EVOLVEO DETECTIVE S4CIH7D

DVR security monitoring system with four cameras



User's Manual (EN)

1 Production Introduction

1.1 Product overview

The series DVR is designed especially for security and defense field which is an outstanding digital surveillance product. It introduces embedded LINUX operating system which is more stable. It introduces standard H.264mp video compressed format and G.711A audio compressed format which insures the high quality image, low error coding ratio and single frame playing. It introduces TCP/IP network technology which achieves the strong network communication ability and telecommunication ability.

The series DVR can be used individually or online applied as a part of a safety surveillance network. With the professional network video surveillance software it achieves the strong network communication ability and telecommunication ability.

The series DVR can be applied in the bank, telecom, electric power system, judicial system, transportation, intelligent housing, factory, storehouse, water conservancy and so on.

1.2 Main functions

Real-time surveillance

• spot interface, analog interface, VGA interface and HDMI interface, surveillance function through monitor or display.

Storage

- non-working hard disk dormancy processing which is convenient to radiate heat, reduce power and extend the life-span
- special storage format which insures the data safety

Compression

• real-time compression by individual hard disk which insures the audio and video signal stable synchronization

Backup

- through USB interface such as USB equipment, removable hard disk and so on
- through net download the files in the hard disk

Playback

- individual real-time video recording as well as searching, playback, network surveillance, recording check, downloading and so on
- multi-playback mode
- zoom at arbitrary region

Net operating

- through net tele-surveillance in the real time
- tele-PTZ control
- tele-recording check and real-time playback

Alarm linkage

• Alarm activated video record, tour ,message, buzzer, e-mail, ftp

Communication interface

• RS485 interface which fulfills the alarm input and PTZ control

Intelligent operating

- mouse action function
- fast copy and paste operating for the same setting

2 Open-package check and cable connections

2.1 Open-package check

Front panel and rear panel

- The key function specification in the front panel and the interface specification in the real panel are in the specification.
- Please check the product type in the front panel whether is accordant with the product type you order.

The label in the real panel is very important for the after service. Please protect it carefully. When you contact us for after service, please provide the

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product type and serial number in the label.

2.2 Hard disk installation

For the first use, please install the hard disk, this machine box can install two hard disk (no limited capacity).

For the first use, please install the hard disk.



1. Remove case screw



4. Connect SATA data cable



2. Remove cover



5. Connect SATA power cable



3. Install SATA hard disk



6. Replace cover



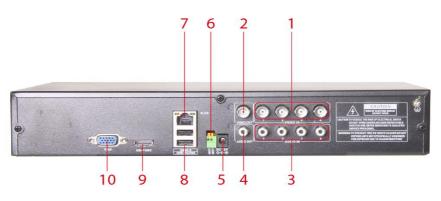
7. Replace screws

2.3 Front panel



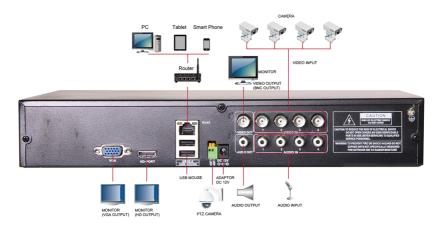
(1) IR remote receiver	(2) Power indicator light		(3) Previous file	(4) HDD indicator light	
(5) Next file	(6) PTZ		(7) Slow play	(8) HDD Info	
(9) Fast play	(10) Backward pause		(11) Record	(12) Play and Pause	
(13) Function switch	(14) Search video		(15) USB	(16) ESC	
(17) Left	(18) Up (19) Down		(20) Menu/Enter	(21) Right	

2.4 Rear panel



(1) Video input	(2) Video output	(3) Audio input
(4) Audio output	(5) Power	(6) RS-485
(7) RJ-45	(8) USB	(9) HDMI
(10) VGA		

2.5 Full Connectivity Diagram



2.6 Audio and video input and output connections

2.6.1 Video input connections

The video input port is BNC connector plug. The demand of input signal is PAL/NTSC BNC($1.0V_{P-P}$, 75 Ω).

The video signal must be accorded with the state standard which has the high signal to noise ratio, low aberration and low interference. The image must be clear and has natural color in the appropriate brightness.

Insure the video signal stable and credible

The video should be installed in the appropriate location where is away from backlighting and low illumination or adopts the better backlighting and low illumination compensation.

The ground and power supply of the video and the DVR should be shared and stable.

Insure the transmission line stable and credible

The video transmission line should adopt high quality coaxial pair which is chosen by the transmission distance. If the transmission distance is too far, it should adopt shielded twisted pair, video compensation equipment and

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transmit by fiber to insure the signal quality.

The video signal line should be away from the electromagnetic Interference and other equipments signal lines. The high voltage current should be avoided especially.

Insure the connection stable and credible

The signal and shield lines should be firm and connected credible which avoid false and joint welding and oxidation.

2.6.2 Video output connections and options

The video output is divided into PAL/NTSC BNC($1.0V_{P-P}$,75 Ω) and VGA output (selective configuration).

When replace the monitor by the computer display, there are some issues to notice

1. Do not stay in the turn-on state for a long time.

- 2. Keep the computer display normal working by demagnetizing regularly.
- 3. Stay away from the electromagnetic Interference.

2.6.3 Audio signal input

Audio port is BNC connection.

The input impedance is high so the tone arm must be active.

The audio signal line should be firm and away from the electromagnetic Interference and connected credible which avoid false and joint welding and oxidation. The high voltage current should be avoided especially.

2.6.4 Audio signal output

Commonly the output parameter of DVR audio signal is greater than 200mv $1K\Omega(BNC)$ which can connect the low impedance earphone and active sound box or other audio output equipments through power amplifier. If the sound box and the tone arm can not be isolated, howling phenomena is often existed. There are some methods to deal with the above phenomena.

- 1. Adopt better directional tone arm.
- 2. Adjust the sound box volume to be under the threshold that produces the howling phenomena.

- 3. Use fitment materials that absorb the sound to reduce reflection of the sound.
- 4. Adjust the layout of the sound box and the tone arm.

2.7 PTZ connections

1. PTZ decoder connections

- A. The grounding of the PTZ decoder and DVR must be shared otherwise the common-mode voltage will lead to the PTZ control failure. The shielded twisted pair is recommended.
- B. Avoid the entrance of high voltage. Make the layout reasonably. Take precaution from the thunder.
- C. In the outlying end connect 120Ω resistance paralleled to reduce the inflection and insure the signal quality.
- D. The 485 +/- lines of DVR cannot connected with other 485 output equipments paralleled.
- E. The voltage between the +/- lines of the decoder must be less than 5V.

2. Front equipment grounding note

Incorrect grounding can result in damage to the unit.

3. PTZ input type unlimited



Parameter	Meaning
485T+/A, 485T-/B	485communication interface which is connected with the recording
	control equipments such as the decoder

3 Basic operation

Note: Any buttons that are displayed in gray indicates it is not supported.

3.1 Preview



Picture3.1 4 Channel Preview

You can right click your mouse to switch between the windows.

The system date, time, channel name, surveillance video, and the alarm status are shown in each window.

1	00	Recording status
2	An	Motion detect

Table 3.1 Preview icon

3	3	T	Audio
4	ł	90	Video loss

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3.2 System Login

When the DVR boots up, the user must login and the system provides the corresponding functions with the user purview. There are two user settings. The names are **admin**, **default** and these names have no password default. **admin** is the super user purview; **default**'s permissions are preview and video playback. User **admin** password can be revised, while their permissions can't be revised; user **default** is the default login user whose permission can be revised but not its password.

SYSTEM LOGIN	×
User Name admin Password	
Please Login	
OK Cancel	

Picture 3.1 System Login

Password protection: If the password is continuous wrong three times, the alarm will start. If the password is continuous wrong five times, the account will be locked. (Through reboot or after half an hour, the account will be unlocked automatically).

For your system security, please modify your password after first login.

3.3 Desktop shortcut menu

In preview mode you can right click mouse to get a desktop shortcut menu, as the picture 3.2 shows. The menu includes: main menu, Guide, record mode, playback, PTZ control, High Speed PTZ, Alarm Output, color Setting, Output adjust, Logout, view mode.



Picture 3.2 Shortcut Menu

3.3.1 Main menu

When you login, the system main menu is shown as below.



Picture 3.3 Main Menu



3.3.2 Guide



Include IPONE APP/Android APP download link QR-CODE, and DVR ID number QR-CODE.

3.3.3 Record Control

Please check current channel status: "o" means it is not in recording status,

"•" means it is in recording status.

You can use desktop shortcut menu or click [main menu]> [recording function]> [recording set] to enter the recording control interface.



Picture 3.8 Record Mode

[Schedule] Record according to the configuration.

[Manual] Click the all button and the according channel is recording no matter the channel in any state.

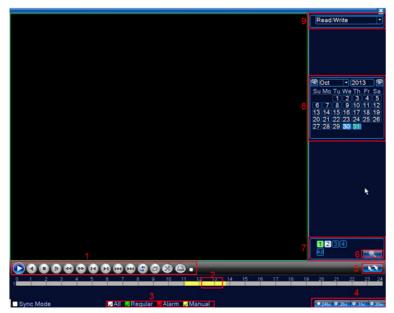
[Stop] Click the stop button and the according channel stops recording no matter the channel in any state.

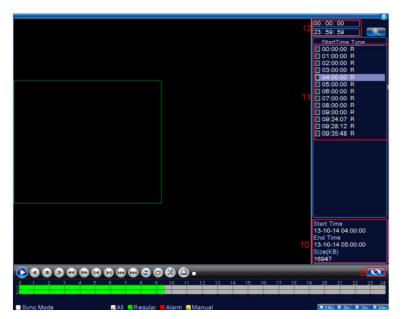
3.3.4 Playback

There are two methods for you to play the video files in the hard disk.

1. In the desktop shortcut menu.

Main menu>Record->Playback





Picture 3.4 video playback

	-		
(1) Playback	(2) Operation hint	(3) Record	(4) Time interval
control		mode	choosing
(5) Switch by time,	(6) File searching	(7) Channel	(8) Date choosing
file mode		choosing	
(9) Storage device	(10) File	(11) Listed	(12) Time searching
choosing	information	files	

[Listed files] Look up the listed files that accord with the searching criteria.[File information] Look up the found file information.

[Playback control] See detail in below chart

Кеу	Function	Кеу	Function
• / •	Play/Pause		Backward play
	Slow forward	٩	Fast forward
L	Previous frame		Next frame
K	Previous file	E	Previous file
0	Round play	Ð	Full screen
0	Stop	X	Edit
	Backup		

Picture 3.5 Playback control key

Note: play under frame by frame, the playback status should be paused firstly.

[Operation tips] show function of the key that cursor placed.

Special functions:

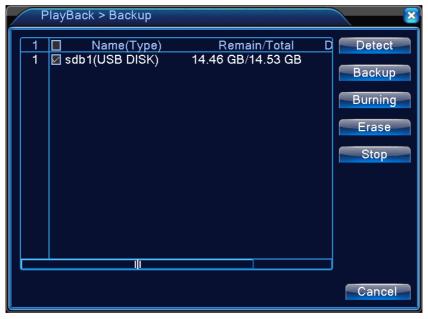
Accurate playback: Input time (h/m/s) in the time column and then click

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play button. The system can operate accurate playback according to the searching time.

Local zoom: You can drag your mouse in the screen to select a section and then left click mouse to realize local zoom. Double left click to exit.

Note: The storage drive must be installed before the file can be backed-up. If the backup is terminated any files already backed-up can be played-back individually.



Picture 3.6 detect storage device

Detect: Detect the storage device connected to the DVR such as hard drive or USB drive.

Erasure: Choose the file to delete and click erase to delete the file.

Stop: Stop the backup.

Backup: Click backup button and a dialog box will open. You can choose the backup file according to the type, channel and time.

Backup	> Backup)						×
Channel Start Time End Time	2015 annel	• - 04- 15	00: 00: 00 15: 31: 25 Start Time		ïme			КВ
Required/R	J	:449.00 K format [/		3	Sta	irt	Canc	el

Picture 3.7 Recording backup

Remove: Clear file information.

Add: Show file information meeting the set file attributes.

Start/Pause: Click the play button to start the backup and click the pause button to stop the backup.

Cancel: During backup you can exit the page layout to carry out other functions.

3.3.5 PTZ control

Operation interface is as followed. The functions include: PTZ direction control, step, zoom, focus, iris, setup operation, patrol between spots, trail patrol, boundary scan, assistant switch, light switch, level rotation and so on.

Note

1. Decoder A(B) line connects with DVR A(B)line. The connection is right.

2. Click [main menu] >[system configuration] >[PTZ setup] to set the PTZ parameters.

3. The PTZ functions are decided by the PTZ protocols.

PTZ Control:01	×
Speed	5 Hide
	➡ Preset ■ 201 ▼ Start
🖃 Zoom 🔂 💶 PTZ	Trace Advanced
Page	Switch Cancel

Picture 3.10 PTZ setup

[Speed] Set the PTZ rotation range. Default range: 1 ~ 8.

【Zoom】 Click 🔲 / 🔳 button to adjust the zoom multiple of the camera.

[Preset] Click 🔲 / 🎛 button to add and delete preset.

【Iris】Click 🗖 / 🛨 button to adjust the iris of the camera.

[Hide] Current interface will be temporarily hidden after click it.

[Direction control] Control the PTZ rotation. 8 directions control is supportive.(4 directions in Front panel is supportive)

[Advance] Tour/pattern/focus/iris/autopan/autoscan.

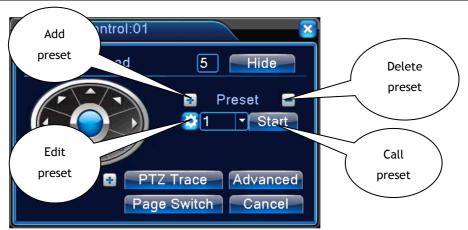
[PTZ trace] move mouse to control PTZ.

[Page switch] Switch between different pages.

Special functions :

1. Preset

Set a location for the preset, calls the preset points, $\ensuremath{\mathsf{PTZ}}$ automatically turns to the setting position



Picture 3.11 Preset Settings

2. Tour between Points

Multiple preset points connected cruise lines, call cruise between points, the PTZ run around on the line

1) Tour Between Points Settings

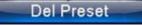
Tour lines is connected by multiple preset points, setting procedure is as follows:

Step 1: In Picture 3.12, Click 🔤 to add one tour, click Settings button to

enter Picture 3.13,

Step 2: In picture 3.13, click Add Preset to add preset to this tour, and set time.

Remove Preset: click





Picture 3.12 Tour Between Points



Picture 3.13 Tour Between Points Settings

2) The Calls of tour between Points

Select tour number, click

Start to call tour

Pattern



Picture 3.14 pattern

Set camera move as a pattern, not all camera support this function

PTZ Config Tour Start 21 -+ Pattern Call **Q** 1 Start 1 + autoscan Resume Left Autor Focus + -Right . Iris + AutoScan

Auto scan

Picture 3.15 Scan Setup



Other



Picture 3.16 Auxiliary Function Control

[Intuitive Auxiliary Operation] choose auxiliary equipment, select Open or Close button, switch control;

[Auxiliary Number] The operation of corresponding auxiliary switch according to PTZ agreement;



Picture 3.17 Camera menu Control

Enter cmaera menu, not all camera support.

3.3.6 Alarm output

Please check current channel status: " \circ " means it is not in alarming status, " \bullet " means it is in alarming status.

You can use desktop shortcut menu or click [main menu]> [alarm function]> [alarm output] to enter the alarm output interface.



Picture 3.9 alarm output

[Configuration] Alarm is on according to the configuration.

[Manual] Click the all button and the according channel is alarming no matter the channel in any state.

[Stop] Click the stop button and the according channel stops alarming no matter the channel in any state.

3.3.7 Color setting

Set the selective image parameters (current channel for single window display and cursor place for multi-window display). You can use the desktop shortcut menu and enter the interface. The image parameters include: tonality, brightness, contrast, saturation. You can set different parameters at different time sections.

Color Setting:05		×
Period 🗸	00:00 - 24:00 - 19:00 -	07:00
Brightness	50	50
Contrast	5 0	<u> </u>
Saturation	5 0	<u> </u>
Hue	5 0	50
Gain	• • • •	0
Horizon Sharpness	8	8
Vertical Sharpness	8 ●	8
	Advanced OK	Cancel

Picture 3.18 Color Setting

3.3.8 Output Adjust

Adjust TV output area parameters. You can use the desktop shortcut menu or enter [main menu]> [management tools]> [Output adjust].



Picture 3.19 Output Adjust

3.3.9 Logout

Logout, shut down the system or reboot up. You can use the desktop shortcut menu or enter [main menu].

Logout			×
Logout	Shutdown	Reboot	

Picture 3.20 Logout/Shutdown/Reboot the system

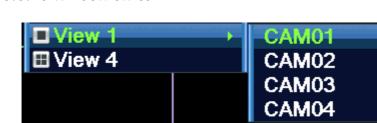
[logout] Quit the menu. Offer password next entrance.

[shut down] Quit the system. Turn off the power supply.

When press the shut down button, there is schedule hint. After three seconds, the system is shut down. Cancel midway is of no effect.

[reboot] Quit the system. Reboot up the system.

3.3.10 Window switch



Preview in single window/four windows.

4 Main menu

4.1 Main menu navigation

Main menu	Sub menu	Function		
Record	Config	Set the recording configuration, recording		
		type, recording time section		
	playback	Set recording search, recording play, video file		
		storage		
	backup	Detect backup device, format device, back the		
		selective files		
Alarm	Motion	Set motion detect alarm channel, sensitivity,		
	detection	area, linkage parameters: defending time		
		section, alarm output, screen hint, recording,		
		screen shot, PTZ, patrol, buzz, email and FTP		
		upload		
	Video	Set camera mask alarm channel, sensitivity,		
	blind	linkage parameters: defending time section,		
		alarm output, screen hint, recording, screen		
		shot , PTZ, patrol, buzz, email and FTP upload		
	Video	Set video loss alarm channel, linkage		
	loss	parameters: defending time section, alarm		
		output, screen hint, recording, screen shot,		
		PTZ, patrol, buzz, email and FTP upload		
	Alarm	Set alarm input channel, equipment type,		
	input	linkage parameters: defending time section,		
		alarm output, screen hint, recording, screen		
		shot , PTZ, patrol, buzz, email and FTP upload		
	Alarm output	Set alarm mode: configuration, manual, shut		
		down		
	Abnormality	No disk, storage device error, disk no space,		
		net disconnection, IP conflicted		

System	General	Set system time, data format, language, hard
configuration	configuration	disk full time operation, machine number, video format, output mode, summertime, stay time
	Encode	Set main (extra) coding parameter: code
	configuration	mode, resolving ability, frame rate, code
		stream control, image quality type, code
		stream value, frame between value, video/audio enable,
	Network	Set basic network parameters, DHCP and DNS
	configuration	parameters, network high speed download
	NetService	PPPOE、NTP、Email、IP purview、DDNS parameter
	GUI display	Set channel title, preview hint icon state,
		transparency, cover area, time title, channel title fold.
	PTZ	Set channel, PTZ protocol, address, baud rate,
	configuration	date bit, stop bit, check
	PTZ Config	Set serial port function, baud rate, date bit, stop bit, check
	RS232	Set serial port function, baud rate, date bit, stop bit, check
	Tour	Set patrol mode and interval time
	Digital	Set channel mode, check channel status and
		configure the digital channel, etc.
Management	Hard disk	Set appointed hard disk as read-write disc,
tools	management	read-only disc or redundant disc, clear data,
		resume date and so on
	User	Modify user, team or password. Add user or
	management	team. Delete user or team.

	Online user	Break the connection with the already login
		user. Lock the account after break until
		booting up again.
	Output adjust	Adjust upside, downside, nearside, starboard
		distance, black margin vertical & horizontal
	Automatic	Set automatic reboot system and automatic
	maintenance	deleting files.
	Restore	Resume setup state: common setup, code
		setup, recording setup, alarm setup, network
		setup, network service, preview playback,
		serial port setup, user management
	Upgrade	Upgrade with external device (like USB)
	Device Info	Device hardware configuration and message
	Import/	Export the device's log or configuration to
	Export	external device(like USB flash disk);Input the
		configuration with external device(like USB
		flash disk).
System information	Hard disk information	Display hard disk capability and recording time
	BPS	Display code stream information
	Log	Clear all log information according to the log
	information	video and time
	Version	Display edition information
Shut down	Logout	Logout, shut down or reboot

4.2 Record

Operations related to record, including: Record, Playback, Backup

4.2.1 Record Configuration

Set the recording parameters in the surveillance channel. The system is set 24 hours consecutive recording in the first startup. You can enter [main menu]> [recording function]> [recording setup] to set.

Note: There is at least one read-write hard disk.



Picture 4.1 Record Configuration

【Channel】 Choose the corresponding channel number to set the channel. Choose the all option to set the entire channels.

[Redundancy] Choose the redundancy function option to implement the file double backup function. Double backup is writing the video files in two hard disks. When you do the double backup, make sure that there are two hard disks installed. One is read-write disk and the other is redundant disk.

[Length] Set the time length of each video file. 60minutes is default value.

[Pre-Record] Record 1-30 seconds before the action. (time length is decided by the code stream)

[Record mode] Set video state: schedule, manual or stop.

Schedule: Record according to the set video type (common, detection and

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alarm)and time section.

Manual:Click the button and the according channel is recording no matter the channel in any state.

Stop:Click the stop button and the according channel stops recording no matter the channel in any state.

[Period] Set the time section of common recording, The recording will start only in the set range.

[Record type] Set recording type: regular, detection or alarm.

Regular: Perform the regular recording in the set time section. The video file type is "R".

Detect: Trigger the "motion detect", "camera mask" or "video loss" signal. When above alarm is set as opening recording, the "detection recording" state is on. The video file type is "M".

Alarm:Trigger the external alarm signal in the set time section. When above alarm is set as opening recording, the "detection recording" state is on. The video file type is "A".

4.2.2 Playback

Refer to chapter 3.3.4.

4.2.3 Backup

Refer to chapter 3.3.4

4.3 Alarm Function

Alarm functions include: motion detect, video blind, video loss, alarm input and alarm output, abnormality.

4.3.1 Motion Detect

When system detects the motion signal that reaches the set sensitivity, the motion detect alarm is on and the linkage function is turned on.

Note: "Advanced" button is the same as right click.

Alarm > Motio	on Detect		$\overline{\mathbf{X}}$
Channel Sensitivity	1 Middle	Enable Region Set	
Period AlarmOut Record Channel Tour	Set 1 1234 1234	MD Interval OutDelay	2 Sec. 10 Sec.
Channel Sensitivity Period AlarmOut Record Channel Tour PTZ Activation Show Message Buzzer FTP upload	Set	PostRec Send Email Write Log Mobile reported	10 Sec. - - -
		Advanced	OK Cancel

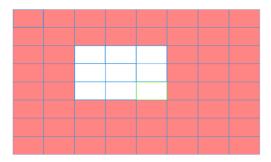
Pic 4.4

[Channel] Choose the set motion detect channel.

[Sensitivity] Choose in the six options according to the sensitivity.

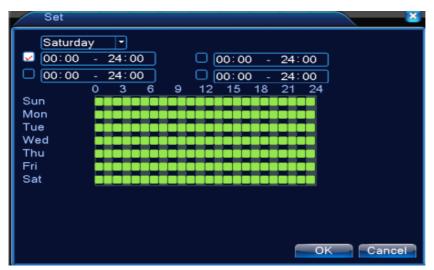
Lowest	
Lower	
Middle	
High	
Higher	
Highest	

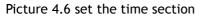
[Region]Click [set] to enter the set area. Red block means the motion detect defensive area. White block means the unfenced area. You can set the area as followed, Drag the mouse and draw the area. Default: all selected blocks are detection area.



Picture 4.5 Region

【Period】 Trigger the motion detect signal in the set time section. You can set according to week or set uniformly. Each day is divided into four time sections.■ means the set valid.





[Interval] Only one alarm signal is turned on even there are several motion detect signals in the set interval.

[Alarm output] Start the external equipment of corresponding linkage alarm when the motion detect alarm is turned on.

[Delay] Delay a few moments and stop when the alarm state is turned off.

The range is 10~300 seconds.

[Record channel] Choose the recording channel (multiple option supportive). Trigger the video signal when the alarm is turned on.

Note: Set in the [recording setup] and perform the linkage recording. Start detecting video files in the corresponding time section.

【Tour】 ■ means that the selective channel is single window alternate patrol preview. The interval is set in the [Main Menu]>[System] > [Tour].

[PTZ Activation **]** Set the PTZ activation when the alarm is turned on.

Note: to link PTZ, need go [Shortcut menu]->[PTZ control] to set preset point, cruise between points & interval time, etc.

	ctivation		×
Channel1 Channel3	None None	▼ 0 Channel2 ▼ 0 Channel4	
			OK Cancel

Picture 4.7 PTZ Activation under hybrid mode

[Delay] When alarm is over, recording will last some seconds (10~300sec), then stop.

[Show message] Pop the alarm information dialog box in the local host computer screen.

【Send EMAIL】 ■ means sending an email to user when the alarm is turned on. Note:Set in the [NetService] and send email.

[Buzzer] When alarm happens, device will come out with buzz.

[Write log] write alarm information to log.

(FTP upload **)** to tick it, the video & picture of related record channel & snapshot channel will be uploaded to assigned position.

Note: FTP upload need be set at [Netservice]

[Mobile reported] push alarm message to mobile phone

4.3.2 Video Blind

When the video image is influenced by the environment such as bad brightness or reaching the set sensitivity parameter, the camera mask function is turned on and the linkage function is turned on.

Alarm > Vide	o Blind	de la Guittan (e Guittan de Guittan)	<u>×</u>
Channel Sensitivity	1 Middle	Enable	V
Period AlarmOut Record Channel Tour	Set 1 1234 1234	OutDelay	10 Sec.
PTZ Activation Show Message Buzzer FTP upload	Set	PostRec Send Email Write Log Mobile reported	10 Sec. - -
		Advanced	OK Cancel

Pic 4.8 Video blind

Set method: refer to chapter 4.3.1. Motion detect

4.3.3 Video Loss

When the equipment can not obtain the channel video signal, the video loss alarm is turned on and the linkage function is turned on.

Alarm > Vide	o Loss		
Channel	1	Enable	v
 Period	Set		
AlarmOut	1	OutDelay	10_Sec.
Record Channel			
Tour PTZ Activation	1234 Set	PostRec	10 Sec.
Show Message	<u>o</u>	Send Email	
Buzzer FTP upload		Write Log Mobile reported	
	_	inobilo reportou	_
		Advanced	OK Cancel

Pic 4.9 Video loss

Set method: refer to chapter 4.3.1. Motion detect

4.3.4 Alarm input

When the equipment obtains the external alarm signal, the alarm function is turned on.

Note: "Advanced" button is the same as right click.

Alarmin Type	1 ▼ Normal O _I ▼	Enable	
Period	Set	MD Interval	1 Sec.
AlarmOut	1	OutDelay	10 Sec.
Record Channel	1234		
Tour	1234		
PTZ Activation	Set	PostRec	10 Sec.
Show Message	Ο	Send Email	0
Buzzer	0	Write Log	0
FTP upload		Mobile reported	0
		Advanced	OK Cancel

Pic 4.10 Alarm input

Set method: refer to chapter 4.3.1. Motion detect

4.3.5 Alarm output



4.3.6 Abnormality

Analysing and inspecting current software and hardware of the device: When some abnormal events happen, the device will make a relative answer such as show message and buzzer.

Alarm > Abn	ormality	<u>×</u>
Event Type Enable	No Storage ▼ ✓	
Event Type Enable Show Message Buzzer Mobile reported Send Email		
	ОКСС	ancel

Picture 4.11 Abnormal

[Event Type] selecting abnormity you want to inspect



[Enable] Select it to make sure abnormal function workable

[Show message] Automatically alarm cue dialog box come out of the main screen

[Buzzer] Device will have one long noise "di" while alarm is happening

[Mobile reported] push alarm message to mobile phone
[Send email] send alarm email

4.4 System setup

Set the system parameters such as General, Encode, Network, Net service, Display, PTZ configure, RS232, Tour setup, Digital.

4.4.1 General

System > Ge	eneral
Time zone	[UTC+08:00]Beijing,Urumqi,Tε ▼]
System Time	2015 - 04 - 17 15: 19: 32
Date Format	
Date Separator	
Time Format	24-HOUR 🔻
Language	ENGLISH -
Storage Full	Overwrite 🔻
DVR No.	0
Video Standard	PAL 🔻
Auto Logout	0 min
Machine Name	LocalHost
	OK Cancel

Picture 4.17 General setup

[System time] Set the system data and time.

[Date format] Choose the data format: YMD, MDY, DMY.

[Date Separator] Choose list separator of the data format.

[Time Format] Choose time format: 24-hour or 12-hour.

[Language] Support multiple language

[Storage full] Choose stop record: Stop recording when the hard disk is full.

Choose overwrite: Cover the earliest recording files and continue recording when the hard disk is full.

[DVR No.] Only when the address button in the remote controller and the

corresponding DVR number is matched, the remote operation is valid.

【Video Standard】 PAL or NTSC.

[Auto Logout] Set the latency time in 0-60. 0 means no latency time.

[Machine Name] Can setting the device's name.

[DST] Choose the summer time option and pop the dialog box as followed.

DST	×
● Day of Week O Date Start: May ▼ 1st ▼ Mon ▼ End: Oct ▼ 1st ▼ Mon ▼	01 : 01 01 : 01
	OK Cancel

Picture 4.18 DST (week)

DS	Г			×
O Day	of	Week 🔍 Date		
Start:	B	2014 - 05- 01 01: 01		
End:		2014 - 10- 01 01: 01		
			OK Cancel	

Picture 4.19 DST (date)

4.4.2 Encode setup

Set the video/audio code parameter: video file, remote monitoring and so on. Set every main stream parameter in the left part, and set the extra stream parameter in the right part.

Note: extra stream introduces video compression technique which was applying for multi-channel playback simultaneously, Dial-up multi-channel real-time monitor under poor bandwidth, or mobile monitor and so on.

System > Enco	ode			×
Channel	1	•		
Compression	H.264	- - -	Extra Stream	-
Resolution	D1	- 0	CIF	•
Frame Rate(FPS)	25	• 6	6	•
Bit Rate Type	VBR	• [v	/BR	•
Quality	high	• [ow	•
Bit Rate(Kb/S)	1536	• 1	136	•
I Frame Interval	2	•	2	•
Video/Audio		~		
		Adv	vanced	OK Cancel

Picture 4.20 Encode setup

Independent channel code setting

[Channel] Choose the channel number.

[Compression] Standard H.264 main profile.

[Resolution] Video resolution.

[Frame Rate] P:1 frame/s~25 frame/s; N: 1 frame/s~30 frame/s

[Bit Rate Type] You can choose limited code stream or variable code stream. When you choose the variable code stream there are six image quality options.

under the limited code stream, you can choose the code stream manually;

[Bit Rate] Set the code stream value to modify the image quality. The larger code stream value the better image quality.

[Frame Interval] can choose the range 2~12s

【Video/Audio】 When the icons are all in reverse displayed, the video file is video and audio multiplex stream.

Extra stream Settings

[Extra stream] is used for client side monitoring & mobile monitoring.[Channel title] select channel title and then to choose whether need

enable video & audio. The resolution, frame rate, bit rate type settings is the same as main stream.

4.4.3 Network setup

System > Net	twork
Net Card	Wire Netcar(🔻 🔽 DHCP Enable
IP Address	192 . 168 . 19 . 128
Subnet Mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 19 . 1
Primary DNS	120 - 80 - 88 - 88
Secondary DNS	0.0.0.0
Media Port	34567
HTTP Port	80
HS Download	
Transfer Policy	Quality Prefe T
	OK Cancel

Picture4.21 Network

[DHCP Enable] Obtain IP address automatically(not suggested)

[IP address] Set the IP address. Default: 192.168.1.10.

[Subnet mask] Set the subnet mask code. Default: 255.255.255.0.

[Gateway] Set the default gateway. Default: 192.168.1.1.

【DNS setup】 Domain Name Server. It translates the domain name into IP address. The IP address is offered by network provider. The address must be set and reboot then it works.

[Media port] Default: 34567.

【HTTP port】 Default: 80.

[HS Download] high speed download file

[Transfer Policy] There are three strategies: self-adaption, image quality precedence and fluency precedence. The code stream will adjust according to the setup. Self-adaption is the tradeoff between the image quality precedence

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and fluency precedence. Fluency precedence and self-adaption are valid only when the assistant code stream is turned on. Otherwise image quality precedence is valid.

4.4.4 NetService

Choose the network service option and click the set button to configure the advanced network functions or double click the service button to configure the parameters.

System > NetS	ervice	$\overline{}$
NetService PPPoE NTP EMAIL IP FILTER DDNS FTP UPNP RTSP Cloud PMS	Net Server Info 0: 0: NTP:10 0: Your SMTP Server:25 0: :0 :0 DDNS Set Invalid 0: FTP 0 1: 554 Connected 0: push.umeye.cn: 80	
	OK	Cancel

Picture 4.22 NetService

CPPPoE setu	ip 】					
PPPoE						×
Enable User Name						
Password						
IP Address	0	. 0	. 0	0		
			1	OK	Can	cel

Picture 4.23 PPPOE

Enable: Reverse means choose, setting can become effective.

Input the user name and password that ISP (Internet service provider) provides. After saving it reboot up your system. Then the DVR will build a network connection based on PPPoE. The IP address will change into dynamic IP address after above operation is well done.

Operation: After PPPoE dialing successfully look up the IP address in the [IP address] and obtain the current IP address. Then use this IP address to visit the DVR through user port.

[NTP setup]

NTP	8
Enable	0
Server IP	NTP
Port	123
Update Period	[10 min
	OK Cancel

Picture 4.24 NTP

The NTP server must be installed in the PC.

Host computer IP: Input the IP address installed NTP server.

Port: Default: 123. You can set the port according to NTP server.

Time zone: London GMT+0 Berlin GMT +1 Cairo GMT +2 Moscow GMT +3 New Delhi GMT +5 Bangkok GMT +7 Hongkong Beijing GMT +8 Tokyo GMT +9 Sydney GMT +10 Hawaii GMT-10 Alaska GMT-9 Pacific time GMT-8 American mountain time GMT-7 American mid time GMT-6 American eastern time GMT-5 Atlantic time GMT-4 Brazil GMT-3 Atlantic mid time GMT-2.

Update Period: The same with the NTP server check interval. Default: 10minutes.

[EMAIL setup]

If the alarm is turned on or the alarm linkage photos are taken, send an email about the alarm information and the photos to appointed address.

EMAIL		×
Enable		
SMTP Server	Your SMTP Server	
Port	25	
Need SSL		
User Name		
Password		
Sender		
Receiver		
Title	Alarm Message	
	Aail Testing OK Cancel	

Picture 4.25 EMAIL

SMTP server: Email server address. It could be an IP address or domain name. Domain name can be translated only it is the correct DNS configuration.

Port :Email server port number.

SSL: Using Secure Socket Layer protocol to login.

User Name: Apply the email server user name.

Password: Input the password corresponding to the user.

Sender: Set the email sender address.

Receiver: Send the email to appointed receivers when the alarm is turned on. You can set three receivers at most.

Title: Email title.

【IP Filter setup】

When choosing the white list, only the listed IP address can connect the DVR. The 64 IP addressed are supportive in the list.

When choosing the black list, the listed IP address can not connect the DVR. The 64 IP addressed are supportive in the list.

You can delete the set IP address by $\ensuremath{\mathcal{I}}$ in the options.

Note: When the same IP address is in the white and black list at the same

time, the black list precedence is higher.

IP FILTER
Enable O Restricted Type Blacklist 🔻
0.0.0.0 Add
0 Banned IP
Delete OK Cancel

Picture 4.26 IP FILTER

[DDNS]

DDNS	8
DDNS Type Enable	CN99 -
Domain Name	your.3322.org
User Name Password	
	OK Cancel

Picture 4.27 DDNS setup

It is the abbreviation of dynamic domain name server. Local domain name: Provide the domain name registered by DDNS. User name: Provide the account registered by DDNS. Password: Provide the password registered by DDNS. [FTP setup] FTP is available only when alarm happens, or alarm activates record and snapshot, it will upload related record and snapshot pictures to FTP server.

FTP	8
Enable Server IP Port User Name Password Max File Length DirName	0
Server IP	(FTP)
Port	[21]
User Name	
Password	Anonymous
Max File Length	128 MB
DirName	
	OK Cancel

Picture 4.28 FTP setup

[Enable] Click Enable, then all settings will be available

[Server IP] IP address for FTP server

[Port] Domain Port of FTP, default 21

[User Name] User name of FTP

[Password] Password of user

[Anonymous] : enable anonymous, no need setting user name and password
 [Max File Length] Max length for upload files at every packed, default 128M
 [Dir Name] : The directory of upload file.

[UPNP]

UPNP protocol is to realize auto port forwarding on router, precondition of using this function is to make sure the UPNP function of router is enabled.

UPNP	
Enable HTTP Port TCP Port Mobile Port Make sure b ,before usin	JPNP is running on router
	OK Cancel

Picture 4.33 UPNP

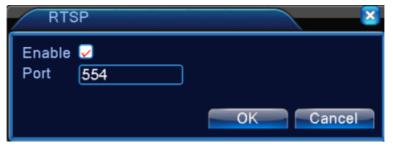
[Enable] Choose Enable to make sure all UPNP settings available

[HTTP] Route will automatically distribute HTTP port for the device, when IE viewing, it need this port

[TCP**]** Router will automatically distribute TCP port for the device, when monitoring via CMS, it need this port.

[Mobile Port] Router will automatically distribute Mobile Port for the device.
[RTSP]

To do surveillance via cross-browser (Safari, Firefox, Google chrome) and VLC software. This function only for monitor but can not control the device.



Pic 4.35 RTSP setting

[Port **]** : the default port is 554

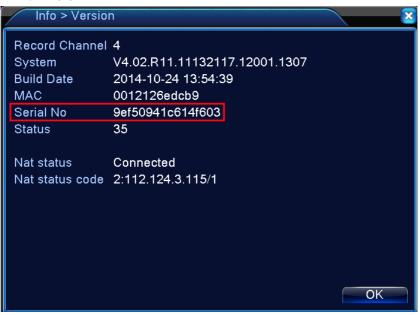
【Cloud】

[Enable] The user can enter http://xmeye.net to login device by serial number.

Cloud
Enable 🔽 MTU 1280 Byte
OK Cancel

Pic 4.29 cloud

Enable this function, When you want to visit the DVR on internet, needn't manually map port in router.





[PMS]

PMS	X
Enable	
Server Name push.umeye.cn Port 80]
Enable Server Name push.umeye.cn Port 80 BoxID Maximum subscriptions/used: 500/0	Remove
	OK Cancel

When DVR get alarm, DVR send alarm message to mobile.

4.4.5 Display

Configure the video output parameters including the front output mode and encode output mode.

Front output: In the local preview mode include: channel title, time display, channel display, record status, alarm status, transparency and region cover.

Encode output: In the network surveillance and video file mode include: channel title, time display, channel display, record status, alarm status, transparency and region cover.

System > [DISPLAY
	Set Channel Title Alarm Status 175 1280*1024
Channel Region Cover	1▼ □
Time Display	🗸 Channel Title 🗸 🥌 Set
	OK Cancel

Pic 4.36 output mode

【Channel Title】 Click the channel name modify button and enter the channel name menu. Modify the channel name. The 16 Chinese characters and 25 letters are supportive.

【Time Display】 means the selective state. Display the system data and time in the surveillance window.

[Channel display] means the selective state. Display the system channel number in the surveillance window.

[Record Status] means the selective state. Display the system recording status in the surveillance window.

【Alarm Status】 means the selective state. Display the system alarm status in the surveillance window.

[Transparency] Choose the background image transparency. The range is 128~255.

[Resolution] set display resolution.

[Channel] Choose the set code output channel number.

[Region Cover] means the selective state. Click the cover area button and

enter the corresponding channel window. You can cover the arbitrary using mouse. (Black region is for output)

【Time display】 and 【Channel display】 set the display position of channel title and time title.

4.4.6 PTZ config

Syster	m > PTZ Conf	ig		×
	PTZ Device		RS485 Device	
Channel	1	•		
Protocol	PELCOD	•	NONE	
Address	1	$\overline{}$	1	
Baudrate	2400	•	9600 🔻	
Data Bits	8	•	8 🔻	
Stop Bits	1	•	1	
Parity	None	•	None 🔻	
				OK Cancel

Pic 4.37 PTZ configure

[Channel] Choose the dome camera input channel.

[Protocol] Choose the corresponding dome protocol. (PELCOD as an example)

【Address】 Set as the corresponding dome address. Default: 1. (Note: The address must be consistent with the dome address.)

[Baudrate] Choose the corresponding dome baud rate length.

[Data bits] Include 5-8 options. Default: 8.

[Stop bits] Include 2 options. Default: 1.

[Parity] Include odd check, even check, sign check, blank check. Default: void.

4.4.7 RS232

🔏 Main	Menu->System-	->RS232		
Function	Console			
Baudrate	115200			
Data Bits	8			
Stop Bits	1			
Parity	None			
			OK	Cancel

Pic 4.39 serial port setting

[Serial Port Function] Common serial port is used to debug and update program or set up specific serial port.

[Baud rate] Choose the corresponding baud rate length.

【Data bits】Include 5-8 options.

[Stop bits] Include 2 options.

[Parity] Include odd, even, mark, space, default is none.

4.4.8 Tour

Set the patrol display. You can choose 1/4 channel view.

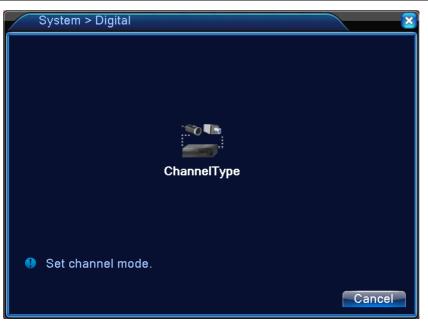
System > Tour		×
Enable Tour		
MD Interval	5 Sec.	
View 1	1234	
View 4	1	
Alarm Tour Type		
MD Interval	5 Sec.	
Return after finishe	d 🖸	
		OK Cancel

Pic 4.40 tour configure

[MD interval] Set the patrol switch interval. The set range is 5-120 seconds. [Return after finished] After alarm, back to tour.

4.4.9 Digital

Digital manage including digital channel, channel status, and channel mode



Pic 4.42 channel manage interface

Channel mode:

C	channelTyp	е				×
	Loca			IP		
AH	DL/960H	D1	1080P	720P	960H	D1
	4					
		4				
		2		1	1	· ·
			4			:
						8
			1			· ·
	back chann mum numb		iew: 4]
					OK	Cancel

4.5 Advanced

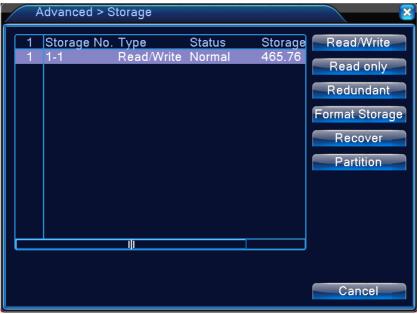
Manage tools menu including: HDD manage, account manage, online user, output adjust, auto maintain, upgrade.

4.5.1 HDD Manage

Configure and manage the hard disk. The menu displays current hard disk information: hard disk number, input port, type, status and overall capability. The operation include: setup the write-read disk, read-only disk, redundant disk, hard disk format, resume default. Choose the hard disk and click the right function button to execute.

Note: Read/Write Disk: The equipment can write or read data.

Read-only Disk: The equipment can read data but can not write data.



Pic 4.46 HDD manage

4.5.2 Account

Manage the user purview.

Note: 1. The character length is 8 bytes at most for the following user and

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user team name. The blank ahead or behind the character string is invalid. The middle blank in the character string is valid. Legal characters include: letter, number, underline, subtraction sign, dot.

2. There is no limit in the user and user group. You can add or delete the user group according to user definition. The factory setup include: user\admin. You can set the team as you wish. The user can appoint the purview in the group.

3. The user management include: group/ user. The group and user name can not be the same. Each user only belongs to one group.



Pic 4.47 account management

[Modify User] Modify the existed user attribute.

[Modify Group] Modify the existed team attribute.

[Modify Password] Modify the user password. You can set 1-6 bit password. The blank ahead or behind the char string is invalid. The middle blank in the char string is valid.

Modify F	wd		×
User Name Old New Confirm	admin		
		ОК	Cancel

Pic 4.48 modify password

【Add user】 Add a user in the group and set the user purview. Enter the menu interface and input the user name and password. Choose the team and choose whether cover using the user. Cover using means that the account can be used by multiple users at the same time.

Once choose the team the user purview is the subclass of the team.

We recommend that the common user's purview is lower than the advanced user.

Add Use	r	X		
User Name	Reuseable 🗸			
Password				
Confirm				
Memo)		
GROUP	admin 🔻			
39 🗖	Authority			
1 🛛 Shu	tdown the device			
2 🗹 Cha	nnel Title			
3 🗹 Sch				
4 🗹 Bac	4 🗹 Backup			
5 🗹 HDD) Management			
6 🗹 Acc				
🛛 7 🛛 Que	ry System Info			
8 🔽 Que	ry Log Info			
	n'log			
	OK	Cancel		

Pic 4.49 Add User

[Add Group] Add a user group and set the purview. There are 33 different purviews: shut down the equipment, real time surveillance, playback, record setting, video backup and so on.



Pic 4.50 add group

[Delete User] Delete the current user. Choose the user and click delete user button.

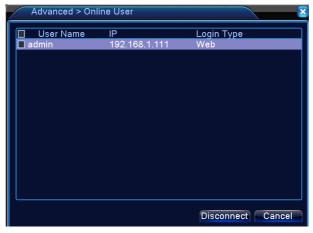
[Delete Group] Delete the current group. Choose the group and click delete group button.

Delet	te Group
GROUP	admin
Name	admin
Memo	administrator group
	Delete Cancel

Pic 4.51 Delete Group

4.5.3 Online user

To check the information of network user that connected with local device, also can tick the selected user to break up connection, then the user will be frozen after connection stopped, and will not log in until device reboot.



Pic 4.52 online user

4.5.4 TV adjust



4.5.5 Auto Maintain

The user can set the time to auto reboot and auto delete file.

Advanced > Auto Maintain
Auto-Reboot System Every Tuesday 🔻 at 01:00 🔽 Auto-Delete Old Files
Never
OK Cancel

Picture 4.39 Auto maintain

4.5.6 Restore

The system restore to the default . You can choose the items according to the menu.

Advanced	> Restore	×
Please select	setting entries that you want to default	
Select all General Record Conf. Network DISPLAY RS232	 Encode Encode Alarm Set NetService Account 	
ALL Configuration	guration OK	Cancel

Pic 4.54 restore to default

4.5.7 Upgrade



Pic 4.55 Upgrade

【Upgrade】 choose USB interface.
【Upgrade file】 choose the upgrade file.

4.5.8 Device Info

Provide device interface info like audio in, alarm in/out to be conveniently used for user.

Advanced > Device In	fo. 🔀
Audio In Channels	4
Alarm In Channels	4
Alarm Out Channels	[1
Remote control type	General 🔻
Pad Type	DVR_17K4L -
Maximum Playback large	4
Default playback large	0
Enable RS232 🔽 Enable	PTZ 🔽
▶	
	OK Cancel

Pic 4.56 device info

4.5.9 Import / Export

Users can export the log info and the configure file from device to connected flash stick, and also can import related configure file from flash stick to settings, which greatly bring convenience to the customers.

Advance	d > Import/Export	
Device Nam	e (/dev/sda1 🔹	
LOG File Name	Log_201411261128.zip	Export
Device Name LOG File Name File Name File Name	Cfg_V4.02.R11.11132117.10(▼)	Export Import
		Cancel

4.57 Import / Export interface

4.6 Info

Display the hard disk information, including HDD info, code stream statistic, log info, version info

4.6.1 HDD info

Display the hard disk state: hard disk type, overall capability, residual capability, the recording time and so on.

Info	> HDD Info	8
SATA		
	0	
	Start Time	End Time
All	2015-04-16 15:28:29	2015-04-17 16:26:01
1-1*	2015-04-16 15:28:29	2015-04-17 16:26:01
		view type and capacity Cancel
		rion type and cupacity Current

Pic 4.58 HDD info

4.6.2 BPS

Display the code stream (Kb/S) and hard disk capability (MB/H) in real time. It displays as the wave sketch map.

Info > I	BPS			
Channel 1 2 3 4		MB/H 11 9 8 8		
				Cancel

Pic 4.59 BPS

4.6.3 LOG

To search log information base on the set search mode.

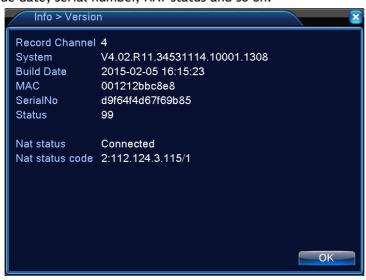
Log information include: system operation, configuration operation, data management, alarm affair, recording operation, user management, file management and so on. Set the time section to look up and click the look up button. The log information will display as a list. (one page is 128 items) Press Page up or Page down button to look up and press delete button to clear all the log information.

Info > LOG	×
Type All 🔻	
Start Time 2014 - 12 - 12 00	: 00: 00
EndTime 2014 - 12 - 13 00	: 00: 00
12 Log Time Ty	pe LOG
1 2014-12-12 09:01:21 Lo	g In admin <web:192.168< td=""></web:192.168<>
2 2014-12-12 13:51:15 Lo	
3 2014-12-12 14:51:05 Lo	g In admin <web:192.168< td=""></web:192.168<>
4 2014-12-12 15:03:53 Lo	
5 2014-12-12 15:03:53 Lo	
	ve ConfigurationDigital Management
7 2014-12-12 15:15:16 Sh	
8 2014-12-12 15:15:53 Re	
9 2014-12-12 15:15:53 Lo	
10 2014-12-12 15:29:18 Lo	g Out default <gui></gui>
	Search Remove Cancel

Pic: 4.60 Log information

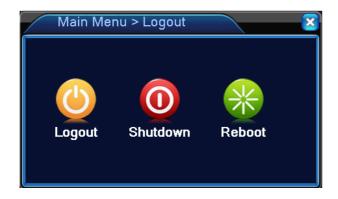
4.6.4 Version

Display the basic information such as hardware information, software version, issue date, serial number, NAT status and so on.



Pic 4.61 version information

4.7 Shut down system



5 FAQ

5.1 FAQ

1. The DVR can not boot up normally.

Possible reasons are as followed:

- 1 The power supply is not correct.
- 2 Switch power supply line is not in good connection.
- 3 Switch power supply is damaged.
- 4 The program updating is wrong.
- 5 The hard disk is damaged or the hard disk lines are broken.
- 6 The front panel is damaged.
- 7 The main board of the DVR is damaged.

2. The DVR reboots automatically or stops working after boot up a few minutes.

- 1 The input voltage is not stable or too low.
- 2 The hard disk is damaged or the hard disk lines are broken.
- 3 The power of the switch power supply is low.
- 4 Frontal video signal is not stable.
- 5 Bad heat radiator or too much dust or bad running circumstance for

the DVR.

6 The hardware of the DVR is damaged.

3. System can not detect hard disk.

Possible reasons are as followed:

- 1 The hard disk power supply line is not connected.
- 2 The cables of the hard disk are damaged.
- 3 The hard disk is damaged.
- 4 The SATA port of main board is damaged.
- 4. There are no video outputs in single channel, multiple channels and all channels.

Possible reasons are as followed:

- 1 The program is not matched. Please update the program.
- 2 The image brightness is all 0. Please restore the default setup.
- 3 There is no video input signal or the signal is too weak.
- 4 The channel protection or the screen protection is set.
- 5 The hardware of the DVR is damaged.

5. Real-time image problems such as the image color or the brightness distortion.

Possible reasons are as followed:

- 1 When using the BNC output, the option between the N mode or PAL mode is wrong and the image becomes black and white.
- 2 The DVR is not matched the monitor impedance.
- 3 The video transmission distance is too far or the loss of the video transmission line is too large.
- 4 The color and brightness setting of the DVR is wrong.
- 6. I can not find the video files in local playback mode.

- 1 The data line of the hard disk is damaged.
- 2 The hard disk is damaged.
- 3 Update the different program with the origin program files.
- 4 The video files to look up are covered.
- 5 The recording is not on.
- 7. The local video is not clear.

Possible reasons are as followed:

- 1 The image quality is too bad.
- 2 The reading program is wrong. Reboot up the DVR.
- 3 The data line of the hard disk is damaged.
- 4 The hard disk is damaged.
- 5 The hardware of the DVR is damaged.

8. There is no audio signal in the surveillance window.

Possible reasons are as followed:

- 1 It is not an active tone arm.
- 2 It is not an active sound box.
- 3 The audio lines are damaged.
- 4 The hardware of the DVR is damaged.

9. There is audio signal in the surveillance window but no audio signal in the playback state.

Possible reasons are as followed:

- 1 Setting issues: the audio option is not chosen.
- 2 The according channel is not connected with the video.

10. The time is wrong.

Possible reasons are as followed:

- 1 Setting is wrong.
- 2 The battery is in bad connection or the voltage is too low.
- 3 The oscillation is damaged.

11. The DVR can not control the PTZ.

- 1 There is something wrong with the frontal PTZ.
- 2 The setting, connection or the installation of the PTZ decoder is not correct.
- 3 The connections are not correct.
- 4 The PTZ setting of the DVR is not correct.
- 5 The protocols of the PTZ decoder and the DVR are not matched.
- 6 The address of the PTZ decoder and the DVR are not matched.
- 7 When multiple decoders are connected, the far port of the PTZ decoder line A(B) must connect a 120Ω resistance to reduce the

reflection otherwise the PTZ control is not stable.

8 The distance is too far.

12. The motion detect is not working,

Possible reasons are as followed:

- 1 The time range set is not correct.
- 2 The motion detect area set is not correct.
- 3 The sensitivity is too low.
- 4 Limited by some hardware edition.

13. I can not login via web or CMS.

Possible reasons are as followed:

- 1 The system is windows 98 or win me. We recommend updating to windows 2000sp4 or higher Version or installing the software for low edition.
- 2 ActiveX is hold back.
- 3 The version is not exceeded dx8.1. Update the display card driver.
- 4 Network connection failure.
- 5 Network setting issues.
- 6 Invalid password or user name.
- 7 The CMS is not matched the DVR program version.

14. The image is not clear or there is no image in network preview state or video file playback state.

Possible reasons are as followed:

- 1 Network is not stable.
- 2 The user machine is resource limited.
- 3 Choose the play-in-team mode in the network setup of DVR.
- 4 The region shelter or channel protection is set.
- 5 The user has no surveillance purview.
- 6 The real-time image of the hard disk recording machine itself is not clear.

15. Network connection is not stable.

- 1 Network is not stable.
- 2 IP address is conflicted.

- 3 MAC address is conflicted.
- 4 The net card of the DVR is bad.
- 16. There is something wrong with the USB backup or writing a CD. Possible reasons are as followed:
 - 1 The rewritable machine and the hard disk are shared the same data lines.
 - 2 The data is too much. Please stop recording and backup.
 - 3 The data exceeds the backup storage.
 - 4 The backup equipment is not compatible.
 - 5 The backup equipment is damaged.

17. The remote controller is not working,

Possible reasons are as followed:

- 1 The remote control address is not correct.
- 2 The remote control distance is too far or the angle is too large.
- 3 The battery is used up.
- 4 The remote controller or the front panel of the recording machine is damaged.

18. The storage time is not enough.

Possible reasons are as followed:

- 1 Front video quality is bad. The lens is too dirty. The video is in backlighting installation.
- 2 The hard disk capability is not enough.
- 3 The hard disk is damaged.

19. The downloading files can not play.

- 1 There is no media player.
- 2 There is no DX8.1 software or higher edition.
- 3 There is no DivX503Bundle.exe file to play AVI video files.
- 4 The DivX503Bundle.exe and ffdshow-2004 1012 .exe files must be installed in the windows xp system.
- 4 output circuit easily.
- 5 Do not turn off the switch directly. Please use the turn-off function in the menu or press the turn-off button in the panel (3 seconds or

longer) to protect the hard disk.

- 6 Please keep the DVR away from heat resource.
- 7 Please keep the DVR ventilated for better heat radiator.

5.2 Maintenance

1. Please ensure the system is grounded to prevent video or audio signal interference and the DVR from static or inductive electricity.

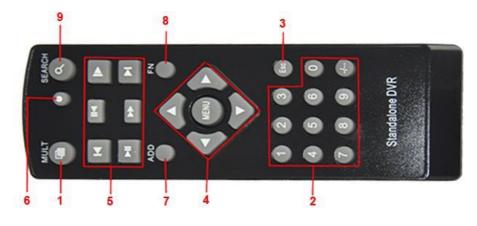
2. Do not disconnect the video signal line, RS-232 port, or RS-485 port with the power on.

3. Do not connect a TV to the local video output port (VOUT) of DVR. It will damage the video output circuit.

4. Please keep the DVR away from heat resource.

5. Please keep the DVR ventilated for better heat radiation.

6. Please check the system and maintain regularly.



Appendix 1. Remote control operation

Serial number	Name	Function
1	Multi-window button	Split screens button
2	Numeric button	Code input/number input/channel switch
3	[Esc]	Exit button
4	Direction button	Up, Down, Left, Right and Enter/Menu button.
5	Record control	Control the record
6	Record mode	Enter short menu as "record mode" button
7	ADD	Input the number of DVR to control it
8	FN	Assistant function
9	Search	Search record files to playback.

Appendix 2. Mouse operation

The USB ports support mouse operations.

NOTE: Units with front and rear mouse USB ports can only utilize one port at a time - if a USB device is connected to one of the ports the other is automatically deactivated. The bottom rear USB port is designated for USB backup drives.

Operation	Function
Double left click	Double click one item in the file list to playback the video. Double click the playback video to zoom in or out.
	Double click the channel to make it display full screen. Double click again to resume the multi-window display.
Left click	Choose the associated function in the menu
Right click	Open the desktop shortcut menu in a preview state
	Current shortcut menu in the main menu
Press middle button	Add or subtract number in the number setting
	Switch the items in the combo box
	Page up or down in the list
Move mouse	Choose the widget or move the item in the widget
Drag mouse	Set the motion detect area
	Set the cover area

Appendix 3. Hard disk capability calculation

Verify the following when installing the hard drive in the DVR for the first time:

Hard disk capacity

There is no limit for recording machine. We recommend 120G~ 250G sizes to keep better stability.

Overall capacity option

The hard disk capacity formula is:

Overall capacity(M) = channel number*time(hour)*capacity in an hour(M/hour)

The recording time formula is:

Recording time (hour) = <u>
 capacity (M)</u> <u>
 Capacity in an hour (M/hour)*channel number</u>

The DVR introduces the H.264 compression technology. Its dynamic range is very large so the hard disk capacity calculation is based on the estimation values of each channel creating files in an hour.

Example:

For one 500G HDD, real time CIF for recording, it will keep recording for about 25 days. HDD spaces per channel are 200M/H, if 4channels real time CIF at 24hours recording uninterrupted, it can last: 500G/(200M/H*24H*4ch) = 26 days.

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