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## Manual

### Attention!

- 1. Don't take SD card out when DVR is working
- 2. Use original power cable and AV cables
- 3. Format SD card by DVR system on your first use
- 4. Install the unit in dry and ventilatory environment
- 5. Use genuine SD card
- 6. Warranty and free maintenance will be invalidated if you disassemble the unit

## Description

Welcome to use our product!

This DVR unit is designed for in-vehicle security surveillance, with IR remote to control the unit; SD CARD for data storage is shockproof on vehicles and enables easy playback.

### Accessories





Remote control Power cable





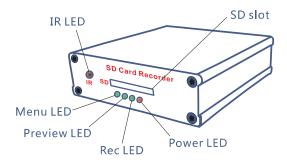


Power adapter

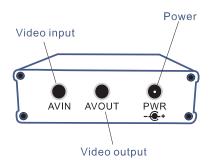
Manual

## 1.Introduction

## 1.1 DVR



### 1.2 DVR slot



## Manual

## 1.3 Panel



IR	IR led for remote control
SD	SD card slot, 32GB max.
1st Green Led(from left)	menu led, constant on when in menu mode; blinks when in playback mode
2nd Green Led	review led, constant on when in review mode; blinks when reading SD card
3rd Green Led	record led, blinks when recording
4th Green Led	power led, blinks when working



AVIN	video input
AVOUT	video output
PWR	power plug-in(5-30V)

## 2. IR remote control

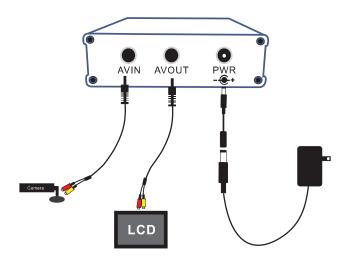


Buttons	Functions
	Up/volume up(during playback)
	Down/volume down(during playback)
	Left/fast backward(during playback)
	Right/fast forward(during playback)
ОК	Set/record(during playback)
MENU	Menu
P/P	Play/pause/delete files
STOP	Stop
ESC	Return to last menu/playback

## 3.Insert the SD card



## 4.AV cables, power cable connection



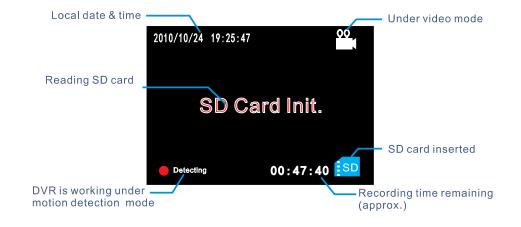
Note: please connect all cables correctly, in case of system failure.

## Manual

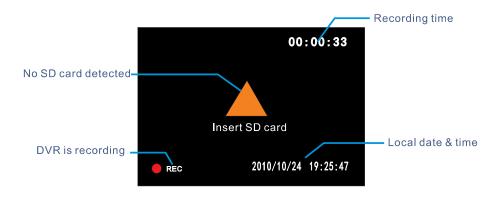
### 5. Screen icons instruction

### 5.1 Standby mode

\*The following pictures are for references only



## 5.2 Recording mode



## 6.Set up

\* You need to connect the DVR with TV or monitor before set-up

## 6.1 Operating DVR with IR remote control



Buttons	Functions
	Up/volume up(during playback)
	Down/volume down(during playback)
	Left/fast backward(during playback)
	Right/fast forward(during playback)
OK	Set/record(during playback)
MENU	Menu
P/P	Play/pause/delete files
STOP	Stop
ESC	Return to last menu/playback

## Main operations:

Enter into system menu: press "MENU" on remote

Choose items to set up: press direction keys

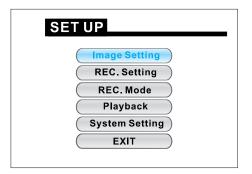
Confirm your choice: press "OK"

Return to last menu: press "ESC"

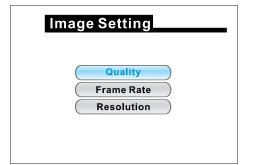
## Manual

6.2 Image setting

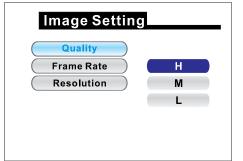
## 6.2.1 Image quality



A. press "MENU" key to enter into system SET-UP.



B. press "OK" to set



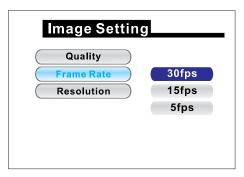
H: best image quality

M: normal image quality

L: low image quality

\* the lower the image quality, the longer the recording time

#### 6.2.2 Video frame rate



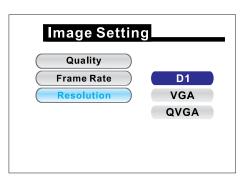
30fps: smooth image

15fps: not so smooth image

5fps: jerky image

\*the lower the frame rate, the longer the recording time

## 6.2.3 Image resolution



D1: 704X576

VGA: 640X576

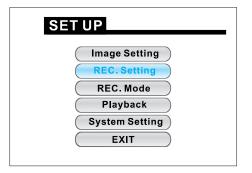
QVGA: 320X288

\*the lower the resolution, the longer the recording time

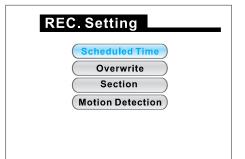
## Manual

## 6.3 Recording setting

#### 6.3.1 Scheduled time



A. press "MENU" key to enter into system SET-UP.



B. system starts and stops recording automatically according to the scheduled time period



C. press "OK" for 4 groups
press UP/DOWN to choose

press "OK" to enter into each group

## \*Weekly

Weekly Once Off

Start Time : 07 : 00 End Time : 13 : 00

SUN MON TUE WED THU FRI SAT

Weekly Once Off

Start Time : 07 : 00 End Time : 13 : 00

SUN MON TUE WED THU FRI SAT

C. press UP/DOWN to change time; and RIGHT to move on and select days that is needed

A. press LEFT/RIGHT to choose modes:

B. e.g. to choose "Weekly" mode, press

UP/DOWN, "Weekly" mode is confirmed

press "OK" to the next step, select Start

Weekly: auto record weekly Once: auto record once Off: switch off this group

when it's in blue:

Time & End Time

Weekly Once Off

Start Time : 07:00

End Time : 13:00

SUN MON TUE WED THU FRI SAT

D. e.g. to choose MON, press UP/DOWN to select/dis-select it:

refer to the picture on the left, MON-FRI are all selected

Note: purple font means selected, black font means dis-selected

E. press "OK" to finish weekly set-up, the 2 yellow triangle will go back onto "Weekly"(in blue)

F. press "ESC" to save and return to group list for other groups set-up

## Manual

## \*Once(Daily)

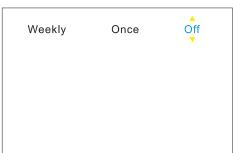
Weekly Once Off

Start Time : 2011/01/01 07:00

End Time : 2011/01/01 13:00

- A. choose "Once", press UP/DOWN, "Once" mode is confirmed when it's in blue
- B. press "OK" to move on, please refer to "Weekly" set-up

\*Off

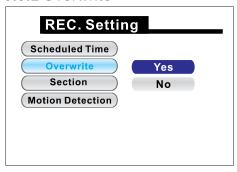


- A. choose "off", press UP/DOWN, the group is switched off when it's in blue
- B. press "ESC" to switch off this group

#### Note:

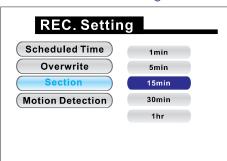
- A. in each group, only one mode can be selected among "Weekly", "Once" and "Off":
- B. if scheduled period in "Weekly" overlaps with those in "Once", system will auto choose to record under the longer period; the same method applies to overlaps in between different groups;
- C. press UP/DOWN to select each mode in a group, blue font means mode selected;

#### 6.3.2 Overwrite



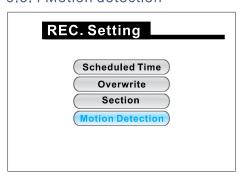
A. system will delete the first 300MB files once the SD card is full to save new files

## 6.3.3 Section recording time set up



- B. set up section recording time
- \* only available under "Manual", "Scheduled" and "Power Up Rec." modes
- \*2.5 min section recording time is fixed under "Motion Detection" mode

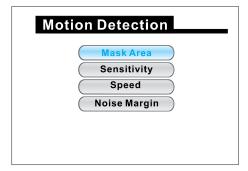
#### 6.3.4 Motion detection



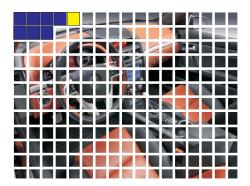
C. set motion detection details

## Manual

#### 6.3.4.1 Mask Area

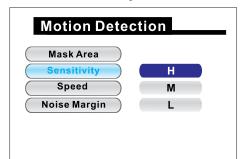


A. enter into "Mask Area", the screen will be shown in grids as below:



- B. press direction keys to move the cursor to choose the area needn't be detected
- C. press "OK" to confirm blue grids area won't be motion-detected
- D. all grids area that the camera covers are recorded in image

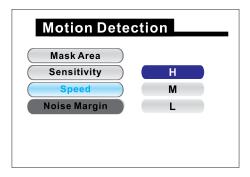
#### 6.3.4.2 Sensitivity



- H: high level M: middle level
- L: low level
- \* system will be triggered very easily if sensitivity is set under high level.

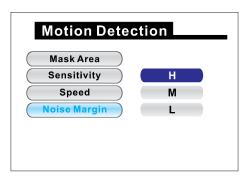
## Manual

## 6.3.4.3 Speed



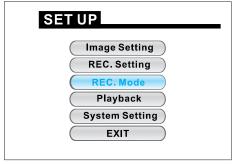
- A. different speed levels to trigger system
- \*system will be triggered very easily if speed is set in low level.

### 6.3.4.4 Noise Margin



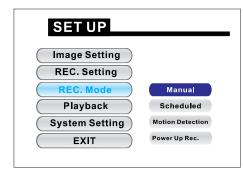
- B. different noise levels to trigger system
- \*system will be triggered very easily if noise is set in low level

## 6.4 Recording mode set up



set the recording mode for system

## 6.4.1 Recording modes



choose a mode first:

#### Manual:

under this mode, press "OK" to start recording, and "STOP" to stop recording

#### Scheduled:

system starts and stops recording according to the scheduled period preset

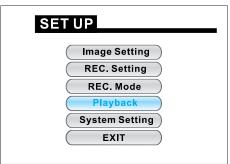
#### **Motion Detection:**

system starts recording automatically by detecting motions in the area preset;
\*2.5min section recording time is fixed

#### Power Up Rec.:

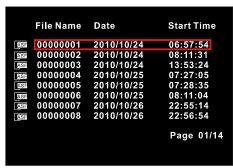
system starts to record as soon as the power is on

## 6.5 Playback and delete video files



A, press "OK" to enter into file list

#### 6.5.1 Under file list mode



#### Delete:

A. press UP/DOWN to choose the file(s) you want to delete

B. press "P/P" or "DEL." to delete

A, press UP/DOWN to choose and "OK" to open the file

B. press "P/P" to play

#### Fast forward/backward:

Press RIGHT/LEFT to fast forward/backward, one press increases play speed rate (can choose 2,4,8,16 rates).

#### Volume up and down

Press UP/DOWN to turn volume up/down. Highest volume level is 8.

Press "P/P" to pause, press it again to start.

Press "STOP" to stop playing.

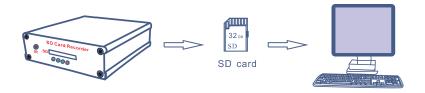
#### Exit playing mode:

Press "ESC" to return to file list.

## Manual

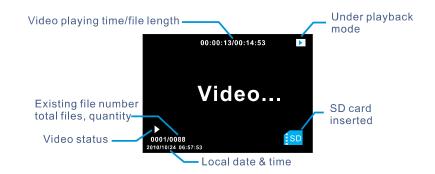
### 6.5.2 Playback video files on computer

\*playback via Media Player

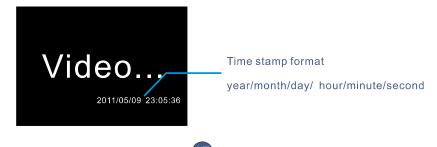


## 6.5.3 Icons instructions under playback mode

A. Playback on TV set or monitor



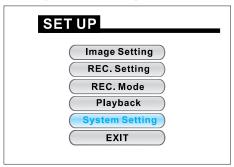
## B.Playback on computer





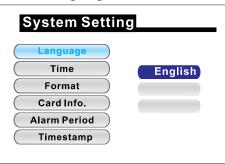
## Manual

## 6.6 System Setting



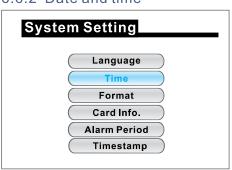
\*system set-up

### 6.6.1 Language



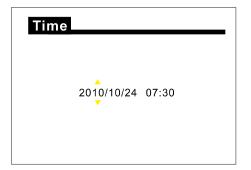
\*choose your language

#### 6.6.2 Date and time



\*set local date & time

#### 6.6.2.1 Date and time

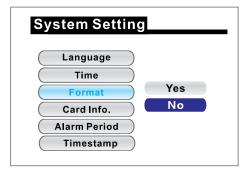


\*press LEFT/RIGHT to move the cursor

\*press UP/DOWN to adjust the values

\*press "OK" to save the setting

#### 6.6.3 Format

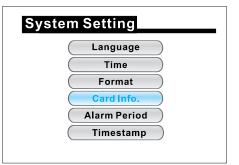


\*choose "Yes" to format SD card

## Attention!

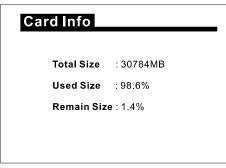
all files can not be restored after being formatted from SD card

## 6.6.4 Memory card information



\*check SD memory capacity

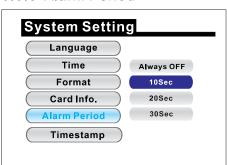
## 6.6.4 Memory card information



\*check card memory

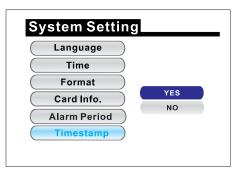
\*press "ESC" to exit

#### 6.6.5 Alarm Period



- \* choose alarm ON/OFF, and length
- \* system outputs a 12V voltage for external alarm devices when motion detection is triggered

## 6.6.6 Time Stamp



\* choose Timestamp ON/OFF

## Manual

## 7. F.A.Q.

- Q: DVR can not read SD card.
- A: Please use 1GB to 32GB genuine SD card.
- Q: No images on TV after turn on the DVR.
- A: Please check the cable is correctly connected. Yellow connector should connect with video input port on TV.
- Q: No sounds when playing video.
- A: Please check the cable is correctly connected. Red connector should connect with audio input port on TV.
- B: The camera connected with DVR should be with audio feature.
- Q: No recorded files in SD card after system records.
- A: 1. Please check if the SD card works with DVR normally;
  - 2. Please use 1GB to 32GB genuine SD card.
- Q: DVR system crashes when it is on.
- A: 1. You can not take out or insert SD card when it is on;
  - 2. Please make sure it is a genuine SD card.
- Q: DVR doesn't record video when motion detected.
- A: 1. Please set "Recording mode" to "Motion Detection"
  - 2. Set "Sensitivity", "Speed" and "Noise Margin" according to the suggestions on page 13-14.
- Q: Remote control is not working.
- A: 1. Check whether remote battery is flat: connect DVR with camera and monitor, press any buttons on remote, with remote LED facing the camera to see whether there is a spark in the monitor; if not, please replace a new battery;
  - 2. Remote control only works in open space.