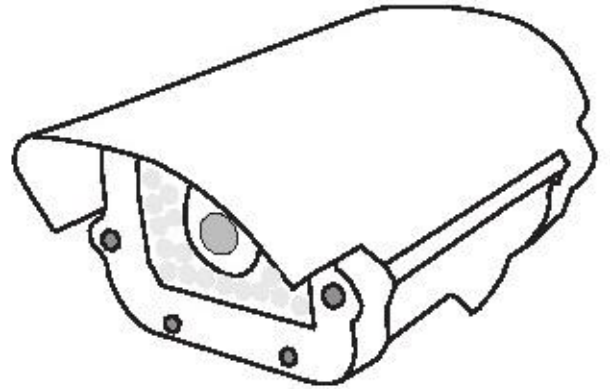




IR Camera Recorder Manual



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Attention!

1. Don't take SD card out when DVR is running.
2. Use 12V 2A power adapter.
3. Format SD card by DVR system on your first use.
4. Install the unit in dry location and make sure enclosure is sealed.
5. Use genuine SD card.
6. Warranty and free maintenance will be invalidated if you disassemble the unit.

Description

This Camera Recorder is used for indoor & outdoor surveillance, which is combined with DVR board and lens with IR leds; with remote control for operation and SD for data storage.

It is waterproof, easy-operation camera recorder.

Accessories



Remote control



Manual

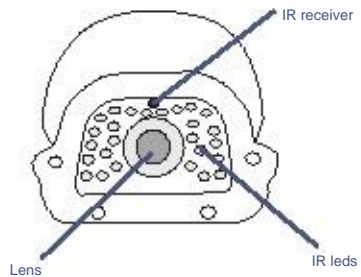


BNC

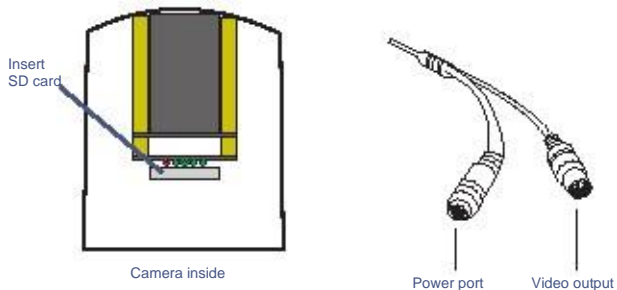
Power Adapter
(optional)Bracket
(optional)

1. Introduction

1.1 Front side



1.2 Camera inside & cable



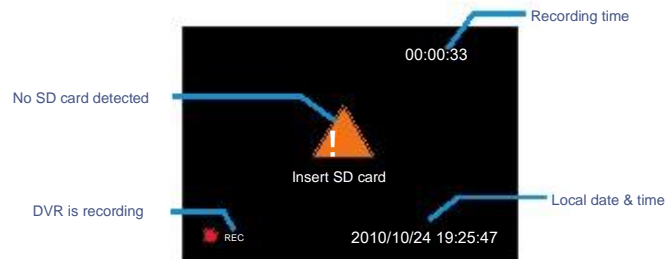
2. Screen Icons Instruction

2.1 Standby Mode

*The following pictures are for references only



2.2 Recording Mode



3.Set Up

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

3.1 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

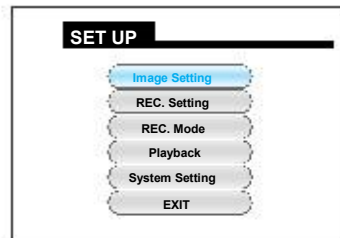
Choose items to set up: press direction keys

Confirm your choice: press "OK"

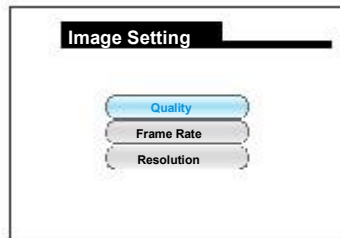
Return to last menu: press "ESC"

3.2 Image Setting

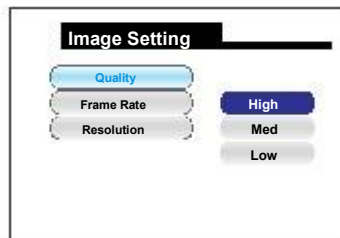
3.2.1 Image Quality



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



B. Press "OK" to set



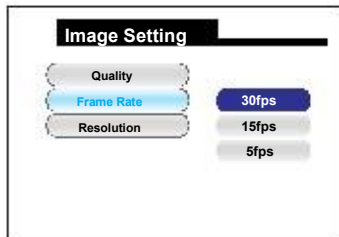
H: best image quality

M: normal image quality

L: low image quality

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

3.2.2 Video Frame Rate



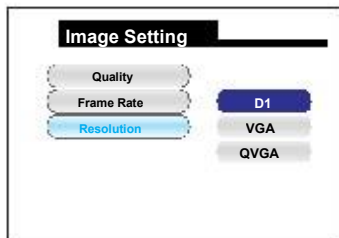
30fps: smooth image

15fps: not so smooth image

5fps: jerky image

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

3.2.3 Image Resolution



D1: 704X576

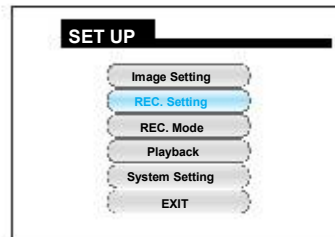
VGA: 640X576

QVGA: 320X288

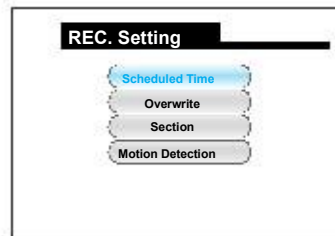
*The lower the resolution, the longer the recording time

3.3 Recording Setting

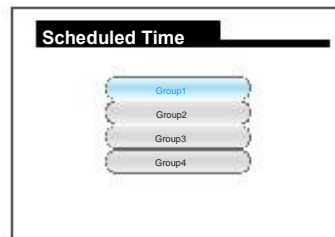
3.3.1 Scheduled Time



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		

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

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

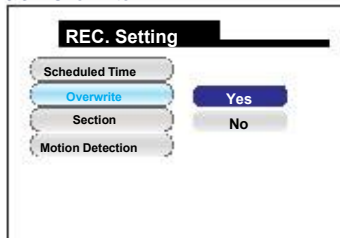
Note:

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;

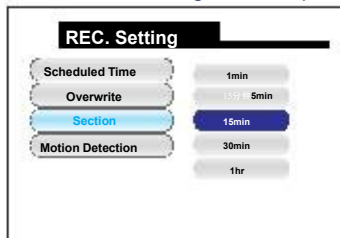
C. Press UP/DOWN to select each mode in a group, blue font means mode selected;

3.3.2 Overwrite



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

3.3.3 Section Recording Time Set Up

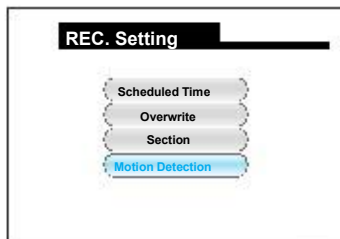


B. Set up section recording time

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

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

3.3.4 Motion Detection



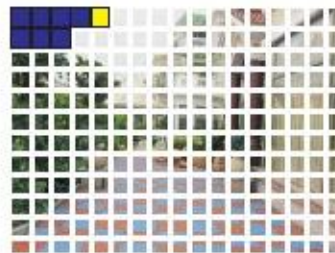
C. Set motion detection details

3.3.4.1 Mask Area



A. Enter into "Mask Area", the screen will be shown in a grid pattern as shown below.

"Mask Area" will allow the DVR to record video based on motion detected in any area that is selected as **blue**. The entire image will be recorded if any motion is detected in the grid for an area marked with blue.

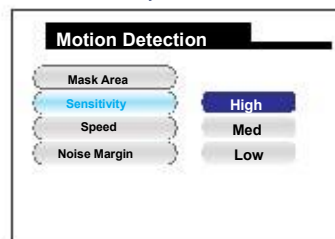


B. Press the arrow keys to move the cursor to choose the area that should be detected.

C. Press "OK" to confirm.

D. Each area in the grid that is marked in blue will trigger the motion detection. If the area in the grid is not marked in blue, it will not trigger motion detection.

3.3.4.2 Sensitivity

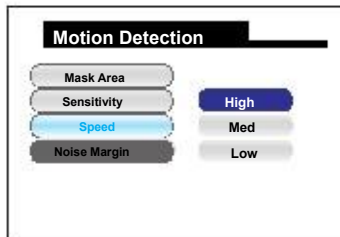


High level
Medium level
Low level

* System will be triggered very easily if sensitivity is set lower than High level

*Low level setting is recommended.

3.3.4.3 Speed

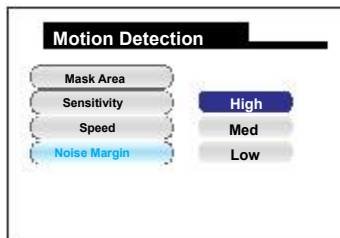


A. Different speed levels to trigger system

*System will be triggered very easily if speed is set in low level.

*Low level setting is recommended.

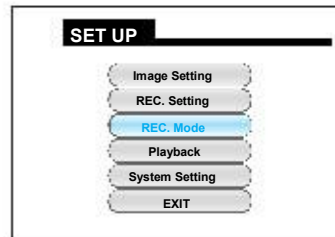
3.3.4.4 Noise Margin



B. "Noise Margin" has been disabled. This feature is not available.

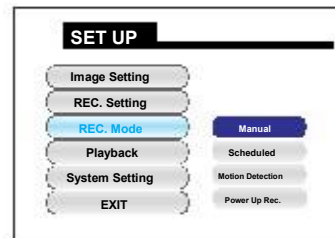
*Low level setting is recommended.

3.4 Recording Mode Set Up



Set the recording mode for the system.

3.4.1 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.

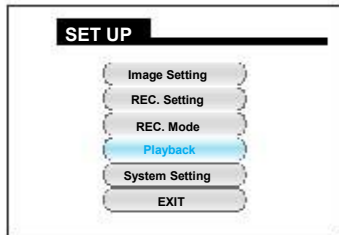
Motion Detection:

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.

3.5 Playback and Delete Video Files



A. Press "OK" to enter into file list

3.5.1 Under File List Mode

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

Page 01/14

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/rewind. Each additional press increases playback speed in increments of 2X, 4X, 8X and 16X.

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:

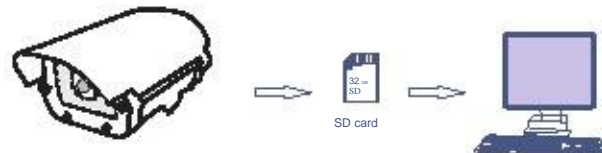
Press "STOP" to stop playing.

Exit playing mode:

Press "ESC" to return to file list.

3.5.2 Playback Video Files on Computer

*Playback via Media Player (ASF Format)

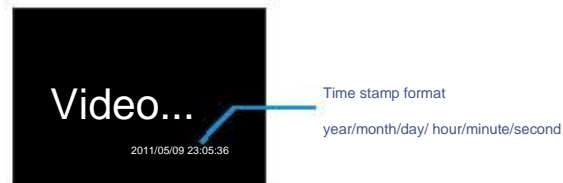


3.5.3 Icons Instructions under Playback Mode

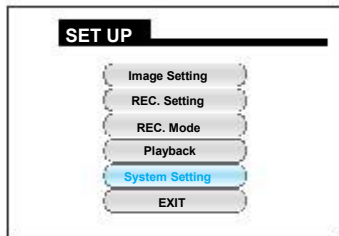
A. Playback on TV Set or Monitor



B. Playback on Computer



3.6 System Setting



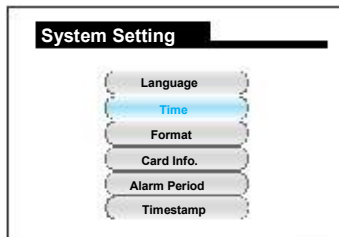
*System set-up

3.6.1 Language



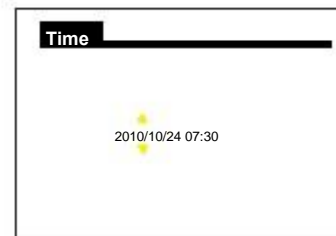
*Choose your language

3.6.2 Date and Time



*Set local date & time

3.6.2.1 Date and Time

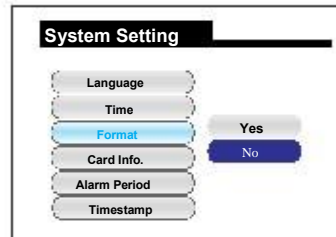


*Press LEFT/RIGHT to move the cursor

*Press UP/DOWN to adjust the values

*Press "OK" to save the setting

3.6.3 Format

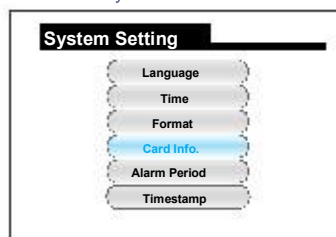


*Choose "Yes" to format SD card

Attention!

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

3.6.4 Memory Card Information



*Check SD memory capacity

3.6.4 Memory Card Information

Card Info	
Total Size	: 30784MB
Used Size	: 98.6%
Remain Size	: 1.4%

*Check card memory

*Press "ESC" to exit

3.6.5 Alarm Period

System Setting	
Language	
Time	Always OFF
Format	10Sec
Card Info.	20Sec
Alarm Period	30Sec
Timestamp	

* Choose alarm ON/OFF, and length

* System outputs a 12V voltage for external alarm devices when motion detection is triggered

3.6.6 Time Stamp

System Setting	
Language	
Time	
Format	
Card Info.	YES
Alarm Period	NO
Timestamp	

* Choose Timestamp ON/OFF

4. Specifications

Specs	Data
Power	12V
Current	260mA-550mA
Sensor	1/3 BONY CCD
TV Lines	420TVL, higher lines customized
Lens	8mm fixed lens(optional)
Infrared leds	35pcs F8 leds
Video output resistant	75Ω
TV system	PAL/NTSC
Record modes	Power-up, manual, motion detection, schedule time record
Video compression	MPEG-4
Video format	ASF
Resolution	704 576 640 576 320 288(selectable)
Frame	30fps(selectable)
Memory support	SD/SDHC
32GB recording time	32hrs-25 days for reference
Remote control distance	3-5 meters
Camera unit size	240*145*110mm
Package size	265*175*155mm
G.W.	1000g
G.W. with bracket	1350g

5. Frequently Asked Questions (F.A.Q.)

Q: DVR cannot read SD card.

A : Please use 1GB to 32GB genuine SD card.

Q: No recorded files can be located on the SD card after the system records.

A: 1. Please check if the SD card works with DVR normally;
2. Please use 1GB to 32GB genuine SD card.

Q: Camera system crashes when it is on.

A: 1. Do NOT remove or insert an SD card when the system is powered on.
2. Please make sure it is a genuine SD card.

Q: Camera does not record video when motion detected.

A: 1. Confirm that "Recording mode" is set 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 the remote's battery is flat and securely connected
2. Connect the camera to the camera and monitor. Press any buttons on remote with the remote LED facing the camera. A light should appear on the monitor from the end of the remote. If no light is visible from the remote on the monitor, place battery in the remote with CR2025.
B. Remote control only works in an open area and when pointed directly at the infrared receiver on the camera.

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