted into the AV Out& Alarm In Jack  ;

- You can turn off the DVR on your schedule as the setting automatic shutdown time, as shown in the following figure ;

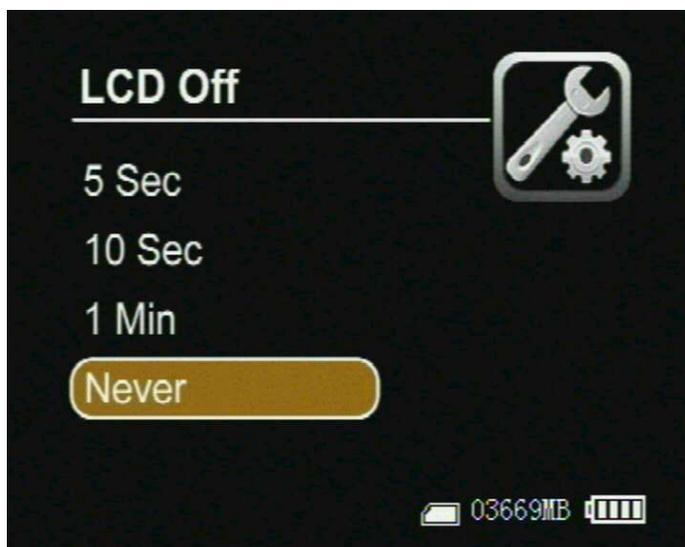


Figure3

PS: Camera Manager Interface orientation as the following: (as shown in Figure 4)

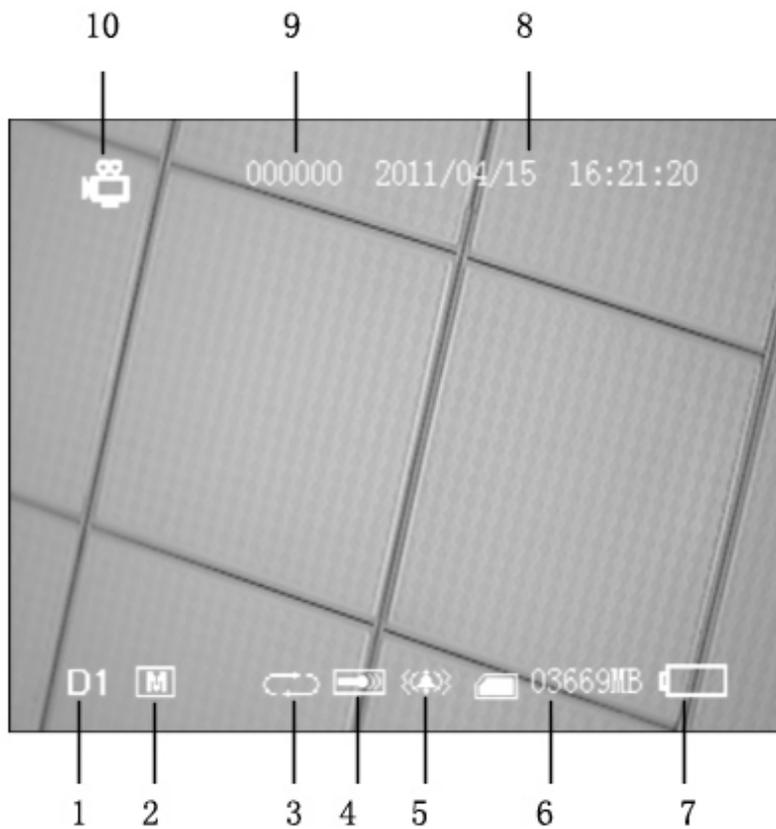


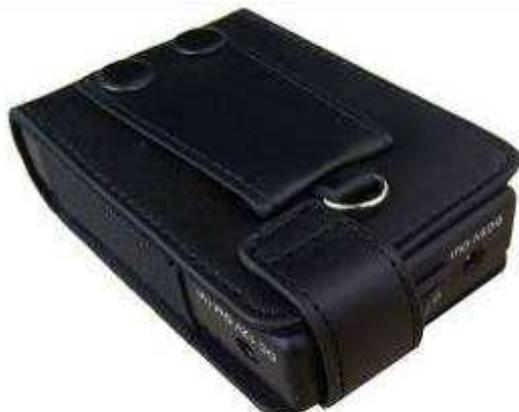
Figure 4

- | | | |
|----------------------|---------------------------|---------------------|
| 1. Image Size; | 2. video Resoluton ; | 3.Overwrite On/Off; |
| 4.In/Out Microphone; | 5. Vibration On; | 6. SD card info..; |
| 7.Battery Capacity; | 8. Date and Time Stamped; | 9.User ID; |
| 10. Work Mode; | | |

II. How to start a recording

1. Preparing for your recording task:

- Select a correct record mode for your task by setting work mode;
- Please charge the internal mobile battery over 3 hours before you begin recording ; we advise that you equip the UPS Battery Bank (7200mAH) to the DVR for your long time record task(over 10 hours); as shown in the underside figure ;



Mobile Battery

- The special external camera from our DVR kits can be connected to the DVR directly via the AV-In port without additional power cord, the DVR can output DC5V @ 400mA for a external DC5V CCD or CMOS camera by the AV-In cable;

- Prepare a high speed SD card to save your record data.;

Figure 6

Figure 7

- A video image and OSD will appear on the screen of the display device, you can select a TV or LCD as the display device by pressing the LCD/TV Switch Button  on Wireless Remote Controller , press the button  to switch the display as the following: LCD--> TV PAL-->TV NTSC→LCD,

2. How to capture the video and audio:

- **After power on**,Push the Record / Stop switch  to “Rec” side to start a recording, the red power led lamp and the red dot icon on the left up corner of screen will flash at once per second until the switch be push to “Stop” side to stop recording; the continued recording time will be shown on the right up corner, as shown in recording figure.
- If the switch is set on “Rec” side **before power on**, when power on,the DVR will record directly if the SD card is available

- **One button for your recording task.:**  ,Press down the red button to turn on the DVR to recording, and release the button to stop recording , then the DVR will power off after saving record date automatically , (PS: the Alarm In Cable is plugged into the AV Out



Recording Figure

Figure 5

- Motion detect recording, the DVR will be triggered to record when only the video image is changed in the motion detect red area covered by the red block, as how in Figure13,14.

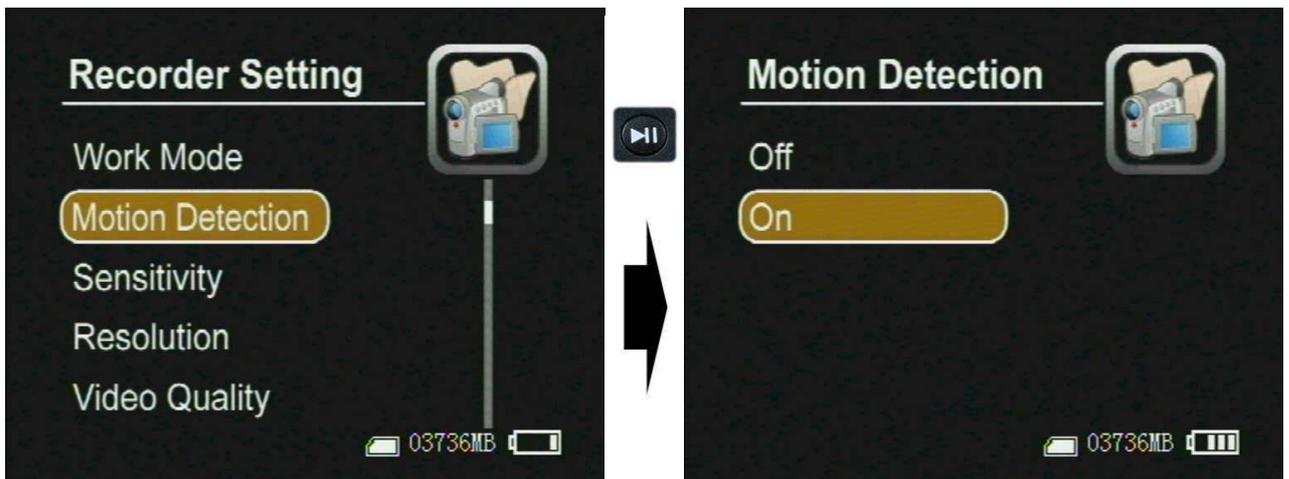


Figure6

When the motion detect function is on, you can select the motion sensitivity (showed as the following figure)

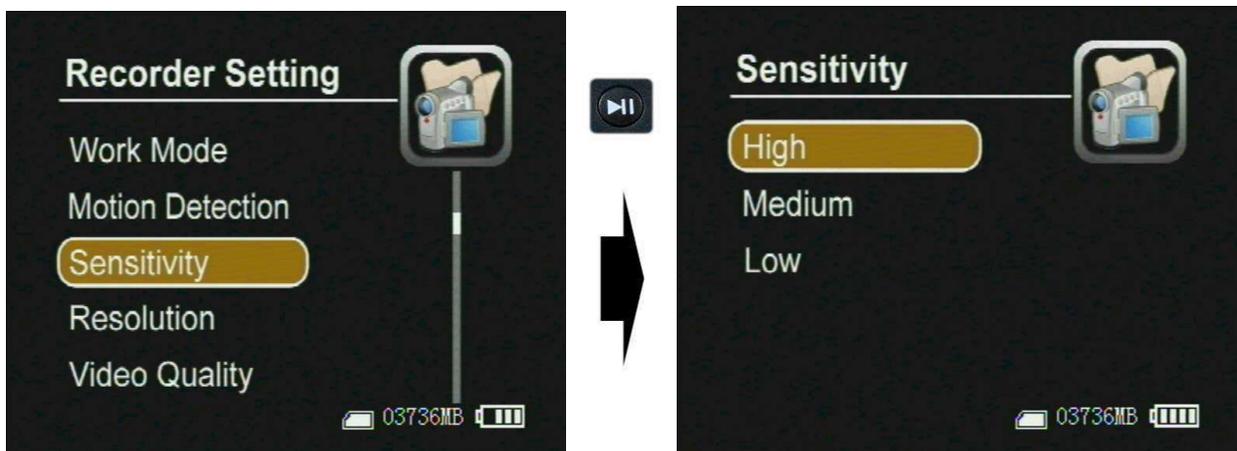


Figure 7

How to change user ID:found a TXT file with ID(max six letter),file name is" PSDVR001.TXT ",copy it into SD card, plug the SD card into The device, power on again, the ID will be changed automatically.

IV. Managing and play back your evidence files

On the Camera Manager screen, press the Menu Button , select Event Playback option, , the evidence files are sorted in related folders. Select one files then pressed the end key to playback the files, as shown in the following figure



Figure8

● **Playing back record files:**

Play back the video files: Press the select button  on the Video Player item option to play back the video files; the prompt information will appear on the screen such as: time, sound volume, etc. as shown in following figure, meanwhile, you can press the up or down key to adjust the audio value once by once, you can also select the speed of playback by holding the key up or down key is pressed over 3seconds,

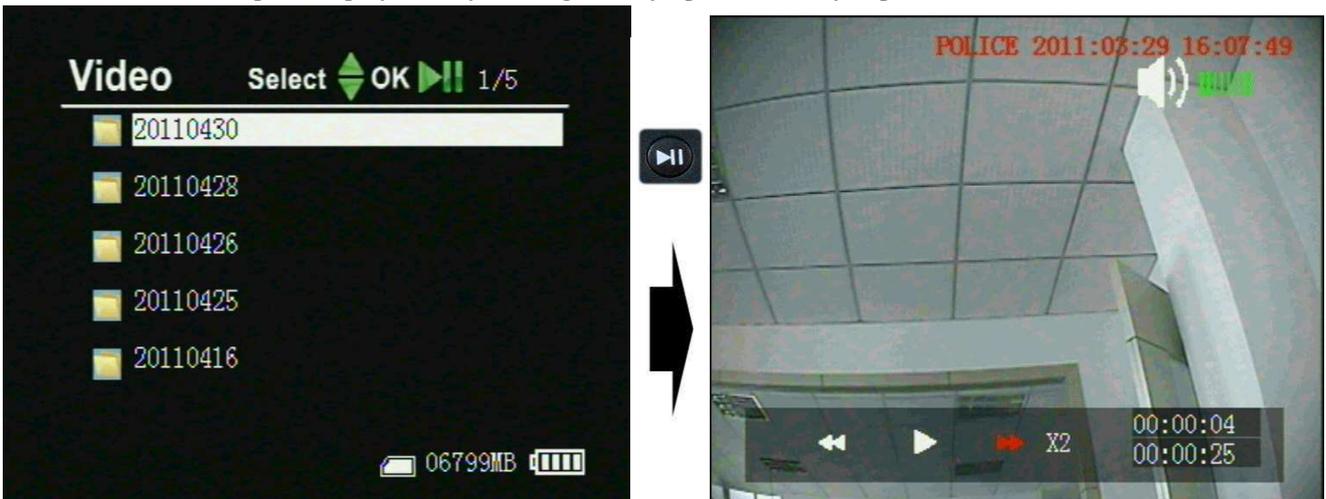


Figure9

Browse still photos: Press the select button  on the image Viewer item to browse the still photos, press the up or down key   to view last or next picture;



Figure10

Play back the audio files: Press the select button  on the Voice Player item to play back the audio files;



Figure11

● **Managing recorded files:**

Move the cursor onto the Files Brower, then press Select Button  to select the storage media, (the “usb” is a attached USB storage media, such as hard driver or U-disk, the “sd ” is SD card, as shown in Figure 22), then the folders and files will appear the screen, as shown in Figure 23; the recorded files will be listed by the order of record time, as shown in Figure 23, move the cursor to select a file, when press the Menu Button , the file manager menu will popup on the screen, as shown in Figure 25, you can play back, copy, paste, delete the file, or view it's attribute etc.

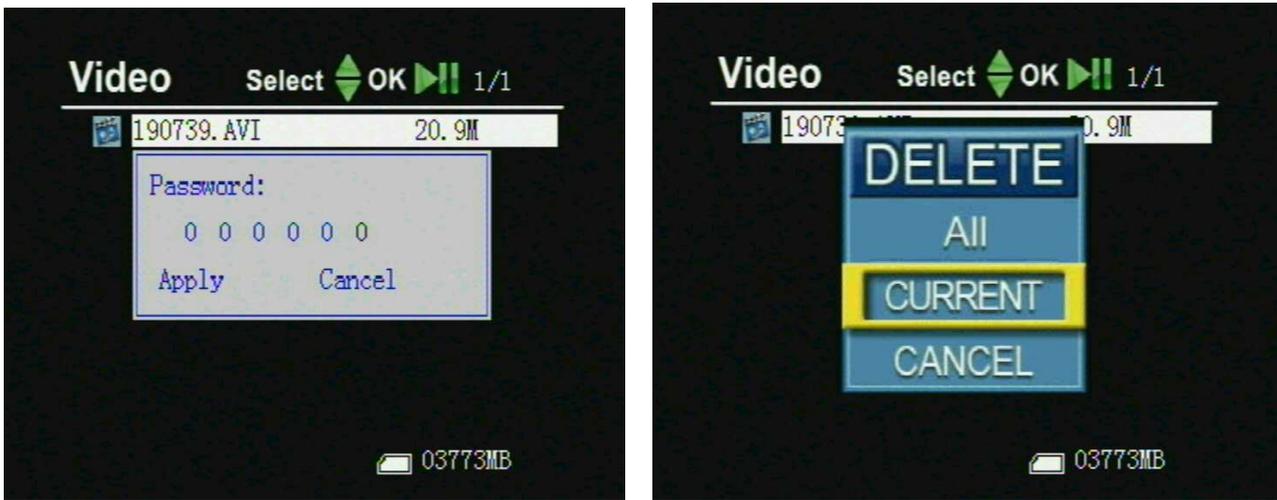


Figure 12

(PS: Default Password is "000000",so you can push directly "Enter" first time)

- **Menu Introduce**

press the menu button , on the popup menu "Recorder Sditting", "System Setting", "Event Playback"; as shown in the figure 26;

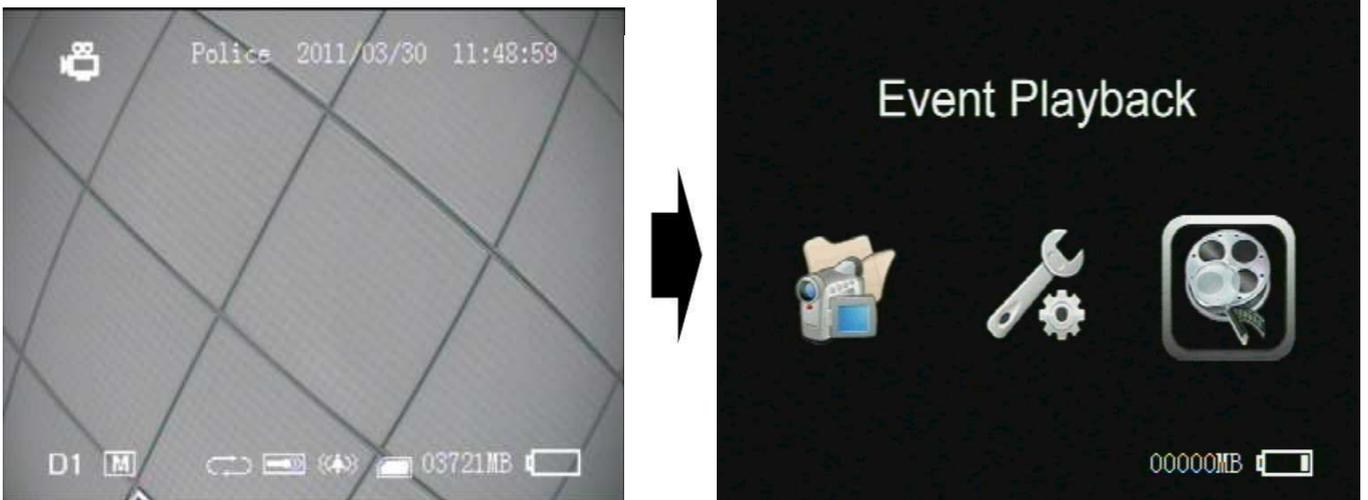


Figure13

Recorder Setting

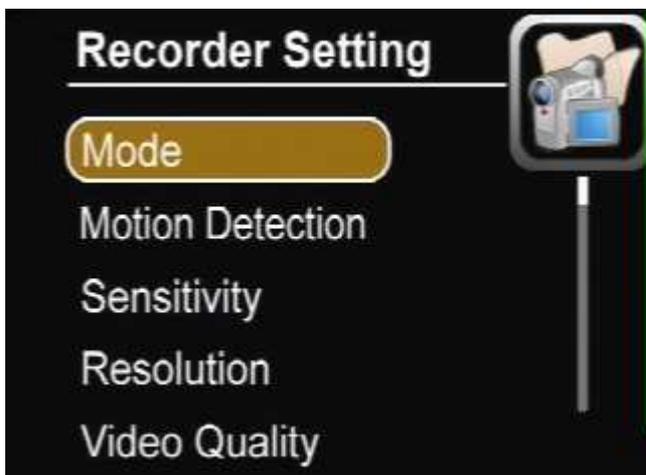


Figure 14

- 1.Mode:you can three working mode:
 - Video---Video & Audio recording
 - Photo---take photo
 - Audio---audio recording
- 2.Motion Detection: you can choose “Off” or “On”
- 3.Sensitivity:you can choose”High” or “Medium” or “Low” three grade for motion detection recording
- 4.Resolution:you can choose three video resolution
 - D1:720x576(25FPS) or D1:720x480(30FPS) or VGA:640x480(30FPS)
- 5.Video Quality:three video quality
 - High:About 8Mbps
 - Medium:3.5Mbps
 - Low:2.5Mbps
- 6.Time Stamp: Time and Date will marked on your recording file or not
- 7.File Length: Setting the video and audio files’ time length for package in saving , you can save your video and audio data in many different size files segments such as 5 minute, 10 minutes, 15 minutes, 30 minutes, 60mintinious, in order to avoid losing all record data unexpectedly;
- 8.FPS set:Set Frame photo per second by 15 FPS or 30 FPS
- 9.Audio Record Volume: Adjust volume for internal Microphone or external Microphone
- 10.Microphone Select:you can choose Internal microphone or external microphone for audio recording
- 11.Overwrite:Off---stop recording when memory card is full; On---Automatically overwrite older date when memory is full and don’t stop recording

System Setting



Figure15

- 1.Language:you can choose three Language English, Simple Chinese, Traditional Chinese
- 2.Date Time:set yourself Time and Date
- 3.Password Protection:set yourself Password by  and 
- 4.Video Output:Display by LCD or TV out(Pal) or TV out(NTSC)
- 5.Power Save:set Power off and Lcd off
- 6.Vibe Alert:If you choose “On”, When one of following conditions, the device will shake
 - 1).have no video signal
 - 2).have no SD card
 - 3).start recording

- 4).stop recording
- 5).low battery power
- 7.Beep:Off or On beep of press
- 8.Format:format your SD card(default pw is “000000”)
- 9.Firmware Update:
- 10.SD card info:
- 11.Default Setup
- 12.Version information

Event Playback



Figure16

- 1.Video Files: video files Playback
- 2.Photo Files: Photo files Playback
- 3.Audio Files: Audio files Playback
- 4.All files: browse all files on SD card

How to Connect External Devices

- **Connect with the external camera:**



Figure 17



You can connect the special cameras to the DVR by the AV-In port  directly, or you can input a video and audio source by the AV-In & DC Out cable, on the same time the DVR can output DC5V voltage (max 400mA) to power the external CCD or CMOS camera by the AV-In & DC Out cable, The yellow RCA connector is for video, the white and the red RCA connector are for audio;

- **Connecting with the UPS Battery Bank**



Figure18

The UPS Battery Bank (7200mAH) can output DC 5V and DC12V voltage at the same time to power the DVR and a 12V Cameras for over 10 hours recording time, as shown in Figure 40 and Figure 41;

- **Connecting with TV;**



Figure19

Please set the correct TV out format for your TV set, as shown in Figure 42, 43; on the other hand you can

switch the selection in PAL ,NTSC and LCD by pressing the button  on the remote controller; The AV Out Cable's yellow RCA connector is for video, the white and the red RCA connector is for audio; now you can turn up the volume of the TV out by pressing the down button , or turn low the volume of the TV out by pressing the up button 

- **Connecting with computer**



Figure20

When you set the USB Mode into Device, shown as in Figure 44, you can connect the DVR with your computer by the USB Port directly to transmit the files, as shown in Figure 45;

- **Connecting with wireless video and audio receiver**

You can connect the DVR with the wireless video and audio receiver for your remote recording, as shown in Figure 46.



Figure 21

Type Usage



Figure 22

DVR Specifications

- **Video compressed format:** MPEG4 , files format: AVI
- **Photo format:** JPGE
- **High Resolution LCD:** 2.5", TFT true color LCD;
- **Audio and video output:** RCA 3-in-1 AV output;
- **Storage type:** hard disk and SD card(FAT 32 ,support over 32G);
- **Video size and speed:** PAL: 720x576(D1)/25FPS, NTS: 720x480(D1)/30FPS
- **Power supply for external camera is available:** Voltage: 5V max. current: 400 mA;
- **Video format:** NTSC/PAL;
- **Multi record mode:** Manual/Auto/Motion detection
- **Real-time recordings are marked in File;**
- **Compute transfer screen:** USB2.0;
- **Recording time:** 1minute~2.5 hours /1G ;;
- **Power consumption:** 200mA , 3.7V 1000 mAH chargeable Li-ion battery, 5.0V 2A AC Adapter;
- **Size:** 79 mm x 51 mm x22 mm;
- **Weight:**85g (including battery);