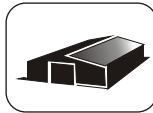




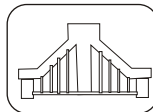
Door Guard



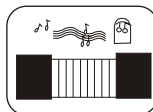
Warehouse



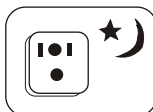
Baby Room



Gate Switch



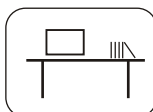
Visitor Door



Night Vision



Inter-com



Office



We are connected by true feeling!

Installation and Operation Manual



8" LCD QUAD MONITOR / DVR COMBO WITH VIDEO DOOR PHONE FUNCTION



LIST

CHAPTER 1 BRIEF INTRODUCTION

1.1 Product overview	1
1.2 Features	1

CHAPTER 2 INSTALLATION GUIDE

2.1 What is included?	2
2.2 Preparation before installation	2
2.3 Hard disk installation	2

CHAPTER 3 OPERATION

3.1 Panel operation	4
3.2 Wiring Interface	6
3.3 Remote Controller	7

CHAPTER 4 BASIC OPERATION

4.1 How to switch on/off	8
4.2 Preview	9
4.3 Recording setup	9
4.4 Recording playback	9

CHAPTER 5 PARAMETER SETTING

5.1 Main menu instruction	11
5.2 Video Management	11
5.3 Alarm setup	15
5.4 Hard drive setup	17
5.5 Miscellaneous setup	18
5.6 Network setup	21
5.7 TFT setup	26
5.8 Reset menu	26

CHAPTER 6 IE CONFIGURATIONS

6.1 Configure and install IE	28
6.2 IE operation	28

CHAPTER 1 BRIEF INTRODUCTION

1.1 Product overview

The device combines latest IT technologies such as video and audio compression / decompression, high-capacity hard disk recording, TCP / IP network technologies.

It adopts stable embedded LINUX operating system, integrates video surveillance recording and video door phone in one unit, 8 Inch color TFT LCD screen makes the visitors' image vivid, Built-in 2.5-inch detachable hard drive, maximum supporting 500G for storing weeks of continuous recording. Elegant touch-key design brings precise reaction and durable performance.

This product is special for villas, small supermarket, small office, kindergartens, etc.

1.2 Features

- 4-Channel DVR: 4-channel CCTV video inputs, 2-channel video door phone inputs, and 1 channel audio input; 1 channel video output and 1 channel audio output.
- Good Video quality and high resolution
- Supports PAL/NTSC system.
- Linux operating system.
Multi-recording modes: continuous recording, motion detection recording and sensor recording.
- Playback through list of events and time search mode.
- Supports Monitor channel hidden.
- Password protection function.
- Remote control / Touch-key operation.
- Remote control / Touch-key operation.
- Supports Max 500G hard drive.
- Support software update.

CHAPTER 2: INSTALLATION GUIDE

Caution: Please make sure to disconnect the power supply before installation!

2.1 What is included?

While opening the box, please check:

Each component is intact without scratches and broken.

All accessories listed bellow are included:

- 1 x Monitor
- 1 x Outdoor camera
- 1 x remote controller
- 1 x power adaptor
- 1 x Monitor stand
- 1 x Mounting bracket
- 1 x User manual
- 1 x 15 meter outdoor camera cable (4 pins)
- 1 x Alarm extension cable (5 pins)
- 4 x BNC connection cable (6 pins)
- 1x Screws bag

2.2 Preparation before installation

1. Fix the mounting bracket on the wall or table before installation.
2. Please ensure for safe operation of the device with required ventilation and keep from humid environment.
3. Make sure there is enough space for all connection cables. Cable bending radius should not be less than 5 times of the cable diameter.

2.3 Hard disk installation

1. Hard disk specification: 2.5 Inch SATA hard disk (maximum 500G).
2. How to install:



1. Hold down the button, move right and open the cover.

2. Insert the hark disk.



3. Make sure the hard disk is completely inserted in correct direction.

4. Close the cover.

Caution: The system will automatically format the hard disk before you start recording.

CHAPTER 3 OPERATION

3.1 Panel operation

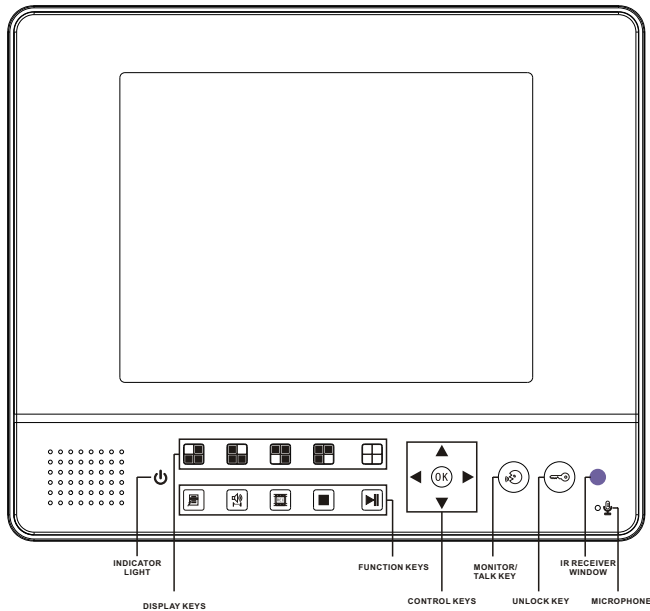


Chart 1: Front panel keys instruction

No.	TYPE	ICON	DETAILS
1	Indicator light		Power indicator, blue light when in working mode.
2	Display keys		Channel 1/ Number key 1: full screen display real time monitor of channel 1.
			Channel 2/ Number key 2: full screen display real time monitor of channel 2.
			Channel 3/ Number Key 3: full screen display real time monitor of channel 3.
			Channel 4/ Number Key 4: full screen display real time monitor of channel 4.
			Quad monitor: display four channels at same time.

3	Function keys		Enter/exit key: enter/exit main menu, save settings when exit
			Audio channel select: switchover audio of a channel to be played on monitor.
			Record key.: press to start recording of preset camera(s)
			Stop key: stop recording/playback operation.
			Play: press to play record.
4	Control keys		Up key
			Down key
			Left/backward key: in playback mode, press to backward
			Right/forward key: in playback mode, press to forward
			Confirm key
5	Monitor/talk key		Monitor outside or talk to visitors.
6	Unlock key		Open the door for visitors.
7	IR Receiver window		Direct to the IR receiver when you use remote controller.
8	Microphone		When door phone is in use, talk to visitors through the microphone.

3.2 Wiring Interface

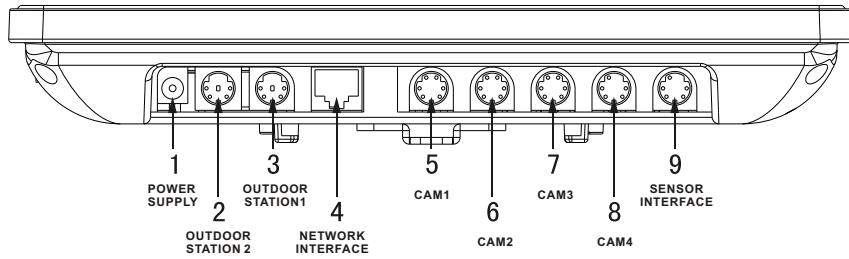
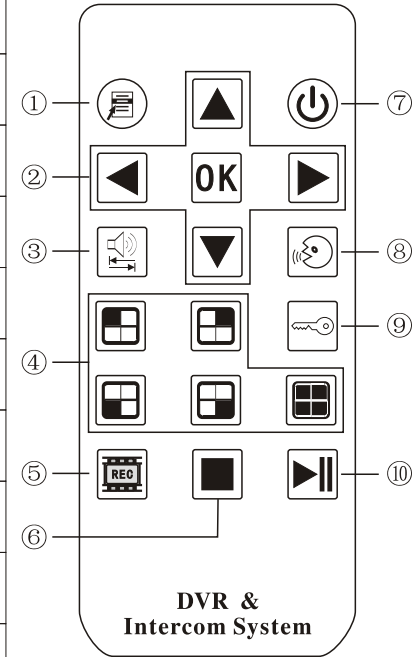


Chart 2: Wiring interface instruction

1	Power supply	DC 12V/14V
2	Outdoor station 2 interface	Connect to outdoor station 2, 4 pin S-Terminal.
3	Outdoor station 1 interface	Connect to outdoor station 1, 4 pin S-Terminal.
4	Network interface	Connect to the internet.
5	Camera 1 interface	Connect to Camera 1, 6-pin S-Terminal.
6	Camera 2 interface	Connect to camera 2, 6-pin S-Terminal.
7	Camera 1 interface	Connect to camera 3, 6-pin S-Terminal.
8	Camera 1 interface	Connect to camera 4, 6-pin S-Terminal.
9	Sensor interface	Connect to external sensor and alarm devices, 5-pin S-Terminal.

3.3 Remote Controller

NO.	NAME	ICON	OPERATION
1	Menu key		Enter/exit menu
2	Direction/confirm keys		Up
			Down
			Backward
			Forward
			Confirm
3	Audio channel select key		Switchover audio of a channel
4	Display keys		Channel 1/ number key 1
			Channel 2/ number key 2
			Channel 3/ number key 3
			Channel 4/ number key 4
			Quad monitor
5	REC key		Record
6	Stop key		Stop
7	Monitor display off key		Turn off monitor display
8	Monitor/talk key		Monitor / talk
9	Unlock key		Unlock
10	Play key		Play



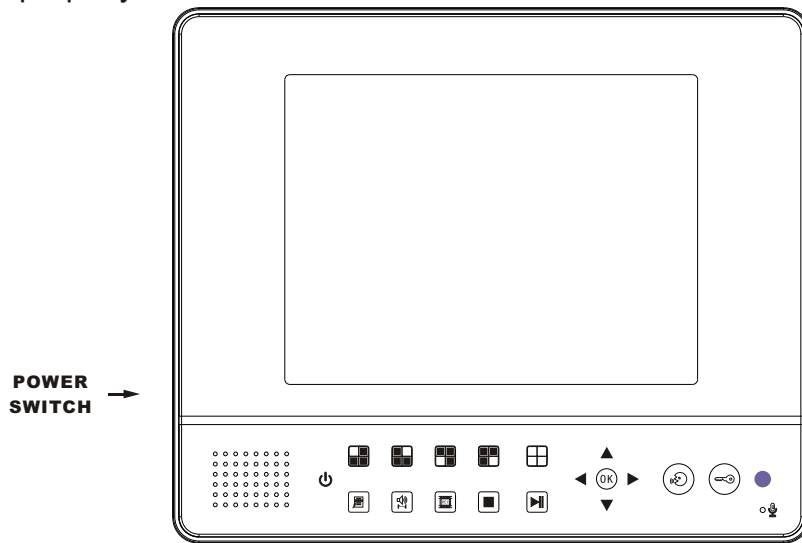
CHAPTER 4 BASIC OPERATION

4.1 How to switch on/off


1. Switch on

Push the power switch on the left side of the indoor unit, the monitor will start.

Note: The monitor shows quad monitoring at startup as default mode. If the time is within schedule recording time, the system will automatically start the schedule recording function, and then the system will continue to work properly.



2. Switch off

Press the stop key  to turn the system in stop recording mode, and then push the power switch on the left side of the indoor unit. The system stops running.

3. Power failure recovery


If the DVR is in recording mode and the system power is cut or shut off, after regaining of power supply, the DVR will automatically save the video before the power loss and automatically return to the working mode before power loss, and then continue working.

4.2 Preview




After the normal booting of the device, the monitor enters the preview screen. In the preview screen you can see the date, time, channel number, channel recording mode, as shown:

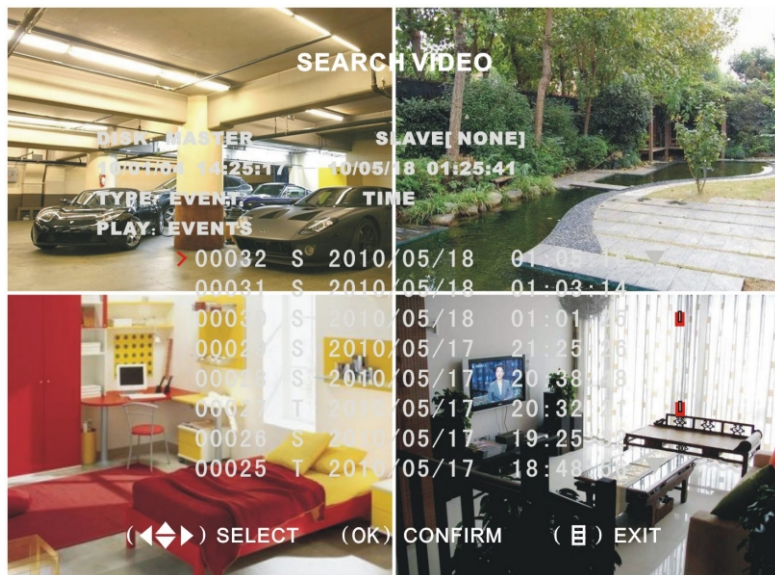


4.3 Recording setup

When in stop recording mode, press  to enter the main menu. You can make related settings to the "CAMERA SETUP", "RECORDING SETUP", "RECORDING FRAMERATE", "VIDEO QUALITY" and "RECORDING SCHEDULE".

4.4 Recording playback

Use the keys on remote controller or indoor unit panel; press the stop recording key , then press the play key , the system will automatically play the latest video clip. Press the menu key  to select different events for playback.

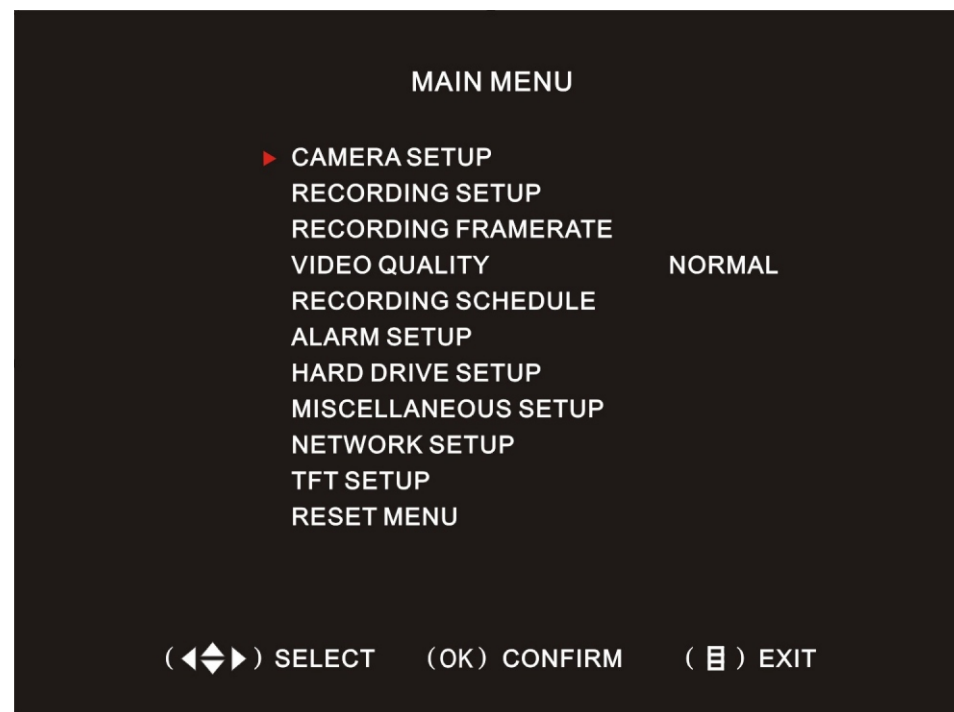


In the event list, you can press ▲ or ▼ to select from different events, and press ▶ to play, in which S stands for those activated by CCTV cameras, T stands for those activated by outdoor unit, and 🚫 stands for power failure log. Enter "SEARCH VIDEO" menu, press ⏏ you can to exit the menu, and return to quad display.

Chapter 5 Parameter Setting

5.1 Main menu instruction

Under the stop recording mode, push the button ⏏ either on the monitor or the remote controller, then shows the following screen:

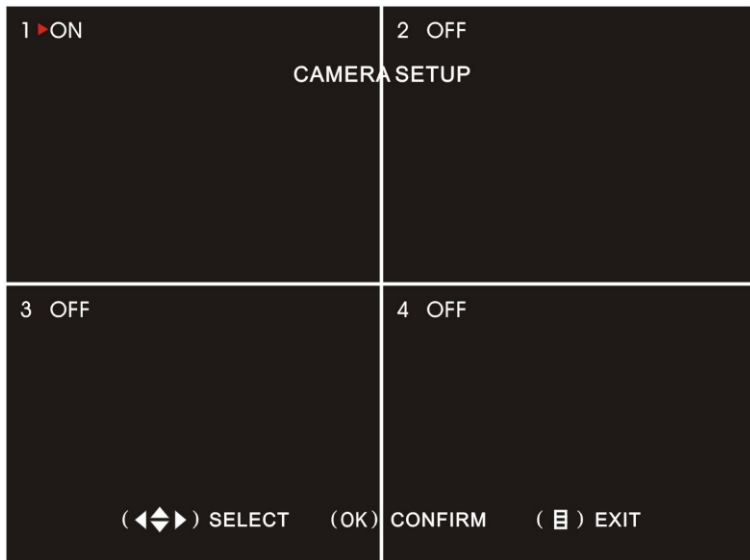


The following is the introduction on sub-menu functions.

5.2 Video Management

5.2.1 CAMERA SET UP

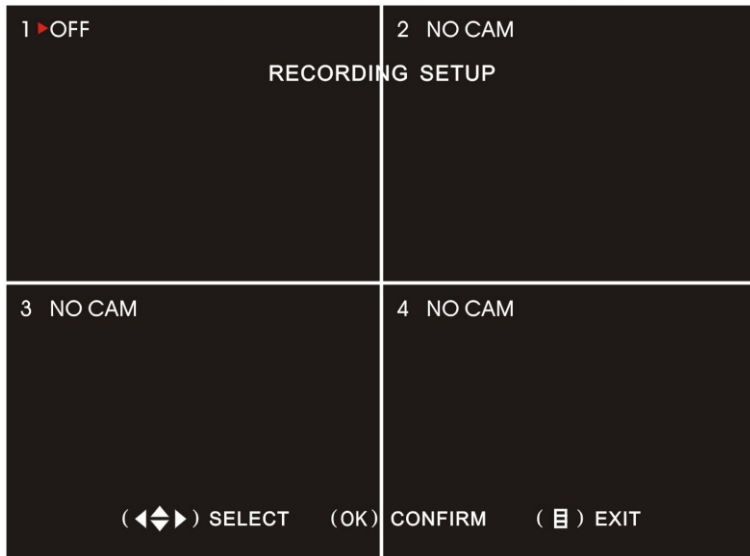
Each channel can be set separately on or off. If set to off, the corresponding screen goes black, the screen does not display image of the channel. The corresponding video recording function is closed. When re-open the channel, you need to enter the camera setup to turn on the same channel before recording, as shown in bellow picture:



Method: push the button ▲、▼、◀ or ▶, to put ▶ to the channel to be set, and then, push [OK] to set the channel “ON” or “OFF” .

5.2.2 RECORDING SETUP

Each channel can be set separately to record video or not, if it is set to “OFF” , the screen will continue to show channel pictures, but not for recording.



Method: push the button ▲、▼、◀ or ▶, to put ▶ to the channel to be set, and then,

push [OK] to set the channel recording “ON” or “OFF” .There are three options: “OPEN” , “OFF” , “NO CAM” .

5.2.3 RECORDING FRAMETRATE

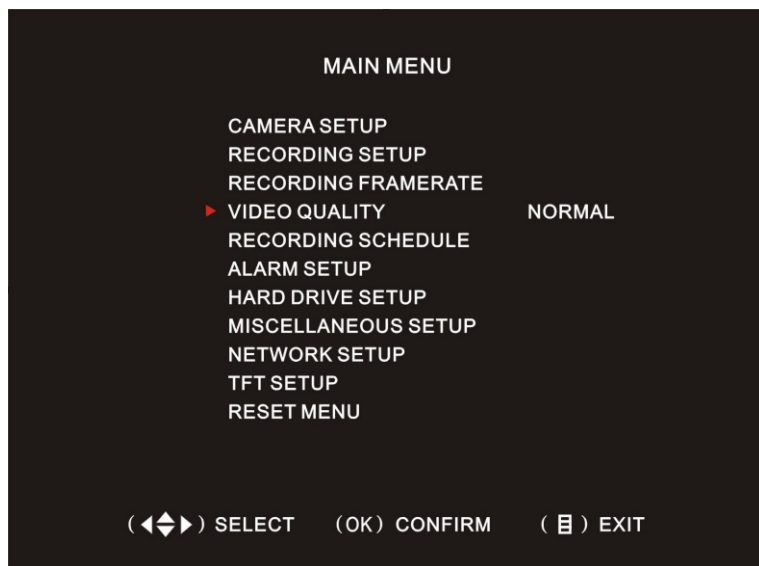
Frame rate of each channel can be separately set 1,2,3,4,5,6,7,8,9,12,16,25 FPS / sec. For PAL system, the total frame rate is 50 FPS; for NTSC system, 60 PFS. In the case of PAL system, the average per channel is 12PFS. If a particular channel’ s frame rate is set to more than 12PFS, the additional f rame rate needs to be borrowed from other channels.



Method: push the button ▲、▼、◀ or ▶, to put ▶ to the channel to be set, and then, push [OK] to set the channel .

5.2.4 VIDEO QUALITY

The setting of video recording quality has 3 selections: “HIGH” ,” NORMAL” and “LOW” .The higher grades, the better video recording quality, also with the bigger capacity of video file occupying the hard disk space.



Method: push the button ▲、▼、◀ or ▶, to put ▶ to the channel to be set, and then, push **OK** to set the required video quality .

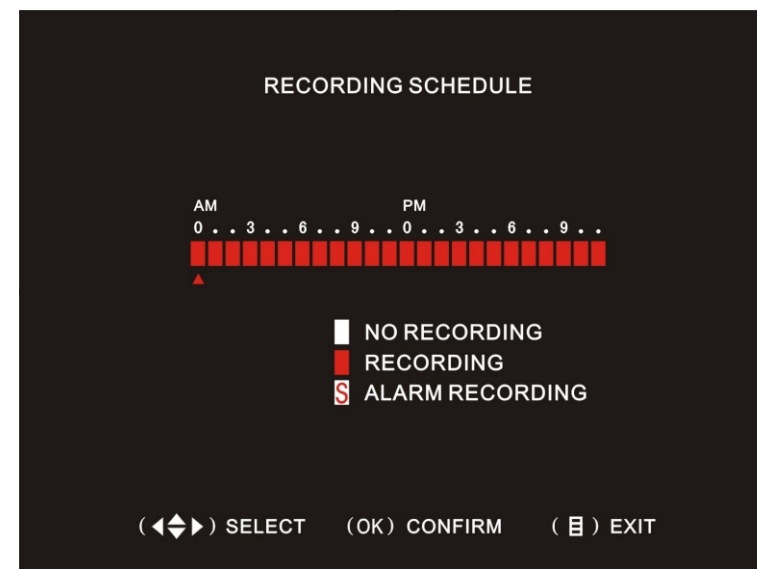
5.2.5 RECORDING SCHEDULE

The “**RECORDING SCHEDULE**” has 3 options: “**NO RECORDING**” , “**RECORDING**” and “**ALARM RECORDING**” .It can be set to each hour in 24 hours.

NO RECORDING: Set to this mode will not record;

RECORDING: Set to this mode will record normally;

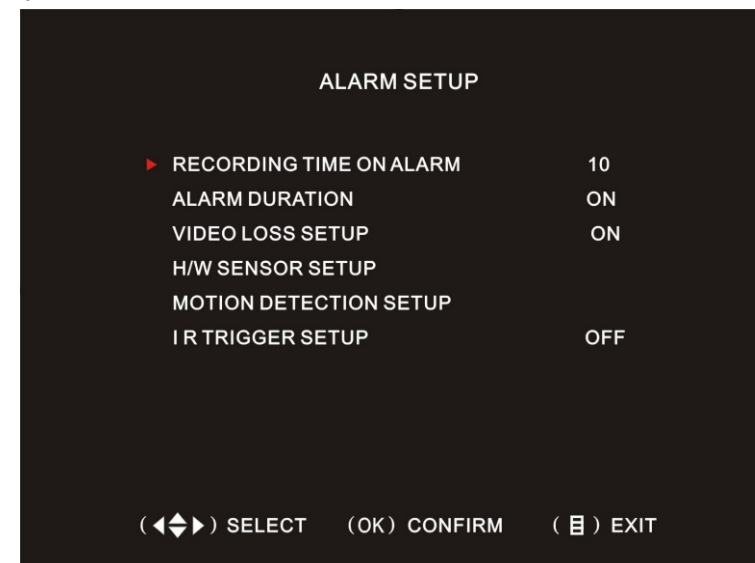
ALARM RECORDING: This mode for motion detection recording and alarm recording.



Method: push the button ▲、▼、◀ or ▶, to put ▶ to the channel to be set, and then, push **OK** to set the recording mode during this period.

5.3 ALARM SETUP

This setting is for the circumstances when system detects triggering events during operation, and the reactions to these events.




RECORDING TIME ON ALARM: when a triggering event encountered, the system

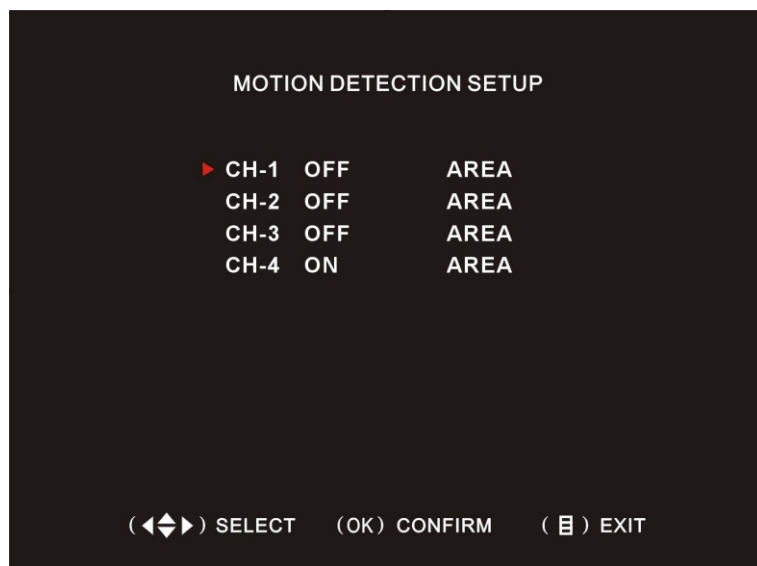
will automatically record the corresponding channel. The recording time has six options: 5, 10, 15, 20, 25, 30, the system will stop recording if during the channel recording time no triggering event occurs again.

ALARM DURATION: when there is an alarm signal, select one of the following options (OFF, ON) 5, 10, 15, 20, 25, 30. Selecting OFF will not alarm; selecting ON, the buzzer will keep alarming until manually shut off (press any key to stop);

VIDEO LOSS SETUP: During the monitoring process, if the video cable connection is not good, the indoor unit will alarm with sound. There are "ON" and "OFF" optional.

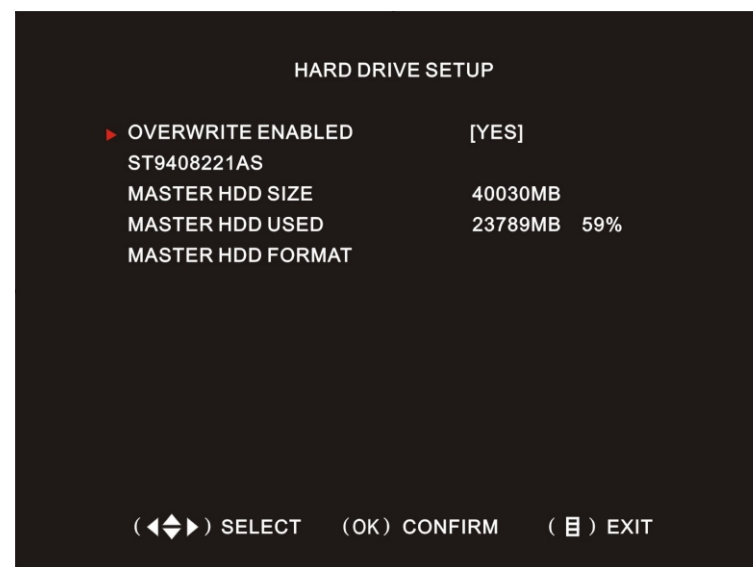
H/W SENSOR SETUP: when there is an external alarm sensor, if the sensor is triggered, the system will record via the corresponding camera. The indoor unit will alarm with sound (if connect to external alarm device, the system can also drive the alarm). The system can connect to two ways of alarm sensor inputs.

MOTION DETECTION SETUP: each channel has "ON" and "OFF" optional. Four sensitivity levels can be selected on each area. The sensitivity increases with the number rising. The level of sensitivity can be adjusted by pressing .



5.4 HARD DRIVE SETUP

This menu includes: overwriting, hard disk information and formatting settings.




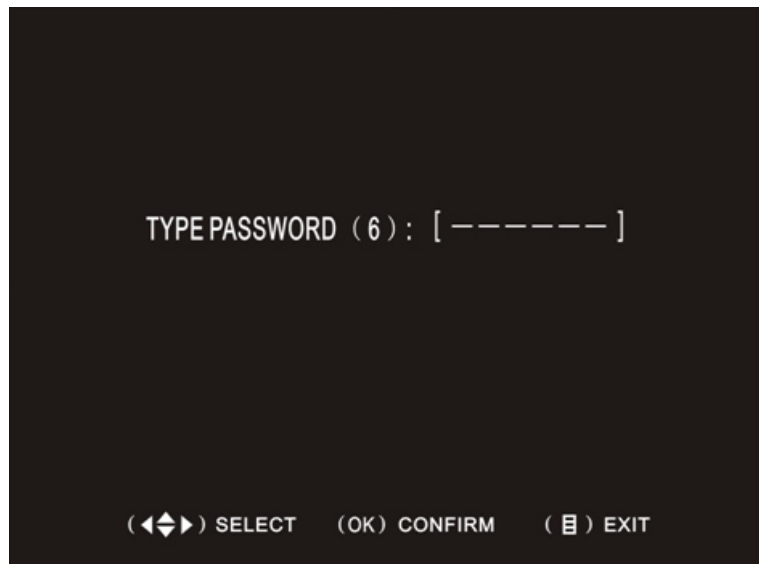
OVERWRITE ENABLED: When set to **【YES】**, if disk storage is full, it will automatically overwrite.

ST9408221AS: The current information of hard disk.

MASTER HDD SIZE: The capacity of current hard disk.

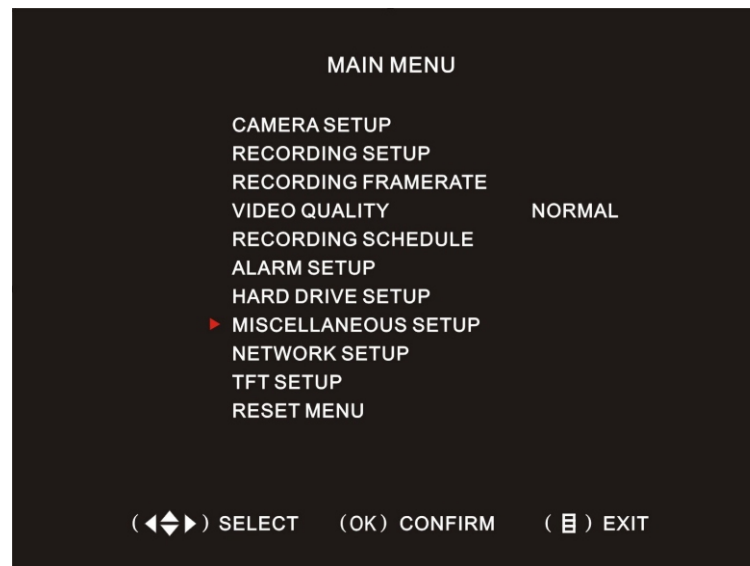
MASTER HDD USED: the occupation of hard disk space, displayed in percentage.






MASTER HDD FORMAT: Format the current hard disk; the system default password is 111111 (press  6 times)

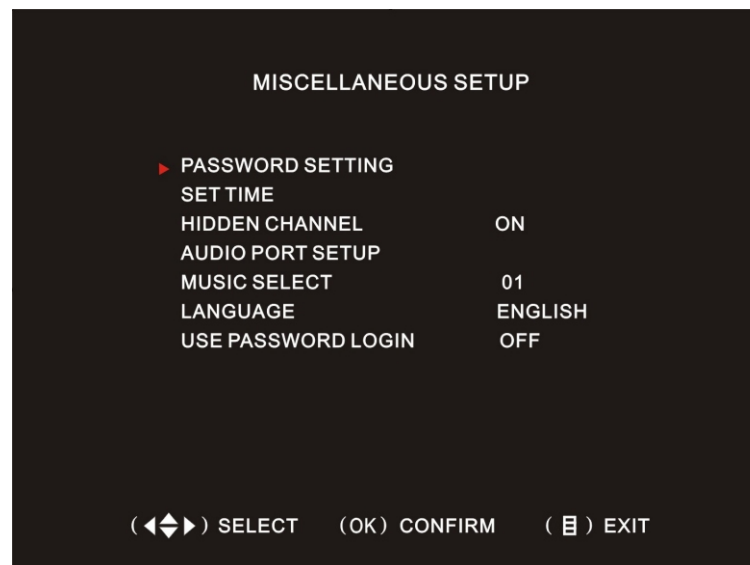




5.5 Miscellaneous setup

This will set system-related issues, including **PASSWORD SETTING**, **SET TIME**, **HIDDEN CHANNEL**, **AUDIO PORT SETUP**, **MUSIC SELECT**, **LANGUAGE** and **USE PASSWORD LOGIN**, etc.



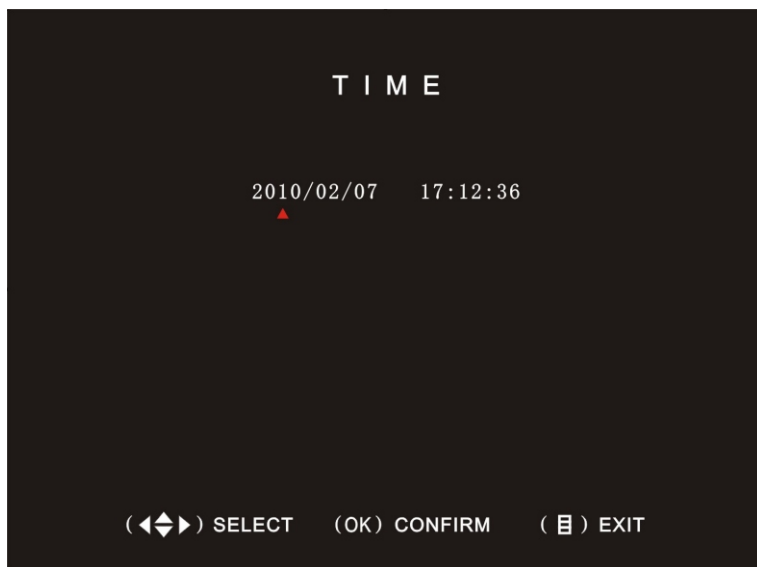
PASSWORD SETTING: system password can be set,  stands for 1,  stands for 2,  stands for 3,  stands for 4. The system default password is 111111 (press  six times).



Method: move  to the “**PASSWORD SETTING**” and then push  to enter sub-menu. Input old password (default is 111111), and then input “NEW

PASSWORD” and “CONFIRM NEW PASSWORD” . If input error, press ◀ to delete.

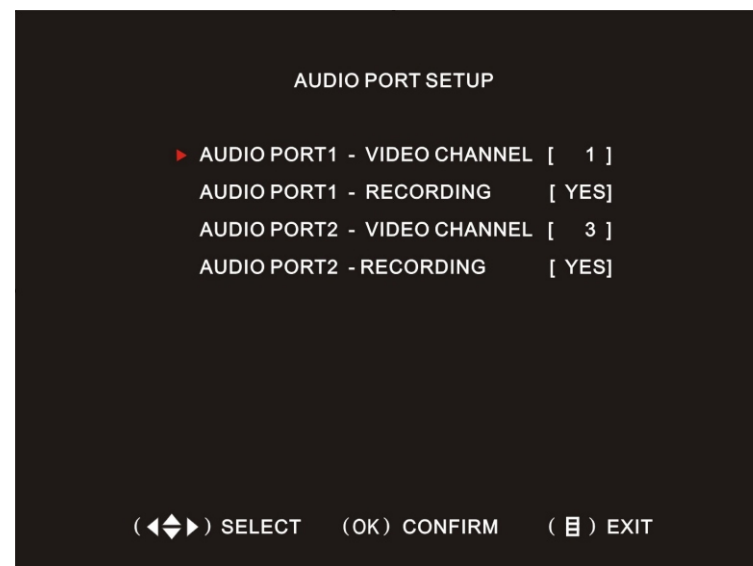
TIME: Set the system time.



Methods: press ◀ or ▶ to move ▲ to the digit you want to adjust, and then press [OK] to change the numbers.

HIDDEN CHANEEL: To set a certain channel to be shown on the screen or not. However, under the recording mode, the hidden channel can still be recorded. There are 5 options: "OFF", "1", "2", "3" and "4"

AUDIO PORT SETUP: 2 ways of audio ports can be set. Setting the **RECORDING OFF** can select for audio to be recorded or not.



For example: All the four cameras have audio input. Now need to set channel 1 and channel 3 to save the audio around.

Methods: Move ▶ to "Audio Port 1", then press [OK] to select channel 1.
Press ▼ to move ▶ down to next line
Set "AUDIO RECORDING" to "YES".
Move ▶ to "Audio Port 2", then press [OK] to select channel 3.
Press ▼ to move ▶ down to next line
Set "AUDIO RECORDING" to "YES".

Setting finished.

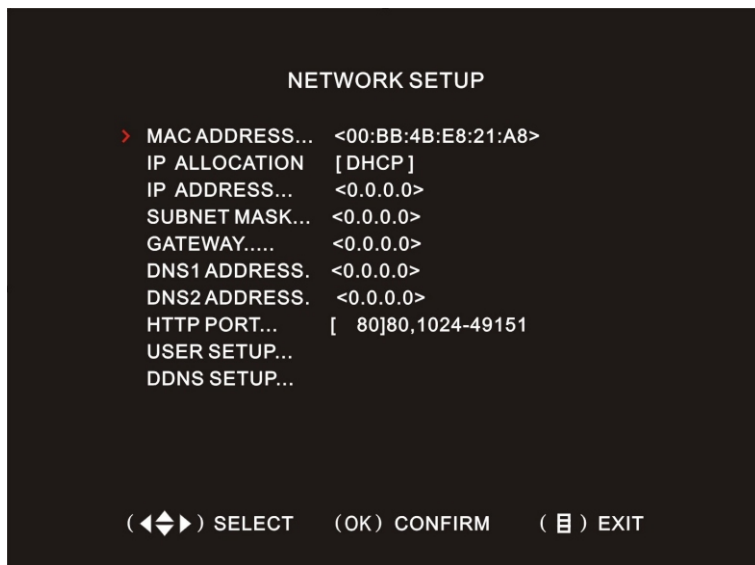
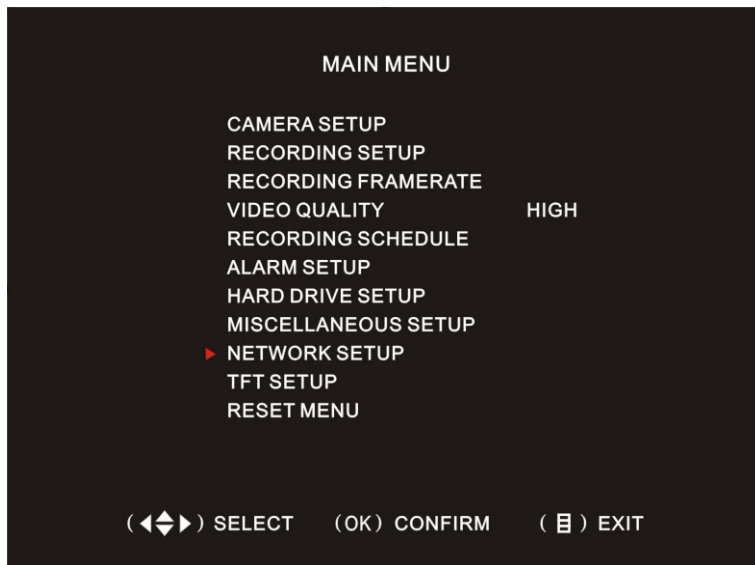
MUSIC SELECT: This will set the ringing melody of the indoor unit when calling from outdoor station. There are total 9 options, of which 00 is silent.

LANGUAGE: The default languages are Chinese and English.

USE PASSWORD LOGIN: Default setting is “OFF”

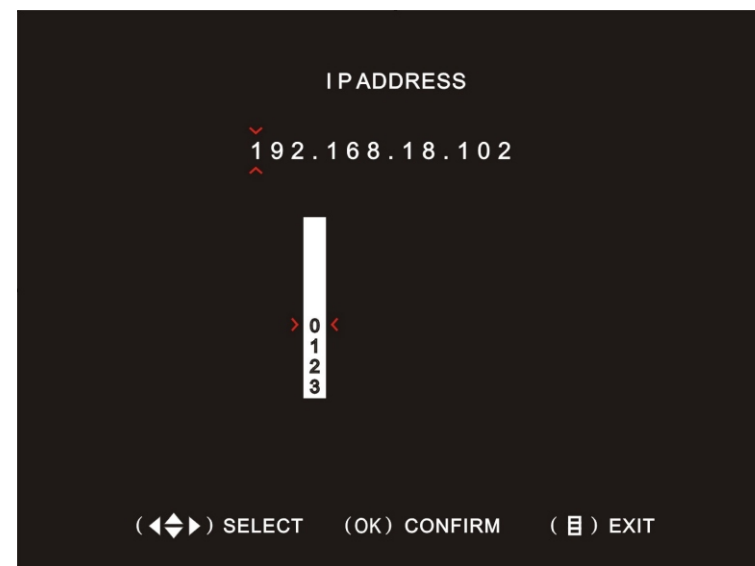
5.6 NETWORK SETUP

Press [Menu] on the remote controller to enter into the main menu
Use arrow keys ▲ and ▼ to select “NETWORK SETUP” menu, press [OK] to confirm, and enter into the “NETWORK SETUP” screen.



IP Type: Support two kinds of IP, DHCP (dynamic) and STATIC (static), if DHCP is enabled then IP address will be obtained through the DHCP server automatically. If selecting STATIC, then you will need to manually set IP address, subnet mask, and gateway.

IP ADDRESS: Setting IP address



Using the keys ▲ and ▼ to select the numbers, left and right keys to select the digit you need to set up, press [OK] button to confirm. Then press [⏏] to save and exit.

SUBNET MASK: Set the subnet mask

GATEWAY: Set the gateway

DNS ADDRESS1: DNS address1 setting

DNS ADDRESS2: DNS address2 setting

HTTP PORT: Setting protocol port for network access, the default value is 80, changeable 1024-49151.

USER SETUP: there are 2 types of user IDs provided for network access, one is "ADMIN ID", with full operating rights; the other is "USER ID", whose right is only preview the image.

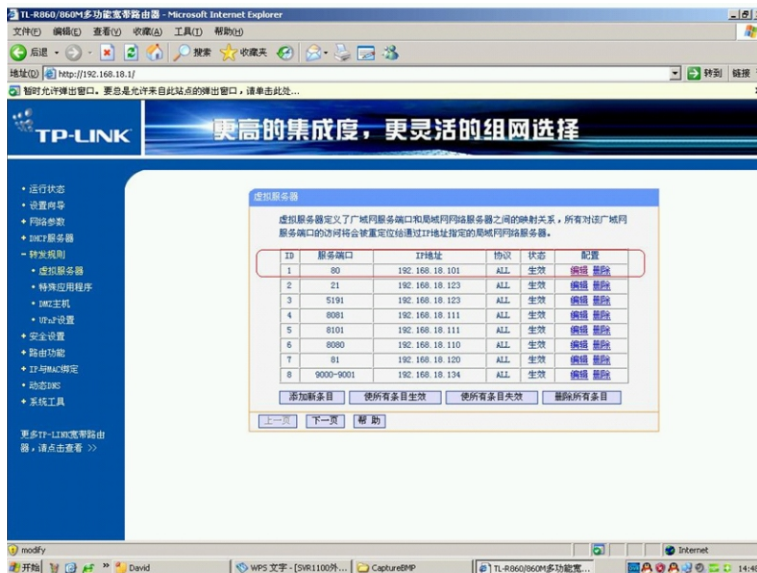
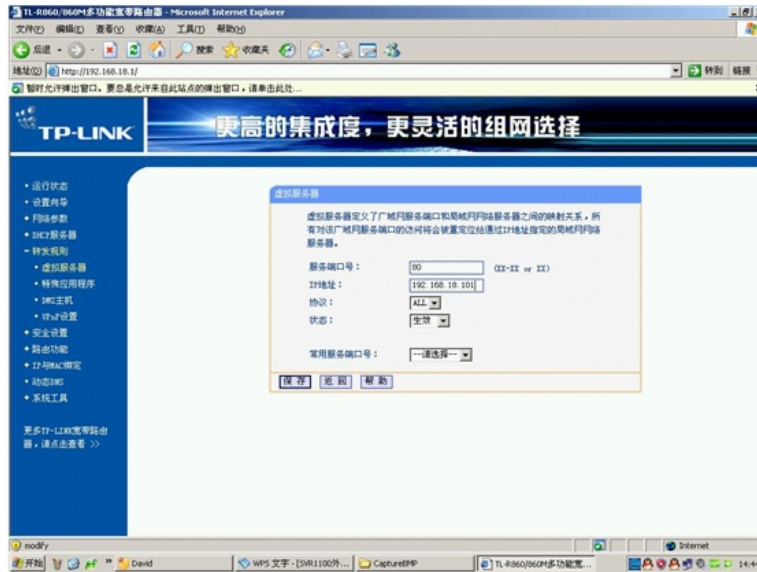
DDNS SETUP: To set up Dynamic Domain Name Service. You will need to register from the DDNS ISP service provider, and then set according to the registration information.

Note: All the IP address, subnet mask, gateway, DNS1 can be obtained from the computer (**connected to the same router**) by typing **“ipconfig /all”** in the command line.

1. Opening port

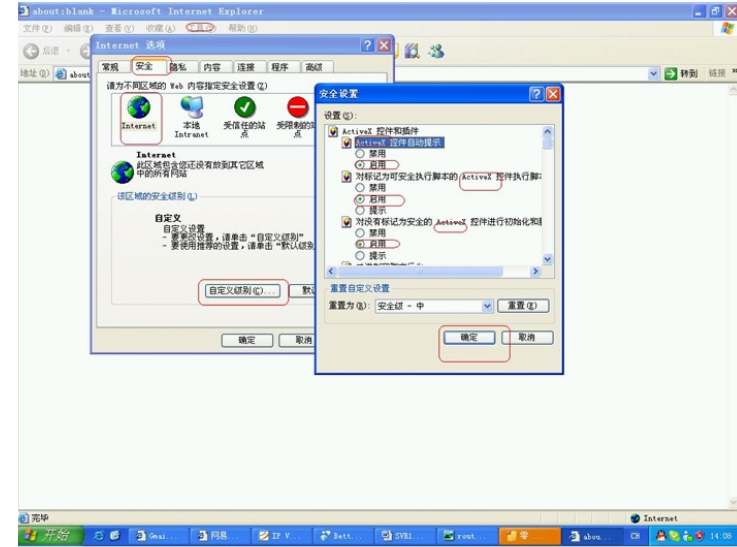
1. Opening port

This is to open web access port from the router. Opening port on different types of routers will be in different ways. For a specific router, please contact the vendor to get details. Here is an example to open ports on a TP-Link router:



2. IE ACCESS:

After opening port, open an IE browser process, select "Tools" - "Internet Options" - "Security" - "Internet" - "Custom Level". In the popup window, open all the ActiveX plug-ins and controls.



After opening ActiveX controls, refresh IE browser and enter the access address in the Address bar: `http://IP: [port]` to visit SVR host, as shown below:

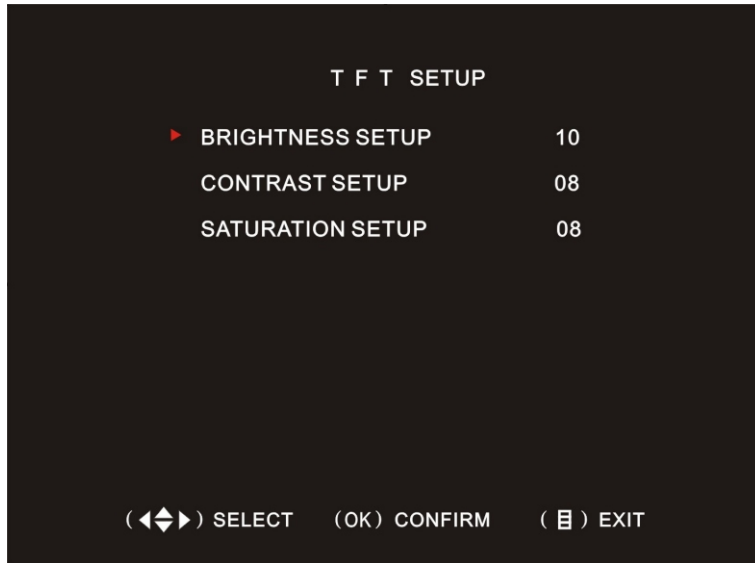


Note:

- A. You can access directly via LAN address if in LAN. WAN IP is needed for WAN access. The port number can be omitted when using the default port 80, for example http://192.168.18.101.
- B. First visit will be prompted to install plug-in, select "Yes" to install it.

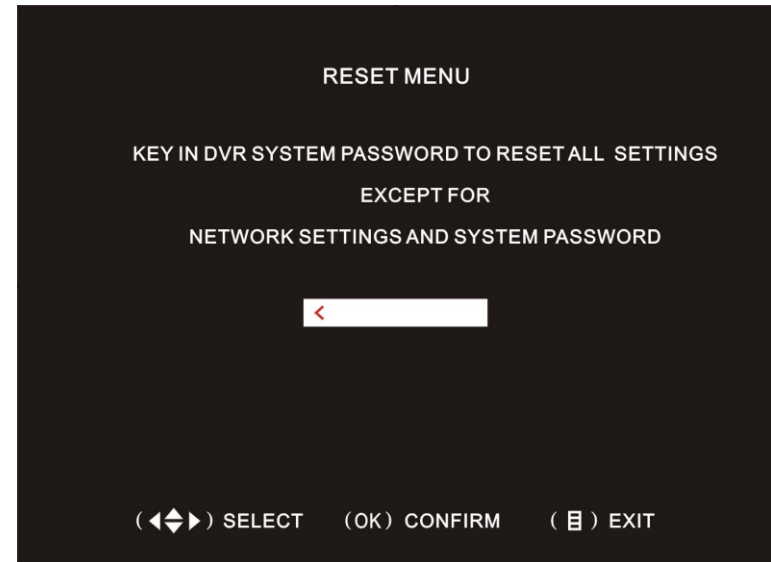
5.7 TFT SETUP

The three options: BRIGHTNESS SET UP, CONTRAST SET UP AND SATURATION SET UP can be adjusted, in which each of the adjustable range is from 0 to 30.



5.8 Reset menu

Input DVR system password, to reset all settings to factory default except for the network setup and system password. The default password is press 111111 (i.e. press ⏏ six times).

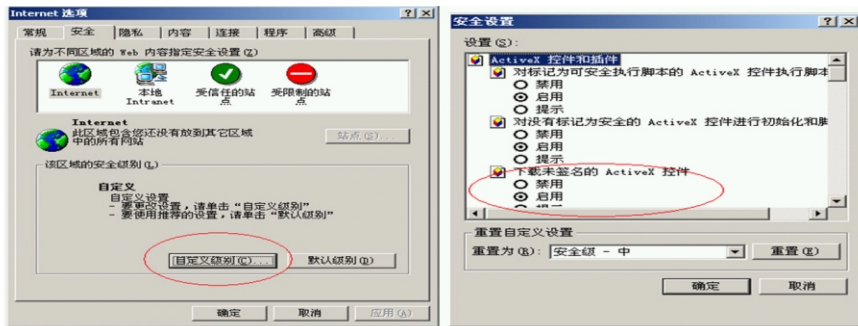


CHAPTER 6 IE CONFIGURATIONS

6.1 Configure and install IE

Note: you must configure IE security settings before remote viewing, detailed steps are as follows:

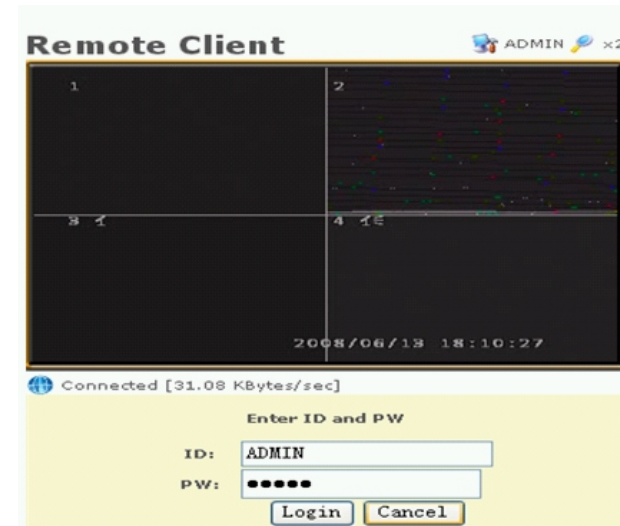
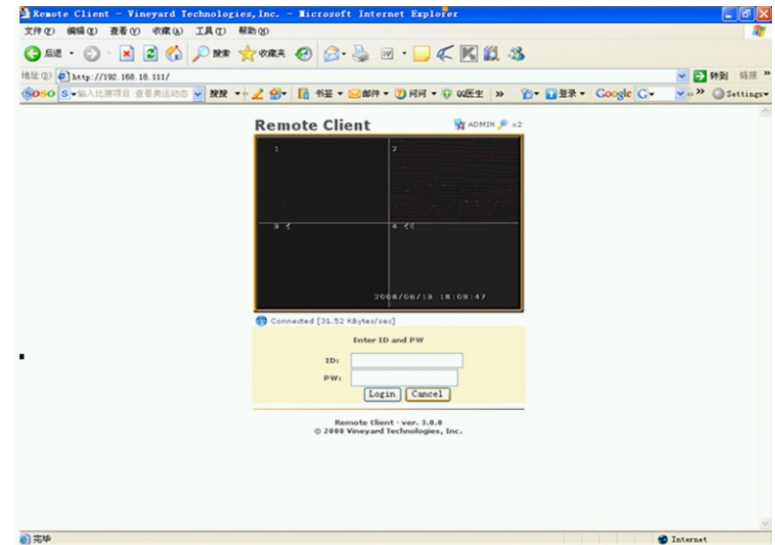
- 1) Right click the "Internet explorer" icon on windows desktop, in pop-up menu; select "Properties" to enter the Internet Options window as shown below:



- ① Click on the Custom Level button, entering the Security Settings window to download unsigned Active X controls
- ② Click the OK button to finish the IE security settings
- ③ After IE security is configured, you can now monitor from remote through IE.

6.2 IE operation

- 1) Open an IE browser, input the indoor unit's IP address, and then download plug-ins in the pop-up page. Installation will begin automatically after downloading. If the plug-ins does not begin to download automatically, please click "Download" in "If the plugin can not download, click here", when the download is finished, double click to installation.
- 2) After the plug-in installation, it will pop up the following screen. If not, please close and restart IE then input the network address correctly.

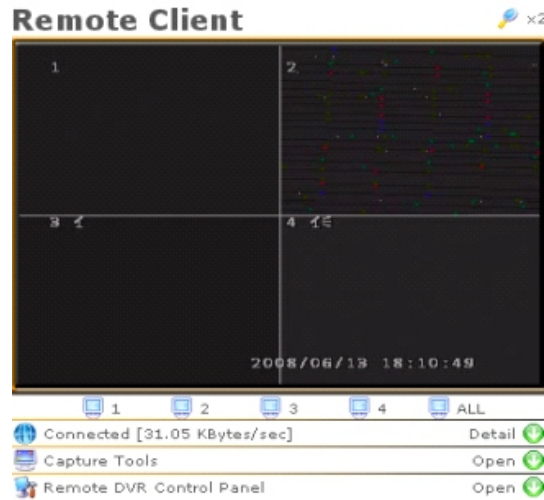


Click ADMIN, then appears the user name input box as the left picture, enter the user name and password: user name and password are considered as ADMIN.

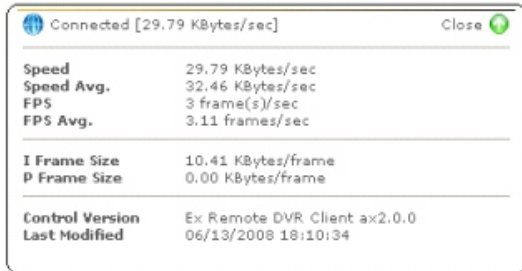
Note: The user name and password are all capital letters.

Click  x2 to enlarge 2 times for the preview screen.

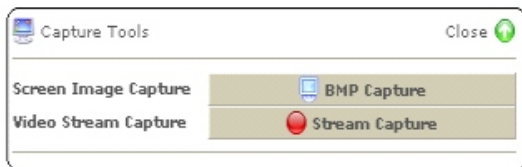
Login window



- **Connected:**
Display system connection status
- **Capture tools:**
Control the image capture and recording functions.
- **Remote DVR Control Panel :**
DVR Control



Connecte: Displays the current connection status and the data transfer rate










Capture tools: image capture and video stream capture through functions on the left, and then store on the PC




- **Remote DVR Control Panel :**
The functions that Listed on the left are same to realize as on the indoor unit, you can also control the indoor unit through

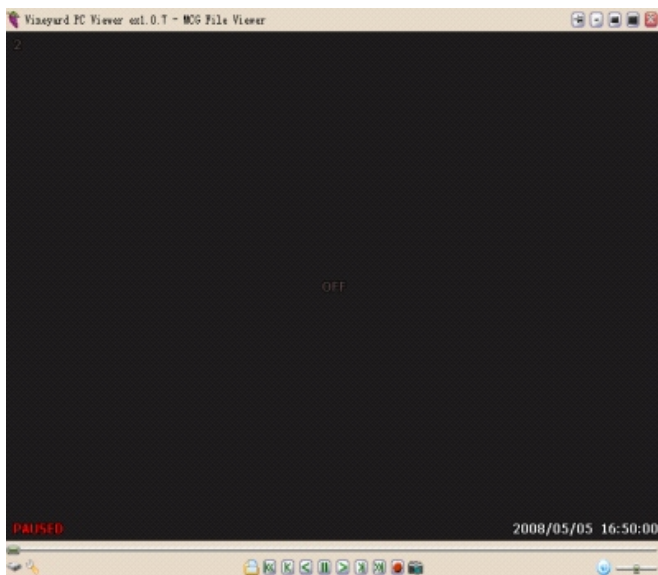
The left side ' s functions.









 Record/Playback	Record/playback	 Input Camera	Camera setup
 Record Camera	Recording setup	 Record Setting	Video quality
 Frame Rate Status	Recording framerate	 Schedule	Recording schedule
 Hard Disk Status	Hard drive setup		

PLAYER SOFTWARE

The format of saved files is .MCG and requires special software to play. Explore the CD attached with the product; open the software  to play the saved files.

How to operate?



	Open file		Play
	Fast rewind		Fast forward
	Reverse playing		Snapshot
	Pause		Sound on / off, volume control

Notice:

- Due to continuing improvements, the features and design are subject to change without notice.
- This manual is only intended for reference. No further notice is available to any modification of all information contained therein.
- For the imprecision, mistake or misprint in the manual, will be explained by the producer only.