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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











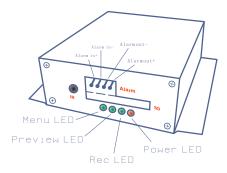


Remote control Power cable AV cable *2

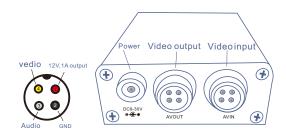
Vehicle Power Manual

1.Introduction

1.1 DVR

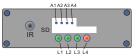


1.2 DVR slot



Manual

1.3 Panel



IR	IR Receiver
SD	SD card slot, 32GB max.
A1	Alarm in +
A2	Alarm in -
A3	Alarm out +
A4	Alarm out -
L1	Menu led
L2	Review led
L3	Record led
L4	Power led



AVIN	1.12V Output 2.GND 3.Audio 4.Video
AVOUT	1.12V Output 2.GND 3.Audio 4.Video
DC9-30V	Power plug-in(9-30V)

2. IR remote control



Buttons	Functions
A	Ap/volume up(during playback)
▼	Aown/volume down(during playback)
	L eft/fast backward(during playback)
•	Right/fast forward (during playback)
ОК	& et/record(during playback)
MENU	M en u
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



 $\label{eq:Note:please} \mbox{Note: please connect all cables correctly, in case of system failure.}$

Manual

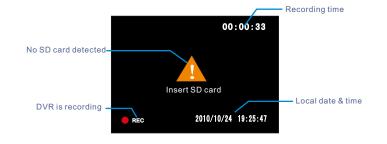
5. Screen icons instruction

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
A	Ap/volume up(during playback)
▼	≜ own/volume down(during playback)
◀	≜ eft/fast backward(during playback)
•	Right/fast forward(during playback)
OK	S et/record(during playback)
MENU	Menu
₽ /P	Play/pause/delete files
STOP	Stop
ESC	Return to last menu/playback



Product pictures function: in the preview screen press P/P Manual pictures can be realized

Main operations:

Enter into system menu: press "MENU" on remote

Choose items to set up: press direction keys

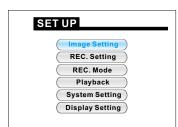
Confirm your choice: press "OK"

Return to last menu: press "ESC"

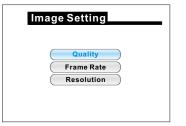


Manual

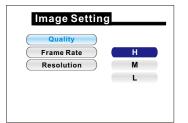
- 6.2 Image setting
- 6.2.1 Image quality



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



B. press "OK" to set



H: best image quality

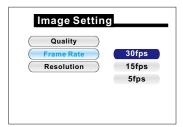
M: normal image quality

L: low image quality

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

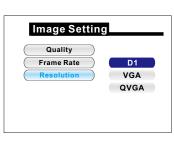


6.2.2 Video frame rate



- 30fps: smooth image
 - 15fps: not so smooth image
 - 5fps: jerky image
- *the lower the frame rate, the longer the recording time

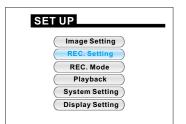
6.2.3 Image resolution



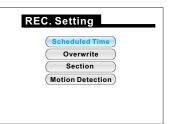
- D1: 704X576
- VGA: 640X576
- QVGA: 320X288
- *the lower the resolution, the longer the recording time

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 Start Time . 07 . 00

End Time

SUN MON TUE WED THU FRI SAT

: 13:00

Off

Off Weekly Once 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 A. press LEFT/RIGHT to choose modes:

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

B. e. g. to choose "Weekly" mode, press UP/DOWN, "Weekly" mode is confirmed when it's in blue; press "OK" to the next step, select Start Time & End Time

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

C. press UP/DOWN to change time; and

is needed

RIGHT to move on and select days that

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

*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

Manual

B. press "OK" to move on, please refer to "Weekly" set-up

*Off

Weekly Once 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":

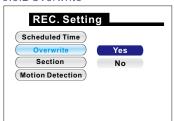
B. if scheduled period in "Weekly" overlaps with those in "Once", system will auto choose to record under the longer period; the same method applies to overlaps

in between different groups;

C. press UP/DOWN to select each mode in a group, blue font means mode selected;

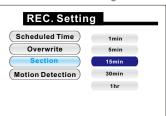


6.3.2 Overwrite



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



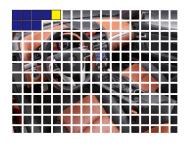
C. set motion detection details

Manual

6.3.4.1 Mask Area

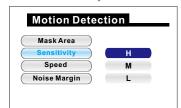


A. enter into "Mask Area", the screen will be shown in grids as below:



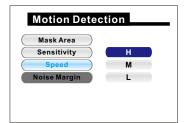
- B. press direction keys to move the cursor to choose the area needn't be detected
- C. press "OK" to confirm blue grids area won't be motion-detected
- D. all grids area that the camera covers are recorded in image

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.

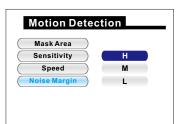
6.3.4.3 Speed



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

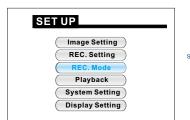


B. different noise levels to trigger system

*system will be triggered very easily if noise is set in low level

Manual

6.4 Recording mode set up



set the recording mode for system

6.4.1 Recording modes

Image Setting REC. Setting REC. Mode Playback System Setting Display Setting Power Up Rec.

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.:

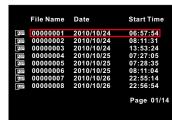
system starts to record as soon as the power is on

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

Play:

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.

Pause:

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

Stop:

Press "STOP" to stop playing.

Exit playing mode:

Press "ESC" to return to file list.

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6.5.2 Playback video files on computer

*playback via Media Player



6.5.3 Icons instructions under playback mode

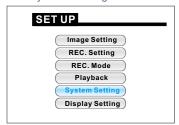
A. Playback on TV set or monitor



B.Playback on computer



6.6 System Setting



*system set-up

6.6.1 Language



*choose your language

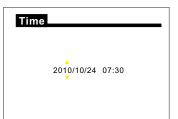
6.6.2 Date and time



*set local date & time

Manual

6.6.2.1 Date and time

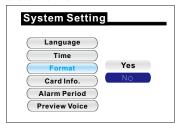


*press LEFT/RIGHT to move the cursor $\,$

*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



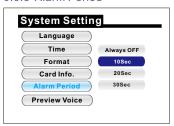
*check SD memory capacity

6.6.4 Memory card information



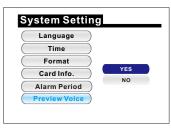
- *check card memory
- *press "ESC" to exit

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 Preview voice ON/OFF

Manual

6.7 Display Setting



*display set-up

6.7.1 Display setting



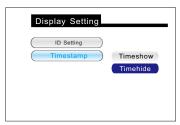
A. On the menu, press OK into choose ID setting





a. press UP/DOWN to change ON/OFF digits and Left/Right to move on

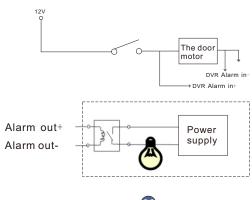
6.7.2 Timestamp



A. choose time show/hiden on the preview & replay

PS: The interpretation and examples about ALARM

The machine contain 1 alarm input and 1 output alarm, the alarm input of external equipment The trigger machine video, such as open video; when the machine is set for a mobile detecting state, shift dynamic detection is triggered, the menu system settings - alarm length setting, will the alarm output interface, a 12V output, 30MA level, can be connected with an alarm deviceTrigger interface.



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:

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.