



## **WARNING**

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

### **Attention**

The electromagnetic fields at the specific frequencies may influence the picture of the recorder.

**Be sure to read the following before using the recorder and the mini Camera.**

### **Trial recording**

Before you record one-time events, you may want to make a trial recording to make sure that the recorder and the camera are working correctly.

### **Notes on image data compatibility**

Playback of moving images recorded with your recorder on other equipment

and playback of moving images recorded or edited with other equipment on your recorder are not guaranteed.

Do not shake or strike the recorder

In addition to malfunctions and inability to record moving images, this may render the SD card unusable of image data breakdown, damage or loss may occur.

### **LCD screen and mini camera**

Be careful when placing the camera near a window or outdoors. Exposing the LCD screen or the lens of camera to direct sunlight for long period may cause malfunctions.

### **Back up recommendation**

To avoid the potential risk of data loss always copy data to a disk.



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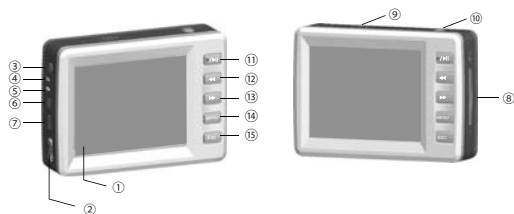
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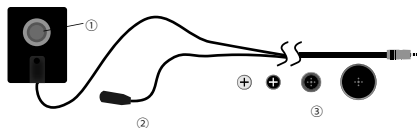
## Getting Started

### Identifying the parts of the mini DVR



- |   |                       |
|---|-----------------------|
| ① 2.5" TFT LCD Screen                           | ⑥ SD Card Slot        |
| ② [RECORD] REC/OFF switch button                | ⑨ Microphone          |
| ③ AV In jack to connect with the Mini camera/TV | ⑩ [POWER] Power       |
| ④ LED Indicators (red)                          | ⑪ [PLAY/OK] Play / OK |
| ⑤ LED Indicators (blue)                         | ⑫ [REV] REV / Vol +   |
| ⑥ AV out jack to connect with TV                | ⑬ [FWD] FWD / Vol -   |
| ⑦ USB jack to connect with PC                   | ⑭ [Menu] Menu key     |
|   | ⑮ [ESC] Return key    |

### Identifying the parts of the mini camera



- ① Lens
- ② Microphone
- ③ Interchangeable buttons and screws

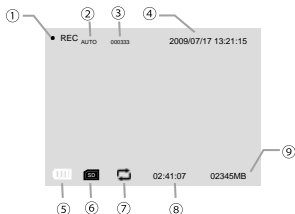
## LCD screen indicators

### Playback Mode



10

### Recording Mode



### Playback Mode



11

### Playback Mode



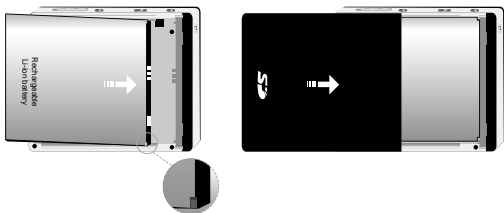
12

- ① Recording symbol
- ② Motion Activated symbol
- ③ No. of Frames indicator
- ④ Date/Time indicator
- ⑤ Battery indicator
- ⑥ SD card symbol
- ⑦ Cyclic Recording symbol

- ⑧ Remaining Time of Memory
- ⑨ Remaining Memory
- ⑩ Recorded Files(video)
- ⑪ Recorded Files(audio)
- ⑫ Recorded Files(photo)


## Preparing the power supply

Your DVR can operate with mobile phone battery pack (KB-02 series)



### Installing the battery pack

Open the cover by slightly pushing and pull it back.

Insert the battery pack with the corner of "  " facing toward the battery compartment as illustrated.

Close the battery cover.

### Charging the battery pack

Connect the AC power adapter with the USB port on your DVR. The charge lamp lights up when charging begins. When the charge lamp goes off normal charge is completed.

### Charging time

Battery pack capacity	Fully charging time(Approx.)
1400 mAh	240 mins

## Battery life

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### Movie mode recording

Battery pack capacity	Continuous recording time(Approx.)
1400 mAh	180mins. (fully charged battery)

### Movie mode playback

Battery pack capacity	Continuous playing back (Approx.)
1400 mAh	240 mins. (fully charged battery)

## Inserting the SD card



Insert SD card with the " " mark facing toward the SD slot as illustrated.

## Recording time of memory capacity

SD card capacity	720 X 480	640 X 480	320 X 240
2GB	Approx. 55 mins	Approx. 65 mins	Approx. 130 mins
4GB	Approx. 110 mins	Approx. 130 mins	Approx. 260 mins
8GB	Approx. 220 mins	Approx. 260 mins	Approx. 520 mins
16GB	Approx. 440 mins	Approx. 520 mins	Approx. 1040 mins
32GB	Approx. 880 mins	Approx. 1040 mins	Approx. 2080 mins

## Basic Operations

### One Touch Record

Moving image is recorded in AVI(MPEG-4) format.



#### One Touch Record ( Video & audio )

a. When the main unit power off, connect the mini camera and slide the shortcut key [REDACTED](upward),the first red LED indicator is flickering during recording, this moment it is a video & audio recording.(Red LED light)as illustrated.



b. Slide the shortcut key[REDACTED](downward), to save the video & audio recording.

#### One Touch Record ( Audio )




a. When the main unit power off, do not connect the mini camera and slide the shortcut key[REDACTED],the second LED indicator is flickering during recording, this moment it is a audio recording. ( Blue LED light )as illustrated.

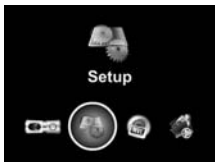
b. Slide the shortcut key[REDACTED] ( downward ),to save the audio recording.

### Basic Operations

#### Motion Detection recording


Moving image is recorded in AVI(MPEG-4) format.

- When the main unit power off, connect the mini camera, press and hold the power button [  ] for 2 seconds into a state of preview.
- Press the menu button [  ], select " Setup ", press [  ] into the Setup menu.




- Press [  ] or [  ], and select "MOTION DETECTION"



- Select "YES" and press [  ] to start the Motion Detection function. as illustrated



After setting, return to the state of preview, "press[  ] into the detection mode" shows on the bottom-left of the screen at the same time.

## Basic Operations

### Cycle video ( Storage full over write automatically )

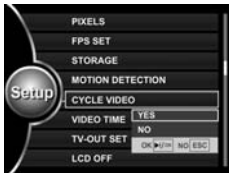
- When the main unit power off, connect the mini camera, press and hold the power button [  $\odot$  ] for 2 seconds into the state of preview.
- Press the menu button [Menu], select " set up ", press [  $\rightarrow$  ] into the set up menu.



- Press [  $\leftarrow$  ] or [  $\rightarrow$  ], and select "CYCLE VIDEO"



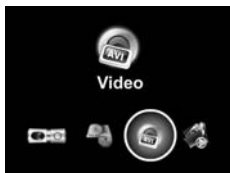
- Select "Open" and press [  $\rightarrow$  ] to start the Cycle video function.



After setting, return to the state of preview, "[  $\odot$  ]" shows on the bottom-left of the screen at the same time.

### Playback

- a. In the state of preview, press [Menu], select " Video ".



- b. Select " Record " or " Photo " or " Audio " , and press [OK].




- c. Enter " Record", select the desired video file with [←] or [→] key  
d. Press [OK] key to play back the selected video file.




- e. Press [OK] key to stop playing.  
f. Press [ESC] key to return the recorded file list.  
Enter "Photo", and "Audio" mode, the same operation as the above.

## Basic Operations


### Recording moving images from mini camera

a. Press and hold the power button [  ] for 2 seconds into the state of preview.



b. Press [  ] to start recording ,the red LED lamp is flickering during recording,"Rec" shows on the left-up corner of the screen at the same time.



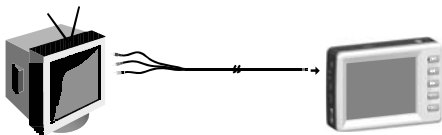
c. Press [  ] to stop and save recording, the red LED lamp is off.



### Basic Operations

#### Recording moving images from TV set and other video sources

a. When the main unit power off, connect the DVR with TV or other video sources via AV input cable.

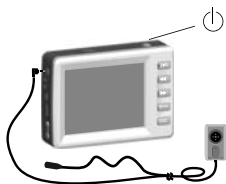


b. Press [ ⏻ ] and hold for 2 seconds into the state of preview

c. Press [ ⏻ ] to start recording, the red LED lamp is flickering during recording, "Rec" shows on the left-up corner of the screen at the same time, as illustrated

#### Taking photos from mini camera

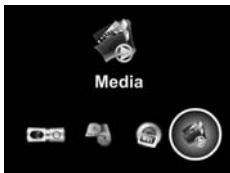
a. In the state of preview, Shortly press [ ⏻ ] as illustrated.



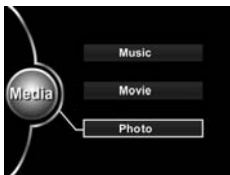
## Basic Operations

### Playing back media files on mini DVR (music,movie,photo)

- a. In the state of preview, press [ Menu ] to enter the Media mode.



- b. Enter "Photo", select the desired Photo files with [ << ] or [ >> ] key.



- c. Press [ < /> ] key to play back the selected photo file.  
d. Press [ < /> ] key to stop playing.



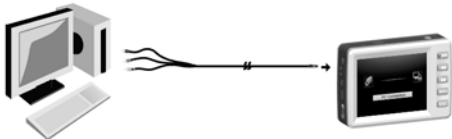
- e. Press [ Esc ] key to return the recorded file list.  
Enter "Music", and "Movie" mode, the same operation as the above.

### Basic Operations

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#### Playing back moving images on PC (records,photo,audio)

- Take out the SD card, connect it with the computer via the card reader.
- Connect the DVR with the computer via the USB cable,"PC Connection" shows on the screen as illustrated.



#### Playing back moving images on TV screen (records,photo,audio)

- In the state of preview, connect the DVR with TV/monitor via AV output cable.



- Press the [menu] button, select " Setup "

### Basic Operations

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c. Press [ ← ] or [ → ], and [  $\text{M}$  ] into the "TV-OUT SET" select "PAL" or "NTSC", the image is transmitted from DVR to TV . as illustrated.



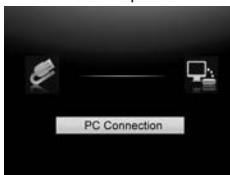
d. The next operations are the same as the DVR's (Playing back moving images on mini DVR ).

### Basic Operations

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#### Update media files ( Music, Movie, Photo)

- Take out the SD card, connect it with the computer via the card reader.
- Connect the DVR with the computer via the USB cable, " PC Connection " shows on the screen to update the media files as illustrated.



- Format Instruction

Music	MP3/MP2.5
Movie	MPEG-1/MPEG-4/AVI/ASF/ADPCM
Photo	JPG/JPEG

#### Copy recorded files

- In the playback mode, press [ \* / ❏ ] into record submenu.
- Select the desired file, press [ menu ], as illustrated.



- Select "Copy to", Press "Nand flash" or "SD" as illustrated.



## Basic Operations

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### Delete recorded files

- In the playback mode , press [ **⏮** ] into record submenu.
- Select the desired file , press [ **menu** ] .as illustrated.



**Delete** **Copy to**

- Select "Delete", press "All" or "Current" or "Cancel" as illustrated.



**DELETE**

**YES**

**NO**



**Delete**

**All**

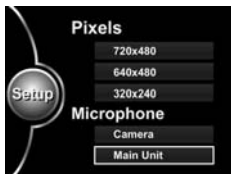
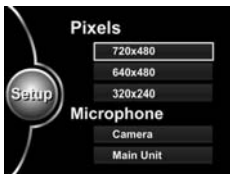
**Current**

**Cancel**

### Setting Operations

#### Setting the record

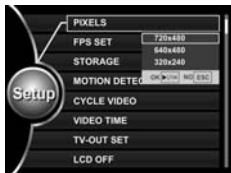
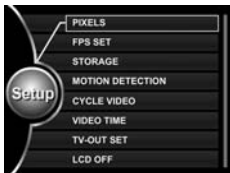
- In the state of preview,press [ESC] into record Setup
- Select "Pixels" and "Microphone" submenu,press [↵] as illustrated.



- Press [ESC] to back to the state of preview

#### Setting the pixels

- In the state of preview,press the [menu] button , select " Setup " .
- Press [←] or [→],select the "Pixels"
- Select "720x480" or "640x480" or "320x240"and press [↵] .as illustrated.

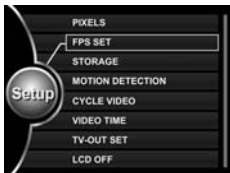


- Press [ESC] to back to setup menu.

## Setting Operations

## Setting the frames

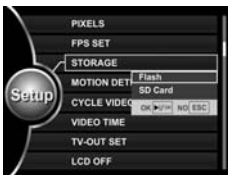
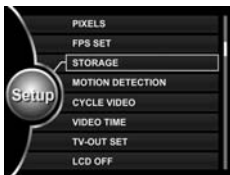
- In the state of preview, press the [menu] button , select " Setup " .
- Press [ ← ] or [ → ], select the "FPS SET" .as illustrated.



- Select "15Fps" or "25Fps" or "30Fps"and press [ ←/→ ]
- Press [ ESC ] to back to setup menu.

## Setting the storage

- In the state of preview, press the [menu] button, select " Setup " .
- Press [ ← ] or [ → ], select the "STORAGE" .

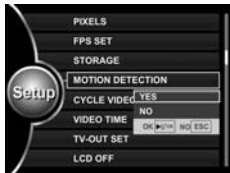
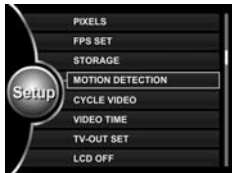


- Select "FLASH" or "SD Card" and press [ ←/→ ] .
- Press [ ESC ] to back to setup menu.

### Setting Operations

#### Setting the motion detection

- In the state of preview, press the [menu] button, select " Setup ".
- Press [ ← ] or [ → ],select the "MOTION DETECTION".as illustrated.



- Select "YES" or "NO" and press [ M/MI ]
- Press [ ESC ] to back to setup menu.

#### Setting the cycle video

- In the state of preview, press the [menu] button, select " Setup ".
- Press [ ← ] or [ → ],select the "CYCLE VIDEO".as illustrated.



- Select "YES" or "NO"and press [ M/MI ]
- Press [ ESC ] to back to setup menu.

## Setting Operations

## Setting the video time

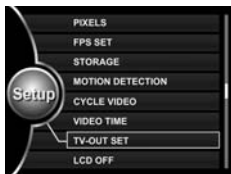
- In the state of preview, press the [menu] button, select " Setup ".
- Press [ ← ] or [ → ], select the "VIDEO TIME" . as illustrated.



- Select "10 Minutes" or "20 Minutes" or "30 Minutes" and press [  $\odot$  ].
- Press [ ESC ] to back to setup menu

## Setting the TV output

- In the state of preview, press the [menu] button, select " Setup ".
- Press [ ← ] or [ → ], select the "TV-OUT SET". as illustrated.



- Select "LCD" or "PAL" or "NTSC" and press [  $\odot$  ].
- Press [ ESC ] to back to setup menu.

### Setting Operations

#### Setting the LCD off time

- In the state of preview, press the [menu] button, select " Setup ".
- Press [ ← ] or [ → ],select the "LCD OFF" .as illustrated.



- Select "1 Minute" or "5 Minutes" or "NEVER"and press [ ←/→ ]
- Press [ esc ] to back to setup menu.

#### Setting the Power off time

- In the state of preview, press the [menu] button, select " Setup ".
- Press [ ← ] or [ → ],select the "AUTO OFF" .as illustrated.



- Select "1 Minute" or "5 Minutes" or " NEVER"and press [ ←/→ ]
- Press [ esc ] to back to setup menu.

## Setting Operations

## Setting the vibrate

- In the state of preview, press the [menu] button, select " Setup ".
- Press [ ← ] or [ → ],select the "VIBRATE OFF" .as illustrated.



- Select "YES" or "NO"and press [ →/← ]
- Press [ESC] to back to setup menu.

## Setting the language

- In the state of preview, press the [menu] button, select " Setup ".
- Press [ ← ] or [ → ],select the "LANGUAGE" .as illustrated.



- Select "English" or "Russian" or "Chinese"and press [ →/← ]
- Press [ esc ] to back to setup menu.

### Setting Operations

#### Setting the date time

- In the state of preview, press the [ menu ] button, select " Setup ".
- Press [ ← ] or [ → ],select the "DATE TIME".as illustrated.



- Select "Time stamp", Select "YES" or "NO", and press [ OK ].as illustrated.



- Select "Time set" to set up the date. as illustrated.



- Press [ ESC ] to back to setup menu.

## Setting Operations

## Setting the format

- a. In the state of preview, press the [menu] button, select " Setup " .  
 b. Press [ ← ] or [ → ],select the "FORMAT" .as illustrated.



- c. Select "Flash" or "SD Card", and press [ ⏎ ]. as illustrated.



- d. Press [ ESC ] to back to setup menu. as illustrated.










**WARNING! FORMATING WILL DELITE ALL DATA.**







## Accessories

<p>AV In cable AV Out cable</p>	 <p>x 1</p>
<p>Camera Covers</p>	 <p>x 1</p>
<p>USB cable</p>	 <p>x 1</p>
<p>Rechargeable Li-ion Battery 1400mAh</p>	 <p>x 1</p>
<p>AC charger</p>	 <p>x 1</p>
<p>Driver Disc</p>	 <p>x 1</p>
<p>Manual</p>	 <p>x 1</p>

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