

1ch Mini Car DVR board

Description:

SD card video recorder board is a high-performance, high-definition digital video recorder; board is 60*45mm. It adapts MPEG-4 video compression, and single channel resolution up to D1(704*576), 30fps, is a fully real-time, high-definition, low power consumption, easy-operated, super-smart professional DVR.

It supports **power-up record**, **motion detect record**, scheduled record, and manual record, SD card up to 32GB expandable, and directly playback by TV sets, monitor, and PC by SD card reader.

Features:

1. MPEG-4 video compression
2. D1(704*576) resolution
3. MPEG-4/ASF video format, MP3 audio format
4. Real-time stamp on videos, overwrite
5. Manual/motion detect/scheduled/power-up record
6. audio input, audio compression 8KHZ/ADPCM
7. 5/15/30fps optional
8. SDHC memory support, up to 32GB
9. TV-out enables better resolution by TV set
10. MPEG-4/ASF playback
11. AV-IN, AV-OUT directly connect with camera, TV, monitor
12. Support IR remote operation, built-in ADC for external keyboards
13. Support manually snapshot, auto record by triggering port
14. Built-in RS232 series port, enables external remote, keyboard for operation and software set-up
15. 5-35V for wide power supply use
16. Low power-consumption, 1W when standby, 2W when recording
17. Electronic dog ensures normal working
18. Board dimension: 60*45mm, net weight 100g, with position holes for different expandable use

Board application:

The board supports wide voltage input, suitable for all vehicles use; SD card for storage avoid vehicle shock; resolution D1/VGA/QVGA and frames 5/15/30fps optional for different requirements in different conditions.

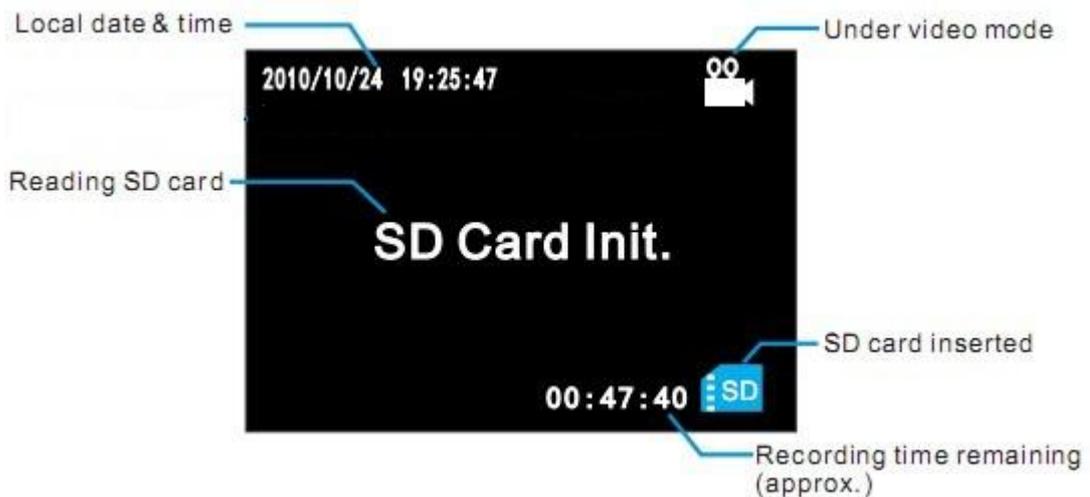
Remote instruction:



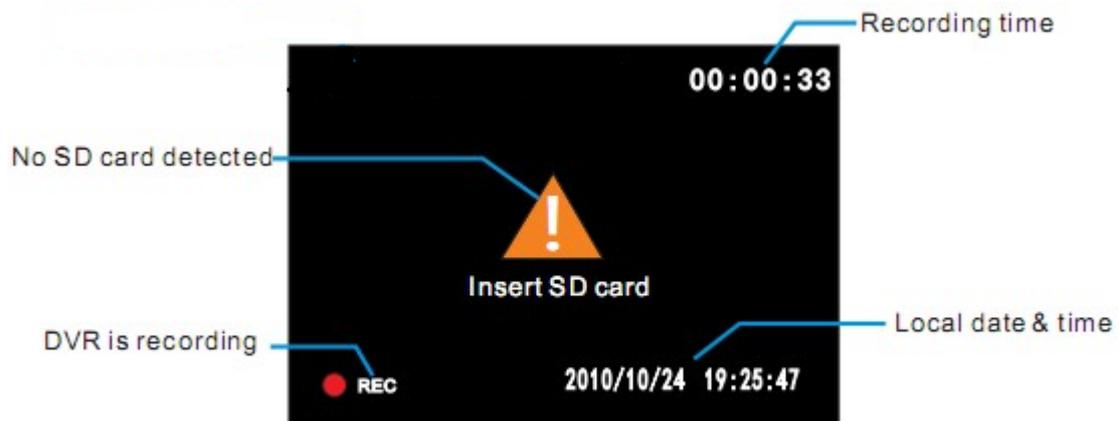
Buttons	Functions
▲	Up/volume up(during playback)
▼	Down/volume down(during playback)
◀	Left/fast backward(during playback)
▶	Right/fast forward(during playback)
OK	Set/record(during playback)
MENU	Menu
P/P	Play/pause/delete files
STOP	Stop
ESC	Return to last menu/playback

▲ Screen icons instruction

△ Standby mode

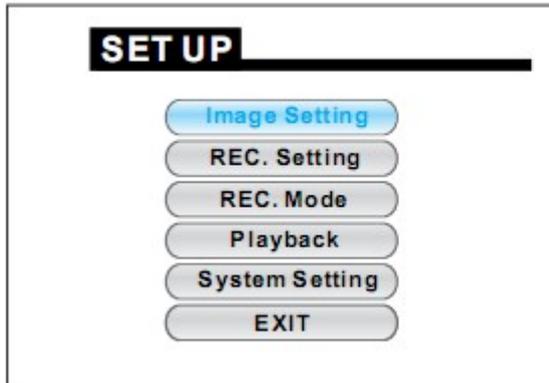


△ Recording mode

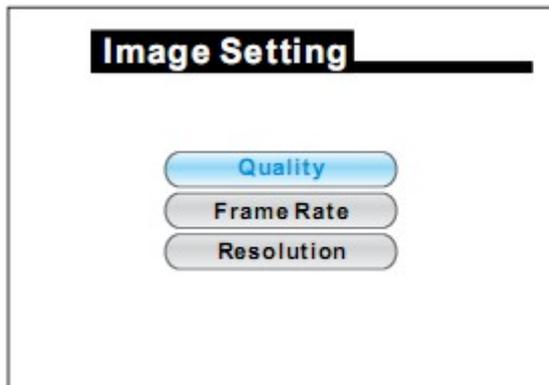


▲ Menu set up:

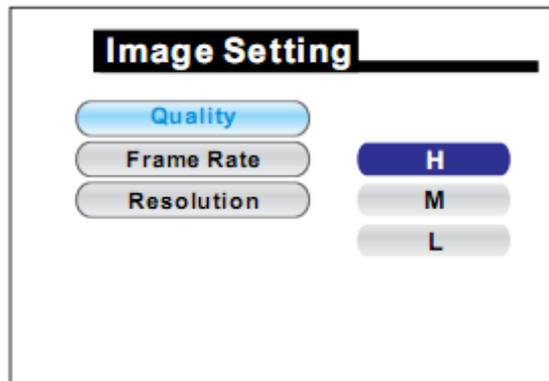
△ Image setting



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



B. press "OK" to set

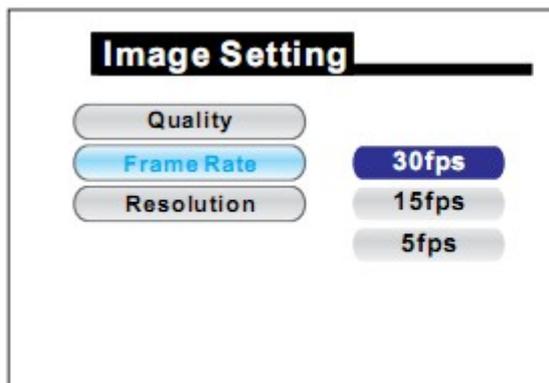


H: best image quality

M: normal image quality

L: low image quality

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

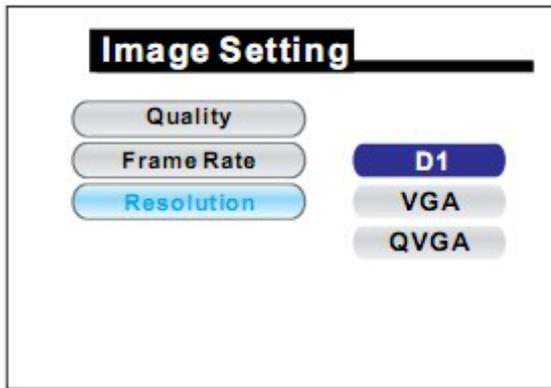


30fps: smooth image

15fps: not so smooth image

5fps: jerky image

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



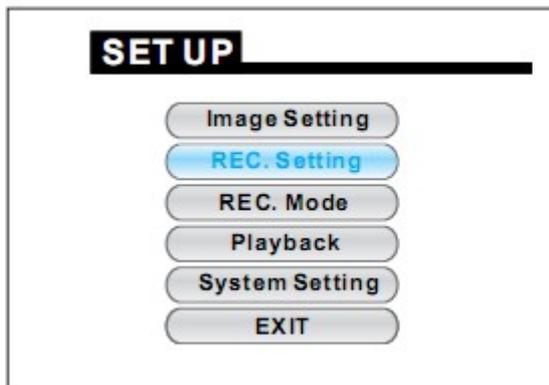
D1: 704X576

VGA: 640X576

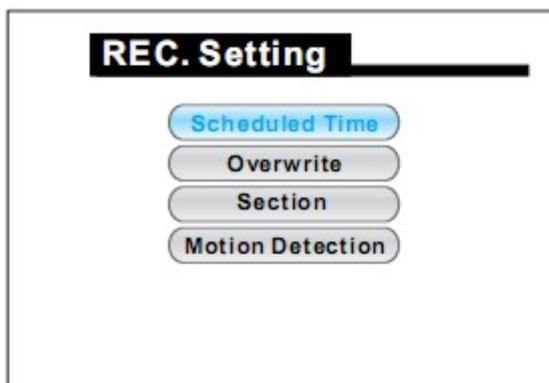
QVGA: 320X288

*the lower the resolution, the longer the recording time

△ Recording setting



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

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

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

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

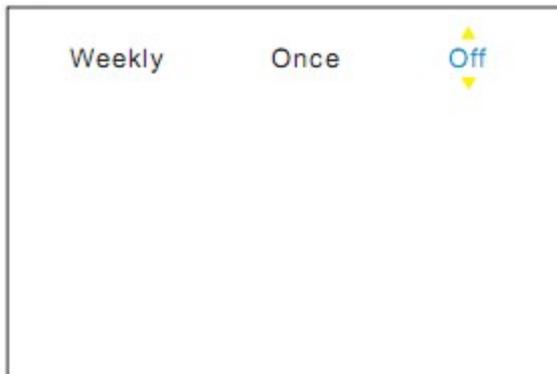
*Once(Daily)

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

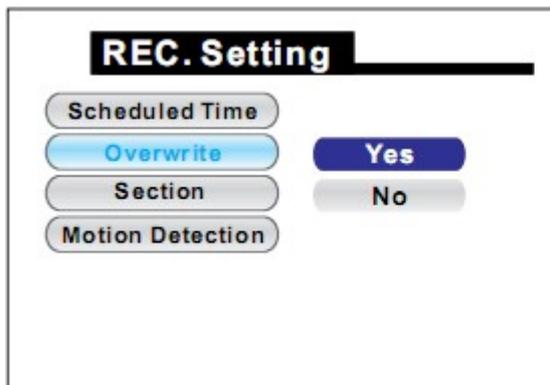
B. press "ESC" to switch off this group

Note:

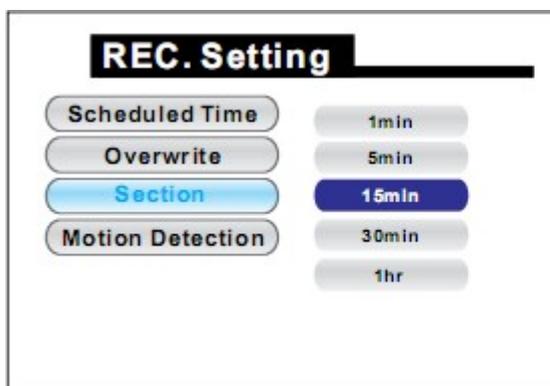
A. in each group, only one mode can be selected among "Weekly", "Once" and "Off";

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;



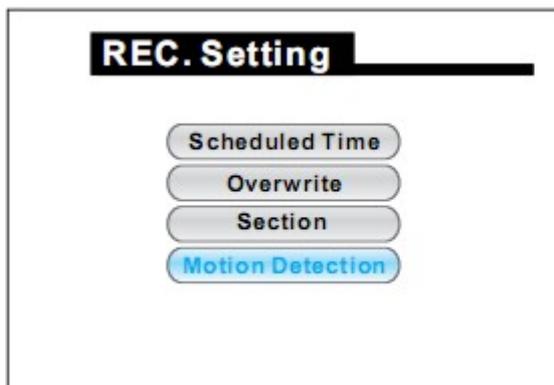
A. system will delete the first 300MB files once the SD card is full to save new files



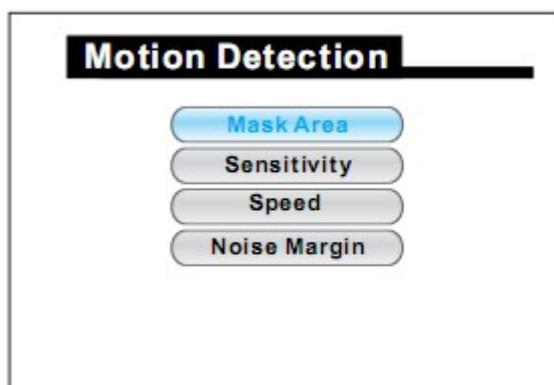
B. set up section recording time

* only available under "Manual", "Scheduled" and "Power Up Rec." modes

*2.5 min section recording time is fixed under "Motion Detection" mode

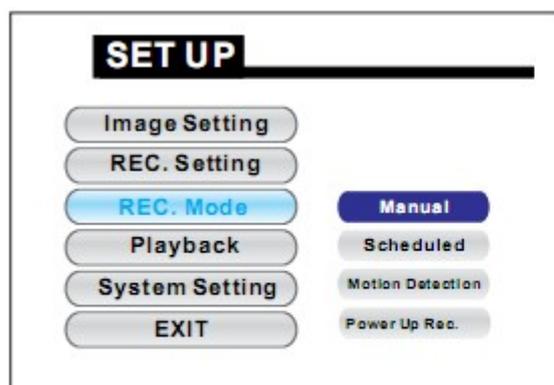


C. set motion detection details



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

△ Recording mode set up
Set the recording mode for system



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

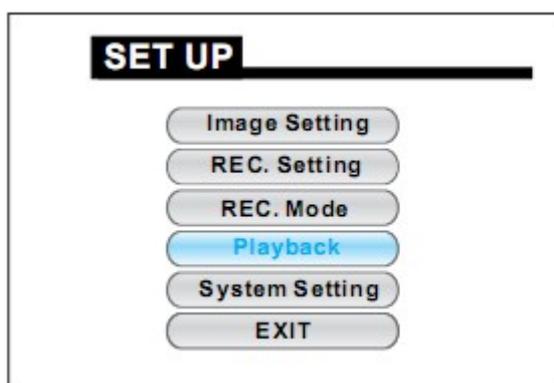
Motion Detection:

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

△ Playback&video files



A. press "OK" to enter into file list

	File Name	Date	Start Time
ESC	00000001	2010/10/24	06:57:54
ESC	00000002	2010/10/24	08:11:31
ESC	00000003	2010/10/24	13:53:24
ESC	00000004	2010/10/25	07:27:05
ESC	00000005	2010/10/25	07:28:35
ESC	00000006	2010/10/25	08:11:04
ESC	00000007	2010/10/26	22:55:14
ESC	00000008	2010/10/26	22:56:54

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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.

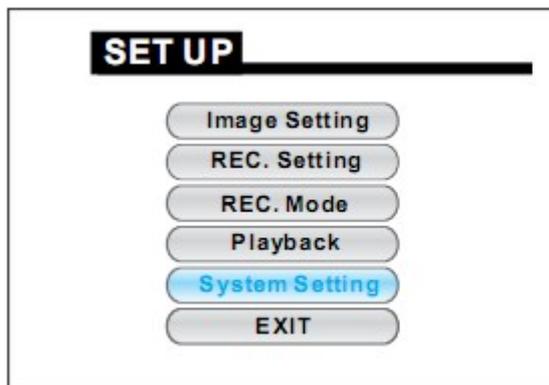
Stop:

Press "STOP" to stop playing.

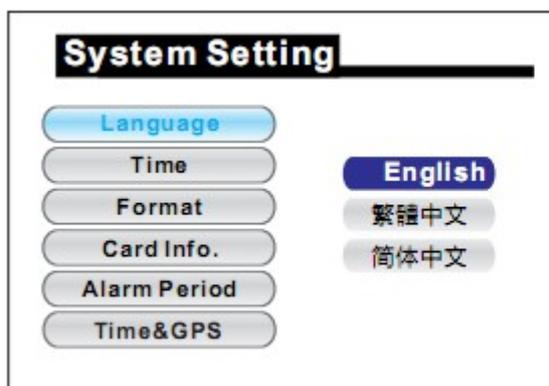
Exit playing mode:

Press "ESC" to return to file list.

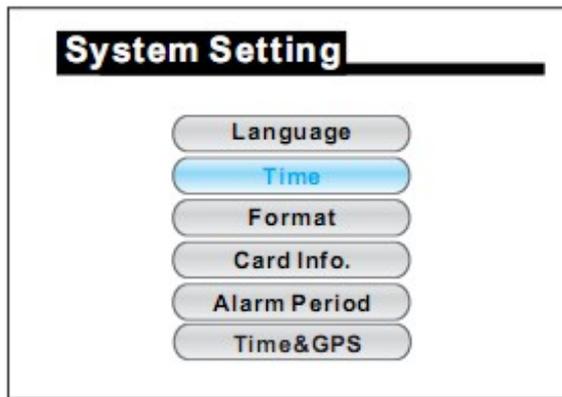
△ Recording mode set up



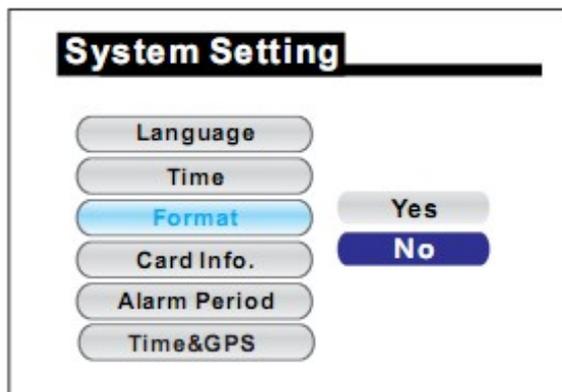
*system set-up



*choose your language



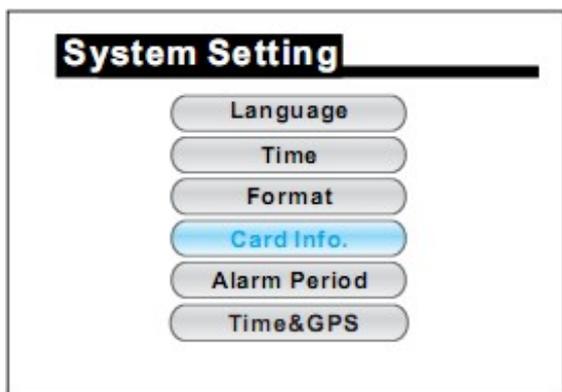
*set local date & time



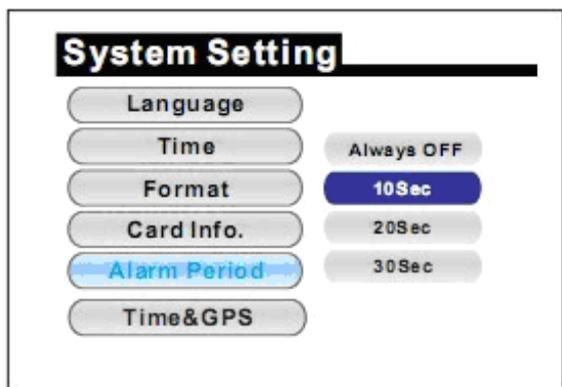
*choose "Yes" to format SD card

Attention!

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



*check SD memory capacity



* choose alarm ON(length)/OFF
 * system outputs an alarm signal when motion detection is triggered

Times&GPS

There is timestamp only, NO GPS OPTION. Choose timestamp ON/OFF

THE Peripheral Interface:Look for **Expand interface manual**