

Analog High Definition DVR

Stand alone digital video recorder

User Manual

H.264 AHD DVR

WARNING

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.
- All the safety and operating instructions must be read before the unit is operated.

PRECAUTION

- Make sure to switch the power off before you install the DVR.
- Avoid using the DVR outside of the reference temperature and humidity indicated in the specification.
- Avoid exposing the DVR to violent movement or vibration.
- Do not use or store the DVR in direct sunlight or near to any source of heat.
- Do not place any object into the holes used for air circulation.
- Always use the DVR in the well ventilated location to prevent overheating.
- Do not disassemble or reassemble the product.
- There is the danger for DVR if it is repaired by an unqualified service engineer or installer.
- Video input must be from AHD camera.

POWER SUPPLY

- Please use the provided adaptor of manufacture. Please select the correct voltage and power if using other adaptor.
- Keep the adaptor and power cord dry and protect from humidity.
- If machine won't use for long time, please remove the connection of power adaptor.

FEATURES

- Non-pc stand-alone security AHD digital video recorder with embedded operation system
- H.264 compression format, real time record and playback
- 1280x720(720P) resolution with real time 25fps(PAL) and 30fps(NTSC) frame
- Simultaneous recording, playback and network view
- Search/Playback modes: time/date search and file search, 4/8-CH 720P real time playback
- Recording modes: always recording, manual recoding, schedule recording and motion detection recording
- Backup modes: network backup, USB backup, support AVI
- Synchronous VGA and HDMI output, resolution up to 1920×1080
- NTSC and PAL video system
- Auto sequence display mode
- RS-485 PTZ for speed dome camera
- Operated by USB mouse and infrared remote controller
- TCP/IP, DHCP, PPPOE, 3G network, support P2P cloud service
- FTP, EMAIL, NTP, UPNP and DDNS, build in a free privacy DVR DDNS
- 3G USB module for network connection
- Mobile system: IOS, Android, Blackberry, Symbian and Windows Mobile
- CMS, NetViewer and Web browser for remote management
- Zoom/Hide/Cover for both live and playback viewing
- Multi-lever user management
- Multi languages
- Firmware upgrade

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4 WEB OPERATION

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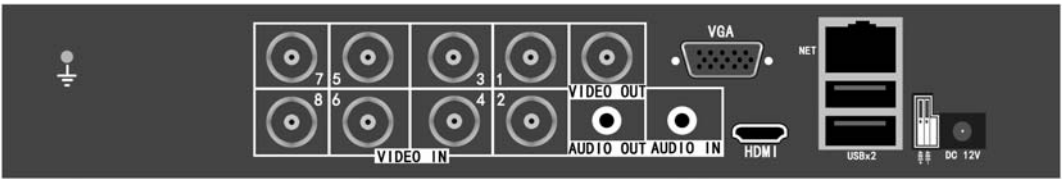
7 SPECIFICATION

1 OVERVIEW AND CONTROLS

1.1 Front Panel

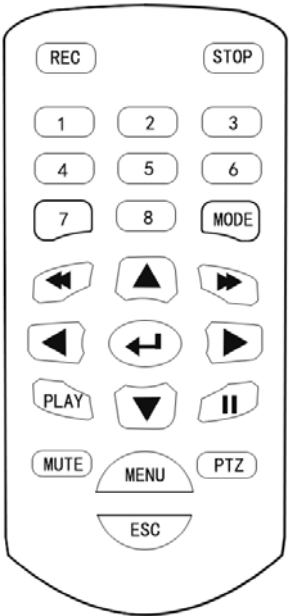


1.2 Rear Panel



No	NAME	FUNCTION
1	VIDEO IN	AHD video input
2	AUDIO IN	Audio input
3	VIDEO OUT	Video CVBS output
4	AUDIO OUT	Audio output
5	VGA	VGA output
6	HDMI	HDMI output
7	NET	RJ45 connector for network
8	485	RS485 port
9	USBx2	2 USB ports
10	DC 12V	Power supply connector from adaptor
11	⊥	Ground

1.3 Remote Controller



NAME	FUNCTION
1-8	Input channel, password. Switch channel
REC	Start/stop manual recording
STOP	Stop and exit playback
MODE	Switch the display mode
▲▼◀▶	Select a icon on the bottom status bar in live viewing mode or playback control bar in playback mode
	Move the cursor on the setup menu
	Move the cursor to select icon on the PTZ menu
↵	Confirm and enter
◀◀	Various backward speeds of playback
▶▶	Various fast forward speeds of playback
PLAY	Play for playback
	Pause for playback
MUTE	Turn off audio
PTZ	Enter PTZ operation
MENU	Go to menu
ESC	Go to previous menu or cancel current operation

1.4 Mouse Control

Left click mouse	Select one menu item or implement the control operation
Double left click mouse	Switch between one full channel and multiple-window in live viewing mode and playback mode
Right click mouse	Go to main menu or go to previous menu in live viewing mode. Show/hide the bottom status bar in playback mode
Turn middle button	Switch the items in the check box. Increase or decrease numeral value in the PTZ operation. Increase or decrease volume.
Move mouse	Select current control or remove control
Drag mouse	Select motion detection zone. Select privacy mask zone. Select the zone to zoom in.

2 OPERATION

2.1 Power On

2.1.1 After properly installed HDD and all the cable connections, connect provided power adaptor to switch the power of DVR on.

2.1.2 The DVR will be asked to format HDD when using HDD first time. Select HDD format after system booted up.

















2.1.3 The DVR will be asked to enable P2P cloud service when connecting network first time. Select OK to get UID automatically, enable DHCP and P2P.

2.2 Live Viewing

2.2.1 The system is in live viewing mode after it booted up. Double left click mouse on one channel to view full of this channel. Double left click mouse again to go back to multiple-window mode.

2.2.2 In live viewing mode there is a status bar on the bottom of viewing. It needs to log in before click left mouse on the icons on the status bar.



	Menu	Go to menu
	Lock Status Bar	Keep showing status bar
	Unlock Status Bar	Not show status bar after 15 seconds
	Display Mode	Switch the display mode
	Start Auto Sequence	Start auto sequence function
	Stop Auto Sequence	Stop auto sequence function
	Set Color	Set video brightness, contrast, hue, saturation and sharpness
	Zoom In	Zoom in the selected zone of one channel video
	PTZ	Enter PTZ operation menu
	Set Volume	Set the live viewing volume
	Manual Recording	Start or stop manual recording
	Search and Start Playback	Go to the search menu for playback
	HDD Usage	Usage rate of HDD
	No HDD	No HDD
	Mobile	Connected mobile number. Not show if no mobile connected
	Network	Connected network user number. Not show if no network user connected.

2.2.3 In live viewing mode there are some characters displayed on the each channel.

L	Video loss
M	Motion detection alarm
R	Recording

2.3 Login

It needs login first when go to menu and operation. System consists of three accounts.

User name	Password	Description
admin	admin	Administrator user. Can add new user, change password of administrator user, delete users and change operating authority of other users.
1		Normal user. It has same authority with administrator user for operation but can not add new user, change password of administrator user, delete users and change operating authority of other users.
user		Hidden default user is for system interior use only and can not be deleted. When there is no login user, hidden user automatically login. It has lower authority.

2.4 Zoom In

Switch to a full channel. Click the mouse on the ZOOM IN icon on the status bar to enable ZOOM IN function. Keep pressing the left mouse button and drag it to select zoom area. After release the left mouse button it will zoom in the selected image. Right click the mouse to return back the normal image. Double click the mouse to exit ZOOM IN function.

2.5 PTZ

2.5.1 Switch to a full channel. Before operate PTZ, make sure PTZ and decoder connection is right, decoder address setup is right, decoder A(B) line connects with DVR A(B) line and DVR PTZ menu setup is right. Click the mouse on the PTZ icon on the status bar to show PTZ interface.

2.5.2 Click direction arrows to adjust PTZ position. There are total 8 direction arrows. Click + and – icons to adjust zoom, focus and iris.

2.5.3 Click on AUTO PAN button to enable PTZ AUTO control function. Click on AUTO PAN button again to exit PTZ AUTO control function.

2.5.4 Move the cursor to SPEED frame, turn the middle button of mouse to set the pan/tilt speed from 1 to 8.

2.5.5 Move the cursor to any place except SPEED frame and turn the middle button of mouse to make the PTZ menu transparent.

2.5.6 Click PRESET icon to display PTZ PRESET menu and enter PTZ preset function setting mode.

2.5.6.1 PRESET

- a. At the PTZ PRESET menu, move the cursor to the PRESET frame. Turn the middle button of mouse to set PRESET number to 1. Click on the SAVE PRE button to save current PTZ position to 1.
- b. Click on CANCEL button or right click to exit PTZ preset function and return to PTZ operation mode. Click on the direction arrows and zoom, focus, iris icons to control PTZ to a desired position. Enter PTZ PRESET menu again and set PRESET number to 2. Click on the SAVE PRE button to save current PTZ position to 2. Using the same way to save other PTZ preset positions.
- c. At the PTZ PRESET menu, select PRESET number to 1 or other PTZ position number you wish to load. Click on the LOAD PRE button to move PTZ to selected preset position.
- d. At the PTZ PRESET menu, select PRESET number to “1” or other PTZ position number you wish to delete. Click on the CLR PRE button to delete preset position.

2.5.6.2 TOUR

- a. At the PTZ PRESET menu, move the cursor to the PATROL frame. Turn the middle button of mouse to set PATROL number to 1. Select PRESET number to 1 or other number you want to add to this tour. Click on the ADD PRE button to add this preset position to tour 1. Using the same way to add other preset position to tour 1. Using the same way to set other tour.
- b. At the PTZ PRESET menu, select PATROL number to 1, click on the TOUR button to start tour 1. Click on the TOUR button again to stop tour 1. Using the same way to start and stop other tours.
- c. At the PTZ PRESET menu, select a PATROL number and select a PRESET number you want to delete from this tour. Click on the DEL PRE button to delete selected preset position from this tour.
- d. At the PTZ PRESET menu, select PATROL number or other tour number you want to delete. Click on the CLR PAT button to delete selected tour.

2.5.6.3 AUX

- a. At the PTZ PRESET menu, move the cursor to the AUX frame. Turn the middle button of mouse to set AUX number to 1 or other number you want to operate.
- b. At the PTZ PRESET menu, click on the AUX ON button to turn on this aux operation.
For aux operation, please refer to the user manual of PTZ.
- c. At the PTZ PRESET menu, click on the AUX OFF button to turn off this aux operation.
For aux operation, please refer to the user manual of PTZ.

2.5.7 Click SET icon to display PTZ SET menu and enter PTZ other function setting mode.
If PTZ protocol does not support operation of pattern and auto scan, this menu can not be opened.

2.5.7.1 PATTERN

- a. At the PTZ SET menu, move the cursor to the PATTERN frame. Turn the middle button

of mouse to set PATTERN number to 1. Click on the BEGIN button to start pattern setting.

- b. Click on CANCEL button or right click to exit PTZ other function setting mode and return to PTZ operation mode. Click on the direction arrows and zoom, focus, iris icons to control PTZ to any position. When all operating route finished, enter PTZ SET menu again and click on the END button to save the operating route to pattern 1. Use the same way to save other PTZ operating route to relevant pattern number.
- c. At the PTZ SET menu, select PATTERN number to 1 or other PATTERN number you wish to run. Click on the PATTERN button to start pattern 1 route operation. Click on the PATTERN button again to stop pattern 1 route operation. Use the same way to run other pattern operation.

2.5.7.2 AUTO SCAN

- a. At the PTZ SET menu, click on CANCEL button or right click to exit PTZ other function setting mode and return to PTZ operation mode. Click on the direction arrows and zoom, focus, iris icons to control PTZ to a position as the left position.
- b. Enter the PTZ SET menu again, click on the LEFT button to set the PTZ position to the left position.
- c. At the PTZ SET menu, click on CANCEL button or right click to exit PTZ other function setting mode and return to PTZ operation mode. Click on the direction arrows and zoom, focus, iris icons to control PTZ to a position as the right position. Enter the PTZ SET menu again, click on the RIGHT button to set the PTZ position to the right position.
- d. At the PTZ SET menu, click on the AUTOSCAN button to start PTZ auto scan between the left position and the right position. Click on the AUTOSCAN button again to stop PTZ auto scan.

2.5.7.3 OTHERS

- a. At the PTZ SET menu, click on the FLIP button to flip the PTZ.
- b. At the PTZ SET menu, click on the RESET button to reset the PTZ.
- c. At the PTZ SET menu, click on the LIGHT button to turn on the light. Click on the LIGHT button again to turn off the light.
- d. At the PTZ SET menu, click on the WIPER button to start using wiper. Click on the WIPER button again to stop using wiper.
- e. At the PTZ SET menu, click on the CAMPOWER button to turn on the camera power. Click on the CAMPOWER button again to turn off the camera power. If it supports menu or matrix operation for the PTZ protocol, this button is MENU button for PTZ and click on it to enter PTZ MENU/ MATRIX setup menu.

2.5.8 At the PTZ SET menu, click on the MENU button to display PTZ MENU/MATRIX setup menu and enter PTZ menu setting mode. If PTZ protocol does not support menu and matrix operation, this menu can not be opened.

2.5.8.1 MENU

- a. At the MENU/MATRIX setup menu, click on the MENU button to enable PTZ menu setting. Click on the MENU button again to disable PTZ menu setting.
- b. At the MENU/MATRIX setup menu, if PTZ menu function is enabled, click on the MENU UP, M DOWN, M LEFT or M RIGHT button to move the cursor to up, down,

left or right direction at the PTZ menu.

- c. At the MENU/MATRIX setup menu, if PTZ menu function is enabled, click on the M ENTER button to enter PTZ sub menu. Click on the M ENTER button again to exit PTZ sub menu.

2.5.8.2 MATRIX

- a. At the PTZ SET menu, click on the MENU button to display PTZ MENU/MATRIX setup menu and enter PTZ menu setting mode.
- b. At the MENU/MATRIX setup menu, move the cursor to the MONITOR frame. Turn the middle button of mouse to set MONITOR address to 1 or other number. It is only used for matrix operation if it supports PTZ matrix protocol.

2.5.8.3 OTHERS

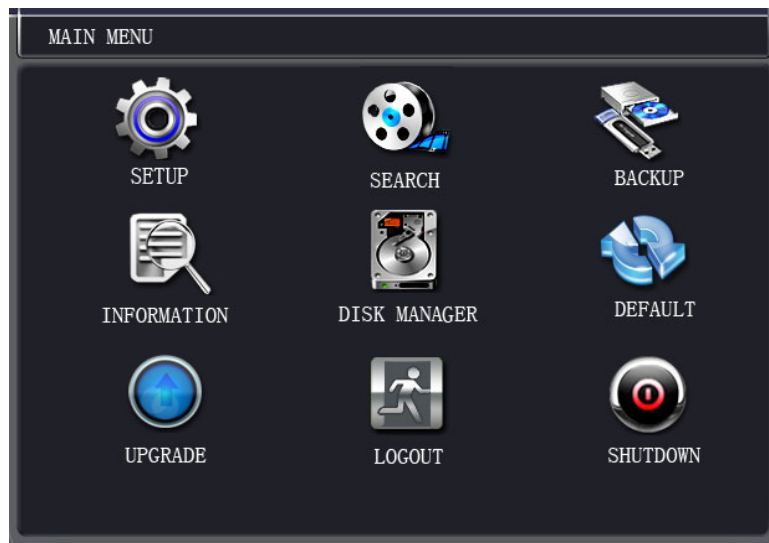
- a. At the MENU/MATRIX setup menu, click on the ALARM button to start alarm search.
- b. At the MENU/MATRIX setup menu, click on the RESET button to reset the PTZ.
- c. At the MENU/MATRIX setup menu, click on the LIGHT button to turn on the light. Click on the LIGHT button again to turn off the light.
- d. At the MENU/MATRIX setup menu, click on the MATRIX button to switch matrix.
- e. At the MENU/MATRIX setup menu, click on the CAMPOWER button to turn on the camera power. Click on the CAMPOWER button again to turn off the camera power.


2.5.9 If PTZ protocol supports position function, At the PTZ control menu, click on center icon to operate PTZ position function.

2.5.10 PTZ operating functions depend on the protocol set in the PTZ setup menu.

3 SYSTEM MENU SETUP

3.1 Main Menu



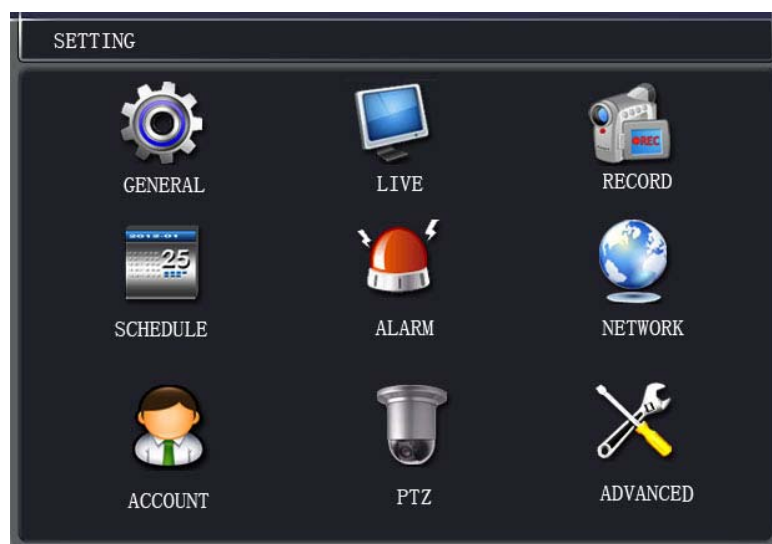
3.1.1 In live viewing mode, right click mouse or left click the  on the status bar or press MENU button on remote controller to go to main menu.

3.1.2 There are total nine icons. Move the cursor to highlight the icon and left click the mouse or press \leftarrow button on remote controller to enter sub-menu.

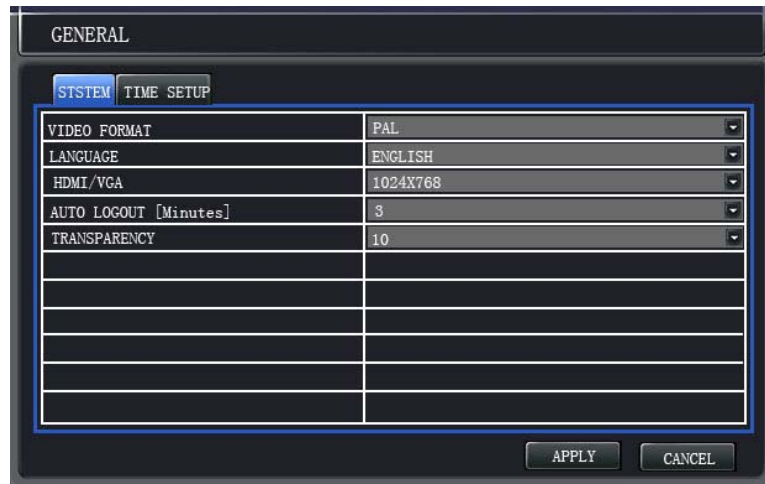
3.1.3 Right click mouse or left click the cancel icon on main menu or press CANCEL button on ESC button on remote controller to go back to live viewing mode.

3.2 Setup Sub-Menu

It is basic setup menu. There are total nine icons.



3.2.1 General



3.2.1.1 System

- **VIDEO FORMAT:** Two formats: NTSC and PAL.
- **LANGUAGE:** Total 27 system languages.
- **HDMI/VGA:** Select different resolution for both HDMI and VGA.
- **AUTO LOGOUT:** It is time (minute). If no any operation during this time it will exit from menu and go back to live viewing mode.
- **TRANSPARENCY:** Adjust transparency of menu.

3.2.1.2 Time Setup



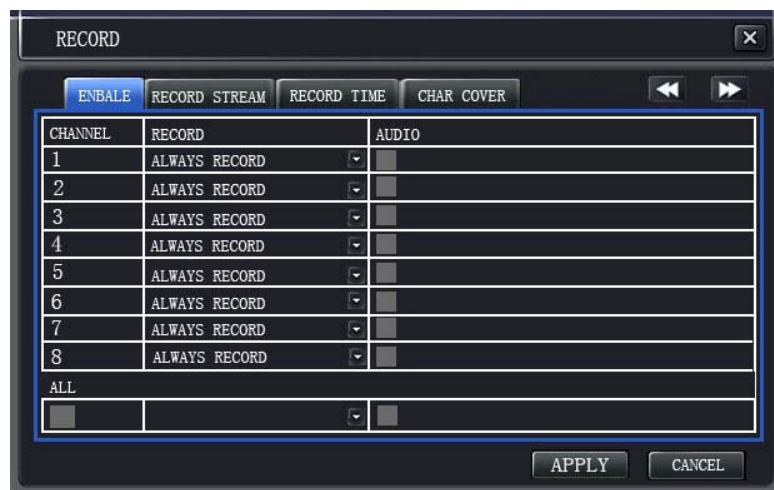
- **DATE FORMAT:** Three types: YYYY-MM-DD(ASIA), MM-DD-YYYY(USA), DD-MM-YYYY(EURO).
- **TIME ZONE:** Select local time zone.
- **SYNC TIME WITH NTP SERVER:** Enable or disable time synchronization with ftp server.
- **NTP SERVER and PORT:** IP address and port of NTP server.
- **SYNC:** Button to synchronize time with ftp server.
- **DATE and TIME:** Change system date and time.
- **POSITION:** Display position of system date and time. Default is top middle position.
- **DISPLAY:** Enable or disable the display of system date and time.

3.2.2 Live



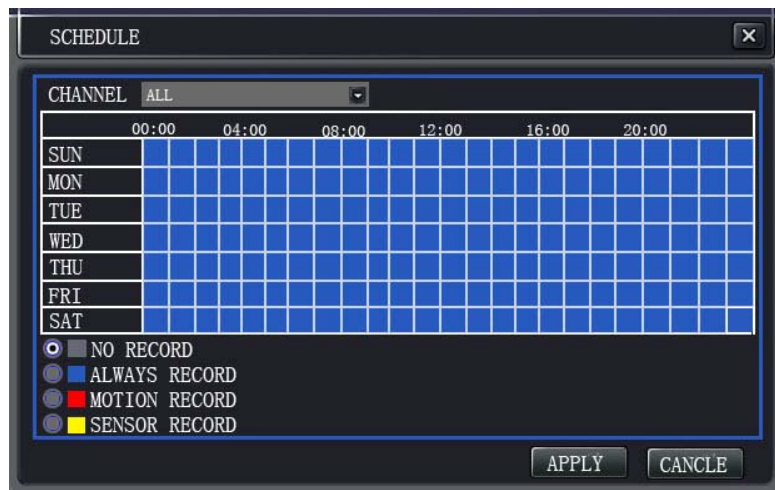
- **LIVE:** Change channel title and title display position. Set video brightness, contrast, hue, saturation and sharpness of each channel.
- **MAIN MONITOR:** Select auto sequence time of each channel.
- **MASK:** Set privacy mask section of each channel. Select total three mask zones. Drag the mouse to set mask zone.

3.2.3 Record



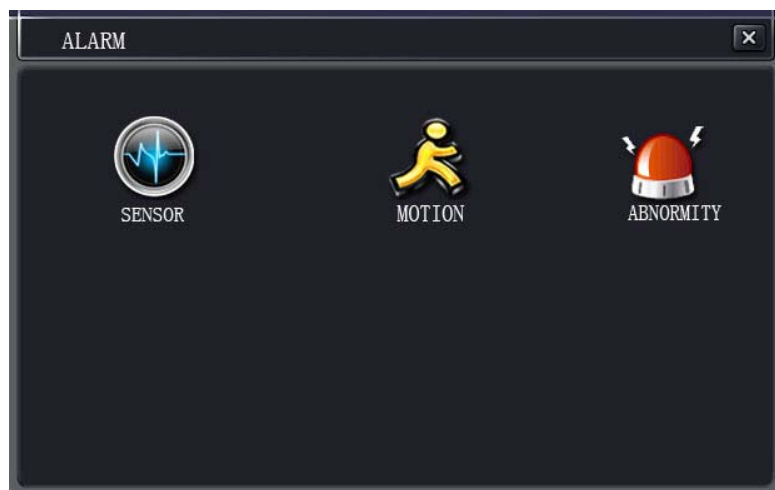
- **ENABLE:** Select record mode for each channel. Enable or disable audio record.
- **RECORD STREAM:** Select quality and bit rate of main stream for all channels. Change FPS of recording stream for each channel.
- **RECORD TIME:** Select record time for motion detection record mode.
- **CHAR COVER:** Enable or disable display of channel name or time in main stream.

3.2.4 Schedule



- **CHANNEL:** Select channel of schedule record mode.
- **WEEK DAY and TIME:** Set the record mode at any time between 0 and 24 hour from Monday to Sunday.
- **RECORD MODE:** There are three record mode. After select record mode, left click mouse on week day and time area to set this record mode for this time.

3.2.5 Alarm



It is alarm menu. There are total two icons.

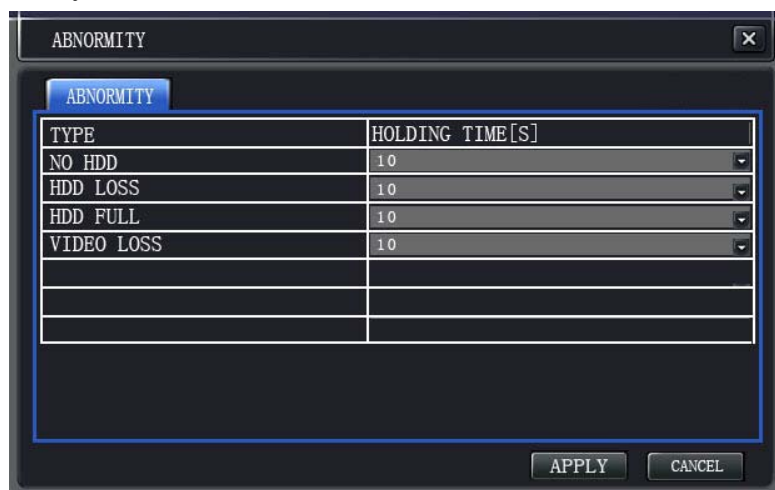
3.2.5.1 Motion



● **MOTION:** Enable or disable motion detection alarm for each channel. Select motion sensitivity and set the motion zone for each channel. Left click and drag the mouse to set motion zone.

● **ALARM HANDLE:** Select beep sound time for motion detection alarm and alarm output time.

3.2.5.2 Abnormity



There are four alarm types of abnormity. Select beep sound time for each alarm.

3.2.6 Network

NETWORK	
<div> <div>BASIC</div> <div>PPPOE</div> <div>3G</div> <div>DDNS</div> <div>SUB STREAM</div> <div>EMAIL</div> <div>FTP</div> </div>	
SERVERPORT	9000
IE PORT	90
MOBILE PORT	15961
DHCP	<input type="checkbox"/>
IP ADDRESS	192.168.001.203
NETMASK	255.255.255.000
GATEWAY	192.168.001.001
NAME SERVER	202.096.128.086
NAME SERVER1	202.096.128.166
MAC ADDRESS	00:11:33: EB:12: DA
<div> <div>APPLY</div> <div>CANCEL</div> </div>	

- **BASIC:** Input basic network information.
- **PPPOE:** Enable or disable PPPOE operation. Input PPPOE name and password get from your ISP (Internet service provider) and click CONNECT button.
- **3G:** Enable or disable 3G operation. Connect USB 3G device to DVR. Input dial number, account name and password get from your telecoms operator. Click CONNECT button.
- **DDNS:** Select a DDNS server to enable DDNS function. Input DDNS domain name, user name and password. When set DDNS server to dvr ddns, no need to input user name and password. It is private DDNS and click GET ACCOUNT button to get the DDNS UID (USER NAME) if the UID not yet got. The system supports DHCP function.
- **SUB-STREAM:** Select FPS and bit rate of sub-stream for each channel.
- **EMAIL:** When email function enabled, it will send email to receiver mailbox with a picture if motion detection alarm occurred. Input sender mailbox SMTP server IP address, port, sender mailbox, password and receiver mailbox. The system supports SSL encryption mailbox.
- **FTP:** When FTP function enabled, it will send a picture to FTP server regularly according to interval you set or when motion detection alarm occurred. Select channel to enable FTP. Select interval for sending to FTP server. If select interval to OFF, it will send to FTP server when motion detection alarm occurred after select and tick motion detection alarm. Input FTP server name, port, user name, password, remoter directory. Enable or disable anonymity login.
- **P2P:** P2P cloud service can be enabled or disabled. P2P port can be changed. If turn on DISPLAY and network connection is correct, it will display P2P on the top right of screen in the live viewing mode. For using P2P cloud service, it must get DDNS UID first.

3.2.7 Account

USERNAME	STATUS
admin	LOGIN USER
user	DEFAULT USER
1	NORMAL

Only login with administrator user (user name is admin) can add new user, delete user and change operating authority of all users. Normal and default user can only change itself password and operating authority.

3.2.7.1 Modify User

HIDE LIVE VIDEO	GENERAL	<input type="checkbox"/>
HIDE PLAYBACK VIDEO	LIVE	<input type="checkbox"/>
MANUAL RECORD	RECORD	<input type="checkbox"/>
SETTING	SCHEDULE	<input type="checkbox"/>
SEARCH	ALARM	<input type="checkbox"/>
BACKUP	NETWORK	<input type="checkbox"/>
INFORMATION	PTZ	<input type="checkbox"/>
DISKMANAGER	ADVANCE	<input type="checkbox"/>
DEFAULT	NETWORK CONNECTION	<input type="checkbox"/>
UPGRADE	MODIFY PASSWORD	<input type="checkbox"/>
SHUTDOWN	MODIFY AUTHORITY	<input type="checkbox"/>

- **MODIFY PASSWORD:** Input old password, new password and confirm new password.
- **MODIFY AUTHORITY:** Select and tick items or click button to select channels to allow relevant operation.

3.2.7.2 Add User

HIDE LIVE VIDEO	GENERAL	<input type="checkbox"/>
HIDE PLAYBACK VIDEO	LIVE	<input type="checkbox"/>
MANUAL RECORD	RECORD	<input type="checkbox"/>
SETTING	SCHEDULE	<input type="checkbox"/>
SEARCH	ALARM	<input type="checkbox"/>
BACKUP	NETWORK	<input type="checkbox"/>
INFORMATION	PTZ	<input type="checkbox"/>
DISKMANAGER	ADVANCE	<input type="checkbox"/>
DEFAULT	NETWORK CONNECTION	<input type="checkbox"/>
UPGRADE	MODIFY PASSWORD	<input type="checkbox"/>
SHUTDOWN	MODIFY AUTHORITY	<input type="checkbox"/>

- **BASIC:** Input new user name, password and confirm new user password.
- **MODIFY AUTHORITY:** Select and tick items or click button to select channels to allow relevant operation for new user.

3.2.7.3 Delete User

Select a normal user. Click the DEL button to delete this user.

3.2.8 PTZ

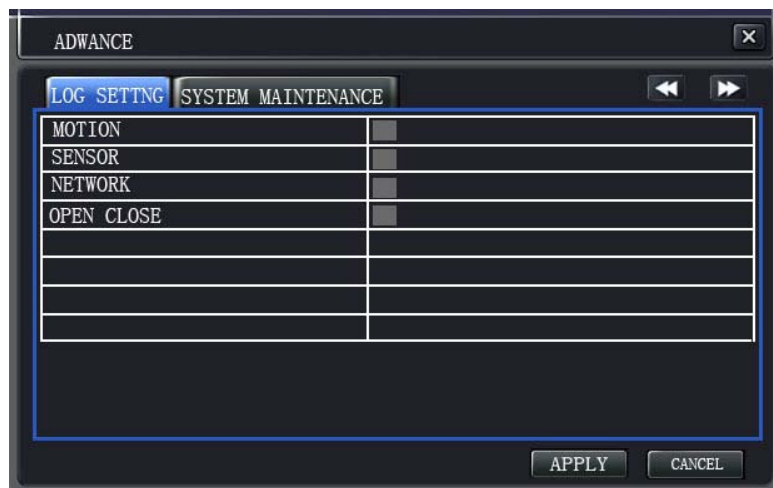


The PTZ configuration window has a title bar with 'PTZ' and a close button. Below the title bar is a tab labeled 'COM'. The main area contains a table with 4 columns: CHANNEL, PTZ ADDRESS, PTZ BAUDRATE, and PTZ PROTOCOL. The table has 8 rows, each corresponding to a channel. Below the table is an 'ALL' checkbox and a row of four empty dropdown menus. At the bottom are 'APPLY' and 'CANCEL' buttons.

CHANNEL	PTZ ADDRESS	PTZ BAUDRATE	PTZ PROTOCOL
1	1	2400 BPS	PELCO D
2	2	2400 BPS	PELCO D
3	3	2400 BPS	PELCO D
4	4	2400 BPS	PELCO D
5	5	2400 BPS	PELCO D
6	6	2400 BPS	PELCO D
7	7	2400 BPS	PELCO D
8	8	2400 BPS	PELCO D

Select PTZ address, baud rate and protocol for each channel.

3.2.9 Advanced



The ADVANCE configuration window has a title bar with 'ADVANCE' and a close button. Below the title bar are two tabs: 'LOG SETTING' and 'SYSTEM MAINTENANCE'. The 'LOG SETTING' tab is active, showing a table with 2 columns and 8 rows. The first four rows are labeled MOTION, SENSOR, NETWORK, and OPEN CLOSE, each with a checkbox. The last four rows are empty. At the bottom are 'APPLY' and 'CANCEL' buttons.



MOTION	<input type="checkbox"/>
SENSOR	<input type="checkbox"/>
NETWORK	<input type="checkbox"/>
OPEN CLOSE	<input type="checkbox"/>

- **LOG SETTING:** Select to save the information into the system log.
- **SYSTEM MAINTENANCE:** Enable system auto-reboot function. Select date and time to reboot system. There are three date mode: EVERY MONTH, EVERY WEEK and EVERY DAY.
- **BOOTING:** Enable auto start-up function. Set date and time to start-up DVR. There are three date mode: EVERY MONTH, EVERY WEEK and EVERY DAY.
- **SHUTDOWN:** Enable auto shutdown function. Set date and time to shutdown DVR. There are three date mode: EVERY MONTH, EVERY WEEK and EVERY DAY.








3.3 Search Sub-Menu





3.3.1 Time Playback

- Click date and time to select playback start position and click  to start playback.
- There is a calendar on the right of menu. The green color date has playback files. Left click the green color date, the date will change to that date, time will change to the start record time of that date. Then click  to start playback.














3.3.2 Search and Playback

	First page
	Last page
	Search recording file
	Last page
	Next page
	Enable or disable playback channel
	Set a number and enter that page


- Select recording file type. Click on the CHANNEL button to enable or disable search channel. Select search channel to display its files list. Click on the  button to start search and get the playback files list.
- Double click one file in the list or select one file in the list and click  to start playback.

3.3.3 Playback

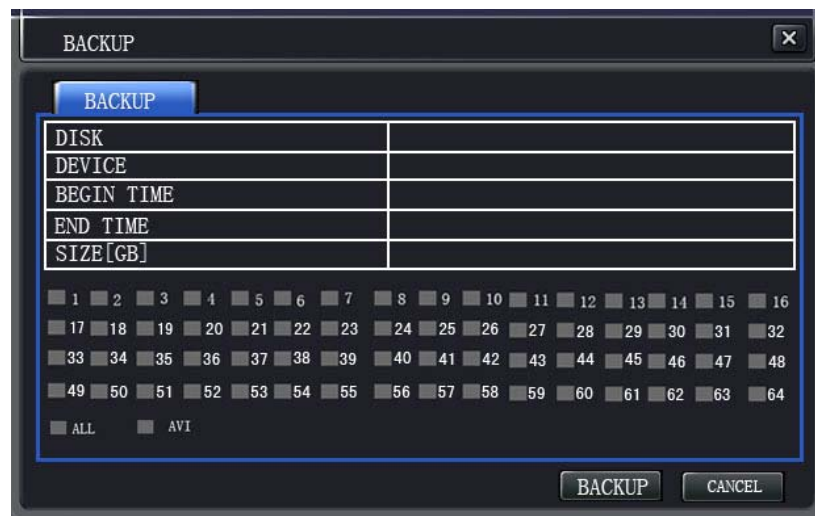
- There is a playback control bar on the bottom of playback viewing.

	Play
	Pause
	Stop and exit playback
	Play backward (speed: x2, x4, x6)
	Play fast forward (speed: x2, x4, x6)
	Play step forward
	Switch display mode (Full channel, Multiple-window)
	Set playback volume (For one full channel)
	Zoom in the selected zone of one full channel video
	Repeat playing the file in the list
	Full screen
	Save the file
	Hide right part of menu box

3.3.4 Backup

- Connect USB backup device(PenDrive) to DVR. Select and tick the box before the file in the list.
- Click on  button. It will display backup menu. See 3.4 Backup Sub-Menu.

3.4 Backup Sub-Menu

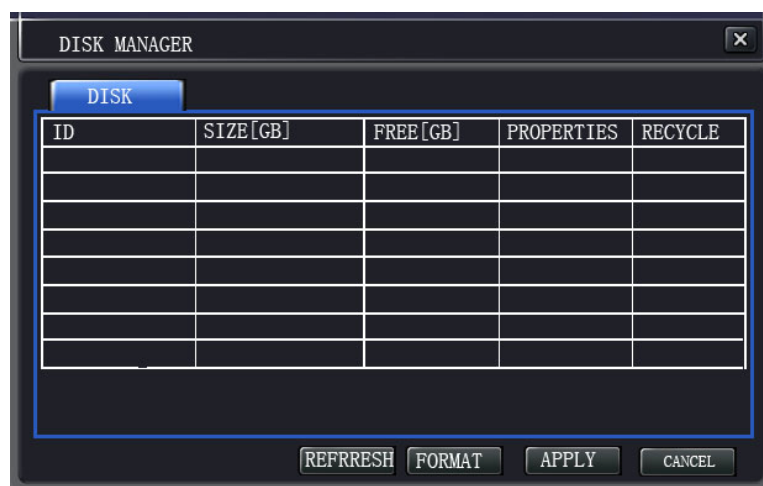


- Connect USB backup device(PenDrive) to DVR. It will display device type on backup menu.
- Select hard disk, select backup start time and end time and select backup channel. It will automatically calculate the size of backup files. Click BACKUP button to start backup. The type of backup files is DAT and need provided network viewer to play back.
- It supports AVI file backup. If select AVI files for backup, the system can only backup one channel video.

3.5 Information Sub-Menu

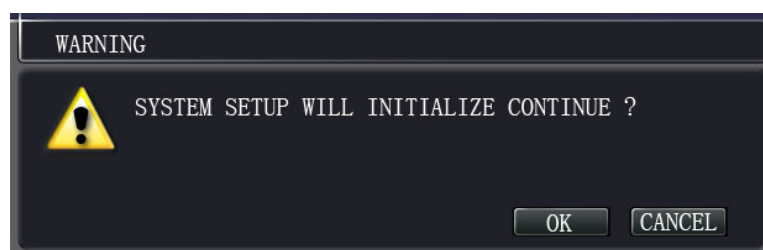
- **SYSTEM INFORMATION:** Firmware version and release date, video format.
- **EVENT INFORMATION:** Select event type, start time and end time. Click **SEARCH** button to view event information.
- **LOG VIEWING:** Select log type, start time and end time. Click **SEARCH** button to view log information.
- **NETWORK:** all network information.
- **ONLINE USER:** View network connected user name, IP address and status. Select a user and click **DISCONNECTION** button to disconnect this user.

3.6 Disk Manager Sub-Menu



- Display the hard disk information. Select HDD ID and click **FORMAT** button to format the HDD.
- **RECYCLE:** If select and tick **RECYCLE**, system goes to overwrite the previous file when current working HDD is full. If not select and tick **RECYCLE**, system stops record when HDD is full.

3.7 Default



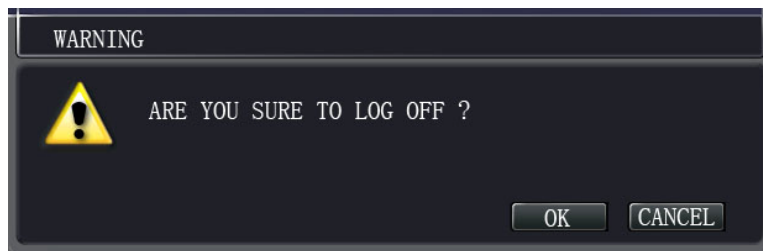
Click **OK** button to restore default factory setup.

3.8 Upgrade



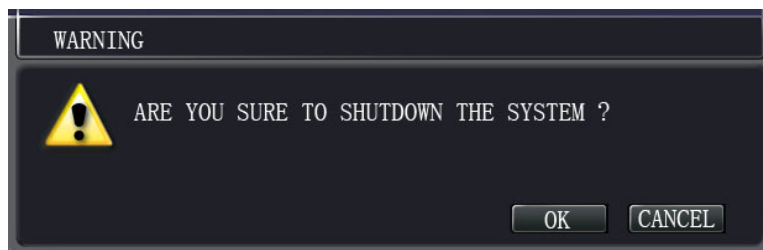
Put the latest version of firmware in the directory named dvr_upgrade in the USB device and connect USB device to DVR. It will display firmware information. Click UPGRADE button to start upgrade and the DVR will be restarted automatically and display upgrade logo. During firmware upgrading, don't cut the power or remove the USB device. After upgrade, the DVR will be restarted automatically again.

3.9 Logout



Log out from menu or operation.

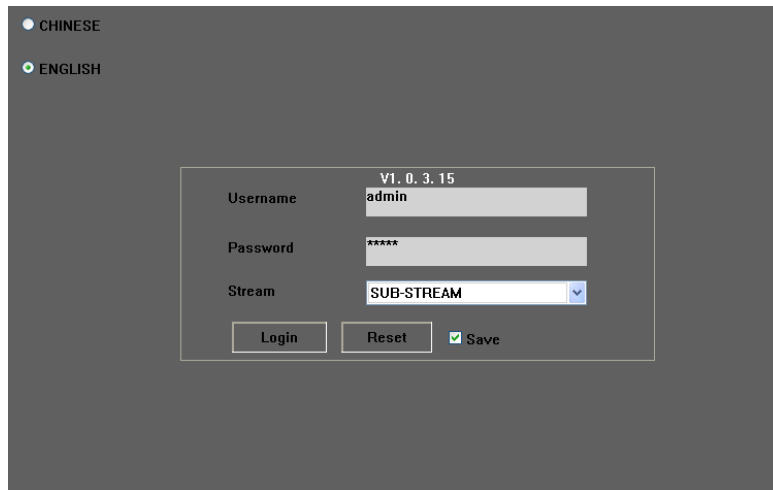
3.10 Shutdown



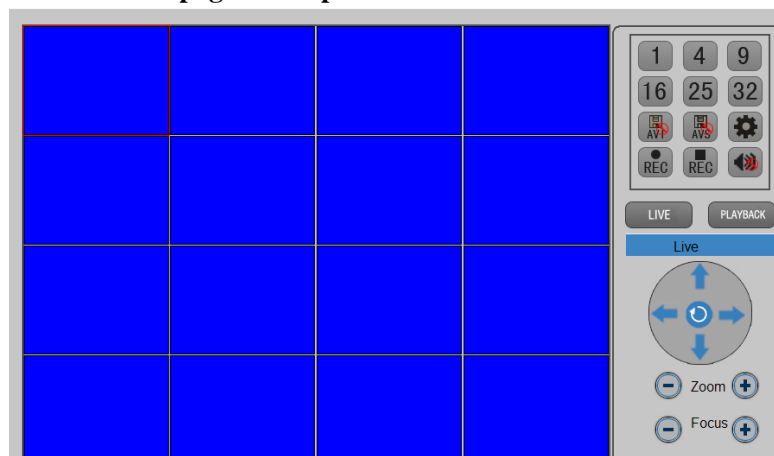
System shuts down.











4 WEB OPERATION

- Before web client operation, make sure DVR and PC network setup is right and network connection is right. Open IE and input DVR IP address and port in the address column. System can automatically download web control ActiveX file if connect DVR first time or new version founded.
- If it can not download ActiveX file, please modify your PC IE setting to enable ActiveX download. First interface is login menu. Input DVR user name, password and stream type. For internet connection it is recommended to use Sub-Stream.
- Another way: Open IE and enter website: <http://dy.vip620.com> , input DDNS UID and SECURITY CODE and click the Login button to connect DVR. If using P2P cloud service to connect DVR, it needs to select P2P. If you make the port forwarding for your router of network, no need to select P2P. For this way, you must set network menu to get DDNS UID first.



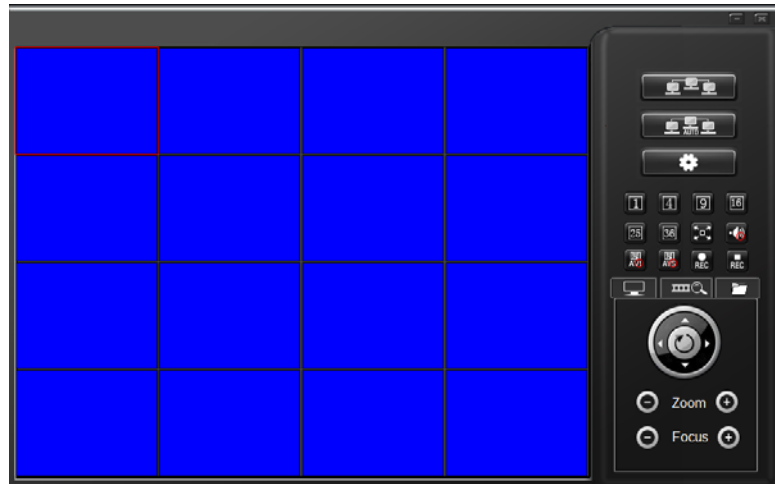
- Click Login button to connect DVR and view live image. It can show DVR live viewing or playback viewing, can view and change DVR setting for administrator user, can save the live or playback image in the local directory of your PC. Saved directory can be changed in the Other page of setup menu.



	Display Mode	Switch the display mode
	Setup	View and change DVR setup menu after connection
	AVI File	Save the image to local as AVI file
	Local Save	Save the image to local as AVS file
	Start Record	Start DVR manual recording
	Stop Record	Stop DVR manual recording
	Audio Switch	Turn on or turn off the audio
	Live Viewing	Live viewing of DVR after connection
	Playback	Playback viewing of DVR after connection
	PTZ Operation	Operate PTZ

- **Right click mouse after connect DVR, can save the image as a picture to local, can switch to full screen or normal screen, can turn off or turn on the display of channel and set password for this operation. Saved directory can be changed in the Other page of setup menu.**

5 NETWORK VIEWER



- NetViewer used to connect network of one DVR in your PC. It is provided by manufacture. It can show DVR live viewing or playback viewing, can view and change DVR setting for administrator user, can save the live or playback image in the local directory of your PC and play back the backup files from DVR or saved image files. Saved directory can be changed in the Other page of setup menu.
- Before connection make sure DVR and PC network setup is right and network connection is right. Click Connect button, input DVR IP address or DDNS UID or other DDNS user id, port, user name, password and stream type in Login menu. For internet connection it is recommended to use Sub-Stream.

Login

Address: 203.109.65.156 Del

Port: 2200





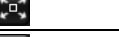
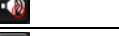
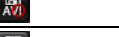
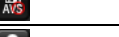
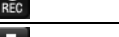




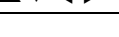
Username: admin

Password: *****

Stream: SUB-STREAM

OK Cancel ☐ Save

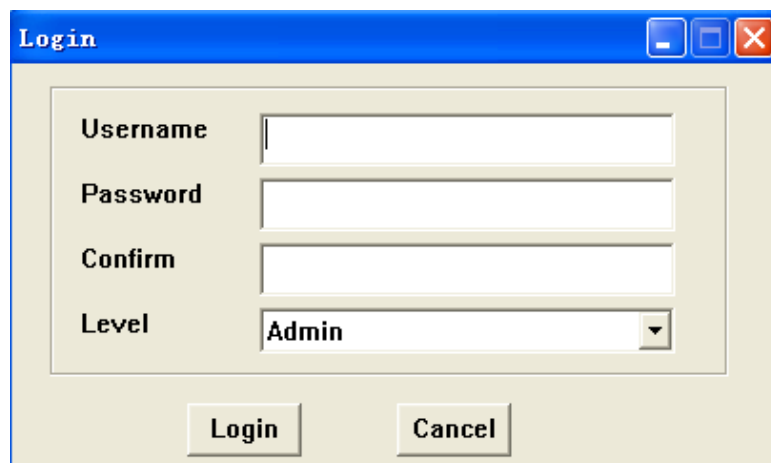
- Right click mouse after connect DVR, can save the image as a picture to local, can switch to full screen or normal screen, can turn off or turn on the display of channel and set password for this operation. Saved directory can be changed in the Other page of setup menu.

		Connect	Open login menu and connect DVR
		Auto Connect	Connect DVR automatically if network disconnected
		Setup	View and change DVR setup menu after connection
		Display Mode	Switch the display mode
		Full Screen	Switch to full screen
		Audio Switch	Turn on or turn off the audio
		AVI File	Save the image to local as AVI file
		Local Save	Save the image to local as AVS file
		Start Record	Start DVR manual recording
		Stop Record	Stop DVR manual recording
		Live Viewing	Live viewing of DVR after connection
		Playback	Playback viewing of DVR after connection
		Local Playback	Play back the local file
		PTZ Operation	Operate PTZ

6 CMS (Central Management System)

- CMS used to connect many DVR in your PC. It is provided by manufacture. It can show DVR live viewing or playback viewing, can view and change DVR setting for administrator user, can save the live or playback image in the local directory of your PC and play back the backup files from DVR or saved image files. Saved directory can be changed in the Other page of setup menu.

- Before connection make sure DVR and PC network setup is right and network connection is right. Default no need user name, password in Login menu. No need change Login menu and click Login button to open CMS for normal use.

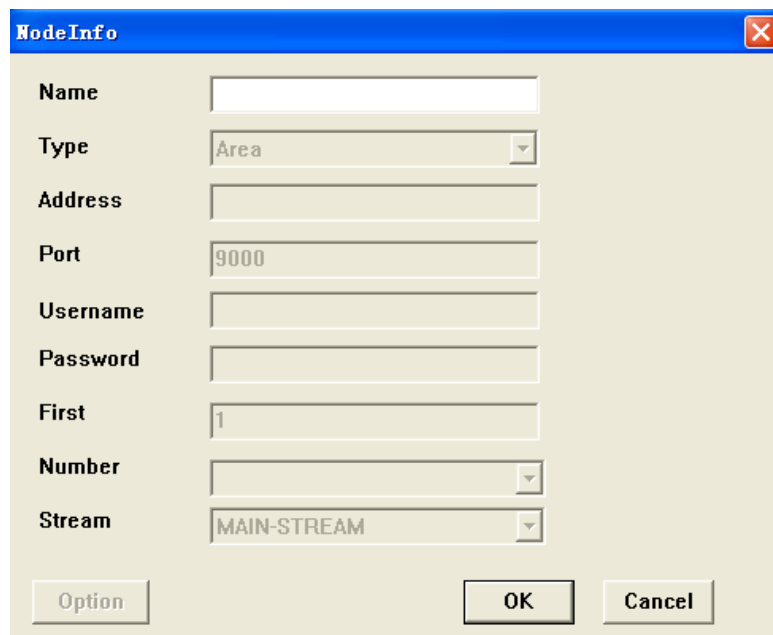


A login dialog box titled "Login" with a blue title bar and standard Windows window controls. It contains four input fields: "Username", "Password", "Confirm", and "Level". The "Level" field is a dropdown menu currently set to "Admin". At the bottom are two buttons: "Login" and "Cancel".



- For use first time, right click mouse on the left blank zone. Select and click Add to open NodeInfo menu. Input name for first area name and click OK button. The area name will be


















displayed on the left zone.



The NodeInfo dialog box is a window with a blue title bar and a close button. It contains several input fields and dropdown menus. The fields are: Name (text box), Type (dropdown menu showing 'Area'), Address (text box), Port (text box showing '9000'), Username (text box), Password (text box), First (text box showing '1'), Number (dropdown menu), and Stream (dropdown menu showing 'MAIN-STREAM'). At the bottom, there are three buttons: 'Option', 'OK', and 'Cancel'.

● Right click mouse on the area name. Select and click Add to open NodeInfo menu. Select Type to Device and input DVR name, IP address or DDNS UID or other DDNS user id, port, user name and password. Input start display position for DVR first channel on First. Input DVR channel number on Number. For internet connection it is recommended to select Sub-Stream on Stream.

● Use same way to add other areas and devices. Double click the device name or right click mouse on the device name and click Connect to connect DVR device and view live images.

	Operate	Minimize/exit/maximize window
	Display Mode	Switch the display mode
	Page	Show previous/next page
	Local Save	Save the image to local as AVS file
	AVI File	Save the image to local as AVI file
	Auto Connect	Connect DVR automatically if network disconnected
	Start Record	Start DVR manual recording
	Stop Record	Stop DVR manual recording
	Emap	Open the electronic map
	Audio Switch	Turn on or off the audio
	Tour	Click the arrow on the button to set auto sequence tour for each channel. Click the button to start or stop auto sequence tour.
	PTZ	Control focus/zoom of PTZ
	PTZ	Control pan and tilt of PTZ
	Live Viewing	Stop live viewing/restore live viewing
	Live Viewing	Live viewing of DVR after connection
	Playback	Playback viewing of DVR after connection
	Local Playback	Play back the local file

Setting		Setup	View and change DVR setup menu after connection
Close		Exit	Close and exit CMS

- **Right click mouse on live viewing area after connect DVR, can save the image as a picture to local, can switch to full screen or normal screen, can turn off or turn on the display of channel. Saved directory can be changed in the Other page of setup menu. It can set auto sequence tour, select and start auto sequence tour.**

7 SPECIFICATION

Video Compression	H.264
OS	Embedded LINUX
System Resources	Multiplex operations: Multiple-channel record, multiple-channel playback and network operation simultaneously
Interface	User-friendly graphical user interface
Input Devices	USB mouse, remote controller
Video Input	4/8-CH AHD Video Input
HDMI Output	1-CH HDMI
VGA Output	1-CH VGA
Recording Mode	Manual recording, always recording, motion detection recording, schedule recording
Resolution	720P(1280x720). PAL: 25fps, NTSC: 30fps
Audio Compression	G711, 8Kbps
Audio Input	1-CH Audio Input
Network	RJ45 10M/100M self-adaptable Ethernet port, support TCP/IP, DHCP, PPPOE, 3G, P2P cloud service, FTP, EMAIL, Web browser, CMS, NetViewer
Mobile OS	IOS, Android, Windows mobile, Symbian, Blackberry
Email for alarm	Support SMTP server, support SSL
DDNS	Build in free privacy DDNS, DYNDNS, 3322, perfecteyes.cn, myq-see, no-ip and pafcctv.net
Hard Disk	1 SATA HDD(support 4TB HDD)
USB Interface	2 USB 2.0 ports
RS485	PTZ control port. Support various PTZ control protocols
Power Supply	DC:12V, 2A/3A
Environment	Working Temperature : 0℃ ~ +55℃ Working Humidity: 10 ~ 90%