Network Video Recorder User's Manual

V 2.0.0

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Welcome

Thank you for purchasing our network video recorder!

This user's manual is designed to be a reference tool for your system.

Please open the accessory bag to check the items one by one in accordance with the list below.

Contact your local retailer ASAP if something is missing or damaged in the bag.

Important Safeguards and Warnings

1. Electrical safety

All installation and operation here should conform to your local electrical safety codes. We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

2. Transportation security

Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.

3. Installation

Keep upwards. Handle with care. Do not apply power to the NVR before completing installation. Do not place objects on the NVR

4 . Qualified engineers needed

All the examination and repair work should be done by the qualified service engineers. We are not liable for any problems caused by unauthorized modifications or attempted repair.

5. Environment

The NVR should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.

This series product shall be transported, storage and used in the environment ranging from $0\,^\circ\!{\rm C}$ to 50 $\,^\circ\!{\rm C}$

6. Accessories

Be sure to use all the accessories recommended by manufacturer. Before installation, please open the package and check all the components are included. Contact your local retailer ASAP if something is broken in your package.

7. Lithium battery

Improper battery use may result in fire, explosion, or personal injury! When replace the battery, please make sure you are using the same model!

Before your operation please read the following instructions carefully.

• Installation environment

- Keep away from extreme hot places and sources;
- ♦ Avoid direct sunlight;
- ♦ Keep away from extreme humid places;
- ♦ Avoid violent vibration;
- Do not put other devices on the top of the NVR;
- ♦ Be installed in well ventilated place; do not block the vent.

• Accessories

Check the following accessories after opening the box:

• Please refer to the packing list in the box *

Component Name	32 Series	32-P Series	32-S Series	32V Series	32V-P Series	38 Series	38-E Series
NVR	1	1	1	1	1	1	1
7-pin SATA cable	2	2	2	N/A	N/A	8	8
Power cable	1	2	1	1	2	1	1
Network cable	1	1	1	1	1	1	1
Remote control	1	1	1	1	1	1	1
Black optical mouse	1	1	1	1	1	1	1
Power adapter	1	2	1	1	2	N/A	N/A
Quick start guide	1	1	1	1	1	1	1
CD	1	1	1	1	1	1	1
Plastic pad	4	4	4	4	4	4	4

1 Features and Specifications

1.1 Overview

This series NVR is a high performance network video recorder. This series product support local preview, multiple-window display, recorded file local storage, remote control and mouse shortcut menu operation, and remote management and control function. All these functions support this series product to be used in various situations.

This series product supports centre storage, front-end storage and client-end storage. The monitor zone in the front-end can be set in anywhere. Working with other front-end devices such as IPC, NVS, this series product can establish a strong surveillance network via the CMS. In the network system, there is only one network cable from the monitor centre to the monitor zone in the whole network. There is no audio/video cable from the monitor centre to the monitor zone. The whole project is featuring of simple connection, low-cost, low maintenance work.

This series NVR can be widely used in many areas such as public security, water conservancy, transportation and education.

User	• Each group has different management powers that can be edited freely.			
Management	Every user belongs to an exclusive group.			
	• Via corresponding setup (such as alarm setup and schedule setup), you			
0	can backup related audio/video data in the network video recorder.			
Storage	• Support Web record and record local video and storage the file in the			
	client end.			
	• Respond to external alarm simultaneously (within 200MS), based on			
	user's pre-defined relay setup, system can process the alarm input			
	correctly and prompt user by screen and voice (support pre-recorded			
	audio).			
Alarm	 Support central alarm server setup, so that alarm information can 			
	remotely notify user automatically. Alarm input can be derived from			
	various connected peripheral devices.			
	Alert you via EMAIL.			
	Through network, sending audio/video data compressed by IPC or NVS			
	to client-ends, then the data will be decompressed and display. If			
	bandwidth is big enough, latency is less than 500ms			
Network	Support max 10 connections			
Monitor	 Transmit audio/video data by HTTP, TCP, UDP, MULTICAST, 			
	RTP/RTCP and etc.			
	 Transmit some alarm data or alarm info by SMTP. 			
	 Support WEB access in WAN. 			
Window Split	Adopt the video compression and digital process to show several			
-	windows in one monitor. Support 1/4/9/16-window display.			

1.2 Features

Record	• Support schedule record function. Save the recorded files in the HDD, client-end PC, or network storage server. You can search or playback the saved files at the local-end or via the Web.		
Support network backup, USB record backup function, the record can be saved in network storage server, peripheral USB burner and etc.			
Network	 Supervise NVR configuration and control power via Ethernet. 		
Management	Support management via WEB.		
Peripheral	 Support peripheral equipment management such as protocol setup and 		
Equipment port connection.			
Management	Support transparent data transmission through RS232/RS485.		
	 Support switch between NTSC and PAL. 		
Auxiliary	 Support real-time system resources information and running statistics display. 		
Auxiliary	Support log file.		
	Local GUI output. Shortcut menu operation via mouse.		
	IR control function. Shortcut menu operation via remote control.		
	 Support IPC or NVS remote video preview and control. 		

1.3 Specifications

1.3.1 32/32-S/32-P Series

Parameter	Specifications				
	32 Series	32-S Series	32-P Series		
	Max support 16-ch standard	d definition with the transmiss	sion rate of 2mbps for each		
	channel;				
System	8-channel 720P, with the tran	smission rate of 4mbps for ea	ach channel;		
Resources	4-channel 1080P, with the tra	ansmission rate of 8mbps for e	each channel;		
	Support 20 online users at th	e same time,			
	The image delay time of eac	h channel is under 500ms.			
Operation System	Embedded Linux real-time op	peration system			
Operation					
Interface	WEB/Local GUI	WEB/Local GUI			
Video					
Compression	H.264/MPEG4				
Encode					
Capacity	For H.264, it max supports 16*D1, 8*720,4*1080P.				
Audio	G.711a				
Compression	0.711a				
Video Output	1-channel VGA analog video output.				
Video Input	4/8/16-ch network compression video input				
HDMI	1-ch HDMI output.				
Audio Input	1-ch bidirectional audio input				
Audio Output	1-ch bidirectional talk output.				

Window Split	4/8/9/16-window					
Multiple-chann el Playback	Max 16-channel playback.					
Alarm Input	4/8/16-ch series product sup	port 4/8/16-ch alarm input resp	pectively.			
	3-ch alarm output					
Alarm Output	m Output Relay output. Relay (DC 30V 1A, AC 125V 0.5A (Activation output)) Including one controllable DC +12V output.					
Storage	2 built-in SATA ports.					
RS232 Port	One RS232 port to debug tra	ansparent COM data.				
RS485 port	One RS485 port to control P	TZ. Support various protocols.				
USB Port	2 peripheral USB ports.					
Network Connection	One RJ45 10/100M/1000M s	self-adaptive Ethernet port.				
Power Port	One power port, power adapter. Input DC 12V.	One power port, power adapter. Input DC 12V.	Two power ports, power adapter. Input DC 12V or DC 48V.			
Power Button	One power button in the rear panel.					
Power Button	One power button in the front panel.					
IR Remote Control Receiver	N/A					
Clock	Built-in clock.					
Indication Light	 16 record status indication lights One power status indication light. One alarm status indication light. One network status indication light. One HDD status indication light. 					
Power Consumption	<12W(Exclude HDD)					
Working	0°C∼+50°C					
Temperature						
Working Humidity	10%—90%					
Air pressure	86kpa—106kpa					
Dimension	440mm*300mm*42.6mm					
Weight	$1.5{\sim}2.5$ KG (Exclude HDD))				
Installation	Desk installation/Rack installation					
1.3.2 32V/32V	-P Series					
Parameter	Specifications					

	32V Series	32V-P Series		
System Resources	channel; 8-channel 720P, with the transmission rate of 4-channel 1080P, with the transmission rate Support 20 online users at the same time,	-channel 720P, with the transmission rate of 4mbps for each channel; -channel 1080P, with the transmission rate of 8mbps for each channel;		
Operation System	Embedded Linux real-time operation system			
Operation Interface	WEB/Local GUI	WEB/Local GUI		
Video Compression	H.264/MPEG4			
Encode Capacity	For H.264, it max supports 16*D1, 8*720,4*	1080P.		
Audio Compression	G.711a			
Video Output	1-channel VGA analog video output.			
Video Input	4/8/16-ch network compression video input			
HDMI	1-ch HDMI output.			
Audio Input	1-ch bidirectional audio input			
Audio Output	1-channel bidirectional talk output.			
Window Split	4/8/9/16-window			
Multiple-chann el Playback	Max 16-channel playback.			
Alarm Input	4/8/16-ch series product support 4/8/16-ch a	alarm input respectively.		
	3-ch alarm output			
Alarm Output	Relay output. Relay (DC 30V 1A, AC 1 Including one controllable DC +12V output.	25V 0.5A (Activation output))		
	2 built-in SATA ports			
Storage	1 peripheral eSATA port			
RS485 port	One RS485 port to control PTZ. Support va	rious protocols.		
USB Port	3 peripheral USB ports.			
Network Connection	One RJ45 10/100M/1000M self-adaptive Et	hernet port.		
Power Port	One power port, power adapter. Input DC 12V. Two power ports, power adapter. Input DC 12V or DC 48V.			

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One power button in the rear panel.	
one power button in the front panel.	
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uilt-in clock.	
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0%-90%	
J /0 - 90 /0	
6kpa-106kpa	
40mm*300mm*42.6mm	
.5~2.5 KG (Exclude HDD)	
esk installation/Rack installation	
0°	

1.3.3 38/38-E Series

Parameter	Specifications		
	38 Series38-E Serie	S	
	Max support 16-ch standard definition with the transmission rate of 2mbps for each		
	channel;		
	8-channel 720P, with the transmission rate of 4mbps for	each channel;	
	4-channel 1080P, with the transmission rate of 8mbps for	or each channel;	
System	Support 20 online users at the same time,		
Resources	The image delay time of each channel is under 500ms.		
	For the 32-channel product of the 38 series, it supports stream D1/1mbps), 16-channel 720p/2mbps (extr D1/1mbps.		
Operation System	Embedded Linux real-time operation system		
Operation Interface	WEB/Local GUI		
Video Compression	H.264/MPEG4		
Encode Capacity	For H.264, it max supports 16*D1, 8*720, 4*1080P.		
Audio Compression	G.711a		
Video Output	1-channel VGA analog video output.		
Video Input	4/8/16/32-ch network compression digital video input		

HDMI	1-ch HDMI output.		
Audio Input	1-ch bidirectional audio input		
Audio Output	1-channel bidirectional talk output.		
Window Split	4/8/9/16-window		
Multiple-chann el Playback	Max 16-channel playback.		
Alarm Input	4/8/16-ch series product support 4/8/16-ch alarm input respectively.		
Alarm Output	6-ch alarm output Relay output. Relay (DC 30V 1A, AC 125V 0.5A (Activation output)) Including one controllable DC +12V output.		
	8 built-in SATA ports		
Storage	1 peripheral eSATA port		
RS232 Port	One RS232 port to debug transparent COM data.		
RS485 port	One RS485 port to control PTZ. Support various protocols.		
USB Port	4 peripheral USB ports.		
Network Connection	One RJ45 10/100M/1000M self-adaptive Two RJ45 10/100M/1000M self-adaptive Ethernet port. Ethernet ports.		
Power Port	One power port. AC100~240V 50+2% Hz		
Power Button	One power button in the rear panel.		
Power Button	One power button in the front panel.		
IR Remote Control Receiver	One IR remote control receiver in the front panel.		
Clock	Built-in clock.		
Indication Light	 16 record status indication lights One system running status indication light. One remote control indication light. 		
Power Consumption	<40W(Exclude HDD)		
Working Temperature	0°C∼+50°C		
Working Humidity	10%-90%		
Air pressure	86kpa-106kpa		
Dimension	440mm*460mm*89mm		

Weight	5.5~6.5KG (Exclude HDD)
Installation	Desk installation/Rack installation

2 Front Panel and Rear Panel

2.1 Front Panel

2.1.1 32 Series/32-P Series/32-S Series

The front panel is shown as in Figure 2-1.

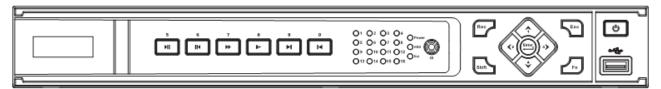


Figure 2-1

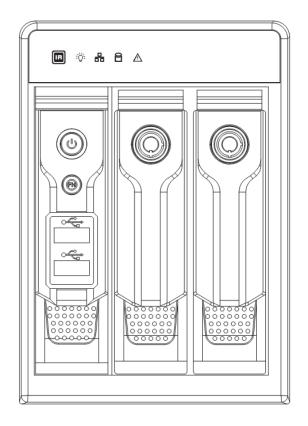
Please refer to the following sheet for front panel button information.

Name	lcon	Function		
Power button	ڻ U	Power button, press this button for three seconds to boot up or shut down NVR.		
Number button	Number 0-9 and etc	Input Arabic numberSwitch channel		
Shift	↑	 In textbox, click this button to switch between numeral, English (Small/Capitalized), donation and etc. Enable or disable tour. 		
Fast play	*	Various fast speeds and normal playback.		
Slow play	ŀ	Multiple slow play speeds or normal playback.		
Play/Pause	▶	 In backward playback or pause mode, click this button to go normal playback. In normal playback click this button to pause playback In pause mode, click this button to resume playback. In real-time monitor mode, click it to go to the search 		
Reverse/Pause		 In normal playback or pause mode, click this button to reverse playback 		
Play previous	I4	In playback mode, playback the previous video		
Play Next	▶I	 In playback mode, playback the next video 		
Up/Down	▲, ▼	 Activate current control, modify setup, and then move up and down. Increase/decrease numeral. Assistant function such as PTZ menu. 		
Left/Right	<, >	 Shift current activated control, and then move left and right. When playback, click these buttons to control playback bar. 		
ESC	ESC	 Go to previous menu, or cancel current operation. When playback, click it to restore real-time monitor mode. 		

Enter	ENTER	Confirm current operation		
		Go to default button		
		Go to menu		
Assistant	Fn	 One-window monitor mode, click this button to display assistant function: PTZ control and image color. Backspace function: in numeral control or text control, press it for 1.5 seconds to delete the previous character before the cursor. In motion detection setup, working with Fn and direction keys to realize setup. In text mode, click it to switch between numeral, English character (small/capitalized) and etc. In HDD management interface, you can click it to switch HDD record information and other information (Menu prompt) Realize other special functions. 		
Record	REC	Manually stop/start recording, working with direction keys or numeral keys to select the recording channel.		
Window switch	Mult	Click it to switch one-window/multiple-window.		
USB port	~ C	To connect USB storage device, USB mouse, burner and etc.		
Record light	1-16	For 4/8/16 channel device: indication light on means that the channel is in recording.		
Power indication light	Power	Power indication light.		
HDD abnormal indication light	HDD	HDD error occurs or HDD capacity is below specified threshold value, the light becomes red to alert you.		
Network abnormal indication light	Net	Network error occurs or there is no network connection, the light becomes red to alert you.		
IR Receiver	IR	It is to receive the signal from the remote control.		

2.1.2 32V/32V-P Series

The front panel is shown as below. See Figure 2-2.





Please refer to the following sheet for front panel button information.

Name	lcon	Function		
Power button	G	Power button, press this button for three seconds to boot up or shut down NVR.		
Assistant	Fn	 One-window monitor mode, click this button to display assistant function: PTZ control and image color. Backspace function: in numeral control or text control, press it for 1.5 seconds to delete the previous character before the cursor. In motion detection setup, working with Fn and direction keys to realize setup. In text mode, click it to switch between numeral, English character (small/capitalized) and etc. In HDD management interface, you can click it to switch HDD record information and other information (Menu prompt) Realize other special functions. 		
USB port	~ C +	To connect USB storage device, USB mouse, burner and etc.		
Power	Power	Power indication light.		
indication light				
HDD abnormal	HDD	HDD error occurs or HDD capacity is below specified threshold		
indication light		value, the light becomes red to alert you.		
Network	Net	Network error occurs or there is no network connection, the light		

abnormal indication light		becomes red to alert you.
IR Receiver	IR	It is to receive the signal from the remote control.

2.1.3 38/38-E Series

The front panel is shown as in Figure 2-3.

1 2 3 4 5 6 7 8 9 0 1 9 8 1 5 8 944 HD AT 🛞	

Figure 2-3

Please refer to the following sheet for front panel button information.

Name	lcon	nction		
Power button	С	Power button, press this button for three seconds to boot up or shut down NVR.		
Number button	Number 0-9 and etc	Input Arabic numberSwitch channel		
Input number more than 10	-/	If you want to input a number more than 10, please click this button and then input.		
Shift	↑	 In textbox, click this button to switch between numeral, English (Small/Capitalized),donation and etc. Enable or disable tour. 		
Fast play	₩	Various fast speeds and normal playback.		
Slow play	Þ	Multiple slow play speeds or normal playback.		
Play/Pause	► II	 In normal playback click this button to pause playback In pause mode, click this button to resume playback. 		
Reverse/Pause		 In normal playback or pause mode, click this button to reverse playback 		
Play previous	14	In playback mode, playback the previous video		
Play Next	▶ I	In playback mode, playback the next video		
Up/ Down	▲, ▼	 Activate current control, modify setup, and then move up and down. Increase/decrease numeral. Assistant function such as PTZ menu. 		

Left/ Right ESC	◄, ►ESC	 Shift current activated control, and then move left and right. When playback, click these buttons to control playback bar. Go to previous menu, or cancel current operation. When playback, click it to restore real-time monitor mode.
Enter	ENTER	 Confirm current operation Go to default button Go to menu
Assistant	Fn	 One-window monitor mode, click this button to display assistant function: PTZ control and image color. Backspace function: in numeral control or text control, press it for 1.5 seconds to delete the previous character before the cursor. In motion detection setup, working with Fn and direction keys to realize setup. In text mode, click it to switch between numeral, English character (small/capitalized) and etc. In HDD management interface, you can click it to switch HDD record information and other information (Menu prompt) Realize other special functions.
Record	REC	Manually stop/start recording, working with direction keys or numeral keys to select the recording channel.
Window switch	Mult	Click it to switch one-window/multiple-window.
Shuttle(outer ring) Jog(inner dial)	Õ	 In real-time monitor mode it works as left/right direction key. In playback mode, counter clockwise to forward and clock wise to backward. Up/down direction key. Playback mode, turn the inner dial to realized frame by
USB port	ండి	frame playback. (Only applies to some special versions.)To connect USB storage device, USB mouse, burner and etc.

Record light	1-16	 For 4/8/16 channel device: indication light on means that the channel is in recording. For 32 channel device, channel 17-32 reuse the indication light 1 to 16. For example, the first indication light has the following four statuses: The first indication light flashes slowly when the 1-channel is recording while the 17-channel does not record. The first indication light flashes quickly when the 1-channel does not record while the 17-channel is recording. The first indication light is on when the 1-channel is recording and the 17-channel is recording. The first indication light is off when the 1-channel does not record and the 17-channel is record. 	
Remote control indication light	ACT	Remote control indication light	
Status indication light	Status	If there is Fn indication light, current status indication light is null.	
Power indication light	PWR	Power indication light	
IR Receiver	IR	It is to receive the signal from the remote control.	

2.2 Rear Panel

2.2.1 32 Series

The rear panel is shown as below. See Figure 2-4.

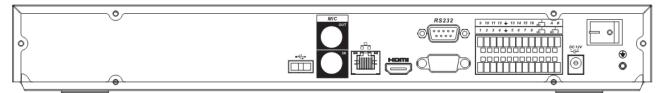


Figure 2-4

Please refer to the following sheet for detailed information.

Port Name		Connection	Function
•	USB port.		Connect to USB mouse.
	Network port		10M/100M/1000M self-adaptive Ethernet port. Connect to the network cable.
RS232	232 debug COM.		It is for general COM debug to configure IP address or transfer transparent COM data.
HDMI	High Definition Media Interface		High definition audio and video signal output port. It transmits uncompressed high definition video and multiple-channel data to the HDMI port of the display device.

Port Name		Connection	Function
VGA	VGA video output port	VGA	VGA video output port. Output analog video signal. It can connect to the monitor to view analog video.
1-16	Alarm input port.	I/O port	 There are four groups. The first group is from port 1 to port 4, the second group is from port 5 to port 8, the third group is from 9 to 12, and the fourth group is from 13 to 16. They are to receive the on-off signal from the external alarm source. There are two types; NO (normal open)/NC (normal close). When your alarm input device is using external power, please make sure the device and the NVS have the same ground.
÷	Alarm input port ground end		Alarm input ground end.
NO1 to NO3	3-ch alarm output port		 3 groups of alarm output ports. (Group 1: port NO1~C1,Group 2:port NO2~ C2,Group 3:port NO3~C3)).Output
C1 to C3			 alarm signal to the alarm device. Please make sure there is power to the external alarm device. NO: Normal open alarm output port. C: Alarm output public end.
A	RS485 port		RS485_A port. It is the cable A. You can connect to the control devices such as speed dome PTZ.
В			RS485_B.It is the cable B. You can connect to the control devices such as speed dome PTZ.
DC 12V - C-	Power input port		Input 12V DC.
Power button			Power on/off button.

2.2.2 32-P/32-S Series

The rear panel of the 32-P series is shown as below. See Figure 2-5.

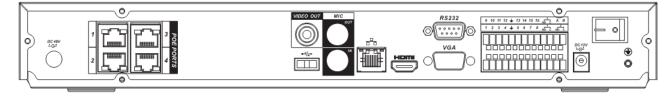


Figure 2-5

The rear panel of the 32-S series is shown as below. See Figure 2-6.

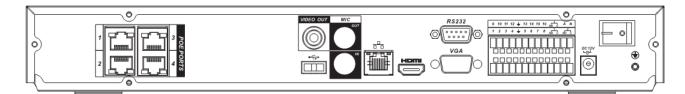


Figure 2-6

Please refer to the following sheet for detailed information.

Port Name		Connection	Function	
÷	USB port.		Connect to USB mouse.	
<u>с</u> С С	Network port		10M/100M/1000M self-adaptive Ethernet port. Connect to the network cable.	
RS232	232 debug COM.		It is for general COM debug to configure IP address or transfer transparent COM data.	
HDMI	High Definition Media Interface		High definition audio and video signal output port. It transmits uncompressed high definition video and multiple-channel data to the HDMI port of the display device.	
VGA	VGA video output port	VGA	VGA video output port. Output analog video signal. It can connect to the monitor to view analog video.	
1-16	Alarm input port.	I/O port	 There are four groups. The first group is from port 1 to port 4, the second group is from port 5 to port 8, the third group is from 9 to 12, and the fourth group is from 13 to 16. They are to receive the signal from the external alarm source. There are two types; NO (normal open)/NC (normal close). When your alarm input device is using external power, please make sure the device and the NVS have the same ground. 	
Ť	Alarm input port ground end		Alarm input ground end.	
NO1 to NO3 C1 to C3	3-ch alarm output port		 3 groups of alarm output ports. (Group 1: port NO1~C1,Group 2:port NO2~C2,Group 3:port NO3~C3)).Output alarm signal to the alarm device. Please make sure there is power to the external alarm device. NO: Normal open alarm output port. 	
			C: Alarm output public end.	

Port Name		Connection	Function
A	RS485 port		RS485_A port. It is the cable A. You can connect to the control devices such as speed dome PTZ.
В			RS485_B.It is the cable B. You can connect to the control devices such as speed dome PTZ.
DC 12V 	Power input port		Input 12V DC.
Power button			Power on/off button.
PoE PORTS			Built-in Switch supports PoE function.
DC 48V ≐G±	Power input port		Switch power port. Input DC 48V. Please note the 32-S series product does not have this port.
VIDEO OUT	Video input port		CVBS output
MIC IN	Audio input port		Bidirectional talk input port. It is to receive the analog audio signal output from the devices such as mike phone, pickup.
MIC OUT	Audio output port		Audio output port. It is to output the analog audio signal to the devices such as the sound box.

2.2.3 32V/32V-P Series

The 32V series rear panel is shown as below. See Figure 2-7.

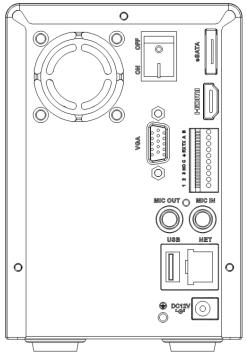


Figure 2-7

The 32V-P rear panel is shown as below. See Figure 2-8.

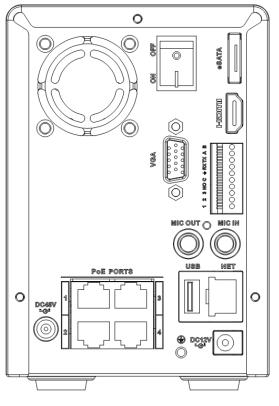


Figure 2-8

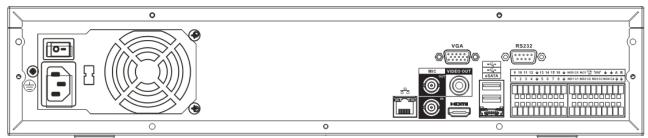
Please refer to the following sheet for detailed information.

	Port Name	Connection	Function
USB	USB port.		Connect to USB mouse.
NET	Network port		10M/100M/1000M self-adaptive Ethernet port. Connect to the network cable.
HDMI	High Definition Media Interface		High definition audio and video signal output port. It transmits uncompressed high definition video and multiple-channel data to the HDMI port of the display device.
VGA	VGA video output port	VGA	VGA video output port. Output analog video signal. It can connect to the monitor to view analog video.
1-3	Alarm input port 1-3.	I/O port	 Alarm input port. When your alarm input device is using external power, please make sure the device and the NVS have the same ground.
<u> </u>	Alarm input port ground end		Alarm input ground end.
NO	Alarm output port		 3 groups of alarm output ports. (Group 1: port NO1~C1,Group 2:port NO2~

	Port Name	Connection	Function
С			C2,Group 3:port NO3~C3)).Output alarm signal to the alarm device. Please make sure there is power to the external alarm device.
			NO: Normal open alarm output port.
			C: Alarm output public end.
A	RS485 port		RS485_A port. It is the cable A. You can connect to the control devices such as speed dome PTZ.
В			RS485_B.It is the cable B. You can connect to the control devices such as speed dome PTZ.
DC 12V 	Power input port		Input 12V DC.
Power button			Power on/off button.
PoE PORTS			Built-in Switch supports PoE function.
DC 48V	Power input		Switch power port. Input DC 48V.
0	port		Please note the 32V series product does not have this port.
MIC IN	Audio input port		Bidirectional talk input port. It is to receive the analog audio signal output from the devices such as mike phone, pickup.
MIC OUT	Audio output port		Audio output port. It is to output the analog audio signal to the devices such as the sound box.
eSATA	eSATA port		External SATA port. It can connect to the device of the SATA port. Please jump the HDD when there is peripheral connected HDD.

2.2.4 38/38-E Series

The 38 series rear panel is shown as below. See Figure 2-9.





The 38-E series rear panel is shown as below. See Figure 2-10.

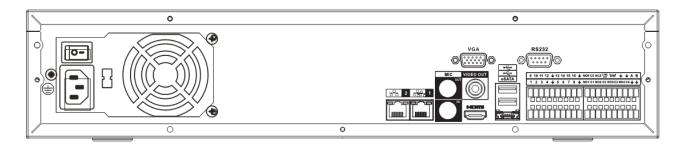


Figure 2-10

Please refer to the following sheet for detailed information.

Port Name		Connection	Function
Power button			Power on/off button.
Power input port			Input AC 220V power.
MIC IN	Audio input port		Bidirectional talk input port. It is to receive the analog audio signal output from the devices such as mike phone, pickup.
MIC OUT	Audio output port		Audio output port. It is to output the analog audio signal to the devices such as the sound box.
1-16	Alarm input port 1-16.	I/O port	 There are four groups. The first group is from port 1 to port 4, the second group is from port 5 to port 8, the third group is from 9 to 12, and the fourth group is from 13 to 16. They are to receive the signal from the external alarm source. There are two types; NO (normal open)/NC (normal close). When your alarm input device is using external power, please make sure the device and the NVS have the same ground.
÷	Ground end		Alarm input ground end.
NO1 to NO5	5-ch alarm output port		 5 groups of alarm output ports. (Group 1: port NO1~C1,Group 2:port NO2~ C2,Group 3:port NO3~C3, Group 4: port
C1 to C5 NC5	_		NO4~C4, Group 5: port NO5, C5, NC5).Output alarm signal to the alarm device. Please make sure there is power to the external alarm device.
NC5			 NO: Normal open alarm output port. C: Alarm output public end. NC: Normal close alarm output port.
A	RS485 port		RS485_A port. It is the cable A. You can connect to the control devices such as speed dome PTZ.

Port Name		Connection	Function
В			RS485_B.It is the cable B. You can connect to the control devices such as speed dome PTZ.
CTRL 12V			Controller 12V power output. It is to control the on-off alarm relay output. It can be used to control the device alarm output. At the same time, it can also be used as the power input source of some devices such as the alarm detector.
+12V			+12V power output port. It can provide the power to some peripheral devices such as the camera or the alarm device. Please note the supplying power shall be below 1A.
- 	Network port		10M/100M/1000M self-adaptive Ethernet port. Connect to the network cable.
			Please note 38-E series product has two network ports.
eSATA	eSATA port		External SATA port. It can connect to the device of the SATA port. Please jump the HDD when there is peripheral connected HDD.
	USB port.		Connect to USB mouse.
RS232	RS232 debug COM.		It is for general COM debug to configure IP address or transfer transparent COM data.
HDMI	High Definition Media Interface		High definition audio and video signal output port. It transmits uncompressed high definition video and multiple-channel data to the HDMI port of the display device.
VGA	VGA video output port		VGA video output port. Output analog video signal. It can connect to the monitor to view analog video.

2.3 Alarm Connection

Please refer to the steps listed below.

- Connect the alarm input device to the alarm input port.
- Connect the alarm output device to the alarm output port. The NO and NC alarm output device can connect to the NO/C/NC port. For the NO alarm device, please connect to the NO/C ports. For the NC alarm device, please connect to the NC/C ports. Please note the NO/C ports are for NO alarm device only.
- Open Web, and go to the Alarm setup interface to set the alarm input and output. The alarm 01 is corresponding to the first channel of the device I/O port and so on. Please set the NO/NC type according to the high/low level the alarm input device generated when an alarm occurred
- Set the alarm output on the Web. The alarm output 01 is corresponding to the first group of alarm out put port.

2.4 Bidirectional talk

2.4.1 Device-end to PC-end

Device Connection

Please connect the speaker or the pickup to the first audio input port in the device rear panel. Then connect the earphone or the sound box to the audio output port in the PC.

Login the Web and then enable the corresponding channel real-time monitor.

Please refer to the following interface to enable bidirectional talk.

90
Refresh
2

Figure 2-11

Listening Operation

At the device end, speak via the speaker or the pickup, and then you can get the audio from the earphone or sound box at the pc-end.

2.4.2 PC-end to the device-end

Device Connection

Connect the speaker or the pickup to the audio output port in the PC and then connect the earphone or the sound box to the first audio input port in the device rear panel.

Login the Web and then enable the corresponding channel real-time monitor.

Please refer to the above interface (Figure 2-11) to enable bidirectional talk.

Listening Operation

At the PC-end, speak via the speaker or the pickup, and then you can get the audio from the earphone or sound box at the device-end.

2.5 Mouse Operation

Please refer to the following sheet for mouse operation instruction.

Left	click	When you have selected one menu item, left click mouse to view menu	
mouse		content.	
		Modify checkbox or motion detection status.	
		Click combo box to pop up dropdown list	

r	
	In input box, you can select input methods. Left click the corresponding button on the panel you can input numeral/English character (small/capitalized).
	Here \leftarrow stands for backspace button stands for space button.
	In English input mode: _stands for input a backspace icon and \leftarrow stands for deleting the previous character.
	abcdefg hijklmn HIJKLMN opqrst⊔ UVWXYZ↓ UVWXYZ↓
	In numeral input mode: $_$ stands for clear and \leftarrow stands for deleting the previous numeral.
	1 / 2 : 3 . 4 ? 5 - 6 _ 7 @ 8 # 9 % 0 & ←
	When input special sign, you can click corresponding numeral in the front panel to input. For example, click numeral 1 you can input"/", or you can click the numeral in the on-screen keyboard directly.
Double left click mouse	Implement special control operation such as double click one item in the file list to playback the video.
	In multiple-window mode, double left click one channel to view in full-window. Double left click current video again to go back to previous multiple-window mode.
Right click	In real-time monitor mode, pops up shortcut menu.
mouse	Exit current menu without saving the modification.
Press	In numeral input box: Increase or decrease numeral value.
middle	Switch the items in the check box.
button	Page up or page down
Move mouse	Select current control or move control
Drag mouse	Select motion detection zone
	Select privacy mask zone.

2.6 Remote Control

The remote control interface is shown as in __Figure 2-4.

Please note remote control is not our standard accessory and it is not included in the accessory bag.

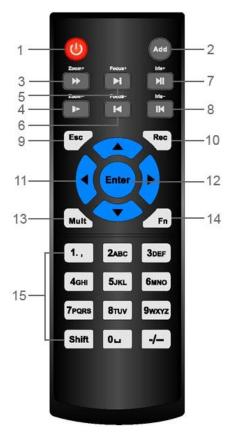


Figure 2-12

Please refer to the following sheet for detailed information.

Serial Number	Name	Function
1	Power button	Click it to boot up or shut down
		the device.
2	Address	Click it to input device number, so
		that you can control it.
3	Forward	Various forward speeds and
		normal speed playback.
4	Slow play	Multiple slow play speeds or
		normal playback.
	Next record	In playback mode, playback the
5		next video.
	Previous record	In playback mode, playback the
6		previous video.
7	Play/Pause	In pause mode, click this button
		to realize normal playback.
		In normal playback click this
		button to pause playback.
		In real-time monitor mode, click
		this button to enter video search
		menu.
	Reverse/pause	Reverse playback pause mode,
8		click this button to realize normal

		playback.	
		In reverse playback click this button to pause playback.	
	Cancel	Go back to previous menu or	
9		cancel current operation (close	
		upper interface or control)	
10	Record	Start or stop record manually	
		In record interface, working with	
		the direction buttons to select the	
		record channel.	
		Click this button for at least 1.5	
		seconds, system can go to the	
		Manual Record interface.	
11	Direction keys	Switch current activated control,	
		go to left or right.	
		In playback mode, it is to control	
		the playback process bar.	
		Aux function(such as switch the	
		PTZ menu)	
12	Confirm /menu key	go to default button	
		go to the menu	
13	Multiple-window switch	Switch between multiple-window	
		and one-window.	
14	Auxiliary key	In 1-ch monitor mode: pop up	
		assistant function: PTZ control	
		and Video color.	
		Switch the PTZ control menu in	
		PTZ control interface.	
		In motion detection interface,	
		working with direction keys to	
		complete setup.	
15	0-9 number key	Input password, channel or	
		switch channel.	
		Shift is the button to switch the	
		input method.	

3 HDD Installation

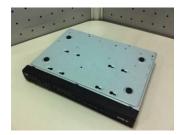
For the first time install, please be aware that whether the HDDs have been installed. Strongly recommended to use the HDDs which we suggest you to use (high speed HDD that above 7200 rounds), we do not suggest you to use PC specified HDD.

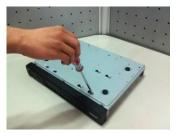
You can refer to the *User's Manual* for recommended HDD brand. Please use HDD of 7200rpm or higher. Usually we do not recommend the PC HDD.

Please follow the instructions below to install hard disk.

3.1 32 Series/32-P Series/32-S Series









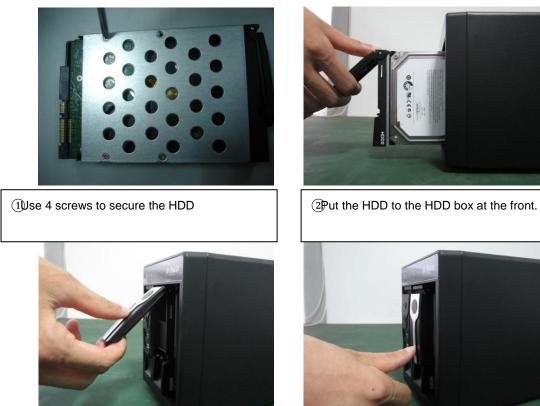
4. Turn the device upside down	5. Fix the HDD firmly.	6. Connect the HDD cable and
and then turn the screws in		power cable.
firmly.		





7. Put the cover in accordance	8. Secure the screws in the
with the clip and then place the	rear panel and the side panel.
upper cover back.	

3.2 32V/32V-P Series



Into the HDD knob up when you put the HDD into the box in case the knob buckle may strike the front panel.

2

 $(4\!P\mbox{ut}$ the knob back after you insert the HDD

to the SATA board.

3.3 38/38-E Series



1 Use the screwdriver to loose the screws of the rear panel and then remove the front cover.



② Put the HDD to the HDD bracket in the chassis and then line up the four screws to the four holes in the HDD. Use the screwdriver to fix the screws firmly to secure HDD on the HDD bracket



③ Connect to the HDD data cable to the main board and the HDD port respectively. Loosen the power cable of the chassis and connect another end of the power cable to the HDD port.



④ After connect the cable, put the front cover back to the device and then fix screws of the rear panel.

Important:

Please turn off the power before you replace the HDD.

4 Network Connection

Please refer to Figure 4-1 for connection sample. The following figure is based on the 38 series product.

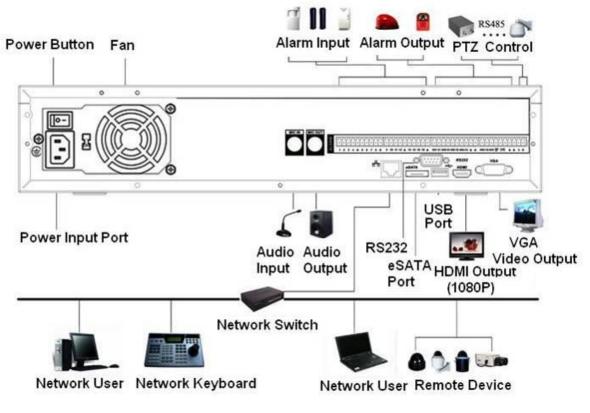


Figure 4-1

5 System Performance

This series product max supports 32-channel standard definition video/high definition non-real-time video and the transmission rate is 1mbps per channel. It can also max supports 4-channel high definition video and the transmission rate is 8mbps. The delay time of each channel is below 500ms.

Model	System Performance
4-ch series	Max support 4-channel video. Total resources:400/480fps@D1,200/240fps@720P.100/120@1080P.
8-ch series	Max support 8-channel video. Total resources:400/480fps@D1,200/240fps@720P.100/120@1080P.
16-ch series	Max support 16-channel video. Total resources:400/480fps@D1,200/240fps@720P.100/120@1080P.
32-ch series	Max support 32-channel standard definition video. Support 8-channel 1080p/5mbps (extra stream D1/1mbps), 16-channel 720p/2mbps (extra CIF/640kbps), 32-channel D1/1mbps.

Important

- The standard definition device here is referring to the devices of D1 resolution or below.
- The high definition device here is referring to the devices of 702P resolution or higher.

6 GUI Operation

Connect the device to the monitor and then connect a mouse and power cable. Click the power button at the rear panel and then boot up the device to view the analog video output. You can use the mouse to implement some GUI operation.

6.1 Login

After device booted up, the system is in multiple-channel display mode. See Figure 6-1.Please note the displayed window amount may vary. The following figure is for reference only.



Figure 6-1

You can use USB mouse to input. Click 123 to switch between numeral, English character

(small/capitalized) and denotation.

Note:

For security reason, please modify password after you first login.

Within 30 minutes, three times login failure will result in system alarm and five times login failure will result in account lo





You can overlay the corresponding date, time and channel name on each screen. You can refer to the following sheet for channel record or alarm status information.

1	8	Recording status 3		?	Video loss
2		Motion detection	4		Camera lock

Preview Control

The preview control function has the following features.

- Support preview playback.
 - In the preview desktop, system can playback previous 5-60 minutes record of current channel. Please go to the Main Menu->General to set real-time playback time.
 - Support drag and play function. You can use your mouse to select any playback start time.
 - ♦ Support playback, pause and exit function.
 - ♦ Right now, system does not support slow playback and backward playback function.
- Support digital zoom function.
- Support real-time backup function.

You can follow the contents listed below for the operation instruction.

Preview control interface

Move you mouse to the top centre of the video of current channel, you can see system pops up the preview control interface. See Figure 6-3. If your mouse stays in this area for more than 6 seconds and has no operation, the control bar automatically hides.

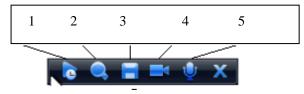


Figure 6-3

You can refer to the following sheet for detailed information.

SN	Name	Function
1	Realtime playback	It is to playback the previous 5-60 minutes record of current channel. Please go to the Main Menu->General to set real-time playback time. System may pop up a dialogue box if there is no such record in current channel.
2	Digital zoom	It is to zoom in specified zone of current channel. It supports zoom in function of multiple-channel. The selected area has an icon as and the free area is shown as an icon as
3	Real-time backup function	It is to backup the video of current channel to the USB device. System can not backup the video of multiple-channel at the same time. Current selected backup channel has an icon as and the free channel is shown as an icon as Once the backup started, you can see the free

		channel is shown as an icon as
4	Remote device add shortcut	It is to go to the remote device connection interface.
5	Bidirectional talk	Support bidirectional talk function.
6	X	Exit

Playback control

The playback control has the following features.

- Support play, pause, and exit and drag function.
- During the preview playback process, you can not see the channel title and record status of current channel. It will display the channel title and the record status once you exit the preview playback.
- During the preview playback, you can not switch the displayed channel or change current window-display mode.
- Please note, the tour function has the higher priority than the preview playback. System automatically exits the preview playback function and its corresponding interface when the tour function started. You can not control the preview playback until the tour function ended.

6.2 Right Click Menu

After you logged in the device, right click mouse, you can see the short cut menu. Please see Figure 6-4.

Here you can set local playback window, PTZ control, video color, search records, remote device and etc. The local playback window includes 1/4/9/16. You can set the detail channel amount in 1/4-window.

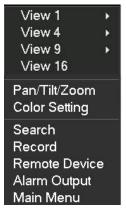


Figure 6-4

6.3 Main Menu

After you logged in, the system main menu is shown as below. See Figure 6-5. There are total seven icons: search, Information, setting, remote device, backup, advanced and shutdown. Move

the cursor to highlight the icon, then double click mouse to enter the sub-menu.



Figure 6-5

6.4 Search & Playback

Click search button in the main menu, search interface is shown as below. See Figure 6-6. Usually there are three file types:

- R: Regular recording file.
- A: External alarm recording file.
- M: Motion detection recording file.

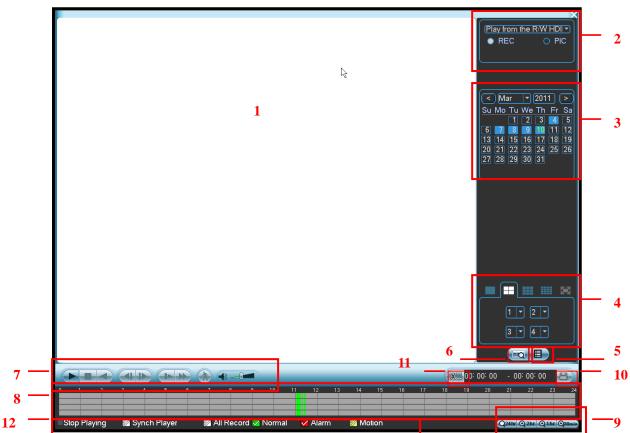


Figure 6-6

SN	Name	bllowing sheet for more information. Function						
1	Display	•Here is to display the searched picture or file.						
	window	●Support 1/4/9/16-window playback.						
2	Search type	 Here you can select to search the picture or the recorded file. When there is displayed picture on the left pane, you can set the corresponding setup 						
3	Calendar	 The blue highlighted date means there is picture or file. Otherwise, there is no picture or file. In any play mode, click the date you want to see, you can see the corresponding record file trace in the time bar. 						
4	Playback mode and channel selection pane.	 Playback mode: 1/4/9/16. (It may vary due to different series.) In 1-window playback mode: you can select 1-16 channels. In 4-window playback mode: you can select 4 channels according to your requirement. In 9-window playback mode, you can switch between 1-8 and 9-16 channels. In 16-window playback mode, you can switch between1-16 and 17-32 channels. The time bar will change once you modify the playback mode or the channel option. 						
5	File list switch button	 Double click it, you can view the picture/record file list of current day. The file list is to display the first channel of the record file. The system can display max 128 files in one time. Use the ▲/▼ or the mouse to view the file. Select one item, and then double click the mouse or click the ENTER button to playback. You can input the period in the following interface to begin accurate search. File type: R—regular record; A—external alarm record; M—Motion detect record. 						
6	Card number search	The card number search interface is shown as below.						
7	Playback control pane.	 Play/Pause There are three ways for you to begin playback. The play button Double click the valid period of the time bar. Double click the item in the file list. In slow play mode, click it to switch between play/pause. 						

Please refer to the following sheet for more information.

		 Backward play In normal play mode, left click the button, the file begins backward play. Click it again to pause current play. In backward play mode, click ►/II to restore normal play. 					
		 In playback mode, click it to play the next or the previous section. You can click continuously when you are watching the files from the same channel. In normal play mode, when you pause current play, you can click ◀ and ▷ to begin frame by frame playback. In frame by frame playback mode, click ►/II to restore normal playback. 					
		 Slow play In playback mode, click it to realize various slow play modes such as slow play 1, slow play 2, and etc. 					
		 Fast forward In playback mode, click to realize various fast play modes such as fast play 1,fast play 2 and etc. 					
		Note: The actual play speed has relationship with the software version.					
		Smart search					
		The volume of the playback					
		Click the snapshot button in the full-screen mode, the system can snapshot 1 picture per second.					
		 It is to display the record type and its period in current search criteria. 					
		 In 4-window playback mode, there are corresponding four time bars. In other playback mode, there is only one time bar. 					
		•Use the mouse to click one point of the color zone in the time bar, system begins playback.					
8	Time bar	•The time bar is beginning with 0 o'clock when you are setting the configuration The time bar zooms in the period of the current playback time when you are playing the file.					
		•The green color stands for the regular record file. The red color stands for the external alarm record file. The yellow stands for the motion detect record file.					
		•The option includes: 24H, 12H, 1H and 30M. The smaller the unit, the larger the					
	Time bar	zoom rate. You can accurately set the time in the time bar to playback the record.					
9	unit	•The time bar is beginning with 0 o'clock when you are setting the configuration.					
		The time bar zooms in the period of the current playback time when you are playing the file.					
		Select the file(s) you want to backup from the file list. System max supports files					
10	Backup	from four channels. Then click the backup button, now you can see the backup					
	Баскир	menu. Click the start button to begin the backup operation. Check the file again you can cancel current selection.					
		System max supports to display 32 files from one channel.					
11	Clin	●It is to edit the file.					
11	Clip	•Please play the file you want to edit and then click this button when you want to					

		edit. You can see the corresponding slide bar in the time bar of the corresponding channel. You can adjust the slide bar or input the accurate time to set the file end time. Click this button again and then save current contents in a new file.					
12	Record type	In any play mode, the time bar will change once you modify the search type.					
13	Smart search	 When system is playing, you can select a zone in the window to begin motion detect. Click the motion detect button to begin play. Current button is null once the motion detect play has begun. The system will take the whole play zone as the motion detect region by default. The motion detect play stopped once you switch the play file. Operations such as set time bar, click the play button, or any file list operation will stop current motion detect play. 					
		Other Functions					
14	Other synchroniz when playt	channel ation switch to play switch to the same period of the corresponding channel to play.					
15	Digital zoo	m When the system is in full-screen playback mode, left click the mouse in the screen. Drag your mouse in the screen to select a section and then left click mouse to realize digital zoom. You can right click mouse to exit.					

Note:

All the operations here (such as playback speed, channel, time and progress) have relationship with hardware version. Some series NVRs do not support some functions or playback speeds.

6.5 Information

Here is for you to view system information. There are total six items: HDD (hard disk information), BPS (data stream statistics), log, Version, online user and remote device information. See Figure 6-7.



Figure 6-7

6.5.1 HDD Information

Here is to list hard disk type, total space, free space, and status. See Figure 6-8. For 32 series product there are max 2 HDDs. For 38 series product there are max 8 HDDs. \circ means current HDD is normal.. - means there is no HDD.

If disk is damaged, system shows as "?". Please remove the broken hard disk before you add a new one.

		HDD I	NFO	
SATA	1234 - 0			
2*	Туре	Total Space	Free Space	Status
All		232.88 GB	3.06 GB	-
2*	Read/Write	232.88 GB	3.06 GB	Error
I 4 Pa	ge Up ト Page	Down	Fn View re	ecording times

Figure 6-8

In Figure 6-8, click view record d time button, HDD record time information interface is shown as in Figure 6-9.

<u>s</u>						HDD	INFO				_
SATA	1	2	3	4							
		0									
2*			Star	tΤ	ime		E	End T	ime		
All		2009	-12-	04	09:21:49		2009-	12-11	16:57:39		
2*		2009	-12-	04	09:21:49		2009-'	12-11	16:57:39		
I4 Pag	ge	Up 🕨	l Pa	ige	Down			Fn	View typ	e and	l capacity

Figure 6-9

Parameter	Function
SATA	1-4 here means there are 4 HDDS.For 32 series product there are max 2 HDDs. For 38 series product there are max 8 HDDs.When HDD is working properly, system is shown as O "_" means there is no HDD.
SN	You can view the HDD amount the device connected to; * means the second HDD is current working HDD.

Туре	The corresponding HDD property.				
Total space	The HDD total capacity.				
Free space	The HDD free capacity.				
Status	HDD can work properly or not.				
Bad track	Display there is bad track or not.				
Page up	Click it to view previous page.				
Page down	Click it to view the next page.				
View recording time	Click it to view HDD record information (file start time and end time).				
View HDD type and capability	Click it to view HDD property, status and etc,				

6.5.2 BPS

Here is for you to view current video data stream (KB/s) and occupied hard disk storage (MB/h). See Figure 6-10.

*			BPS
Channel	Kb/S	MB/H	Wave
1	16202	5344	
2	16192	5341	
3	16192	5341	
4	16192	5341	
5	16192	5341	
6	16192	5341	
7	16192	5341	
8	16192	5341	
9	16192	5341	
10	16192	5341	
11	16192	5341	
12	16192	5341	
13	16192	5341	
14	16192	5341	
15	16192	5341	
16	16192	5341	T. E.

Figure 6-10

For the 32-channel series product, the interface is shown as below. See Figure 6-11.

\$				BPS	;			
Channel	Kb/S	MB/H	Wave		Channel	Kb/S	MB/H	Wave
					17			
					18			
					19			
					20			
					21			
					22			
					23			E
					24			E
					25			Ľ
10					26			Ľ
11				[27			E
12			1		28			
13					29			L
14					30			L
15				[31			L
16					32			

Figure 6-11

6.5.3 Log

Here is for you to view system log file. System lists the following information. See Figure 6-12. Log types include system operation, configuration operation, data management, alarm event, record operation, log clear and etc.

Please select start time and end time, then click search button. You can view the log files.

System max displays 100 logs in one page. It can max save 1024 log files.

Please page up/down button to view if there are more than ten files.

System also supports the backup function; you can click the backup button to save the log files in the USB devices.

Type All Start Time 2011 - 03 - 09 00 : 00 : 00 End Time 2011 - 03 - 10 00 : 00 Details Search Details Search 100 Log Time Event Event 90 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 90 90 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 91 91 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 92 92 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 93 93 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 94 94 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 96 95 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 96 96 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 97 97 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 98 99 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 98 99 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 99 99 <th>V</th> <th>LOG</th>	V	LOG
End Time 2011 0.0 0.0 0.0 Details Search 100 Log Time Event E	Туре	All
100 Log Time Event 89 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 90 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 91 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 92 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 93 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 94 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 95 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 96 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 97 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 98 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 99 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 90 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 910	Start Tir	me 2011 - 03 - 09 00 : 00 : 00
89 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 90 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 91 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 92 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 93 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 94 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 95 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 96 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 97 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 98 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 97 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 98 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 99 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 99 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 90 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 91 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 92 2011-03-09 16:03:12 Playback f	End Tin	ne 2011 - 03 - 10 00 : 00 : 00 Details Search
89 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 90 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 91 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 92 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 93 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 94 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 95 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 96 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 97 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 98 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 99 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 90 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 100 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12]	100	Log Time Event
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94 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 95 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 96 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 97 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 97 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 98 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 99 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 100 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12]	92	2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12]
95 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 96 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 97 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 98 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 99 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 99 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 100 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12]	93	2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12]
96 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 97 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 98 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 99 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 100 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 114 Page Up NI Page Down Backup Clear	94	2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12]
97 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 98 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 99 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 100 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 110 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 14 Page Up ▶l Page Down Backup Clear	95	2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12]
98 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 99 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 100 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 14 Page Up Nt Page Down Backup	96	2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12]
99 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 100 2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12] 14 Page Up Nt Page Down Backup	97	2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12]
100 2011-03-09 16:03:12 Plaýback file[2011-03-09 16:03:12] Image: Clear 14 Page Up M Page Down Backup Clear	98	2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12]
14 Page Up M Page Down Backup Clear	99	2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12]
	100	2011-03-09 16:03:12 Playback file[2011-03-09 16:03:12]
	14 Page	e Up 🙌 Page Down (Backup) (Clear)
[Page Up][Page Down] 1/11(Curent Page/Total Page) JumpTo 1 [(GO)		
	Page	Up Page Down 1/11(Curent Page/Total Page) JumpTo 1 (GO)

Figure 6-12

Click the Details button or double click the log item, you can view the detailed information. See Figure 6-13.

	Detailed Information
Log Time	2011-03-09 16:03:12
Log Type	File operation>Record Playback
Type	Record Playback
IP Address	10.15.2.187
User	admin
Channel	10
File Name	2011-03-08 15:00:142011-03-08 15:00:14 R
Previous Next	Сок

Figure 6-13

6.5.4 Version

Here is for you to view some version information. See Figure 6-14.

- Channel
- Alarm in
- Alarm out
- System version:
- Build Date
- Web
- Serial number



Figure 6-14

6.5.5 Online Users

Here is for you manage online users connected to the local device. See Figure 6-15. You can disconnect one user or block one user if you have proper system right.

8	ONLINE USERS	×
User Name	IP	
J.W	10.6.2.37	
Disconnect	Block for 60	sec.

Figure 6-15

6.5.6 Remote Device Information

Here you can view the channel status of the remote device, connection log and network balance information and etc.

Channel status: Here you can view the IPC status of the corresponding channel such as motion detect, video loss, camera masking, alarm and etc. See Figure 6-16.

	•		F	Remote Devic	e Info			_
(Channel Sta	<mark>tus</mark> Conn	ection Log	Net Load				
	Device Stat							
	Channel	Status		MD	Video Loss	Camera Mask	Alarm In	Cha
	1	•	10.42.2.61					
						ĸ		
	•		11					
	Refresh	D						



Connection log: In this interface, you can search the IPC log information of the corresponding channel. It includes IPC online, offline and etc. See Figure 6-17.

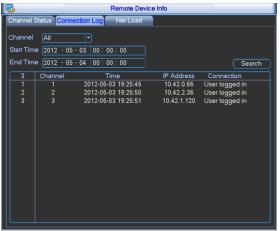


Figure 6-17

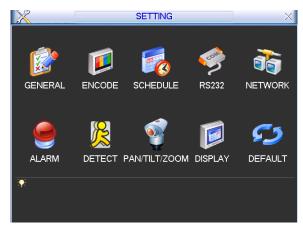
Network Balance: Here you can view network data transmission speed, receive speed. See Figure 6-18.



Figure 6-18

6.6 Setting

In main menu, highlight setting icon and double click mouse. System setting interface is shown as below. See Figure 6-19.





Important

Please note you need to have the proper right to implement the following operation.

6.6.1 General

General setting includes the following items. See Figure 6-20.

- System time: Here is for you to set system time
- Date format: There are three types: YYYY-MM-DD: MM-DD-YYYYY or DD-MM-YYYY.
- Date separator: There are three denotations to separate date: dot, beeline and solidus.
- DST: Here you can set DST time and date. Please enable DST function and then click set button. You can see an interface is shown as in Figure 6-21. Here you can set start time and end time by setting corresponding week setup. In Figure 6-21, enable date button, you can

see an interface is shown as in Figure 6-22. Here you can set start time and end time by setting corresponding date setup.

- Time format: There are two types: 24-hour mode or 12-hour mode.
- Language: System supports various languages: Chinese (simplified), Chinese (Traditional), English, Italian, Japanese, French, Spanish (All languages listed here are optional. Slight difference maybe found in various series.)
- HDD full: Here is for you to select working mode when hard disk is full. There are two options: stop recording or rewrite. If current working HDD is overwritten or the current HDD is full while the next HDD is no empty, then system stops recording, If the current HDD is full and then next HDD is not empty, then system overwrites the previous files.
- Pack duration: Here is for you to specify record duration. The value ranges from 60 to 120 minutes. Default value is 60 minutes.
- Device No: When you are using one remote control (not included in the accessory bag) to control several NVRs, you can give a name to each NVR for your management.
- Video standard: There are two formats: NTSC and PAL.
- Realtime play: It is to set playback time you can view in the preview interface. The value ranges from 5 to 60 minutes.
- Device ID: Please input a corresponding device name here.
- Startup wizard: Once you check the box here, system will go to the startup wizard directly when the system restarts the next time. Otherwise, it will go to the login interface.
- Auto logout: Here is for you to set auto logout interval once login user remains inactive for a specified time. Value ranges from 0 to 60 minutes.
- Navigation bar: Check the box here, system displays the navigation bar on the interface.
- IPC Time Sync: You can input an interval here to synchronize the NVR time and IPC time.

Note:

Since system time is very important, do not modify time casually unless there is a must! Before your time modification, please stop record operation first!

After completing all the setups please click save button, system goes back to the previous menu.

		GENERAL	
System Time Basic Settings_	2012 - 09 - 17 12 :	27:47	Save
Date Format Date Separator		DST S	let
Device Settings			
Language		HDD Full	Overwrite 🔻
Video Standard	PAL 🔻	Pack Duration	60 min.
Device No.	8	Realtime Play	5 min.
Device ID	NVR		
Other Settings_			
📃 Startup Wiza	rd	Auto Logout	10 min.
Navigation		IPC Time Sync	24 Hours
Default			OK Cancel

Figure 6-20

8	DST	X
Day of We	ek O Date	
Start: Jun	▼ 1st ▼ Sat ▼	00 : 00
End: Sep	▼ 1st ▼ Sun ▼	00 : 00
	OK Can	cel

Figure 6-21

	DST	×
O Day of Week 🄍 Da	le	
Start: 💽 2008 - 06 - 0	1 00:00	
End: 💽 2008 - 09 - 0	1 00:00	
	OK Cancel	

Figure 6-22

6.6.2 Encode

Encode setting includes the following items. See Figure 6-23. Please note some series do not support extra stream.

- Channel: Select the channel you want.
- Type: Please select from the dropdown list. There are three options: regular/motion detect/alarm. You can set the various encode parameters for different record types.
- Compression: System supports H.264, MPEG4, MJPEG and etc.
- Resolution: The mainstream resolution type is IPC's encoding config. Generally there is D1/720P/1080P.
- Frame rate: It ranges from 1f/s to 25f/s in NTSC mode and 1f/s to 30f/s in PAL mode.
- Bit rate type: System supports two types: CBR and VBR. In VBR mode, you can set video quality.
- Quality: There are six levels ranging from 1 to 6. The sixth level has the highest image quality.
- Video/audio: You can enable or disable the video/audio.
- Overlay: Click overlay button, you can see an interface is shown in Figure 6-24.
- Cover area (Privacy mask): Here is for you to set privacy mask section. You can drag you mouse to set proper section size. In one channel video, system max supports 4 zones in one channel.
- Preview/monitor: privacy mask has two types. Preview and Monitor. Preview means the privacy mask zone can not be viewed by user when system is in preview status. Monitor means the privacy mask zone can not be view by the user when system is in monitor status.
- ☆ Time display: You can select system displays time or not when you playback. Please click set button and then drag the title to the corresponding position in the screen.
- Channel display: You can select system displays channel number or not when you playback.
 Please click set button and then drag the title to the corresponding position in the screen.
- Copy: After you complete the setup, you can click Copy button to copy current setup to other channel(s). You can see an interface is shown as in Figure 6-25. You can see current channel number is grey. Please check the number to select the channel or you can check the

box ALL. Please click the OK button in Figure 6-25 and Figure 6-23 respectively to complete the setup. Please note, once you check the All box, you set same encode setup for all channels. Audio/video enable box, overlay button and the copy button is shield. See Figure 6-26.

		ENCODE	
Channel	1		
Туре	Regular 🔻	Extra Stream1 🔻	
Compression	H.264 🔻	H.264 🔻	
Resolution	D1 🔻	CIF 🔻	
Frame Rate(FPS)	25 🔻	6 🔻	
Bit Rate Type	CBR 🔻	CBR 🔻	
Bit Rate(Kb/S)	2048 🔻	160 🔽	
Reference Bit Rate	768-4096Kb/S	40-256Kb/S	
Audio/Video			
Audio Format	G711a 🔻		▶
	OVERLAY		
	SNAPSHOT		
Default C	Сору		OK Cancel

Please highlight icon 🔳 to select the corresponding function.

Figure 6-23

	OVERLAY	X
Cover-Area	Preview Monitor	Set
Time Display	🔲 Monitor 🦳	Set
Channel Display	🔲 Monitor 🦳	Set
C	OK Cancel	

Figure 6-24

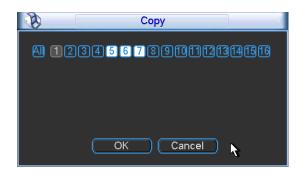


Figure 6-25

		ENCODE	
Channel	1		
Туре	Regular 🔻	Extra Stream1 🔻	
Compression	H.264 🔻	H.264 🔻	
Resolution	D1 🔻	CIF	
Frame Rate(FPS)	25 💌	6 🔻	
Bit Rate Type	CBR 🔻	CBR 🔻	
Bit Rate(Kb/S)	2048 🔻	160 🔻	
Reference Bit Rate	768-4096Kb/S	40-256Kb/S	
Audio/Video			
Audio Format	G711a 🔻		▶
(
			OK Cancel

Figure 6-26

6.6.3 Schedule

In the main menu, from setting to schedule, you can go to schedule menu. See Figure 6-27.

- Channel: Please select the channel number first. You can select "all" if you want to set for the whole channels.
- Week day: There are eight options: ranges from Saturday to Sunday and all.
- Pre-record: System can pre-record the video before the event occurs into the file. The value ranges from 1 to 30 seconds depending on the bit stream.
- Redundancy: System supports redundancy backup function. It allows you backup recorded file in two disks. You can highlight Redundancy button to activate this function. Please note, before enable this function, please set at least one HDD as redundant. (Main menu->Advanced->HDD Management). Please note this function is null if there is only one HDD.
- Snapshot: You can enable this function to snapshoot image when alarm occurs.
- Record types: There are four types: regular, motion detection (MD), Alarm, MD & alarm.
- Holiday setting: Click it you can see an interface shown as in Figure 6-28. Here you can set holiday date. Check the box, it means current channel shall record as your holiday setup.
 Please go to the Period interface to set the holiday date record setup.

Please highlight icon local to select the corresponding function. After completing all the setups please click save button, system goes back to the previous menu.

At the bottom of the menu, there are color bars for your reference. Green color stands for regular recording, yellow color stands for motion detection and red color stands for alarm recording. The white means the MD and alarm record is valid. Once you have set to record when the MD and alarm occurs, system will not record neither motion detect occurs nor the alarm occurs.

6			SCHEDULI	E				
Channel	1 • Pr	eRecord 4		sec.	Redundan	cy 🛄 Si	napshot	
	Holidays S	etting)						
Period	Mon 🔻	Record Typ	e Regular	MD	Alarm	MD&A	larm	
Period 1	00:00	-24 :00)					
Period 2	00:00	-24 :00						
Period 3	00:00	-24 :00						
Period 4	01:00	-24 :00						
Period 5	00:00	-24 :00	i o					
Period 6	00:00	-24 :00	í o					
	Regular	MD	Aları	n	📃 MD&	Alarm		
0 3	6	9	12		15 1	8	21	24
L								
Defeut					_		<u> </u>	
Defaul	t_) (Cor	<u>y</u>				ок)	Cance	e

Figure 6-27

Ø		20	12-06-1	18		_
< Ju	n		-	2012		
Su	Мо	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
OK Cancel						
		OK		Cance		

Figure 6-28

6.6.3.1 Quick Setup

Copy function allows you to copy one channel setup to another. After setting in channel 1, click Copy button, you can go to interface Figure 6-29. You can see current channel name is grey such as channel 1. Now you can select the channel you wan to paste such as channel 5/6/7. If you wan to save current setup of channel 1 to all channels, you can click the first box "ALL". Click the OK button to save current copy setup. Click the OK button in the Encode interface, the copy function succeeded.

Please note, if you select ALL in Figure 6-29, the record setup of all channels are the same and the Copy button becomes hidden.

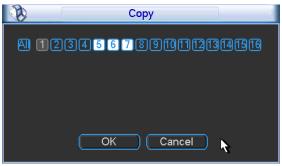


Figure 6-29

6.6.4 RS232

RS232 interface is shown as below. There are five items. See Figure 6-30.

- Function: There are various devices for you to select. Console is for you to use the COM or mini-end software to upgrade or debug the program. The control keyboard is for you to control the device via the special keyboard. Transparent COM (adapter) is to connect to the PC to transfer data directly. Protocol COM is for card overlay function. Network keyboard is for you to use the special keyboard to control the device. PTZ matrix is to connect to the peripheral matrix control.
- Baud rate: You can select proper baud rate.
- Data bit: You can select proper data bit. The value ranges from 5 to 8.
- Stop bit: There are three values: 1/1.5/2.
- Parity: there are five choices: none/odd/even/space mark.
- System default setup is:
- Function: Console
- Baud rate:115200
- Data bit:8
- Stop bit:1
- Parity: None

After completing all the setups please click save button, system goes back to the previous menu.

9		RS232	×
Function	Console		
Baudrate	115200		
Data Bits	8		
Stop Bits	1	•	
Parity	None		
Default) (Save	e Cancel	



6.6.5 Network

Here is for you to input network information. See Figure 6-31.

- IP Version: There are two options: IPv4 and IPv6. Right now, system supports these two IP address format and you can access via them.
- MAC address: The host in the LAN can get a unique MAC address. It is for you to access in the LAN. It is read-only.
- IP address: Here you can use up/down button (▲▼) or input the corresponding number to input IP address. Then you can set the corresponding subnet mask the default gateway.
- Subnet prefix: The input value ranges from 0 to 128. It is to mark a specified network MAC address. Usually it includes an organization of multiple-level.
- Default gateway: Here you can input the default gateway. Please note system needs to check the validity of all IPv6 addresses. The IP address and the default gateway shall

be in the same IP section. That is to say, the specified length of the subnet prefix shall have the same string.

- DHCP: It is to auto search IP. When enable DHCP function, you can not modify IP/Subnet mask /Gateway. These values are from DHCP function. If you have not enabled DHCP function, IP/Subnet mask/Gateway display as zero. You need to disable DHCP function to view current IP information. Besides, when PPPoE is operating, you can not modify IP/Subnet mask /Gateway.
- TCP port: Default value is 37777. You can change if necessary.
- UDP port: Default value is 37778. You can change if necessary.
- HTTP port: Default value is 80.
- RTSP port: Default value is 554.

Important: System needs to reboot after you changed and saved any setup of the above four ports. Please make sure the port values here do not conflict.

- Max connection: system support maximal 20 users. 0 means there is no connection limit.
- Preferred DNS server: DNS server IP address.
- Alternate DNS server: DNS server alternate address.
- Transfer mode: Here you can select the priority between fluency/video qualities.
- LAN download: System can process the downloaded data first if you enable this function. The download speed is 1.5X or 2.0X of the normal speed.

Important

For the IP address of IPv6 version, default gateway, preferred DNS and alternate DNS, the input value shall be 128-digit. It shall not be left in blank.

After completing all the setups please click save button, system goes back to the previous menu.

3	NETWORK	a	NETWORK	
IP Version IP Address Subnet Mask Gateway TCP Port UDP Port Max Connection Preferred DNS Alternate DNS	8 .8 .8 8 .8 .4 LAN Download	IP Version MACAddress IP Address Gateway TCP Port UDP Port Max Connection Preferred DNS Alternate DNS	IPv6 • te80::5054:4cff.ted6:16ec/64 2001:da8:207::9402 /64 2001:da8:207::9401 40003 HTTP Port 8086 37778 RTSP Port 554 20 ::##:8.8.8.8 ::##:8.8.8.8 ::##:8.8.4.4 Transfer Mode Latency LAN Download	k
		(NETWORK SET	TTING	
Default	Save Cancel	Default	Save (Cancel

Figure 6-31

6.6.5.1 Network Seting

Network setting interface is shown as in Figure 6-32. Please draw a circle to enable corresponding function and then double click current item to go to setup interface.

8	NETWORK SETTING	
 ✓ IP FILTER ✓ NTP NULTICAST PPPOE DDNS UPNP 3G SETTING WIFI SETTING EMAIL FTP ALARM SERVER SNMP REGISTER 	Trusted Sites : 0 time.windows.com : 60 239.255.42.42 No Available DDNS Setup Port Forwarding No connection MailServer : 25 Record FTP : 0.0.0	
Default		Save Cancel

Figure 6-32

6.6.5.2 IP Filter

IP filter interface is shown as in Figure 6-33. You can add IP in the following list. The list supports max 64 IP addresses.

Please note after you enabled this function, only the IP listed below can access current NVR. If you disable this function, all IP addresses can access current NVR.

	IP FILTER
Restricted Type Trusted Sites IP Version IPv4 IP Address 10 . 6 . 2 . 230 Add IP	Restricted Type Trusted Siles IP Version IPv6 IP Address (2001:255::258:bc52) Add IP 12:2.4.7 2001:255::258:bc52 Add IP
Delete IP Delete All	Delete IP Delete All
Default OK Cancel	Default OK Cancel



6.6.5.3 NTP Setup

You need to install SNTP server (Such as Absolute Time Server) in your PC first. In Windows XP OS, you can use command "net start w32time" to boot up NTP service.

NTP setup interface is shown as in Figure 6-34.

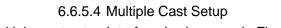
- Host IP: Input your PC address.
- Port: This series NVR supports TCP transmission only. Port default value is 123.
- Update interval: minimum value is 1. Max value is 65535. (Unit: minute)
- Time zone: select your corresponding time zone here.
- Update period: You can input interval here.
- Manual update: It allows you to synchronize the time with the server manually.

Here is a sheet for your time zone setup.

GMT+0
GMT+1
GMT+2
GMT+3
GMT+5
GMT+7
GMT+8
GMT+9
GMT+10
GMT-10
GMT-9
GMT-8
GMT-7
GMT-6
GMT-5
GMT-4
GMT-3
GMT-2

	NTP	
Server IP	time.windows.com	123
Port	123	2
Time Zone	GMT+08:00)
Update Period	60	min.
Default	OK Cancel	(Manual Update)

Figure 6-34



Multiple-cast setup interface is shown as in Figure 6-35.

	MULTICAST					
IP Address Port	239 · 255 · 42 · 42 36666					
Default	OK Cancel					

Figure 6-35

Here you can set a multiple cast group. Please refer to the following sheet for detailed information.

- IP multiple cast group address
- -224.0.0.0-239.255.255.255

-"D" address space

- The higher four-bit of the first byte="1110"
- Reserved local multiple cast group address

-224.0.0.0-224.0.0.255

-TTL=1 When sending out telegraph

-For example

- 224.0.0.1 All systems in the sub-net
- 224.0.0.2 All routers in the sub-net

224.0.0.4 DVMRP router

224.0.0.5 OSPF router

224.0.0.13 PIMv2 router

Administrative scoped addressees

-239.0.0.0-239.255.255.255

-Private address space

- Like the single broadcast address of RFC1918
- Can not be used in Internet transmission
- Used for multiple cast broadcast in limited space.

Except the above mentioned addresses of special meaning, you can use other addresses. For example:

Multiple cast IP: 235.8.8.36

Multiple cast PORT: 3666.

After you logged in the Web, the Web can automatically get multiple cast address and add it to the multiple cast groups. You can enable real-time monitor function to view the view.

Please note multiple cast function applies to special series only.

6.6.5.5 PPPoE

PPPoE interface is shown as in Figure 6-36.

Input "PPPoE name" and "PPPoE password" you get from your ISP (Internet service provider). Click save button, you need to restart to activate your configuration.

After rebooting, NVR will connect to internet automatically. The IP in the PPPoE is the NVR dynamic value. You can access this IP to visit the unit.

	PPPOE							
					_			
User Name	<u> </u>							
Password								
IP Address	0	•	0	•	0	•	0	
	0		0		0		0	
		V	_		<u></u>		_	
Ĺ	0	N.	_		Car	icei		

Figure 6-36

6.6.5.6 DDNS Setup

DDNS setup interface is shown as in Figure 6-37.

You need a PC of fixed IP in the internet and there is the DDNS software running in this PC. In other words, this PC is a DNS (domain name server).

In network DDNS, please select DDNS type and highlight enable item. Them please input your PPPoE name you get from you IPS and server IP (PC with DDNS). Click save button and then reboot system.

Click save button, system prompts for rebooting to get all setup activated.

After rebooting, open IE and input the domain name.

Now you can open DDNSServer web search page.

DDNS
DDNS Type NO-IP DDNS 🔽 🔲 Enable
Server IP dynupdate.no-ip
Port 80
Domain Name
User Name
Password
Update Period 300 sec.
Default OK Cancel

Figure 6-37

Please note NNDS type includes: CN99 DDNS, NO-IP DDNS, Private DDNS, and Dyndns DDNS. All the DDNS can be valid at the same time, you can select as you requirement.

Private DDNS function shall work with special DDNS server and special Professional Surveillance Software (PSS).

Private DDNS and Client-end Introduction

1) Background Introduction

Device IP is not fixed if you use ADSL to login the network. The DDNS function allows you to access the NVR via the registered domain name. Besides the general DDNS ,the private DDNS works with the device from the manufacturer so that it can add the extension function.

2) Function Introduction

The private DDNS client has the same function as other DDNS client end. It realizes the bonding of the domain name and the IP address. Right now, current DDNS server is for our own devices only. You need to refresh the bonding relationship of the domain and the IP regularly. There is no user name, password or the ID registration on the server. At the same time, each device has a default domain name (Generated by MAC address) for your option. You can also use customized valid domain name (has not registered.).

3) Operation

Before you use our private DDNS, you need to enable this service and set proper server address, port value and domain name.

- Server address: www.dahuaddns.com
- Port number: 80
- Domain name: There are two modes: Default domain name and customized domain name.

Except default domain name registration, you can also use customized domain name (You can input your self-defined domain name.) After successful registration, you can use domain name to login installed of the device IP.

• User name: It is optional. You can input your commonly used email address.

Important

- Do not register frequently. The interval between two registrations shall be more than 60 seconds. Too many registration requests may result in server attack.
- System may take back the domain name that is idle for one year. You can get a notification email before the cancel operation if your email address setup is OK.

6.6.5.7 UPNP

The UPNP protocol is to establish a mapping relationship between the LAN and the WAN. Please input the router IP address in the LAN in Figure 6-31. Double click the UPNP item in Figure 6-31, you can see the following interface. See Figure 6-38.

- UPNP on/off : Turn on or off the UPNP function of the device.
- Status: When the UPNP is offline, it shows as "Unknown". When the UPNP works it shows "Success"
- Router LAN IP: It is the router IP in the LAN.
- WAN IP: It is the router IP in the WAN.
- Port Mapping list: The port mapping list here is the one to one relationship with the router's port mapping setting.
- Enable Switch \square : It shows that the function of port mapping is enabled in this port.
- List:
 - ♦ Service name: Defined by user.
 - ♦ Protocol: Protocol type
 - ♦ Internal port: Port that has been mapped in the router.
 - ♦ External port: Port that has been mapped locally.
- Default: UPNP default port setting is the HTTP, TCP and UDP of the NVR.
- Add to the list: Click it to add the mapping relationship.
- Delete: Click it to remove one mapping item.

Double click one item; you can change the corresponding mapping information. See Figure 6-39.

Important:

When you are setting the router external port, please use $1024\sim5000$ port. Do not use well-known port $1\sim255$ and the system port $256\sim1023$ to avoid conflict.

For the TCP and UDP, please make sure the internal port and external port are the same to guarantee the proper data transmission.

×		UPNP		
UPNP Status (Router LAN IP(ON OFf unknow 0 . 0 . 0 . 0 . 0 . 0 .	<u> </u>		
3 Service N 1 ☑ HTTP 2 ☑ TCP 3 ☑ UDP		Protocol TCP TCP UDP	Int.Port 80 37777 37778	Ext.Port 80 37777 37778
Default (#	Add to the List)	elete		OK Cancel



	PORT INFO
	`
Service Name	ТСР
Protocol	TCP
Int.Port	37777
Ext.Port	37777
C	OK Cancel

Figure 6-39

6.6.5.8 WIFI Setting

You can view the WIFI connection status in the Network Setting interface. See Figure 6-40. You can view current connection status and IP address if there is a connection.

	NETWORK SETTING
	Trusted Sites : 0
	time.windows.com : 60
✓ MULTICAST ✓ PPPOE	239.255.42.42
DDNS	Private DDNS :
✓ UPNP 3G SETTING	Port Forwarding
✓ WIFI SETTING	No connection
🗸 EMAIL 🔨	MailServer : 25
	Record FTP : 0.0.0.0
ALARM SERVER	Private : 10.1.0.2
REGISTER	0.0.0.0 : 8000
Default	Save Cancel

Figure 6-40

The WIFI interface is shown as below. See Figure 6-41.

- Auto connect WIFI: Check the box here, system automatically connects to the previous WIFI hotspot.
- Refresh: You can click it to search the hotspot list again. It can automatically add the information such as the password if you have set it before.
- Disconnect: Here you can click it to turn off the connection.
- Connect: Here you can click it to connect to the hotspot. System needs to turn off current connection and then connect to a new hotspot if there is connection of you selected one. See Figure 6-42.

Q	WIFI SETTING							
	Auto Connect WIFI							
	7	SSID	Signal Intensity	WIFI Working In				
	1	TP-LINK_52019C	auti					
	2	10539	att	Current Hotspot	No connection			
	3	×ingjiaibn	anti					
		TP-LINK_076ACA	1111	IP Address				
	5	14029						
	6	10388		Subnet Mask				
	7	10333	n 11					
				Gateway				
	Refres	h Connection	DisConnect	ОК	Cancel Apply			

Figure 6-41

8	N	/IFI (Con	nec	tion						
SSID		kqy									
Connection S	Status	No	on	nec	tion						
Verification T	уре	WE	Р			•					
Encrypt Type	9	AU	го			•					
Connection I	Password	•••	•••	•••	•••						
IP Address		0		0		0		0		DHCF	
Subnet Mask		0		0		0		0			
Gateway		0		0		0		0			
C	ОК		Can	cel		Cc	onne	ectior	้า		

Figure 6-42

After successfully connection, you can see the following interface. You can see it is connected now. See Figure 6-43.

	WIFI C	onnectior	n	
SSID	kqy			
Connection S	tatus Coni	nected		
Verification Ty	/pe WEI	>	-	
Encrypt Type	AUT	0		
Connection P	assword 🐽	•••••		
IP Address	192	· 168 ·	1 . 10	
Subnet Mask	255	· 255 ·	255 . 0	
Gateway	192	· 168 ·	1.1	
	ок с	Cancel	DisConr	nect

Figure 6-43

- WIFI working status: Here you can view current connection status.
- Please note:
- After successful connection, you can see WIFI connection icon at the top right corner of the preview interface.
- When the hotspot verification type is WEP, system displays as AUTO since the device can not detect its encryption type.
- System does not support verification type WPA and WPA2. The display may become abnormal for the verification type and encryption type.

After device successfully connected to the WIFI, you can view the hotspot name, IP address, subnet mask, default gateway and etc. See Figure 6-44.

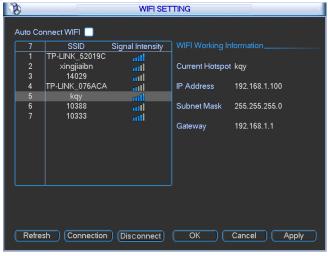


Figure 6-44

6.6.5.9 Email

The email interface is shown as below. See Figure 6-45.

- SMTP server: Please input your email SMTP server IP here.
- Port: Please input corresponding port value here.
- User name: Please input the user name to login the sender email box.
- Password: Please input the corresponding password here.
- Sender: Please input sender email box here.

- Title: Please input email subject here. System support English character and Arabic number. Max 32-digit.
- Receiver: Please input receiver email address here. System max supports 3 email boxes.
- SSL enable: System supports SSL encryption box.
- Interval: The send interval ranges from 0 to 3600 seconds. 0 means there is no interval.
- Health email enable: Please check the box here to enable this function. This function allows the system to send out the test email to check the connection is OK or not.
- Interval: Please check the above box to enable this function and then set the corresponding interval. System can send out the email regularly as you set here. Click the Test button, you can see the corresponding dialogue box to see the email connection is OK or not. See Figure 6-46.

Please note system will not send out the email immediately when the alarm occurs. When the alarm, motion detection or the abnormity event activates the email, system sends out the email according to the interval you specified here. This function is very useful when there are too many emails activated by the abnormity events, which may result in heavy load for the email server.

B	EMAIL
SMTP Server Anonymous User Name	MailServer Port [25 0 Password
Receiver	
Sender	
Title	DVR ALERT
Attachment	
SSL Enable	
Event Interval	120 sec.
HealthEnable	
Interval	60 min.
	OK Cancel Test

Figure 6-45



Figure 6-46

6.6.5.10 FTP

You need to download or buy FTP service tool (such as Ser-U FTP SERVER) to establish FTP service.

Please install Ser-U FTP SERVER first. From "start" -> "program" -> Serv-U FTP Server -> Serv-U Administator. Now you can set user password and FTP folder. Please note you need to grant write right to FTP upload user. See Figure 6-47.

Serv-U Administrator - << Local Server >	>>X
× Serv-U Servers Serv-U Servers Settings S	Account General Dir Access IP Access UL/DL Rati Account General Dir Access IP Access UL/DL Rati Path Access Group Files DADVR RWADLCR Wite Vite V Ut/DL Rati Vite Vite V Wite Vite Vite V Use Execute Directories: V List V Create V Remove Storticologie Inherit Inherit Add Delete Edit
<< Local Server >> [System Administrator]	Down: 0.000 kBps / Up: 0.000 kBps 3 of 32767 Sockets 0 (0) Users 0 Xfers //

Figure 6-47

You can use a PC or FTP login tool to test setup is right or not.

For example, you can login user ZHY to <u>FTP://10.10.7.7</u> and then test it can modify or delete folder or not. See Figure 6-48.

nterne	t Explorer	
?	To log on to th	is FTP server, type a user name and password.
×	FTP server:	10.10.7.7
	<u>U</u> ser name:	
	<u>P</u> assword:	
	After you log (on, you can add this server to your Favorites and return to it easily.
		nymousły
		Log On Cancel

Figure 6-48

System also supports upload multiple NVRs to one FTP server. You can create multiple folders under this FTP.

In Figure 6-31, select FTP and then double click mouse. You can see the following interface. See Figure 6-49.

Please highlight the icon in front of Enable to activate FTP function.

Here you can input FTP server address, port and remote directory. When remote directory is null, system automatically create folders according to the IP, time and channel.

User name and password is the account information for you to login the FTP.

File length is upload file length. When setup is larger than the actual file length, system will upload the whole file. When setup here is smaller than the actual file length, system only uploads the set length and auto ignore the left section. When interval value is 0, system uploads all corresponding files.

After completed channel and weekday setup, you can set two periods for one each channel. Click the Test button, you can see the corresponding dialogue box to see the FTP connection is OK or not. See Figure 6-50.

1	FTP
Type Server IP User Name Password Remote Directory	Record FTP ▼ 0 . 0 . 0 . 0 Port 21 O O O O O O O O O O O O O O O O Anonymous File Length 0 M
Channel Weekday Time Period 1 Time Period 2	1 ▼ Fri ▼ Alarm Motion General 00:00 -24:00 00:00 -24:00
	CK Cancel Test

Figure 6-49

	Message
FTP Te	est Connect Failed
	ОК

Figure 6-50

6.6.5.11 Alarm center

Interface is pre-reserved for the users to develop this function.

6.6.5.12 SNMP

SNMP is an abbreviation of Simple Network Management Protocol. It provides the basic network management frame of the network management system. The SNMP widely used in many environments. It is used in many network device, software and system. You can set in the following interface. See Figure 6-51.

8		SNMP		
SNMP Enable				
	V1			
	V2			
SNMP Port	161			
Read-Community	public			
Write-Community	private			
Trap Address			₹	
Trap Port	162			
Default			Save (Cancel

Figure 6-51

Please enable the SNMP function. Use the corresponding software tool (MIB Builder and MG-SOFT MIB Browser. You still need two MIB file: DAHUA-BASE-SNMP-MIB, DAHUA-NVR-SNMP-MIB) to connect to the device. You can get the device corresponding configuration information after successfully connection.

Please follow the steps listed below to configure.

- In Figure 6-51, check the box to enable the SNMP function. Input the IP address of the PC than is running the software in the Trap address. You can use default setup for the rest items.
- Compile the above mentioned two MIB file via the software MIB Builder.
- Run MG-SOFT MIB Browser to load the file from the previous step to the software.
- Input the device IP you want to manage in the MG-SOFT MIB Browser. Please set the corresponding version for your future reference.
- Open the tree list on the MG-SOFT MIB Browser; you can get the device configuration. Here you can see the device has how many video channels, audio channels, application version and etc.

6.6.5.13 Auto register

This function allows the device to auto register to the proxy you specified. In this way, you can use the client-end to access the NVR and etc via the proxy. Here the proxy has a switch function. In the network service, device supports the server address of IPv4 or domain.

Please follow the steps listed below to use this function.

Please set proxy server address, port, and sub-device name at the device-end. Please enable the auto register function, the device can auto register to the proxy server.

1) The setup interface is shown as in Figure 6-52.

Important

Do not input network default port such as TCP port number.

(A)		REGISTER	
Enable			
No.	1		
Server IP Address	0.0.0.0		
Port	8000		
ID	0		
		₩.	
Default			Save Cancel

Figure 6-52

2) The proxy server software developed from the SDK. Please open the software and input the global setup. Please make sure the auto connection port here is the same as the port you set in the previous step.

3) Now you can add device. Please do not input default port number such as the TCP port in the mapping port number. The device ID here shall be the same with the ID you input in Figure 6-52. Click Add button to complete the setup.

4) Now you can boot up the proxy server. When you see the network status is Y, it means your registration is OK. You can view the proxy server when the device is online.

Important

The server IP address can also be domain. But you need to register a domain name before you run proxy device server.

6.6.6 Alarm

In the main menu, from Setting to Alarm, you can see alarm setup interface. See Figure 6-53.

- Alarm in: Here is for you to select channel number.
- Event type: There are four types. Local input/network input/IPC external/IPC offline alarm.
 - ♦ Local input alarm: The alarm signal system detects from the alarm input port.
 - ♦ Network input alarm: It is the alarm signal from the network.
 - ♦ IPC external alarm: It is the on-off alarm signal from the front-end device and can activate the local NVR.
 - ♦ IPC offline alarm: Once you select this item, system can generate an alarm when the front-end IPC disconnects with the local NVR. The alarm can activate record, PTZ, snap and etc. The alarm can last until the IPC and the NVR connection resumes.
- Enable: Please you need to highlight this button to enable current function.
- Type: normal open or normal close.
- Period: It is to set local alarm period. System only enables local alarm in the specified period. Click the Set button; you can select the business day and the non-business day. Please note for the work day/free day setup and the specific work day setup, system just saves the latest setup. For example, the work day ranges from 8:30-17:30 Monday to Friday, and then you set the period 7:10-18:00 for Monday. So, the arm period of the Monday ranges from 7:10 to 18:00. Please highlight the corresponding button to enable this function.

- PTZ activation: When an alarm occurred, system can activate the PTZ operation. The PTZ activation lasts an anti-dither period.
 - ♦ In the Pan/Tilt/Zoom interface (Main menu->Setting-> Pan/Tilt/Zoom), please set video channel, speed dome protocol and etc.
 - Select the channel of current speed dome as current monitor video and the right click mouse to select Pan/Tilt/Zoom item. Now you can set preset, tour pattern.
 - ♦ In Figure 6-54, click "select" button, you can see an interface is shown as in Figure 6-55.
 Here you can set the activation operation such as preset tour, pattern and enable.
- Anti-dither: Here you can set anti-dither time. The value ranges from 5 to 600s. The anti-dither time refers to the alarm signal lasts time. It can be seem as the alarm signal activation stays such as the buzzer, tour, PTZ activation, snapshot, channel record. The stay time here does not include the latch time. During the alarm process, the alarm signal can begin an anti-dither time if system detects the local alarm again. The screen prompt, alarm upload, email and etc will not be activated. For example, if you set the anti-dither time as 10 second, you can see the each activation may last 10s if the local alarm is activated. During the process, if system detects another local alarm signal at the fifth second, the buzzer, tour, PTZ activation, snapshot, record channel will begin another 10s while the screen prompt, alarm signal, it can generate an alarm since the anti-dither time is out.
- Alarm output: The number here is the device alarm output port. You can select the corresponding ports(s) so that system can activate the corresponding alarm device(s) when an alarm occurred.
- Latch: When the anti-dither time ended, the channel alarm you select in the alarm output may last the specified period. The value ranges from 1 to 300 seconds. This function is not for other alarm activation operations. The latch is still valid even you disable the alarm event function directly.
- Show message: System can pop up a message to alarm you in the local host screen if you enabled this function.
- Alarm upload: System can upload the alarm signal to the network (including alarm centre and the WEB) if you enabled current function. System only uploads the alarm channel status. You can go to the WEB and then go to the Alarm interface to set alarm event and alarm operation. Please go to the Network interface to set alarm centre information.
- Send email: System can send out the alarm signal via the email to alert you when alarm occurs. Once you enable the snap function, system can also send out an image as the attachment. Please go to the Main Menu->Setting ->Network->Email interface to set.
- Record channel: you can select proper channel to record alarm video (Multiple choices).
 - You need to set alarm record mode as Schedule in Record interface (Main Menu->Advanced->Record). Please note the manual record has the highest priority.
 System record all the time no matter there is an alarm or not if you select Manual mode.
 - Now you can go to the Schedule interface (Main Menu->Setting->Schedule) to set the record type, corresponding channel number, week and date. You can select the record type:Regular/MD/Alarm/MD&Alarm. Please note, you can not select the MD&Alarm and MD(or Alarm) at the same time.
 - Now you can go to the Encode interface to select the alarm record and set the encode parameter (Main Menu->Setting->Encode).

- Finally, you can set the alarm input as the local alarm and then select the record channel. The select channel begins alarm record when an alarm occurred. Please note system begins the alarm record instead of the MD record if the local alarm and MD event occurred at the same time.
- Tour: Here you can enable tour function when alarm occurs. System supports 1/8-window tour. Please go to chapter 6.6.9 Display for tour interval setup. Please note the tour setup here has higher priority than the tour setup you set in the Display interface. Once there two tours are both enabled, system can enable the alarm tour as you set here when an alarm occurred. If there is no alarm, system implements the tour setup in the Display interface.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when alarm occurs.

Please highlight icon to select the corresponding function. After setting all the setups please click save button, system goes back to the previous menu.

	ALAR	M	
Event Type Enable	Local Alarm 🔻	Alarm In Type	1 Normal Open ▼
Period	Set	Anti-dither	0 sec.
Alarm Out	123	Latch	10 sec.
Show Message	Alarm upload	Send Ema	ail
Record Channel	123456	789101)1213141516
PTZ Activation	Select	Delay	10 sec.
Tour	123456	789101	1213141516
Buzzer			
Copy Pa	aste Default	_) (ave Cancel

Figure 6-53

Ø,		PTZ	Activation		×
CAM 1	None	• 0	CAM 2	None	- 0
CAM 3	None	- 0	CAM 4	None	- 0
CAM 5	None	• 0	CAM 6	None	- 0
CAM 7	None	• 0	CAM 8	None	• 0
CAM 9	None	• 0	CAM 10	None	- 0
CAM 11	None	• 0	CAM 12	None	• 0
CAM 13	None	• 0	CAM 14	None	- 0
CAM 15	None	• 0	CAM 16	None	- 0
	ОК		Cancel)	

Figure 6-54

	Set	×
Work Day	▼ Set	
00 :00	-24 :00 00 :00 -24 :00	
00 :00	-24 :00 00 :00 -24 :00	
00 :00	-24 :00 00 :00 -24 :00	
Sun Mon Tue Wed Thu Fri Sat		
Сору	Paste Default OK Cance	el

Figure 6-55

B	Set					×	
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Work Day	•	•	•	•	•		0
Free Day						•	•
		Save		C	ancel		

Figure 6-56

For the 32-channel series product, the alarm interface and PTZ setup is shown as below. See Figure 6-57 and Figure 6-58.

		ALARM		1
Event Type	Local Alarm 🔻	Alarm In	1)
Enable		Туре	Normal Open 🔻	
Period	Set	Anti-dither	5]sec.
Alarm Out	123456	Latch	10	sec.
Show Message	Alarm Upload	Send Email		
Record Channel	123456	7891011(213141516	
	171319202122	23242526276	829808182	
PTZ Activation	Select	Delay	10]sec.
Tour	123456	7890010	213141516	
	171319202122	23242526276	829606162	
Snapshot	123456	789011	213141516	
	171319202122	23242526276	829808182	
Buzzer				
Default C	ору		Save	Cancel

Figure 6-57

B		PTZ Ac	tivation		
CAM 1	None 🔻	0	CAM 2	None	• 0
CAM 3	None 🔻	0	CAM 4	None	v 0
CAM 5	None 🔻	0	CAM 6	None	- 0
CAM 7	None 🔻	0	CAM 8	None	- 0
CAM 9	None 🔻	0	CAM 10	None	- 0
CAM 11	None 🔻	0	CAM 12	None	- 0
CAM 13	None 🔻	0	CAM 14	None	- 0
CAM 15	None 🔻	0	CAM 16	None	- 0
CAM 17	None 🔻	0	CAM 18	None	- 0
CAM 19	None 🔻	0	CAM 20	None	- 0
CAM 21	None 🔻	0	CAM 22	None	- 0
CAM 23	None 🔻	0	CAM 24	None	- 0
CAM 25	None 🔻	0	CAM 26	None	- 0
CAM 27	None 🔻	0	CAM 28	None	- 0
CAM 29	None 🔻	0	CAM 30	None	- 0
CAM 31	None 🔻	0	CAM 32	None	- 0
		ОК	Cancel		

Figure 6-58

6.6.7 Detect

Go to Detect Menu

In the main menu, from Setting to Detect, you can see motion detect interface. See Figure 6-59.There is three detection types: motion detection, video loss, camera masking.

Motion Detect

Detection menu is shown as below. See Figure 6-59

- Event type: from the dropdown list you can select motion detection type.
- Channel: select the channel to activate recording function once alarm occurred. Please make sure you have set MD record in encode interface(Main Menu->Setting->Schedule) and schedule record in manual record interface(Main Menu->Advanced->Manual Record)
- Latch: when motion detection complete, system auto delays detecting for a specified time. The value ranges from 10-300(Unit: second)
- Region: Click select button, the interface is shown as in Figure 6-60. Here you can set motion detection zone. There are 396(PAL)/330(NTSC) small zones. The green zone is current cursor position. Grey zone is the motion detection zone. Black zone is the disarmed zone. You can click Fn button to switch between the arm mode and disarm mode. In arm mode, you can click the direction buttons to move the green rectangle to set the motion detection zone. After you completed the setup, please click ENTER button to exit current setup. Do remember click save button to save current setup. If you click ESC button to exit the region setup interface system will not save your zone setup.
- Sensitivity: System supports 6 levels. The sixth level has the highest sensitivity.
- Show message: System can pop up a message to alarm you in the local host screen if you enabled this function.
- Alarm upload: System can upload the alarm signal to the network (including alarm centre) if you enabled current function.
- Send email: System can send out email to alert you when alarm occurs.

- PTZ activation: Here you can set PTZ movement when alarm occurs. Such as go to preset, tour &pattern when there is an alarm. Click "select" button, you can see an interface is shown as in _____Figure 6-61.
- Period: Click set button, you can see an interface is shown as in Figure 6-62. Here you can set for business day and non-business day. In Figure 6-62 click set button, you can see an interface is shown as in Figure 6-63. Here you can set your own setup for business day and non-business day.
- Anti-dither: Here you can set anti-dither time.
- Alarm output: when alarm occurred, system enables peripheral alarm devices.
- Tour: Here you can enable tour function when alarm occurs. System one-window tour. Please go to chapter 5.3.9 Display for tour interval setup.
- Snapshot: You can enable this function to snapshoot image when motion detect alarm occurs.

Please highlight icon to select the corresponding function. After all the setups please click save button, system goes back to the previous menu.

Note:

In motion detection mode, you can not use copy/paste to set channel setup since the video in each channel may not be the same.

In Figure 6-60, you can left click mouse and then drag it to set a region for motion detection. Click Fn to switch between arm/withdraw motion detection. After setting, click enter button to exit.

$\overline{\mathbf{x}}$	DETE	ст		
Event Type Enable	Motion Detect 💌	Channel	[1	Ð
 Period				
Alarm Out	Set]	Latch		
	Research and in conferences comment		10 sec.	
Show Message	Alarm upload	Send Email		
Record Channel	123456	7891011	1213141516	
PTZ Activation	Select	Delay	10 sec.	
Tour	123456	7891011	1213141516	
Buzzer				
Copy P:	aste	Sav	e Canc	
		Jav		

Figure 6-59

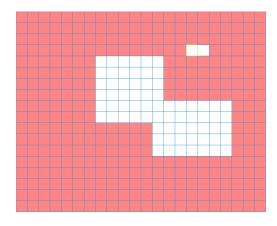


Figure 6-60

B		PTZ	Z Activation		×
CAM 1	None	- 0) CAM 2	None	▼ 0
CAM 3	None	- 0	CAM 4	None	- 0
CAM 5	None	- 0) CAM 6	None	- 0
CAM 7	None	- 0	CAM 8	None	• 0
CAM 9	None	- 0) CAM 10	None	• 0
CAM 11	None	- 0) CAM 12	None	v 0
CAM 13	None	- 0) CAM 14	None	v 0
CAM 15	None	- 0) CAM 16	None	v 0
	ОК		Cancel	D	



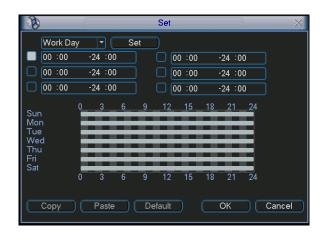


Figure 6-62

B	Set						×
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Work Day	•	•	•	•	•		0
Free Day						•	•
		Save		C	ancel		

Figure 6-63

Video Loss

In Figure 6-59, select video loss from the type list. You can see the interface is shown as in

Figure 6-64.This function allows you to be informed when video loss phenomenon occurred. You can enable alarm output channel and then enable show message function.

Tips:

You can enable preset activation operation when video loss occurs.

$\overline{\mathbf{X}}$	DETE	ст		-
Event Type Enable	Video Loss 🔻	Channel	[1	
Period	Set	Latch	10 sec.	
Show Message	Alarm upload	Send Email		
Record Channel	123456 Select	7891011(Delay	1213141516 10 sec.	
Tour Buzzer	123456	789000	1213141516	
Copy Pa	aste	Sav	e Cano	:el

Figure 6-64

Camera Masking

When someone viciously masks the lens, or the output video is in one-color due to the environments light change, the system can alert you to guarantee video continuity. Camera masking interface is shown as in Figure 6-65.

Tips:

You can enable preset/tour/pattern activation operation when video loss occurs.

Note:

In Detect interface, copy/paste function is only valid for the same type, which means you can not copy a channel setup in video loss mode to camera masking mode.

DETE	СТ		1
Camera Masking 🔻	Channel	1	T
Set			_
123	Latch	10 sec.	
Alarm upload	Send Ema	ail	
123456	789101	11213141516	6
Select	Delay	10 sec.	
123456	789101	11213141516	
iste	S	ave Cano	el
	Camera Masking V Set 1 2 3 Alarm upload 1 2 3 4 5 6 Select 1 2 3 4 5 6	Set 123 Latch Alarm upload Send Ema 12345678910(Select Delay 12345678910(Camera Masking Channel 1 Set 123 Latch 10 sec. Alarm upload Send Email 1234567891011213141516 Select Delay 10 sec. 1234567891011213141516

Figure 6-65

6.6.8 PTZ

Note: All the operations here are based on PELCOD protocol. For other protocols, there might be a little difference.

Cable Connection

Please follow the procedures below to go on cable connection

- Connect the dome RS485 port to NVR 485 port.
- Connect dome video output cable to NVR video input port.
- Connect power adapter to the dome.

PTZ Setup

Note: The camera video should be in the current screen. Before setup, please check the following connections are right:

- PTZ and decoder connection is right. Decoder address setup is right.
- Decoder A (B) line connects with NVR A (B) line.

Boot up the NVR, input user name and password.

In the main menu, click setting, and then click Pan/Tilt Control button. The interface is shown as in Figure 6-66. Here you can set the following items:

- Channel: select the current camera channel.
- Protocol: select corresponding PTZ protocol(such as PELCOD)
- Address: default address is 1.
- Baud rate: select corresponding baud rate. Default value is 9600.
- Data bits: select corresponding data bits. Default value is 8.
- Stop bits: select corresponding stop bits. Default value is 1.
- Parity: there are three options: odd/even/none. Default setup is none.

	PAN/TILT/ZOOM	
1		
Local		
NONE		
1		
9600 🔽		
8		
1		
None 🔻		
Paste	Default Save	Cancel
	Local NONE	1 v Local v NONE v 1 9600 v 8 v 1 v None v

Figure 6-66

After completing all the setting please click save button.

In one window display mode, right click mouse (click "Fn" Button in the front panel or click "Fn" key in the remote control).

Click Pan/Tilt/Zoom, the interface is shown as below. See Figure 6-67. Here you can set the following items:

- Step: value ranges fro 1 to 8.
- Zoom
- Focus
- Iris

Please click icon and with the adjust zoom, focus and iris.



Figure 6-67

In Figure 6-67, please click direction arrows to adjust PTZ position. There are total 8 direction arrows.



Figure 6-68

Here is a sheet for you reference.

Name	Function	function	Shortcut	Function	function	Shortcut
	key		key	key		Key
Zoom		Wide	ŀ	•	Far	•
Focus		Near	◀	•	Far	
Iris		Close	◀	(Open	► II

6.6.9 Display

Display setup interface is shown as below. See Figure 6-69.

- Transparency: Here is for you to adjust transparency. The value ranges from 128 to 255.
- Channel name: Here is for you to modify channel name. System max support 25-digit (The value may vary due to different series). Please note all your modification here only applies to NVR local end. You need to open web or client end to refresh channel name.
- Time display: You can select to display time or not when system is playback.
- Channel display: You can select to channel name or not when system is playback.
- Resolution: There are four options: 1280×1024(default),1280×720,1024×768,800×600.
 Please note the system needs to reboot to activate current setup.
- Enable tour: Activate tour function.
- Interval: System supports 1/4/8/9/16-window tour. Input proper interval value here. The value ranges from 5-120 seconds. In tour process, you can use mouse or click Shift to turn on

window switch function. Stands for opening switch function, Stands for closing switch function.

- Monitor tour type: System support 1/8-window tour.
- Alarm tour type: System support 1/8-window tour.

Please highlight icon 🔲 to select the corresponding function.

After completing all the setups please click save button, system goes back to the previous menu.

	DI	SPLAY		_	\times
GUI					
Transparency	200	Channel Name	Mod	lify	
Time Display		Channel Display			
Resolution 1024×	768 🔻				
Enable Tour		Interval	5]sec.	
View 1	123456	7 8 9 10 11 12	16 14 15	16	
View 4	1234				
View 8	123456	7 8 9 10 11 12	16 14 15	16	
View 9	12				
View 16	1				
Motion Tour Type	View 1	Alarm Tour Type	View 1	-	
				()()	
Default			Save	Cance	

Figure 6-69

In Figure 6-69, click modify button after channel. You can see an interface shown as in Figure 6-70. Please note all your modification here applies to local end only. You need to refresh web or client-end to get the latest channel name. System max support 25-digital character.

B	Chan	nel Name	X		
CHANNEL		AL 🔽			
CAM 1	CAM 1	CAM 2	CAM 2		
CAM 3	CAM 3	CAM 4	CAM 4		
CAM 5	CAM 5	CAM 6	CAM 6		
CAM 7	CAM 7	CAM 8	CAM 8		
CAM 9	CAM 9	CAM 10	CAM 10		
CAM 11	CAM 11	CAM 12	CAM 12		
CAM 13	CAM 13	CAM 14	CAM 14		
CAM 15	CAM 15	CAM 16	CAM 16		
Default Save Cancel					



In tour mode, you can see the following interface. On the right corner, right click mouse or click shift button, you can control the tour. There are two icons: stands for enabling window switch and stands for disabling window function. See Figure 6-71.

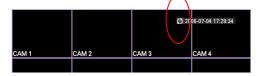


Figure 6-71

6.6.10 Default

Click default icon, system pops up a dialogue box. You can highlight to restore default factory setup.

- Select all
- General
- Encode
- Schedule
- RS232
- Network
- Alarm
- Detect
- Pan/tilt/zoom
- Display
- Channel name

Please highlight icon 🔳 to select the corresponding function.

After all the setups please click OK button, system goes back to the previous menu.

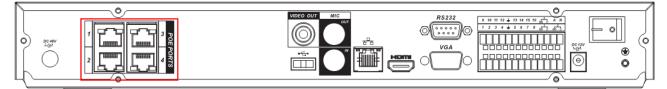
Warning!

System menu color, language, time display mode, video format, IP address, user account will not maintain previous setup after default operation!

6.6.11 Remote Device

6.6.11.1 UPNP

Please connect the IPC to the PoE port of the device rear panel (Figure 6-72), system can auto connect to the IPC.



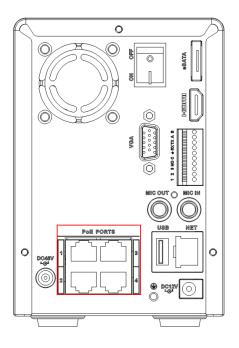


Figure 6-72

6.6.11.2 Built-in Switch Setup

From Network->Network Server->Switch, you can set switch IP address, subnet mask, gateway and etc. See Figure 6-73.

8	Switch Settings	
	·····	
IP Address	<u>192 · 168 · 1 · 106</u>	壨
Subnet Mask	255 · 255 · 255 · 0	
Gateway	192 . 168 . 1 . 1	
	OK Cancel	

Figure 6-73

6.6.11.3 Remote Device

In the main menu, click the Remote Device icon to go to the corresponding interface. See Figure 6-74.



Figure 6-74

The remote device interface is shown as in Figure 6-75.

- IP search: Click it to search IP address.
- Add: Click it to connect to the selected device and add it to the Added device list. Support Batch add.
- Show filter: You can use it to display the specified devices from the added device.
- Delete: Please select one device in the Added device list and then click it to remove.
- Manual add: Click it to add the IPC manually. The port number is 37777. The default user name is **admin** and password is **admin**.

8	6			RE	MOTE DEVICE		
	0	IP Add	dress 🔺	Port	Device ID	Manufacturer	Туре
	IP Sear	ch)	Add			Show Filter	None 🔽
	- ocan		<u>/.uu</u>)				
	Added D	evice —					
	channe	l Edit	Delete	Status	IP Address	Port	Device ID
	□ 1	/	×	•	10.42.2.61	37777	
	▲			1			
	Delete	a) (Ma	nual Add				
	Belea		Haar taa				
						OK	Cancel



Click the Manual Add button; you can go to the following interface. See Figure 6-76.

This series product max supports 32-channel standard definition video/high definition non-real-time video and the transmission rate is 1mbps per channel. It can also max supports 4-channel high definition video and the transmission rate is 8mbps. The delay time of each channel is below 500ms.

Model	System Performance
4-ch series	Max support 4-channel video. Total resources:400/480fps@D1,200/240fps@720P.100/120@1080P.
8-ch series	Max support 8-channel video. Total resources:400/480fps@D1,200/240fps@720P.100/120@1080P.
16-ch series	Max support 16-channel video. Total resources:400/480fps@D1,200/240fps@720P.100/120@1080P.
32-ch series	Max support 32-channel standard definition video. Support 8-channel 1080p/5mbps (extra stream D1/1mbps), 16-channel 720p/2mbps (extra CIF/640kbps), 32-channel D1/1mbps.

This series product supports the IPC from many popular manufactures such as Sony, Hitachi, Axis, Samsung, and Dahua.

	Manual Add
Channel	2 -
Manufacturer	Private 🔻
IP Address	
TCP Port	37777
User	admin
Password	••••
Remote Channel	1
Decoder Buffer	280 msec
(OK Cancel

Figure 6-76

6.6.11.4 Short-cut Menu

In the preview interface, for the channel of no IPC connection, you can click the icon "+" in the centre of the interface to quickly go to the Remote Device interface. See Figure 6-77 and Figure 6-78.





Ø		F	EMOTE DEVICE			- 3
36	IP Address 🔺	Port	Device ID	Manufacturer	Туре	^
1	10.42.0.75	37777		Dahua		
2	10.42.0.66	37777		Dahua		
3	10.42.2.103	37777		Dahua		
4	10.42.0.37	4000	HDVR	Dahua	HDVR	
5	10.42.0.21	37777	NVR	Dahua	NVR	
6	10.42.2.104	37777	DVR	Dahua	DVR	
7	10.42.0.35	37777	HDVR	Dahua	HDVR	
8	10.42.1.111	37777		Dahua		
9	10.42.1.147	37776	HDVR	Dahua	HDVR	
10	10.42.0.62	37777		Dahua		
11	10.42.1.71	37777	DVR	Dahua	DVR	
12	10.42.2.236	37777		Dahua		
13	10.42.1.52	37777	HDVR	Dahua	HDVR	
14	10.42.0.6	37710	NVR	Dahua	NVR	
15	10.42.2.36	37777		Dahua		
16	10.42.1.55	37777	1233333333333333	Dahua	NVR	
17	10 42 262			Dabua		
IP Sear	ch 🔵 (Manual Ade	d)		Show Filter	None	-
	4					
				Add	Canc	
				C Auu		

Figure 6-78

6.7 Advanced

Double click advanced icon in the main window, the interface is shown as below. See Figure 6-79.There2 are total eight function keys: HDD management, alarm output, abnormity, manual record, account, auto maintenance, TV adjust and video matrix.



Figure 6-79

6.7.1 HDD Management

Here is for you to view and implement hard disk management. See Figure 6-80. You can see current HDD type, status, capacity and record time. When HDD is working properly, system is shown as O. When HDD error occurred, system is shown as X.

- Alarm set: Click alarm set button, the interface is shown as below. See Figure 6-81. (This interface is just like the abnormity setup). Please refer to chapter 6.7.2 for detailed information.
- HDD operation: You can select HDD mode from the dropdown list such as read-only or you can erase all data in the HDD. Please note system needs to reboot to get all the modification activated.

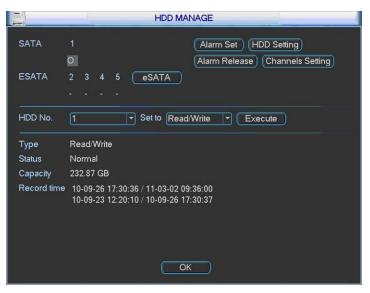


Figure 6-80

	ABNORMITY
Event Type Enable	Disk Error
Alarm Out	123456 Latch 10_sec.
	Save Cancel

Figure 6-81

For the HDD group setup operation, please note:

- Each channel's records can be stored into the specified HDD Group.
- Each HDD Group is corresponding to several hard disks, while one hard disk is only included in one HDD Group.
- Each channel is only corresponding with one HDD Group, while one HDD Group can store records from several channels.
- HDD Group is only available for read-write HDD and self-defined disks, other types of hard disks cannot be set as HDD Group.

Important:

- e-SATA also supports this function, you can manage e-SATA hard disk as local hard disk.
- Current series software version can only set the HDD group operation of the read-write HDDs. It is not for the redundancy HDD.

HDD Setting

Click the button "HDD Settings" at the top right corner of the Figure 6-80, system will pop up an interface as below. See Figure 6-82.

The number of hard disk from 1 to 12 is shown in the "HDD No." column. If there is a mark

in the front of the number, it means this interface have access to the hard disk, otherwise it does not have access to the hard disk.

The "HDD Group" column lists the HDD Group number of current hard disk.

When you are setting the HDD Group, please check the box of the hard disk, and then choose the corresponding HDD Group number and save the settings.

In Figure 6-82, you can see the system has two working hard disks at the 6th and 7th position, and the 6th position hard disk belongs to HDD Group 1, the 7th position hard disk belongs to HDD Group 2.

н	DD Setting
HDD No.	HDD Group
1	
2	
3	
4	
5	
6	1
7	2
8	
9	
10	
11	
12	
HDD Group NO	1
ОК (Save Cancel

Figure 6-82

In Figure 6-83, you can see the 6th and 7th position hard disks both belong to HDD Group 2. **Important**

Once you change the HDD Group settings, system will pack the records and snapshots, and then reboot.

HDD S	Setting
HDD No.	HDD Group
1	
2	
3	
4	
5	
6	2
7	2
8	
9	
10	
11	
12	
HDD Group NO 2	
OK Sa	ve Cancel

Figure 6-83

Channels Setting

Click the button named with "Channels Settings" at the top right corner of the Figure 6-80, system will pop up an interface shown as in Figure 6-84.

When you are setting the configurations of the channels setting, please select relevant channels first (such as channel 1 to 16), and then select the HDD Group NO. Please click the Save button to save current setup.

The Figure 6-84 and Figure 6-85 show that channels 1 to 16 are associated to HDD Group NO 1, and channels 17 to 32 are associated to HDD Group NO 2. Therefore the records of channels 1 to 16 are stored into the hard disk(s) which belong to HDD Group NO 1, and the records of channels 17 to 32 are stored into the hard disk(s) which belong to HDD Group NO 2.

Important

Once you change the HDD Group settings, system will pack the records and snapshots, and then reboot.

Ø	Channels Setting
Channel	12345678910111213141516
HDD Grou	o NO 1 ▼
	Save Cancel

Figure 6-84

Channels Setting
Channel 1234567891011213141516
HDD Group NO 2
<u>+</u>
Save Cancel

Figure 6-85

6.7.2 Abnormity

Abnormity interface is shown as in Figure 6-86.

- Event type: There are several options for you such as disk error, no disk, disconnection, IP conflict and etc.
- Alarm output: Please select alarm activation output port (multiple choices).
- Latch: Here you can set corresponding delaying time. The value ranges from 10s-300s. System automatically delays specified seconds in turning off alarm and activated output after external alarm cancelled.
- Show message: system can pop up the message in the local screen to alert you when alarm occurs.
- Alarm upload: System can upload the alarm signal to the network (including alarm centre) if you enabled current function.
- Send email: System can send out email to alert you when alarm occurs.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when alarm occurs.



Figure 6-86

6.7.3 Alarm Output

Here is for you to set proper alarm output.

Please highlight icon 📕 to select the corresponding alarm output.

After all the setups please click OK button, system goes back to the previous menu. See Figure 6-87.

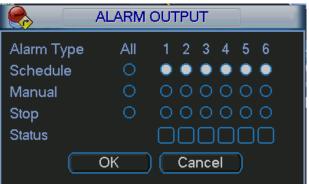


Figure 6-87

6.7.4 Manual Record

Note:

You need to have proper rights to implement the following operations. Please make sure the HDD has been properly installed.

6.7.4.1 Manual record menu

There are two ways for you to go to manual record menu.

- Right click mouse or in the main menu, Advanced->Manual Record.
- In live viewing mode, click record button in the front panel or record button in the remote control.

Manual record menu is shown as in Figure 6-88.

6.7.4.2 Basic operation

There are three statuses: schedule/manual/stop. Please highlight icon " \bigcirc " to select corresponding channel.

- Manual: The highest priority. After manual setup, all selected channels will begin ordinary recording.
- Schedule: Channel records as you have set in recording setup (Main Menu->Setting->Schedule)
- Stop: All channels stop recording.

			M/	AN	JAI	LR	EC	OR	D								X
Record Mode	All		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Schedule			٠	٠	۲	۲	۲	٠		۲	۰	٠	۲		۲		٠
Manual									۲								
Stop		۲												۲		٠	
	C	OK								Car	nce)				

Figure 6-88

6.7.4.3 Enable/disable record

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

You can use mouse or direction key to highlight channel number. See Figure 6-89.



Figure 6-89

6.7.4.4 Enable all channel recording

Highlight \circ below All, you can enable all channel recording.

• All channel schedule record

Please highlight "ALL" after "Schedule". See Figure 6-90.

When system is in schedule recording, all channels will record as you have previously set (Main menu->Setting->Schedule).

The corresponding indication light in front panel will turn on.

			M,	٩N	UAI	LR	EC	OR	D								X
Record Mode	All	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Schedule		۲	۰	٠	۲	۲	۰	٠	۰	۲	٠	٠	٠	۲	٠	٠	٠
Manual			0														
Stop																	
				_						2		_					
		OK		Ų						Car	nce	L,					

Figure 6-90

• All channel manual record

Please highlight "ALL" after "Manual." See Figure 6-91.

When system is in manual recording, all scheduled set up you have set in will be null ((Main menu->Setting->Schedule)).

You can see indication light in front panel turns on, system begins manual record now.



Figure 6-91

6.7.4.5 Stop all channel recording

Please highlight "ALL" after "Stop". See Figure 6-92.

System stops all channel recording no matter what mode you have set in the menu (Main menu->Setting->Schedule)



Figure 6-92

6.7.5 Account

Here is for you to implement account management. See Figure 6-93. Here you can:

- Add new user
- Modify user
- Add group
- Modify group
- Modify password.

For account management please note:

- For the user account name and the user group, the string max length is 6-byte. The backspace in front of or at the back of the string is invalid. There can be backspace in the middle. The string includes the valid character, letter, number, underline, subtraction sign, and dot.
- System account adopts two-level management: group and user. No limit to group or user amount.
- For group or user management, there are two levels: admin and user.

- The user name and group name can consist of eight bytes. One name can only be used once. There are four default users: admin/888888/6666666 and hidden user "default". Except user 66666, other users have administrator right.
- Hidden user "default" is for system interior use only and can not be deleted. When there is no login user, hidden user "default" automatically login. You can set some rights such as monitor for this user so that you can view some channel view without login.
- One user should belong to one group. User right can not exceed group right.
- About reusable function: this function allows multiple users use the same account to login.

After all the setups please click save button, system goes back to the previous menu.

2				ACCOUNT	
ſ	4	User	Group	5	Status
	1	888888	admin		ogin Local
	2	666666	user		Normal
	2 3	admin	admin	1	Normal
	4	default	user	C	Default User
	Add	User) (N	Modify User		
	Add	Group) (I	Modify Group	Modify Pase	sword
	- idd		noung choup)	introdity i do	

Figure 6-93

6.7.5.1 Modify Password

Click password button, the interface is shown as in Figure 6-94.

Here you can modify account password.

Please select the account from the dropdown list, input the old password and then input the new password twice. Click the Save button to confirm current modification.

For the users of user account right, it can modify password of other users.

	Modify Password
Name	888888
Old Password	
New Password	
Confirm	
	Save Cancel

Figure 6-94

6.7.5.2 Add/Modify Group

Click add group button, the interface is shown as below. See Figure 6-95.

Here you can input group name and then input some memo information if necessary.

There are total 60 rights such as control panel, shut down, real-time monitor, playback, record, record file backup, PTZ, user account, system information view, alarm input/output setup, system setup, log view, clear log, upgrade system, control device and etc.

The modify group interface is similar to the Figure 6-95.



Figure 6-95

6.7.5.3 Add/Modify User

Click add user button, the interface is shown as in Figure 6-96.

Please input the user name, password, select the group it belongs to from the dropdown list.

Then you can check the corresponding rights for current user.

For convenient user management, usually we recommend the general user right is lower than the admin account.

The modify user interface is similar to Figure 6-96.

8	Add User
Name	Reuseable
Password	Confirm
Memo	
Group	admin 🔹
77 Autho	
	ontrol Panel nutdown the device
	onitor
	Aonitor CH01
	Aonitor_CH02
6 🗸 N	Nonitor_CH03
7 🗸 N	Aonitor_CH04
🙌 Page U	lp I4 Page Down দ⊧ Enable/Disable Authority
	Save Cancel

Figure 6-96

6.7.6 Auto Maintenance

Here you can set auto-reboot time and auto-delete old files setup. You can set to delete the files for the specified days. See Figure 6-97.

You can select proper setup from dropdown list.

After all the setups please click save button, system goes back to the previous menu.

Auto-Reboot System
Every Tuesda 🔻 at 02:00 💌
Auto-Delete Old Files
Custom 🔻 1 Day(s) Ago
OK Cancel

Figure 6-97

6.7.7 Config Backup

The configuration file backup interface is shown as below. See Figure 6-98. This function allows you to copy current system configuration to other devices.

	CONFIG BACKUP	
Device List		
Name(Type) sdb5(USB DISK)	Left space/Total space 15.00 GB/15.00 GB	(EXPORT)
		IMPORT
		J

Figure 6-98

6.8 Shutdown

Double click shutdown button, system pops up a dialogue box for you to select. See Figure 6-99.

- Logout menu user: log out menu. You need to input password when you login the next time.
- Restart application: reboot device.
- Shutdown: system shuts down and turns off power.
- Restart system: system begins rebooting.
- Switch user: you can use another account to login.

If you shut down the device, there is a process bar for your reference, system waits for 3 seconds and then shut down (You can not cancel).

Please note, sometimes you need to input the proper password to shut down the device.



Figure 6-99

7 Quick Configuration Tool

7.1 Overview

Quick configuration tool can search current IP address, modify IP address. At the same time, you can use it to upgrade the device.

Please note the tool only applies to the IP addresses in the same segment.

7.2 Operation

Double click the "ConfigTools.exe" icon, you can see an interface is shown as in Figure 7-1. In the device list interface, you can view device IP address, port number, subnet mask, default gateway, MAC address and etc.

SN	IP Address	Port	Subnet Mask	Default Gateway	Mac Address
l	192.168.1.108	37777	255.255.255.0	192.168.1.1	90:02:a9:7b:50
(1111			>
(



Select one IP address and then right click mouse, you can see an interface is shown as in Figure 7-2.

N	IP Address	Port	Subnet Mask	Default Gateway	Mac Address
	192.168.1.108 Open Device Web	37777	255.255.255.0	192. 168. 1, 1	90:02:49:7b:5
		m			
ip: hen	You can click "login" button dir input corresponding information				



Select the "Open Device Web" item; you can go to the corresponding web login interface. See Figure 7-3.

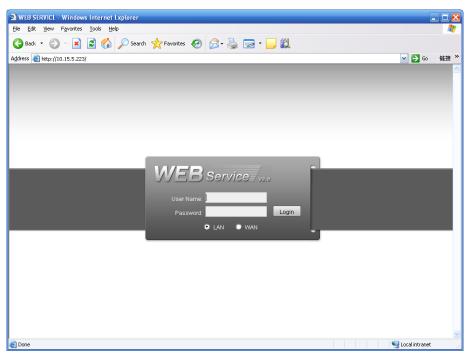


Figure 7-3

If you want to modify the device IP address without logging in the device web interface, you can go to the configuration tool main interface to set.

In the configuration tool search interface (Figure 7-1), please select a device IP address and then double click it to open the login interface. Or you can select an IP address and then click the Login button to go to the login interface. See Figure 7-4.

In Figure 7-4, you can view device IP address, user name, password and port. Please modify the corresponding information to login.

Please note the port information here shall be identical with the port value you set in TCP port in Web Network interface. Otherwise, you can not login the device.

If you are use device background upgrade port 3800 to login, other setups are all invalid.

Login		×
IP Address:	192.168.1.108	
User Name:	admin	
Password:	****	
Port:	37777	
	Login Cancel	

Figure 7-4

After you logged in, the configuration tool main interface is shown as below. See Figure 7-5. Please refer to the *Quick Configuration Tool User's Manual* included in the resources CD for detail information.

General Parameter	DHCP Enable	IPv4	-		
IP Address:	192.168.1.108				
Subnet Mask:	255.255.255.0				
Gateway:	192.168.1.1				
Mac Address:	90:02:a9:00:76:83				
			Save	Return	1

Figure 7-5

8 Web Operation

8.1 General Introduction

The device web provides channel monitor menu tree, search, alarm setup, system setup, PTZ control and monitor window.

Important

The following operation is based on 16-channel series device. For the 32-channel series product, there is 32-channel option.

8.1.1 Preparation

Before log in, please make sure:

- Network connection is right
- NVR and PC network setup is right. Please refer to network setup(main menu->setting->network)
- Use order ping ***.***.***(* NVR IP address) to check connection is OK or not. Usually the return TTL value should be less than 255.
- Open the IE and then input NVR IP address.
- System can automatically download latest web control and the new version can overwrite the previous one.
- If you want to un-install the web control, please run *uninstall webrec2.0.bat*. Or you can go to C:\Program Files\webrec to remove single folder. Please note, before you un-install, please close all web pages, otherwise the un-installation might result in error.
- Current series product supports various browsers such as Safari, firebox browser, Google browser. Device only support 1-channel monitor on the Apple PC.

8.1.2 Log in

Open the IE and then input the NVR IP address in the address column.

For example, if your NVR IP address is 192.168.1.108, then please input http:// 192.168.1.108 in IE address column. See Figure 8-1.

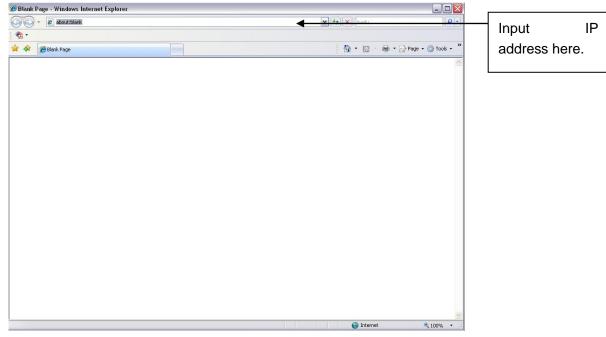


Figure 8-1 IE Interface

System pops up warning information to ask you whether install webrec.cab control or not. Please click yes button.

If you can't download the ActiveX file, please modify your settings as follows. See Figure 8-2.

Internet Options	Security Settings - Internet Zone
General Security Privacy Content Connections Programs Advanced	Settings
Select a zone to view or change security settings.	 Disable Enable
	Download signed ActiveX controls (not secure) Disable
Internet Local intranet Trusted sites	Enable (not secure) Prompt (recommended)
Internet Sites This zone is for Internet websites, except those listed in trusted and restricted zones. Sites	 Download unsigned ActiveX controls (not secure) Disable (recommended) Enable (not secure) Promot
Security level for this zone Allowed levels for this zone: Medium to High	 Frompt Initialize and script ActiveX controls not marked as safe for si Disable (recommended) Enable (not secure)
- Medium-high - Appropriate for most websites - Prompts before downloading potentially unsafe content - Unsigned ActiveX controls will not be downloaded	Prompt Run ActiveX controls and plug-ins Administrator approved
Custom level	*Takes effect after you restart Internet Explorer Reset custom settings
Reset all zones to default level	Reset to: Medium-high (default)
OK Cancel Apply	OK Cancel

Figure 8-2 IE Safety Setup

After installation, the interface is shown as below. See Figure 8-3.

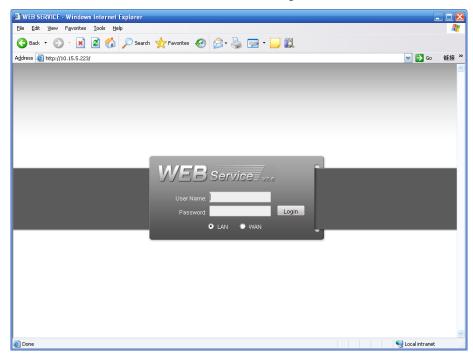


Figure 8-3 Login interface

Please input your user name and password.

Default factory name is **admin** and password is **admin**.

Note: For security reasons, please modify your password after you first login.

8.2 LAN Mode

For the LAN mode, after you logged in, you can see the main window. See Figure 8-4.

						2			
WEB Servi	SEARCH	ALARM	CONFIG	ABOUT	LOGOUT			<u>^</u>	
BICAM1 BICAM2 BICAM3 BICAM4 BICAM5 BICAM4 BICAM5 BICAM5 BICAM10 BICAM10 BICAM11 BICAM12 BICAM12 BICAM13	n nizo		a		8	ا	(3 00-6 00 € x	Speed(-15): 5 + Zoom + Zoom + Zoom + Fracts + Fracts No.(1-127): 1 1 Preset: Author Frank Author Soran	3
CAN 14	Nk video		œ	Santa Santa X No Vid	80		Con-601+0 x	Color More Color More Color More Color More Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color	
				25 (36) vRight 2008.All Righ	ts Reserved.		* # * # * # *	Reset	4
	6	5			in Interfa	ace	5		

There are six sections:

- Section 1: Monitor channel menu tree •
- Section 2: System menu •
- Section 3: PTZ control
- Section 4: Video setup and other setup
- Section 5: Preview window
- Section 6: Monitor window switch

8.2.1 Monitor Channel Menu Tree

The monitor channel menu tree is shown as in Figure 8-5.

Please note the following figure is for reference only. For 32-channel series product, there are 32 channels.

CAM 1
Main Stream Extra Stream
ER CAM 2
ER CAM 3
🖼 CAM 4
🖼 CAM 5
🖼 CAM 6
CAM 7
ER CAM 8
ER CAM 9
🖼 CAM 10
🖼 CAM 11
CAM 12
🖼 CAM 13
ER CAM 14
🖼 CAM 15
🖼 CAM 16
Open All
StartDialog 💌
Local Play Refresh

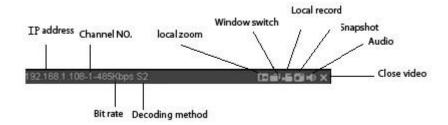
Figure 8-5 Monitor Channel Menu Tree

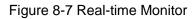
Please refer to the following sheet for detailed information.

Parameter	Function
CAM 1 to CAM 16	channel 1 to channel 16
Open all /close	Click this button to open all video channels.
all	Once all video channels are open, it becomes close all button.
Start Dialogue	You can click this button to enable audio talk. Click 【▼】 to select bidirectional talk mode. There are four options: DEFAULT, G711a, G711u and PCM. Please note, the audio input port from the device to the client-end is using the first channel audio input port. During the bidirectional talk process, system will not encode the audio data from the 1-channel.

Local play	The Web can playback the saved (Extension name is dav) files in the PC-end. Click local play button, system pops up the following interface for you to select local play file. See Figure 8-6.
	Open Image: Construction of the image: Construction of t
	File name: Files of type: Record files (*.*) Cancel Figure 8-6
Refresh	Click this button to refresh monitor channel name.

Please left click one monitor to view real-time video, the monitor window is shown as in Figure 8-7.





Please refer to the following sheet for monitor window parameter information.

Parameter	Function	
Display device	• 1: NVR IP address.	
information	• 2: Channel number.	
	• 3: Bit stream.	
	• 4: Bit stream decode type.	
	S1: Overlay.	
	 S2: Off stream. 	
	> S3:GD1	
	H1: Overlay	
	H2: off stream decoding from the display card.	
Digital zoom	Click this button and then left drag the mouse in the zone	
-	to zoom in. Right click mouse system restores original	
	status.	

Change show mode	Resize or switch to full screen mode.
Local record	When you click local record button, the system begins recording. The recorded file is saved to system folder: \ RecordDownload(default).
Snapshot	You can snapshoot important video. All images are memorized in system folder: \ picture download (default).
Audio	Turn on or off audio.
Close video	Close video in current window.

8.2.2 System Menu

System menu is shown as in Figure 8-8.

Please refer to chapter 8.4 Configuration, chapter 8.5 Search, chapter 8.6 Alarm, chapter 8.7 About, chapter 8.8 Log out for detailed information.

MONITOR SEARCH	ALARM	CONFIG	ABOUT	LOGOUT
----------------	-------	--------	-------	--------

Figure 8-8 System Menu

8.2.3 Monitor Window Switch

The monitor window switch interface is shown as in Figure 8-9.



Figure 8-9 Monitor Window Switch

System supports 1/4/6/8/9/13/16/20/25/36-window real-time preview.

ED ----It is video quality adjustment button. It has relationship with decode via software.

--Fluency button. You can use this function to adjust the priority between real-time and

fluency.

8.2.4 PTZ Control

Before PTZ operation, please make sure you have properly set PTZ protocol. (Please refer to chapter 8.4.2.2 PTZ).

Here you can view direction keys, speed, zoom, focus, iris, preset, tour, pan, scan, pattern, aux close, and PTZ setup button.

Please note: open menu/close menu/up/down/left/right/confirm/cancel buttons are for speed dome only.

- PTZ direction: PTZ supports eight directions: left/right/up/down/upper left/upper right/bottom left/bottom right.
- Speed: The step 8 speed is faster than step 1.

Speed(1-8): 5 🔹	
+ Zoom -	
+ Focus -	
🛨 Iris 😑	
No.(0-255); 1	
Preset Auto Tour	
Auto Pan Auto Scan	
Pattern AUX Open	
AUX Close PTZ Set	You can click this icon to display or hide the PTZ control platform.
	/

Figure 8-10 PTZ Interface

Click PTZ set button, the interface is shown as in Figure 8-11.

TZ Set			
Auto Scan			
	Left Limit	Right Limit	
			8
Preset (Scope: 0-25	5)		s
1	Add	Delete	
Auto Tour (Scope: 0	·25 5)		5
0	Add	Delete	Delete Group
1 Assistant]	Stop Record	
BLC	▼Start	Stop	
Matrix			
Matrix Monitor Output	Video Input 0	Matrix ID 0	Video Switch
	Video Input 0	Matrix ID 0	Video Switch

Figure 8-11 PTZ Setup

Please refer to the following sheet for PTZ setup information.

Parameter	Function
Scan	 Move the camera to you desired location and then click left limit button. Then move the camera again and then click right limit button to set a right limit.
Preset	Use direction keys to move the camera to your desired location and then input preset value. Click add button, you have set one preset.
Tour	 Input auto tour value and preset value. Click add button, you have added one preset in the tour. Repeat the above procedures you can add more presets in one tour. Or you can click delete button to remove one preset from the tour.
Pattern	You can input pattern value and then click start record button to begin PTZ movement. Please go back to Figure 7-10 to implement camera operation. Then you can click stop record button in Figure 7-11. Now you have set one pattern.
Assistant	The assistant items include: BLC, Digital zoom, night vision, camera brightness, flip. You can select one option and then click start or stop button.
Matrix	Please select matrix x and then input corresponding monitor output channel number, video input channel number. Then you can click video switch button.
Light/wiper	You can control the light and wiper of the peripheral device. Please note the peripheral device shall support this function.

8.2.5 Color and More Setup

Color and other setup interface are shown as in Figure 8-12.

Color	More	
\$\$€ ⊲ 0		- ⊳
$\bigcirc \triangleleft 0$		- >
$\bigcirc \triangleleft 0$		- >
80		- >
Reset		

Figure 8-12 Color

Please refer to the following sheet for detailed information.

F	Parame	eter	Function	
	/ideo setup	Sec.	It is to adjust monitor video brightness.	Note:

0	It is to adjust monitor video contrast ness.	All appl	the ies to	operation WEB end o	here nly.
\bigcirc	It is to adjust monitor video saturation.				
3	It is to adjust monitor video hue.				
Reset	Restore system default value.				

Click more button, the interface is shown as in Figure 8-13.

Color	More
PIC Path	REC Path
Reboot	

Figure 8-13 Color and More

Please refer to the following sheet for detailed information.

Parameter		Function
More	Picture Path	Click picture path button, system pops up an interface for you to modify path.
Record PathClick record path button, sys to modify path.		Click record path button, system pops up an interface for you to modify path.
	Reboot	Click this button to reboot device.
		If there is local use logged in the system menu, or the Web
		logged in user has no right to reboot the device system pops
		up a dialogue box to alert you.

8.3 WAN Login

In WAN mode, after you logged in, the interface is shown as below. See Figure 8-14.

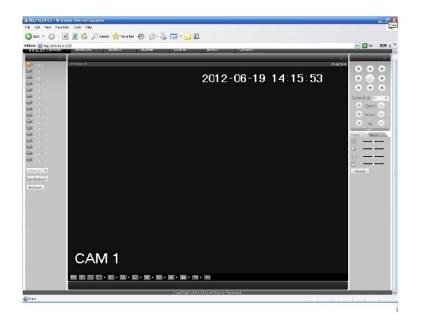


Figure 8-14

Please refer to the following contents for LAN and WAN login difference.

1) In the WAN mode, system opens the main stream of the first channel to monitor by default. The open/close button on the left pane is null.

2) You can select different channel and different monitor mode at the bottom of the interface. See Figure 8-15.

5.5.223) 		
1-89Kbas-A	(2-45 te 2-99: tps:A	0.404
2012	⊵06-19_14-21÷11	2012-06-19 14-21 11
CAM 1 2012	CAM 2 (5404 Closer4	Catri (2)
্য ন জন্ম মন্দ্র CAM 3 মন্দ্র মন্দ্র	CAM 4	



Important

The window display mode and the channel number are by default. For example, for the 16-channel, the max window split mode is 16.

3) Multiple-channel monitor, system adopts extra stream to monitor by default. Double click one channel, system switches to single channel and system uses main stream to monitor. You can view there are two icon at the left top corner of the channel number for you reference. M stands for

4) When you switch from Monitor to Search or Configuration, system pops a dialogue box asking you leave current interface or not. See Figure 8-16.Click the OK button, system will close current monitor window. For example, you click the Config button when you are monitoring, system pos up a following dialogue. Click the OK button, system closes current monitor interface and open the configuration interface. The monitor interface appears automatically after you close configuration interface. When you switch from Search to the Configuration interface, system also pops up the same dialogue box for your confirmation. Click OK button, you can see system close playback interface and open the configuration interface. Please note, system will not open the playback interface again after you close the configuration interface.





5) If you login via the WAN mode, system does not support alarm activation to open the video function in the Alarm setup interface.

Important

- For multiple-channel monitor mode, system adopts extra stream to monitor by default. You can not modify manually. All channels are trying to synchronize. Please note the synchronization effect still depends on your network environments.
- For bandwidth consideration, system can not support monitor and playback at the same time. System auto closes monitor or playback interface when you are searching setup in the configuration interface. It is to enhance search speed.

8.4 Configuration

8.4.1 System Information

8.4.1.1 Version Information

Here you can view device hardware feature and software version information. See Figure 8-17.

Configuration			\mathbf{X}
Control Panel Curry System INFO Curry System INFO Curry System Control Curry System Cury System Curr	Item S/N Device Type Video In/Dut Aufor In/Dut Ethernet Port RS232 Bios Version	Status PA2EF07900122 None 16/1 1/1 16/3 1 2.610.0000.0,Build:2012-7-6	

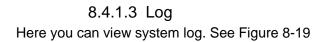
Figure 8-17 Version Information

8.4.1.2 HDD information

Here you can view local storage status such as free capacity and total capacity. See Figure 8-18.

Configuration					
📃 Control Panel		НС	D INFO		
QUERY SYSTEM INFO	S/N	HDD Status	Free/Total Space	DiskDamage	
QUERY SYSTEM INFO WERSION WERSION WERSION GENERAL GEN	S/N Total + (Local)HD-2	HDD Status Working	Free/Total Space 357.176B/465.74GB 357.176B/465.74GB	DiskDamage - Normal	
				[Refresh

Figure 8-18 HDD Information



Configuration						×
Control Panel QUERY SYSTEM INFO QUERY SYSTEM INFO HDD INFO GENERAL GE	3 Save 4 Save 5 Save 6 Save 7 Save 9 Save 10 Videc 11 User 12 User 13 User 15 Devit 16 Rebo 17 HDD 18 User	Config Config Config Config Config Config Config Config Lonfig Loss Off Logout Logout Login Logout Login Login Login	2012-08-01 15:10:00 2012-08-02 11:23:30 2012-08-02 11:23:30 2012-08-02 11:23:30 2012-08-02 11:25:10 2012-08-02 11:25:10	Save Monitor CC Save Monitor CC <video 2<br="" :="" loss="">User logged in<5 User logged in<5 User logged in<5 Shut down at [12 Reboot with Flag Disk toda(<1), C User logged in<5</video>	nrfigi nrfigi nrfigi nrfigi nrfigi (888888) 20801 15:36:44] (10:01] Jurrent working disk- 888888	Search 2> Clear

Figure 8-19 Log

Please refer to the following sheet for log parameter information.

Parameter	Function
Туре	Log types include: system operation, configuration operation, data
	management, alarm event, record operation, user management, log
	clear and file operation.
Start time	Set time to start search.
Finish time	Set time to finish search
Search	You can select log type from the drop down list and then click search button to view the list.
Clear	You can click this button to delete all displayed log files. Please note system does not support clear by type.
Backup	You can click this button to backup log files to current PC.

8.4.2 System Configuration

Please click save button to save your current setup. Please click refresh button to view the latest setup.

8.4.2.1 General Setup

Here you can set system time, record length, video format and etc. See Figure 8-20.

Configuration		X
💻 Control Panel		GENERAL
QUERY SYSTEM INFO VERSION	System Time 2012-00	11:28:05 <u>*</u> Save Sync PC
HOD INFO HOD INFO KINERAL FORCODE SCHEDULE SCHEDULE ALARM DETECT ALARM DETECT ADITIONAL FUNCTION	Date Format YYYY M Date Separator 11 Time Format 24-HOL Language ENGLIS HDD Full Overwin Pack Duration 60 Device No. 8 Video Standard PAL Device Name NVR	SH 💽

Figure 8-20 General Setup

DST	×
• Day	C Week day
2009- 6- 2 💌 2009- 9- 2 💌	Hour Min. 0 • 0 • 0 • 0 •
ОК	Cancel
Figure	8-21 DST
DST	×
	● Week day ek day Hour Min. • ● ● ● ● ● ●
9 • 1 • We	d 💌 0 💌 0 💌
ОК	Cancel

Figure 8-22 DST

Parameter	Function
System Time	Here is for you to modify system time. Please click Save button after your completed modification
Sync PC	You can click this button to save the system time as your PC current time.
Data Format	Here you can select data format from the dropdown list.

Data Separator	Please select separator such as – or /.
Time Format	There are two options: 24-H and 12-H.
DST	Here you can set day night save time begin time and end time. See Figure 8-21and Figure 8-22.
Language	Here you can view the system current language. You can select from the dropdown list.
HDD Full	There are two options: stop recording or overwrite the previous files when HDD is full.
Pack Duration	Here you can select file size. The value ranges from 1 to 120 (minute). Default setup is 60 minutes.
Device No	When you are using one remote control to manage multiple devices, you can give a serial numbers to the device. Please note current series product does not support this function.
Video Standard	Here you can view video format such as PAL.

8.4.2.2 Encode

The encode interface is shown as in Figure 8-23.

Configuration				Đ
📃 Control Panel	1	ENC	ODE	
QUERY SYSTEM INFO VERSION	Channel	Channel 01 🔹	Channel Name	CAM 1
HDD INFO	Compression	-	Compression	H.264 💌
E T SYSTEM CONFIG	Main Stream	Normal Stream 💌	Extra Stream	Assistant1 🔹
	Video/Audio		Video/Audio	Video
SCHEDULE	Resolution		Resolution	▼
R5232	Frame Rate(FPS)	1	Frame Rate(FPS)	1 •
- 🗀 ALARM	Bit Rate Type	CBR 💌	Bit Rate Type	CBR 🔹
DEFAULT/BACKUP	Bit Rate(Kb/s)	768 💌	Bit Rate(Kb/s)	80 💌
⊕ ♣ ADVANCED ⊕ ⊨ ADDITIONAL FUNCTION	Reference Bit Rate	128~768Kbps	Reference Bit Rate	14~80Kbps
	Color Setting	Set		
	Overlay			
	Cover-Area	Never	Set	
	🔽 Time Display	Set	Channel Display	y Set
				Save Refresh

Figure 8-23 Encode

Parameter	Function
Channel	Select the corresponding channel.
Channel Name	Display the current channel ID. You can also modify the channel ID here.
Encoding mode	The device does not support it.

Audio / video	For the main stream, recorded file only contains video by default. You need to draw a circle here to enable audio function. For extra stream, you need to draw a circle to select the video first and then select the audio if necessary.
Resolution	Main code stream types are D1/HD1/2CIF/CIF/QCIF Channel 1~16 extra code stream supports CIF/QCIF.
Frame rate	PAL: 1f/s-25f/s; NTSC: 1f/s-30f/s
Bit rate	There are two options: VBR and CBR. Please note, you can set video quality in VBR mode only.
Reference bit	The bigger bit value, the better the image quality. Reference bit is an ideal range for you to set bit rate.
Overlay (Cover area)	Here you can privacy mask the specified video in the monitor video. One channel max supports 4 privacy mask zones. The privacy mask includes two options: Never/monitor. Never: It means do not enable privacy mask function. Monitor: the privacy mask zone can not be viewed in monitor mode.
Time display	You can enable this function so that system overlays time information in video window.
Channel display	You can enable this function so that system overlays channel information in video window.

8.4.2.3 Schedule

Here you can set different periods for various days. There are max six periods in one day. See Figure 8-24.

Configuration									×
Control Panel	1				HEDULE				_
QUERY SYSTEM INFO		Channel 01	-	Prerecord	4 sec				
	Period In		Regular	MD	Alarm		MD&Alarm		
E T SYSTEM CONFIG		0	4	8	12	16	20	24	
	Sun	-			Record			Set	
R5232 ⊕ in NETWORK	Mon	:			Record	-		Set	
Alarm Detect Pan/Tilt/zoom	Tue	-			Record			Set	
DEFAULT/BACKUP ADVANCED ADDITIONAL FUNCTION	Wed	-			Record			Set	
ADDITIONAL FUNCTION	Thu	-			Record	-		Set	
	Fri	-		1 1	Record	-		Set	
	Sat	-		1 1	Record			Set	
	Holiday				Record	,		Set	
	Cop	ру		🔲 Holida	ay Set		Save	Refresh]

Figure 8-24 Schedule

Dela	suit .		Current	Re		Recor MD	d Alarm
Period 1	E 00:00	÷	23:59:59	÷	Г	•	P
Period 2	0.00.00	+	23 59 59	÷	Г	Г	Г
Period 3	0.00.00	-	23:59:59	+	Г	Г	г
Period 4	0.00:00	+	23:59:59	*	Г	Г	г
Period 5	0.00.00	÷	23.59.59	+	Г	Г	Г
Period 6	0.00.00	÷	23.59.59	÷	Г	П	E.
F Al F Sun F Thu	∏ Mo		Γ Tue Γ Sat	Ew	ed		

Figure 8-25 Schedule Time

Сору То								×
			All C	hannel				
1	2	3	4	5	6	7	8	
9	10	11	12	13	14	15	16	
	OK							

Figure 8-26 Copy

Calend	ar							X
	<u> </u>		2	2012-6	8			
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	
						1	2	
	3	4	5	6	7	8	9	
	10	11	12	13	14	15	16	
	17	18	19	20	21	22	23	
	24	25	26	27	28	29	30	
	C	Ök	<)		Cano	el	
					_			

Figure 8-27

Parameter	Function
Channel	Please select a channel first.

Parameter	Function					
Pre-record	Please input pre-record value here.					
	When alarm record or motion detection record occurs, system can record the several seconds video before activating the record operation into the file. (Depends on data size).					
Setup	In Figure 8-24, click set button, you can go to the corresponding setup interface. See Figure 8-25.					
	Please set schedule period and then select corresponding record type: schedule, motion detection, and alarm.					
	Please select date (Current setup applies to current day by default. You can draw a circle before the week to apply the setup to the whole week.)					
	After complete setup, please go back to Figure 8-24 and then click save to save current time period setup.					
Holiday	Click Set button, system pops up a dialogue box shown as in Figure 8-27.					
	Here you can set holiday date. Check the box, it means current chan					
	shall record as your holiday setup. Please go to the Period interface					
	set the holiday date record setup.					
Сору	It is a shortcut menu button. You can copy current channel setup to one or more (all) channels. The interface is shown as in Figure 8-26.					

8.4.2.4 RS232

The RS232 interface is shown as in Figure 8-28.

Configuration				×
Control Panel	RS232 COM Function Data Bits	COM 01 Console	- RS232	
GENERAL G	Stop Bits Baudrate Parity	1 115200 None	v v	
				Save Refresh

Figure 8-28 RS232

Parameter	Function
RS232	There is only one option COM 01, corresponding to RS232.
Function	Console is for debug.
	Control keyboard: Switch between RS232 and control keyboard.
	Network keyboard: COM control protocol. You can use network keyboard to control NVR via COM.
	Transparent COM: Network user can communicate with RS232 COM device.
	PTZ matrix: PTZ matrix protocol. You can use the device to control the PTZ matrix.
Data Bit	The value ranges from 5 to 8.
Stop Bit	There are three options: 1/2.
Baud Bit	You can select corresponding baud bit here.
Parity	There are five options: none/odd /even/mark/space.

8.4.2.5 Network

Network interface is shown as in Figure 8-29.

Figure 8-29 Network

Parameter	Function
IP Version	There are two options: IPv4 and IPv6. Right now, syste supports these two IP address format and you can access them.

Parameter	Function
MAC Address	The host in the LAN can get a unique MAC address. It is for you to access in the LAN. It is read-only.
IP Address	Here you can use up/down button (▲▼) or input the corresponding number to input IP address. Then you can set the corresponding subnet mask the default gateway.
Subnet Prefix	The input value ranges from 0 to 128. It is to mark a specifi
	network MAC address. Usually it includes an organization
	multiple-level.
Default Gateway	Here you can input the default gateway.
TCP Port	Default value is 37777. You can change if necessary.
HTTP Port	Default value is 80.
RTSP port	Default value is 554.
UDP Port	Default value is 37778. You can change if necessary.
Max Connection	Network user max amount. The value ranges from 0 to 20. O means there is no user can access current device.

Please note system needs to check the validity of all IPv6 addresses. The IP address and the default gateway shall be in the same IP section. That is to say, the specified length of the subnet prefix shall have the same string.

For the IP address of IPv6 version, default gateway, preferred DNS and alternate DNS, the input value shall be 128-digit. It shall not be left in blank.

Advanced setup

The remote host can choose multi-cast and PPOE to set. See Figure 8-30.

Configuration						
Control Panel C	Service User Password	MULTICAST	Advance IP Address Port	233 - 255 - 4. 36666 Save	2 . 42 1~65500	-

Figure 8-30 Network

Parameter Function		Function
Remote host	PPPOE	 Input the user name and password which ISP(Internet service supplier) provided and chose enable.
		 Reboot system after configuration is saved and the device will auto connect to Internet. The IP address is the WAN IP.
		 There are two conditions for reboot,
		1. The user must have the authority to reboot device.
		2. There is no user login the system menu on the local end
		 After PPPOE dial succeed, get the current IP address and visit this IP address via WEB.

Email

The email interface is shown as in Figure 8-31.

Configuration							×
Control Panel QUERY SYSTEM INFO HDD INFO HDD INFO GENERAL GENE	SMTP Server Port User Name Password Sender Subject. Receiver 1 Receiver 2 Receiver 3 Send Interval HealthMail Enable Interval	MailServer 25 ALERT 120 60	EMAIL 1~65500 sec. Minutes	Verify	Enable Encrypt Type Anonymous Save	NONE Attachment	

Figure 8-31 Email

Parameter	Function
SMTP Server	Input server address and then enable this function.
	You can also input the corresponding server domain name
	here, but you need to go to DNS interface (chapter 7.3.4.1) to
	set the server IP that can parse the domain.
SSL enable	You can enable SSL encryption function to guarantee data
	safety.
Port	Default value is 25. You can modify it if necessary.
User Name	The sender email account user name.
Password	The sender email account password.
Sender	Sender email address.

Parameter	Function
Subject	Input email subject here. Max 32-digit.
Address	Input receiver email address here. Max input three addresses.
Interval	Please input the send interval value here.

DDNS

The DDNS interface is shown as in Figure 8-32.

Configuration					\mathbf{X}
Control Panel Cutery System INFO VERSION HDD INFO Coff System CoNFIG GENERAL Coff ENCODE SCHEDULE Coff R5232	DDNS Type Server IP Port Domain Mode Domain Name User Name	ND-IP DDNS dynupdate.no-ip.c 80 C Default Domain	1~65535	n Domain Name	
AUXING AUXING	Password Alive Interval(sec.)	300	300~65535		
				Save	Refresh

Figure 8-32 DDNS

Please refer to the following sheet for detailed information.

Parameter	Function
Server Type	You can select DDNS protocol from the dropdown list and then enable DDNS function. The private DDNS protocol means you use our self-defined private protocol to realize DDNS function.
Server IP	DDNS server IP address
Server Port	DDNS server port.
Domain Name	Your self-defined domain name.
User	The user name you input to log in the server.
Password	The password you input to log in the server.
Interval	Device sends out alive signal to the server regularly. You can set interval value between the device and DDNS server here.

Private DDNS and Client-end Introduction

1) Background Introduction

Device IP is not fixed if you use ADSL to login the network. The DDNS function allows you to

access the NVR via the registered domain name. Besides the general DDNS ,the private DDNS works with the device from the manufacturer so that it can add the extension function.

2) Function Introduction

The private DDNS client has the same function as other DDNS client end. It realizes the bonding of the domain name and the IP address. Right now, current DDNS server is for our own devices only. You need to refresh the bonding relationship of the domain and the IP regularly. There is no user name, password or the ID registration on the server. At the same time, each device has a default domain name (Generated by MAC address) for your option. You can also use customized valid domain name (has not registered.).

3) Operation

Before you use our private DDNS, you need to enable this service and set proper server address, port value and domain name.

- Server address: www.dahuaddns.com
- Port number: 80
- Domain name: There are two modes: Default domain name and customized domain name.

Except default domain name registration, you can also use customized domain name (You can input your self-defined domain name.) After successful registration, you can use domain name to login installed of the device IP.

• User name: It is optional. You can input your commonly used email address.

Important

- Do not register frequently. The interval between two registrations shall be more than 60 seconds. Too many registration requests may result in server attack.
- System may take back the domain name that is idle for one year. You can get a notification email before the cancel operation if your email address setup is OK.

NAS

NAS interface is shown as in Figure 8-33.

Configuration		×
E Control Panel	NAS	
QUERY SYSTEM INFO VERSION HDD INFO GGNERAL GG GENERAL		21~65535 MB sec.
ENCODE SCHEDULE RE322 NETWORK ADVANCE	remote ram Period Info Channel Channel 01 Regular MD Alarm 0 4 8 12 16 20	24
	Sun Mon	Set
ALARM CENTER SNMP UPNP		Set
ALARM DETECT PAN/TILT/ZOOM DEFAULT/BACKUP		Set
ADVANCED ADVITIONAL FUNCTION	Fri	Set
	Sat	Set
	Copy Verify Save	Refresh

Figure 8-33 NAS

Sunday		
Defa	ault Current	Regular MD Alarm
Period 1	(:00:00 * 0:00:00	
Period 2	0:00:00	÷ □ □ □
⊡ O" I Sun	🗆 Mon 🗖 Tue 🛛	Wed
🗖 Thu	🗆 Fri 🗖 Sat	
	OK Ca	ncel

Figure 8-34 NAS Setup

Please refer to the following sheet for detailed information.

Paramete	r	Function		
NAS enat	ble Please select network storage protocol and then enal NAS function. The network storage protocol incluc FTP.			
Server IP		Input remote storage server IP address.		
Port		Input Remote storage server port number.		
User Nam	е	Log in user account.		
File length	١	The max files length when you transfer the file. When the input value is 0, then system upload the whole files.		
Password		The password you need to login the server.		
Remote P	ath	Remote storage file path.		
	Channel	Select a monitor channel .		
Period info.	Setup	 In NAS interface, click set button, you can go to the corresponding setup interface. See Figure 8-34. .Please set schedule period and then select corresponding record type: schedule/alarm. Please note device does not support motion detect record function now. Please select date (Current setup applies to current day by default. You can draw a circle before the week to apply the setup to the whole week.) After complete setup, please go back to Figure 7-28 and then click save to save current time period setup. 		
Сору	I	User can use this shortcut to copy the storage state of a channel to another (or all other channels)		

NTP

The NTP interface is shown as in Figure 8-35.

Here you can realize network time synchronization. Please enable current function and then input server IP, port number, time zone and time.

Configuration					
Control Panel Werston Werston Wreston Wreston	I▼ Enable Server IP Port Time Zone Update Period	MTP time.windows.com 123 GMT+08:00 \$60	Minutes anu Update	Save Refresh	1

Figure 8-35 NTP

Please refer to the following sheet for detailed information.

Parameter	Function	
Enable	Enable NTP function or not.	
Server IP	Server IP address	
Port	Server port. System supports TCP only and default port value is 123.	
Time Zone	Device current time zone.	
Update Interval	Time update interval value.	

Alarm Centre

Alarm centre interface is shown as below. See Figure 8-36.

Please input alarm centre server IP, port number. Once there is an alarm occurred, system can notify the alarm centre as you specified here.

Figure 8-36 Alarm Centre

UNPN

Go to the UPnP interface, you can see an image is shown as in Figure 8-37.

It allows you to establish the mapping relationship between the LAN and the public network. Here you can also add, modify or remove UPNP item.

Configuration							
Control Panel Cutery System INFO Version HDD INFO LOG	Status Internal	_	earching		R	UPNP Enable	
SYSTEM CONFIG	External Addr 0.0.0.0						
SCHEDULE							
🧰 R5232		Server Name		otocol	Internal port	External port	
E E NETWORK		HTTP	TC		80	80	
- ADVANCE		TCP	TC		37777 37778	37778	
EMAIL		UDP RTSP	UD UD		554	554	
DDNS	_	RTSP	TC		554	554	
		SNMP	UD		161	161	
ALARM CENTER		lapping	Delete				resh

Figure 8-37 UNPN

SNMP

The SNMP interface is shown as in Figure 8-38.

SNMP is an abbreviation of Simple Network Management Protocol. It provides the basic network management frame of the network management system. The SNMP widely used in many environments. It is used in many network device, software and system.

Please refer to chapter 6.6.5.12 SNMP for detailed information.

Configuration			X
Configuration Control Panel Current System INFO Current Version Configuration Current Configuration Current Configuration Current Configuration Current Configuration Current	Image: First Content Image: Port ReadCommon WriteCommon TrapIP TrapPort	SNMP	Save Refresh

Figure 8-38 SNMP

8.4.2.6 Alarm Alarm setup interface is shown as in Figure 8-39.

Configuration			X
	_		
Control Panel		ALARM	
VERSION	Event Type	Local Alarm 👤	
	Alarm In	Input 01 V Type Normal Open V	
E T SYSTEM CONFIG			
GENERAL	Period	Set Anti-dither 5 sec. 5~600	_
SCHEDULE	🔲 Alarm Out	1 2 3	
E 📔 NETWORK			
	Latch	10 sec. 10~300 🔽 Alarm Upload	
PAN/TILT/ZOOM	🔽 Record Channel	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	
DEFAULT/BACKUP ADVANCED	Record Latch	10 sec. 10~300 🔲 SMS	
	🔲 Send Email	Show Message Buzzer	
	🗖 Tour	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	
	PTZ Activation	Set	
	Capture	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	
			_
	Сору	Save Refresh	1
			_

Figure 8-39 Alarm Setup

hannel	Event Type	Addr.	Channel	Event Type	Addr.						
01	Never	• 0	09	Never	• 0	17	Never	v 0	25	Never	v 0
02	Never	• 0	10	Never	• 0		Never	-		Never	-
03	Never	• 0	11	Never	• 0	19	Never	- 0	27	Never	-
04	Never	• 0	12	Never	• 0		Never	- 0		Never	v 0
05	Never	• 0	13	Never	• 0	21	Never	-	29	Never	v 0
06	Never	• 0	14	Never	0		Never	y 0		Never	v 0
07	Never	• 0	15	Never	0		Never	- 0	31	Never	-
08	Never	- 0	16	Never -	. 0	24	Never	v 0		Never	v 0

Figure 8-40 PTZ Setup

Sunday		X
Defa	ault Current	
Period 1	[:00:00 ÷ 23:59:59 ÷ ▼	
Period 2	0:00:00 🕂 🗌 23:59:59 📫 🗆	
Period 3	0:00:00 🔹 🗆 23:59:59 🔹 🗆	
Period 4	0:00:00 🔹 🗆 23:59:59 🔹 🗆	
Period 5	0:00:00 🔹 23:59:59 🔹 🗆	
Period 6	0:00:00 🔹 23:59:59 🔹 🗆	
💌 Sun	🗆 Mon 🔲 Tue 📄 Wed	
🗖 Thu	🗖 Fri 🗖 Sat	
	OK Cancel	



Parameter	Function				
Event Type	 Event type: There are four types. Local input/network input/IPC external/IPC offline alarm. Local input alarm: The alarm signal system detects from the alarm input port. Network input alarm: It is the alarm signal from the network. IPC external alarm: It is the on-off alarm signal from the front-end device and can activate the local NVR. IPC offline alarm: Once you select this item, system can generate an alarm when the front-end IPC disconnects with the local NVR. 				
Alarm in	Select corresponding alarm channel.				
Enable	You need to draw a circle here so that system can detect the alarm signal.				

Parameter	Function
Туре	There are two options: normal open and normal close. NO becomes activated in low voltage, NC becomes activated in high voltage.
Period	Alarm record function becomes activated in the specified periods.There are six periods in one day. Please draw a circle to enable corresponding period.Select date. If you do not select, current setup applies to today only. You can select all week column to apply to the whole week.
	Click OK button, system goes back to alarm setup interface, please click save button to exit.
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 0 to 15s.
Relay Out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs. For 6-ch alarm output port device, the 6 th channel is the controllable
Alarm Latch	+12V output. System can delay the alarm output for specified time after alarm ende The value ranges from 10 seconds to 300 seconds.
Record Channel	System auto activates current channel to record once alarm occurs (working with alarm activation function). Please note current device shall be in auto record mode
Record Latch	System can delay the record for specified time after alarm ended. T value ranges from 10s to 300s.
Email	Please draw a circle to enable email function. System can send c email to alert you when alarm occurs and ends.
Screen display	After enabled, alarm info will be prompted out on the local output end. That is to say, the alarm prompt will be displayed beside the channel name on the local surveillance image.
Buzzer	Once you check the box here, the buzzer beeps when an alarm occurred.
Tour	Display the selected video in local monitor window. When alarm occurs, system can begin one-window tour for the activated record channel. Please set the tour time in the local end.
PTZ activation	Here you can set PTZ movement when alarm occurs. Such as go to preset x when there is an alarm. The PTZ configuration events include preset, tour, and pattern.
Capture	You need to input capture channel number so that system can backup snapshot file when alarm occurs.
Сору	It is a shortcut menu button. You can copy current channel setup to one or more (all) channels.

8.4.2.1 Detect

By analyzing video image, system will boot video detection alarm when it senses the motion

signal which meets the senility standard that is previously set. See Figure 8-42.

Configuration		
🖳 Control Panel	·	DETECT
QUERY SYSTEM INFO WERSION WHDD INFO CO LOG	Event Type	Motion Detect 💌
	Channel	Channel 01 V Sensitivity 3 V
GENERAL	Region Period	Set Anti-dither 5 sec. 5~600
CHEDULE	🔽 Alarm Out	1 2 3
ALARM DETECT PAN/TILT/ZOOM	Latch	10 sec. 10~300 IZ Alam Upload 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
DEFAULT/BACKUP	Record Latch	10 sec. 10~300 SMS
E- 🛅 ADDITIONAL FUNCTION	🔲 Send Email	Show Message 🛛 🗖 Buzzer
	🗖 Tour	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
	PTZ Activation	Set
	Capture	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
	Сору	Save Refresh

Figure 8-42 Detect

Please refer to the following sheet for detailed information.

Parameter	Function				
Event type	Motion detect, video loss and video masking				
Channel	select the channel to activate recording function				
Sensitivity	System supports 6 levels. The sixth level has the highest sensitivity.				
Enable button	Tick to enable				
	There are PAL22X18/NTSC22X15 small zones.				
Region	Blue area is the detection zone. Right click to view in full screen, click OK				
	before exit to save the setup.				
Period	Here you can set for business day and non-business day.				
Anti-dither	Range: 0~600				
Alarm output: s.	when alarm occurred, system enables peripheral alarm device				
Record channel	Select the recording channel (can be selected more than once) , this channel				
Record channel	will be activated to record when alarm occurs.				
Send email	System can send out email to alert you when alarm occurs.				
Tour	Here you can enable tour function when alarm occurs.				
	Here you can set PTZ movement when alarm occurs. Such as go to preset,				
PTZ activation	tour &pattern when there is an alarm.				
Capture	You need to input capture channel number so that system can backup snapshot file when alarm occurs.				

8.4.2.2 PTZ

PTZ interface is shown as in Figure 8-43

Please note, before operation please make sure you have set speed dome address and the NVR

and speed dome connection is OK.

Configuration		
📃 Control Panel		PAN/TILT/ZOOM
CUERY SYSTEM INFO	Channel	Channel 01 💽
HDD INFO	PTZType	Local
SYSTEM CONFIG	Protocol	NONE
	Address	1 0~255
	Baudrate	9600 💌
E E NETWORK	Data Bits	8 💌
DETECT PAN/TILT/ZOOM	Stop Bits	1 💌
DEFAULT/BACKUP ADVANCED	Parity	None
E C ADDITIONAL FUNCTION		
	Сору	Save Refresh

Figure 8-43 PTZ

Please refer to the following sheet for detailed information.

Parameter	Function
Channel	You can select monitor channel from the dropdown list
Protocol	Select the corresponding dome protocol.(such as PELCOD)
Address	Set corresponding dome address. Default value is 1. Please note your setup here shall comply with your dome address; otherwise you can not control the speed dome.
Baud Rate	Select the dome baud rate. Default setup is 115200.
Data Bit	Default setup is 8. Please set according to the speed dome dial switch setup.
Stop bit	Default setup is 1. Please set according to the speed dome dial switch setup.
Parity	Default setup is none. Please set according to the speed dome dial switch setup.

8.4.2.3 Default & Backup

Default: Restore factory default setup. You can select corresponding items.

Backup: Export current configuration to local PC or import configuration from current PC. Please refer to Figure 8-44.

Please note system can not restore some information such as network IP address.

Configuration			X					
Scontrol Panel		DEFAULT/BACKUP	-					
QUERY SYSTEM INFO	Please select setting entries that you want to default.							
HDD INFO	Select all	Default						
E IN SYSTEM CONFIG	GENERAL	ENCODE	-					
ENCODE	SCHEDULE	□ RS232						
R5232	NETWORK	C ALARM						
alarm	DETECT	PAN/TILT/ZOOM						
DETECT	DISPLAY	CHANNEL NAME						
DEFAULT/BACKUP	REMOTEDEV							
	Config Backup		-					
	Default Path: C:\Docu	iments and Settings\10881\Desktop\						
	Export Config	Import Config						
			-					

Figure 8-44 Default and Backup

Please refer to the following sheet for detailed information.

Parameter	Function
Select All	Restore factory default setup.
Export Configuration	Export system configuration to local PC.
Import Configuration	Import configuration from PC to the system.

8.4.3 Advanced

8.4.3.1 HDD Management

Please select the storage device first and then you can see the items on your right become valid. You can check the corresponding item here. See Figure 8-45.

Configuration		2
📃 Control Panel	HDD MANAGEMENT	
OUERY SYSTEM INFO VERSION VER	HDD MANAGEMENT	
	Execute	

Figure 8-45 HDD Management

Please refer to the following sheet for detailed information.

Parameter	Function
Format	Clear data in the HDD.
Read/write	Set current HDD as read/write
Read only	Set current HDD as read.
Redundant	Set current HDD as redundant HHD.
Recover	Fix the HDD error. Right now the device does not support this function.

8.4.3.2 Abnormity

The interface is shown as in below. See Figure 8-46 and Figure 8-47.

Configuration				×
Control Panel Cutrol Panel Cutr	Event Type	ABNOF	MALITY	
SYSTEM CONFIG ADVANCED HDD MANAGEMENT ABNORMALITY ABNORMALITY BRORMALITY BRORMALIT	Alarm Out	1 2 3		
	Latch	10 sec. 10~300	✓ Alarm Upload SMS	
ADDITIONAL FUNCTION	🔲 Send Email	Show Message	₩ Buzzer	
			Save	lefresh

Figure 8-46 Abnormity -1

Configuration					$\mathbf{\overline{\times}}$
Control Panel	·	ABNORN	IALITY		-
HDD INFO 	Event Type Threshold	Disk No Space 🗸 🗸			
ADVANCED HOD MANAGEMENT ABNORMALITY ABNORMALITY ALARM I/O CONFIG RECORD	🗹 Alarm Out	1 2 3			
	Latch	10 sec. 10~300	🔽 Alarm Upload		
REMOTE DEVICE PREVIEW CONTROL			🗆 SMS		
🗄 🥁 ADDITIONAL FUNCTION	Send Email	Show Message		Buzzer	-
					_
				Save Refresh	-

Figure 8-47 Abnormity -2

Parameter	Function						
Event Type	The abnormal events include: no disk, no space, disk error, offline, IP conflict.						
	You need to draw a circle to enable this function.						
	Threshold: It refers to the HDD free space threshold.						
Normal Out	The corresponding alarm output channel when alarm occurs. The alarm output channel may vary. The interface here is for reference only.						
Latch	The alarm output can delay for the specified time after alarm stops. The value ranges from 10s to 300s.						
Record channel	After you selected the disk connection option, once the device is offline, the activated channel can begin alarm record.						
Record latch	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.						
SMS	If you check the box here, system can send out a message to the specified mobile phone when an alarm occurred.						
Send email	If you enable this function, system can send out email to alarm the specified user.						
Show message	Once you check the box to enable this function, system can display the alarm icon on the right of the channel name at the local end.						

8.4.3.3 Alarm I/O

Here you can search alarm output status. See Figure 8-48.

Configuration		X
Configuration Control Panel Currol Panel	ALARM I/D CONFIG	_

Figure 8-48 Alarm I/O Configuration

Important

The alarm output port should not be connected to high power load directly (It shall be less than 1A) to avoid high current which may result in relay damage. Please use the co contactor to realize the connection between the alarm output port and the load.

Please refer to the following sheet for detailed information.

Parameter	Function
Alarm output	The alarm output channel may vary. The interface here is for reference only.
	Please click the corresponding number and then click the trigger button.
Trigger	Enable/disable alarm output. Please note once you activate an alarm manually, you need to click the output channel number again and then click trigger button to disable it. Otherwise the alarm can not be cancelled.
Refresh	Search alarm output status.

8.4.3.4 Record

Record control interface is shown as in Figure 8-49.

The bit stream type includes main stream and extra stream.

Configuration																			—
📃 Control Panel					_		B	leco	rd										
E-V QUERY SYSTEM INFO	Record																		
VERSION HDD INFO LOG SYSTEM CONFIG ADVANCED	Main Stream	Main	Strea	im 💌	·														
HDD MANAGEMENT	Mode	All	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
ABNORMALITY AMORMALITY ACTION FIG RECORD ACCOUNT ACCOUNT ACCOUNT ANAPHOT ANAPHOT REMOTE DEVICE REVIEW CONTROL ADDITIONAL FUNCTION	Schedule Manual Stop	Cec	000	000		•	0.00	0.00	0.00	000	000	0.0.0	000	000	000	000	000	000	
												Sav	e		F	Refre	sh]	

Figure 8-49 Record

Please refer to the following sheet for detailed information.

Parameter	Function
Schedule	System enables auto record function as you set in schedule setup (chapter 7.3.2.2).
Manual	Enable corresponding channel to record no matter what period applied in the record setup.
Stop	Stop current channel record no matter what period applied in the record setup.

8.4.3.5 Account

Here you can add, remove user or modify password. See Figure 8-50.

Configuration		X
Control Panel QUERY SYSTEM INFO WERSION UOG ADVANCED ADVANCED ADVANCED ALARM I/O CONFIG ALA	ACCOUNT Account Account Add User Add User Add User Add User Add User Delete User Modify Password Add Group Modify Group Delete Group Refresh	

Figure 8-50 Account

Add User					×
User Name			•	Reuseable	
Password					
Confirm					
Group	admin	-			
Memo					
Authority -					
🔽 All					
 Control I Shutdow Monitor 	vn the device CH01 CH02 CH03 CH04 CH05 CH05 CH06 CH07 CH08 CH09 CH10 CH11 CH12 CH13 CH14				
[Save	(Cano	el	

Figure 8-51 Add user

Parameter	Function
User	Input the user name of the new established account.
Reusable	The reusable account means that this account can be used in more than one PC at the same time.

Password	Input the password of the new established account.
Confirm	Input the password of the new established account again.
Group	Select the group which the new account belongs to.
Memo	Memo about the new account
Authority/All	User can select all to entitle this account to all authorities or set authority of each item respectively.

8.4.3.6 Snapshot

Snapshot interface is shown as in Figure 8-52.

Here you can set snap mode, frequency, resolution and quality of each channel.

Configuration					
Control Panel Contr	Channel Snapshot mode Frame Rate Resolution Quality	Channel 01 Snapshot_Timing 1F/S CIF 60% V	SNAPSHOT —		
	Сору			Save	Refresh

Figure 8-52

8.4.3.7 Auto Maintenance

Here you can select auto reboot and auto delete old files interval from the dropdown list. See Figure 8-53.

Configuration		×
Control Panel C	Auto-Reboot System Every Tuesday Auto-Delete Old Files Customized Day(s) Ago	
	SaveRefresh	

Figure 8-53 Auto Maintenance

8.4.3.8 Remote device

Remote device interface is shown as in Figure 8-54.

Configuration												
📃 Control Panel					- 1	REMOTE						
E QUERY SYSTEM INFO		10	IP Address	Port	De	evice Nam	е	Manufac	turer	Туре	e	
VERSION		1	10.15.5.13	37777	HD	DVR		Private		HDV	/B	
HDD INFO		2	192.168.1.1	37777	ΥZ	2C2FW137	700	Private		IPC-	HDW21	
		3	192.168.0.1	4500	PZ	2C2DW45	100	Private		IPC-	HD2100	=
E ADVANCED		4	10.15.5.112	37777	NV	/R		Private		NVE	}	_
HDD MANAGEMENT		5	10.15.6.131	37777	ΥZ	2B1KW01	700	Private		SD6	5XX-HN	
		6	10.15.5.82	40003	D٧			Private			5XX-HN	
🗀 ALARM I/O CONFIG		7	10.15.6.175	37777		2C1CW15	200	Private			HF3300	
🗀 RECORD	<u>-</u>	8	10.15.5.115	37777	NV			Private		NVE		~
COUNT		0	10155000	77777	D)	/n		Datasete		- DV/D	1	
	De	vice Sea	rch Ac	ld				T	ype	None	•	•
PREVIEW CONTROL		Cha	Connectio	IP Address		Port	Devi	ice Name	Rem	note	Manufa	cturer
ADDITIONAL FUNCTION		1	Unconnect	10.15.5.88		40007	YZC	2CW02	1		Private	
		2	Connected	10.15.5.81		40000			1		Private	
	L											
	<											>
		Delete	Manua	al Add								
								Save		Re	fresh	

Figure 8-54 Remote device

Add RemoteDev		×
Channel	Channel5	ſ
Manufacturer	Private 💌	
IP Address	192.168.0.0	
TCP Port	37777	
User Name	admin	
Password	жжжж	
Remote Channel	1	
Decode Buffer	280	(80~480)ms
	Ok Cancel	

Figure 8-55 Manual Add

Please refer to the following sheet for detailed information.

Parameter	Function
Remote device information	Here you can see searched remote device name, IP address, TCP port and manufacturer name.
Channel	Please select the local device channel number to connect to the remote device. You need to highlight the enable item to activate this function. Now you can see remote device type, IP address and etc.
Device search	Please click the Device Search button to search the all remote devices available. Please note system can only search the devices in the same segment and the device shall disable the firewall.
Туре	Select remote device type here.
IP address, port, remote channel.	Please input remote device IP address, port number, remote device channel number and account manually.
User/password	Please input account to login the remote device.
Manual add	Click the Manual add button, you can see an interface shown as in Figure 8-55. You can input remote device information manually.

8.4.3.9 Preview Control

Here you can set preview mode: 1/4/8/9/16-window. See Figure 8-56.

For 16-channel series product, the preview channel ranges from channel 1 to channel 16. For 32-channel series product, the preview channel ranges from channel 1 to channel 32.

Control Panel Currol Panel Currol Panel Currol Panel Currol Panel Currol Panel Preview Mode Preview Mode Preview Mode Preview Mode Preview Chan Preview Chan Channel 01 Preview Chan Preview Chan Channel 01 Autor Maintenance Remote Device Remote Device Remote Device Preview Control Autor Maintenance Remote Device Remote Device Preview Chan Preview Chan Channel 01 Preview Chan Channel 01 Preview Chan Channel 01 Preview Chan Previe

Figure 8-56 Preview Control

8.4.4 Additional Function

8.4.4.1 Auto register

The auto register interface is shown as in Figure 8-57.

You can set the server IP and port if you want to use the auto register function. After the device registered to the server, you can access the device after the client-end connected to the server.

Configuration	×
Control Panel QUERY SYSTEM INFO QUERY SYSTEM INFO HDD INFO LOG ADVANCED ADVANCED ADVITIONAL FUNCTION AUTO REGISTER GIVENTING G	I ▼ IP 0.0.0.0 Port 8000 Device ID 0 Save Refresh

Figure 8-57 Auto register

8.4.4.2 Mobile Config

The mobile setup interface is shown as in Figure 8-58.

Here you can activate or disconnect device 3G connection such as telephone or mobile phone, or the alarm activated message No.

Configuration			X
Control Panel QUERY SYSTEM INFO W HOD INFO UGG ADVANCED ADVANCED CARD OVERLAY AUTO REGISTER MOBILE CONFIG WIFI CONFIG	Message Sent Receiver Add Delete Receiver	SMS Activate Sender Add Delete SMS Activate	Phone Activate
	Message SMS Title DVR Message Save Received Messages Refresh	Save Sent Messages	Save Dialed Phone

Figure 8-58 Mobile Setup

8.4.4.3 WIFI Config

The WIFI interface is shown as in Figure 8-59.

Here you can view WIFI connection status. System displays as no connection if there is no connection. You can view connection status and IP address if there is a connection. See Figure 8-60.

Configuration						
Control Panel - W QUERY SYSTEM INFO - W VERSION	Auto Connect WIFL					
HOD INFO LOG FOR CONFIG ADVANCED ADVANCED ADUTIONAL FUNCTION A	Num 1 WIFI W Current IP Addr	SSID example Connect ork INF0 Hotspot ess	VerifyType OPEN	EncrypType WEP	Signal 0%	Refresh

Figure 8-59 WIFI Setup

WIFI Connect	X
	/IFI Connect
SSID	example
Connect State	Unconnected
Connect Signal	0%
Encrypt Type	WEP
	OPEN
Verify Type	UPEN
Connect Password	DHCP
IP Address	· · ·
Subnet Mask	· · ·
Default Gateway	· · ·
	Cancel

Figure 8-60

Please refer to the following sheet for detailed information.

Parameter	Function
Refresh	Search hotspot again and system can automatically add the information such as password (If there is any record of the hotspot.)
WIFI working information	Here you can view current connection status.You can view connection status and IP address if there is a connection.Otherwise system shown as there is no hotspot connection.

8.5 Search

Click search button, you can see an interface is shown as in __Figure 7-60.

Please set record type, record date, window display mode and channel name.

You can click the date on the right pane to select the date. The green highlighted date is system current date and the blue highlighted date means it has record files.



Figure 8-61

Then please click search button, you can see the corresponding files in the list. See Figure 7-61.

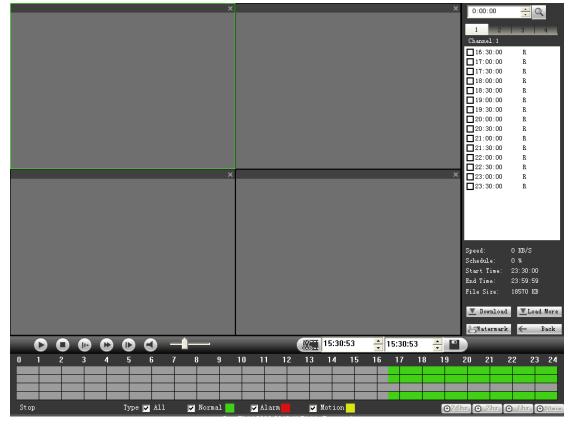


Figure 8-62

Select the file(s) you want to download and then click download button, system pops up a dialogue box shown as in __Figure 7-62, then you can specify file name and path to download the file(s) to your local pc.

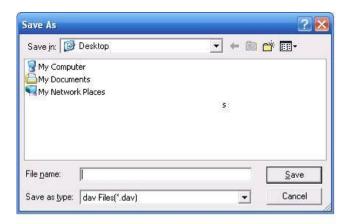


Figure 8-63

Load more

It is for you to search record or picture. You can select record channel, record type and record time to download. See Figure 8-64.

Download	Set Downloa	No.	Size(KB)	Begin Time	End Time	File type C.
earch		1	18504	2012-06-18 15:30:00	2012-06-18 16:00:00	Common (Main S 1
		2	6837	2012-06-18 16:00:00	2012-06-18 16:10:40	Common (Main S 1
hannel	Type	3	12081	2012-06-18 17:10:42	2012-06-18 17:30:00	Common (Main S 1
11 💌		4	18454	2012-06-18 17:30:00	2012-06-18 18:00:00	Common (Main S 1
11 💌	All Records 💌	5	18549	2012-06-18 18:00:00	2012-06-18 18:30:00	Common (Main S 1
egin Time		6	18508	2012-06-18 18:30:00		Common (Main S 1
egin iime		7	18477	2012-06-18 19:00:00	2012-06-18 19:30:00	Common (Main S 1
012- 6-18 🖵	15:30:52	8	18515	2012-06-18 19:30:00	2012-06-18 20:00:00	Common (Main S 1
		9	18527	2012-06-18 20:00:00	2012-06-18 20:30:00	Common (Main S 1
nd Time		10	18537	2012-06-18 20:30:00	2012-06-18 21:00:00	Common (Main S 1
		11	18517	2012-06-18 21:00:00	2012-06-18 21:30:00	Common (Main S 1
012- 6-19 👻	15:30:52 📫	12	18535	2012-06-18 21:30:00	2012-06-18 22:00:00	Common (Main S 1
		13	18627	2012-06-18 22:00:00	2012-06-18 22:30:00	Common (Main S 1
tream Type	MandAStream 🔻	14	18635	2012-06-18 22:30:00	2012-06-18 23:00:00	Common (Main S 1
		15	18602	2012-06-18 23:00:00	2012-06-18 23:30:00	Common (Main S 1
		16	18629	2012-06-18 23:30:00	2012-06-19 00:00:00	Common (Main S 1
		17	18474	2012-06-19 00:00:00		Common (Main S 1
Search		18	18492	2012-06-19 00:30:00		Common (Main S 1
		19	18379	2012-06-19 01:00:00		Common (Main S 1
ownload		20	18393	2012-06-19 01:30:00		Common (Main S 1
vpe	Type	21	425	2012-06-19 02:00:00		Common (Main S 1
Abe	Type	22	17886	2012-06-19 02:01:00		Common (Main S. 1
ile 🔻	DAV 🔻	23	18499	2012-06-19 02:30:00		Common (Main S 1
		24	18482	2012-06-19 03:00:00		Common (Main S 1
	Download	25	18493	2012-06-19 03:30:00	2012-06-19 04:00:00	Common (Main S 1
				I	▲ 1/23 ▶	► Go 1 Page
emote Backup- ackup device		Device	e ID	Type BUS	Left Space(KB) To	tal Sp Directory
Search		<				
ackup type	DAV 🔻					



In Figure 8-64, there is a remote back pane at the left bottom of the pane. It allows you to backup the record or picture to your local USB storage media via the Web remotely. Click the search button; you can view the available storage device. See Figure 8-64. Please select from the dropdown list and then begin the backup. Please refer to chapter 8.2.5 to set device download path.

Download	Set Downloa	No.	Size(KB)	Begin Time	End Time	File type C
		1	18504	2012-06-18 15:30:00	2012-06-18 16:00:00	Common (Main S 1
Search		2	6837	2012-06-18 16:00:00	2012-06-18 16:10:40	Common Main S 1
Channel	Type	3	12081	2012-06-18 17:10:42	2012-06-18 17:30:00	Common (Main S 1
		4	18454	2012-06-18 17:30:00	2012-06-18 18:00:00	Common (Main S 1
All 🗾	All Records 💌	5	18549	2012-06-18 18:00:00	2012-06-18 18:30:00	Common (Main S 1
Begin Time		6	18508	2012-06-18 18:30:00	2012-06-18 19:00:00	Common (Main S 1
egin lime		7	18477	2012-06-18 19:00:00	2012-06-18 19:30:00	Common (Main S 1
2012- 6-18 -	15:30:52	8	18515	2012-06-18 19:30:00	2012-06-18 20:00:00	Common (Main S 1
	10.00.02	9	18527	2012-06-18 20:00:00	2012-06-18 20:30:00	Common (Main S 1
and Time		10	18537	2012-06-18 20:30:00	2012-06-18 21:00:00	Common (Main S 1
		11	18517	2012-06-18 21:00:00	2012-06-18 21:30:00	Common (Main S 1
2012- 6-19 👻	15:30:52	12	18535	2012-06-18 21:30:00	2012-06-18 22:00:00	Common (Main S 1
		13	18627	2012-06-18 22:00:00	2012-06-18 22:30:00	Common (Main S 1
Stream Type	MandAStream 🔻	14	18635	2012-06-18 22:30:00	2012-06-18 23:00:00	Common (Main S 1
		15	18602	2012-06-18 23:00:00	2012-06-18 23:30:00	Common (Main S 1
		16	18629	2012-06-18 23:30:00	2012-06-19 00:00:00	Common (Main S 1
		17	18474	2012-06-19 00:00:00	2012-06-19 00:30:00	Common (Main S 1
Search		18	18492	2012-06-19 00:30:00	2012-06-19 01:00:00	Common (Main S 1
		19	18379	2012-06-19 01:00:00	2012-06-19 01:30:00	Common (Main S 1
lownload		20	18393	2012-06-19 01:30:00	2012-06-19 02:00:00	Common (Main S 1
VDe	Туре	21	425	2012-06-19 02:00:00	2012-06-19 02:00:03	Common (Main S 1
) Pe		22	17886	2012-06-19 02:01:00	2012-06-19 02:30:00	Common (Main S 1
Cime 🔻	DAV 🔻	23	18499	2012-06-19 02:30:00	2012-06-19 03:00:00	Common (Main S 1
_		24	18482	2012-06-19 03:00:00	2012-06-19 03:30:00	Common (Main S 1
Channel	Download	25	18493	2012-06-19 03:30:00	2012-06-19 04:00:00	Common (Main S 1
1 💌	Stream Type			H	I 🛋 1/23 🕨	Go 1 Page
Begin Time	Main Stream 💌					_
2012- 6-18 👻	15:30:52					
End Time	,					
	La es es					
2012- 6-19 💌	15:30:52					
Remote Backup-					[
		Device		ype BUS		tal Sp Directory
Backup device	sde5 (USB 💌	sde5 (U	SB DISK) – D	ISK USB	7455744 78	17728 /nfs
Search						
lackup type	DAV	<				

Figure 8-65

Now you can see system begins download and the download button becomes stop button. You can click it to terminate current operation.

At the bottom of the interface, there is a process bar for your reference.

8.6 Alarm

Click alarm function, you can see an interface is shown as in Figure 8-66.

Here you can set device alarm type and alarm sound setup.

When alarm occurs, system can display the alarm information in the corresponding interface. For motion detect, video loss, camera masking, you need to set the event in the motion detection interface. Current series product does not support this function.

Alarm				X
	External Alarm Broken Alarm IPC Ex_Alarm IPC Disconned	Alarm Sound		Prompt >> Clear
Time	Device ID	Event Type	Alarm Port/Channel	

Figure 8-66 Alarm

Please refer to the following sheet for detailed information.

Туре	Parameter	Function				
Alarm	Video loss	System alarms when video loss occurs.				
Туре	Motion detection	System alarms when motion detection alarm				
		occurs,				
	Disk full	System alarms when disk is full.				
	Disk error	System alarms when disk error occurs.				
	Camera masking	System alarms when camera is viciously masking.				
	External alarm	Alarm input device sends out an alarm.				
	Offline alarm NVR local-end offline alarm.					
	IPC external	It refers to the on-off alarm signal from the front-end				
	alarm	device and can activate NVR local operation.				
	IPC offline alarm	System can generate an alarm when the front-end				
		IPC disconnects with the local NVR.				
Operation	Listening alarm	System notifies web when alarm occurs (you select				
		from the above event type), and then web can				
		notify user.				
	Video	When alarm occurs, system auto enables video				
		monitor.				
		This function only applies to video detection alarm				
		(motion detection, video loss and camera masking).				
		This function is not available in current device.				
	Prompt	Automatically pops up alarm dialogue box.				

Туре	Parameter	Function
	Sound pop up System sends out alarm sound when	
		You can specify as you wish.
	Path	Here you can specify alarm sound file.

8.7 About

Click about button, you can view the web information. See Figure 8-67.

About		
	Webrec Control, NETSDK,	Version: 2.1.7.70 Version: 3.3.8.6287
	PLAYSDK,	Version: 3.32.0.6193
	Сор	yright (C) 2011

Figure 8-67 About

8.8 Log out

Click log out button, you can go back to log in interface. See Figure 8-68.

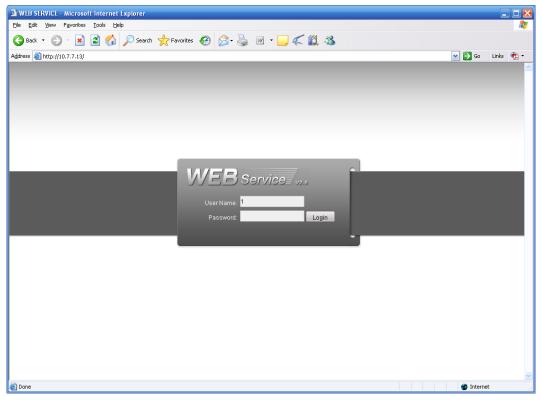


Figure 8-68 Logout

9 FAQ

1. Device can not boot up properly.

There are following possibilities:

- Input power is not correct.
- Power connection is not correct.
- Power switch button is damaged.
- Program upgrade is wrong.
- HDD malfunction or something wrong with HDD ribbon.
- Seagate DB35.1, DB35.2, SV35 or Maxtor 17-g has compatibility problem. Please upgrade to the latest version to solve this problem.
- Front panel error.
- Main board is damaged.

2. Device often automatically shuts down or stops running.

There are following possibilities:

- Input voltage is not stable or it is too low.
- HDD malfunction or something wrong wit the ribbon.
- Button power is not enough.
- Front video signal is not stable.
- Working environment is too harsh, too much dust.
- Hardware malfunction.

3. System can not detect hard disk.

There are following possibilities:

- HDD is broken.
- HDD ribbon is damaged.
- HDD cable connection is loose.
- Main board SATA port is broken.

4. There is no video output whether it is one-channel, multiple-channel or all-channel output.

There are following possibilities:

- Program is not compatible. Please upgrade to the latest version.
- Brightness is 0. Please restore factory default setup.
- There is no video input signal or it is too weak.
- Check privacy mask setup or your screen saver.
- Device hardware malfunctions.

5. Real-time video color is distorted.

There are following possibilities:

- When using BNC output, NTSC and PAL setup is not correct. The real-time video becomes black and white.
- Device and monitor resistance is not compatible.
- Video transmission is too long or degrading is too huge.

• Device color or brightness setup is not correct.

6. Can not search local records.

There are following possibilities:

- HDD ribbon is damaged.
- HDD is broken.
- Upgraded program is not compatible.
- The recorded file has been overwritten.
- Record function has been disabled.

7. Video is distorted when searching local records.

There are following possibilities:

- Video quality setup is too low.
- Program read error, bit data is too small. There is mosaic in the full screen. Please restart the device to solve this problem.
- HDD data ribbon error.
- HDD malfunction.
- Device hardware malfunctions.

8. There is no audio when monitor.

There are following possibilities:

- It is not a power picker.
- It is not a power acoustics.
- Audio cable is damaged.
- Device hardware malfunctions.

9. There is audio when monitor but there is no audio when system playback.

There are following possibilities:

- Setup is not correct. Please enable audio function
- Corresponding channel has no video input. Playback is not continuous when the screen is blue.

10. Time display is not correct.

There are following possibilities:

- Setup is not correct
- Battery contact is not correct or voltage is too low.
- Crystal is broken.

11. Device can not control PTZ.

There are following possibilities:

- Front panel PTZ error
- PTZ decoder setup, connection or installation is not correct.
- Cable connection is not correct.
- PTZ setup is not correct.
- PTZ decoder and device protocol is not compatible.

- PTZ decoder and device address is not compatible.
- When there are several decoders, please add 120 Ohm between the PTZ decoder A/B cables furthest end to delete the reverberation or impedance matching. Otherwise the PTZ control is not stable.
- The distance is too far.

12. Motion detection function does not work.

There are following possibilities:

- Period setup is not correct.
- Motion detection zone setup is not correct.
- Sensitivity is too low.
- For some versions, there is hardware limit.

13. Can not log in client-end or web.

There are following possibilities:

- For Windows 98 or Windows ME user, please update your system to Windows 2000 sp4. Or you can install client-end software of lower version. Please note right now, our device is not compatible with Windows VISTA control.
- ActiveX control has been disabled.
- No dx8.1 or higher. Please upgrade display card driver.
- Network connection error.
- Network setup error.
- Password or user name is invalid.
- Client-end is not compatible with device program.

14. There is only mosaic no video when preview or playback video file remotely.

There are following possibilities:

- Network fluency is not good.
- Client-end resources are limit.
- There is multiple-cast group setup in device. This mode can result in mosaic. Usually we do not recommend this mode.
- There is privacy mask or channel protection setup.
- Current user has no right to monitor.
- Device local video output quality is not good.

15. Network connection is not stable.

There are following possibilities:

- Network is not stable.
- IP address conflict.
- MAC address conflict.
- PC or device network card is not good.

16. Burn error /USB back error.

There are following possibilities:

• Burner and device are in the same data cable.

- System uses too much CPU resources. Please stop record first and then begin backup.
- Data amount exceeds backup device capacity. It may result in burner error.
- Backup device is not compatible.
- Backup device is damaged.

17. Keyboard can not control device.

There are following possibilities:

- Device serial port setup is not correct
- Address is not correct
- When there are several switchers, power supply is not enough.
- Transmission distance is too far.

18. Alarm signal can not been disarmed.

There are following possibilities:

- Alarm setup is not correct.
- Alarm output has been open manually.
- Input device error or connection is not correct.
- Some program versions may have this problem. Please upgrade your system.

19. Alarm function is null.

There are following possibilities:

- Alarm setup is not correct.
- Alarm cable connection is not correct.
- Alarm input signal is not correct.
- There are two loops connect to one alarm device.

20. Remote control does not work.

There are following possibilities:

- Remote control address is not correct.
- Distance is too far or control angle is too small.
- Remote control battery power is low.
- Remote control is damaged or device front panel is damaged.

21. Record storage period is not enough.

There are following possibilities:

- Camera quality is too low. Lens is dirty. Camera is installed against the light. Camera aperture setup is not correct.
- HDD capacity is not enough.
- HDD is damaged.

22. Can not playback the downloaded file.

There are following possibilities:

- There is no media player.
- No DXB8.1 or higher graphic acceleration software.

- There is no DivX503Bundle.exe control when you play the file transformed to AVI via media player.
- No DivX503Bundle.exe or ffdshow-2004 1012 .exe in Windows XP OS.

23. I forgot local menu operation password or network password

Please contact your local service engineer or our sales engineer for help. We can guide you to solve this problem.

24. There is no video. The screen is in black.

There are following possibilities:

- IPC IP address is not right.
- IPC port number is not right.
- IPC account (user name/password) is not right.

25. The displayed video is not complete.

Please cheek current resolution setup. If the current setup is 1920*1080, then you need to set the monitor resolution as 1920*1080.

26. There is no HDMI output.

There are following possibilities:

- Displayer is not in HDMI mode.
- HDMI cable connection is not right.

27. The video is not fluent when I view in multiple-channel mode from the client-end.

There are following possibilities:

- The network bandwidth is not sufficient. The multiple-channel monitor operation needs at least 100M or higher.
- Your PC resources are not sufficient. For 16-ch remote monitor operation, the PC shall have the following environment: Quad Core, 2G or higher memory, independent displayer, display card memory 256M or higher.

Daily Maintenance

- Please use the brush to clean the board, socket connector and the chassis regularly.
- The device shall be soundly earthed in case there is audio/video disturbance. Keep the device away from the static voltage or induced _voltage.
- Please unplug the power cable when you remove the audio/video signal cable, RS232 or RS485 cable.
- Always shut down the device properly. Please press the power button in the front pane for at least three seconds to shut down the device. Otherwise it may result in HDD malfunction.
- Please make sure the device is away from the direct sunlight or other heating sources. Please keep the sound ventilation.
- Please check and maintain the device regularly.

10 Appendix A HDD Capacity Calculation

Calculate total capacity needed by each device according to video recording (video recording type and video file storage time).

Step 1: According to Formula (1) to calculate storage capacity q_i that is the capacity of each channel needed for each hour, unit Mbyte.

$$q_i = d_i \div 8 \times 3600 \div 1024 \tag{1}$$

In the formula: d_i means the bit rate, unit Kbit/s

Step 2: After video time requirement is confirmed, according to Formula (2) to calculate the storage capacity m_i , which is storage of each channel needed unit Mbyte.

$$m_i = q_i \times h_i \times D_i \tag{2}$$

In the formula:

 h_i means the recording time for each day (hour)

 D_i means number of days for which the video shall be kept

Step 3: According to Formula (3) to calculate total capacity (accumulation) q_T that is needed for all channels in the device during **scheduled video recording**.

$$q_T = \sum_{i=1}^c m_i \tag{3}$$

In the formula: c means total number of channels in one device

Step 4: According to Formula (4) to calculate total capacity (accumulation) q_T that is needed for all channels in device during **alarm video recording (including motion detection)**.

$$q_T = \sum_{i=1}^{c} m_i \times a\%$$
(4)

In the formula: a% means alarm occurrence rate

11 Appendix B Compatible SATA HDD

Manufacturer	Series	Model	Capacity	Port Mode
Seagate	Barracuda.10	ST3750640AS	750G	SATA
Seagate	Barracuda.10	ST3500630AS	500G	SATA
Seagate	Barracuda.10	ST3400620AS	400G	SATA
Seagate	Barracuda.10	ST3320620AS	320G	SATA
Seagate	Barracuda.10	ST3250620AS	250G	SATA
Seagate	Barracuda.10	ST3250820AS	250G	SATA
Seagate	Barracuda.10	ST3160815AS	160G	SATA
Seagate	Barracuda.10	ST380815AS	80G	SATA
Seagate	Barracuda.9	ST3160811AS	160G	SATA
Seagate	Barracuda.9	ST3120811AS	120G	SATA
Seagate	Barracuda.9	ST380811AS	80G	SATA
Seagate	Barracuda.9	ST380211AS	80G	SATA
Seagate	Barracuda.11	ST3750330AS	750G	SATA
Seagate	Barracuda.11	ST3500320AS	500G	SATA
Maxtor	DiamondMax 20	STM3320820AS	320G	SATA
Maxtor	DiamondMax 20	STM3250820AS	250G	SATA
Maxtor	DiamondMax 21	STM3160211AS	160G	SATA
Maxtor	DiamondMax 21	STM380211AS	80G	SATA
Maxtor	DiamondMax 21	STM340211AS	40G	SATA
Westem Digital	Cariar SE	WD3200JD	320G	SATA
Westem Digital	Cariar SE	WD3000JD	300G	SATA
Westem Digital	Cariar SE	WD2500JS	250G	SATA
Westem Digital	Cariar SE	WD2000JD	200G	SATA
Westem Digital	Cariar SE	WD1600JD	160G	SATA
Westem Digital	Cariar SE	WD1600JS	160G	SATA
Westem Digital	Cariar SE	WD1200JS	120G	SATA
Westem Digital	Cariar SE	WD800JD	80G	SATA
Westem Digital	Cariar	WD1600AABS	160G	SATA

Westem Digital	Cariar	WD800BD	80G	SATA
Westem Digital	Cariar SE16	WD7500KS	750G	SATA
Westem Digital	Cariar SE16	WD5000KS	500G	SATA
Westem Digital	Cariar SE16	WD4000KD	400G	SATA
Westem Digital	Cariar SE16	WD3200KS	320G	SATA
Westem Digital	Cariar SE16	WD2500KS	250G	SATA

Manufacturer	Model	Capacity
Sandisk	Cruzer Micro	512M
Sandisk	Cruzer Micro	1G
Sandisk	Cruzer Micro	2G
Sandisk	Cruzer Freedom	256M
Sandisk	Cruzer Freedom	512M
Sandisk	Cruzer Fredom	1G
Sandisk	Cruzer Freedom	2G
Kingston	Data Traveler II	1G
Kingston	Data Traveler II	2G
Kingston	Data Traveler	1G
Kingston	Data Traveler	2G
Maxell	USB Flash Stick	128M
Maxell	USB Flash Stick	256M
Maxell	USB Flash Stick	512M
Maxell	USB Flash Stick	1G
Maxell	USB Flash Stick	2G
Kingax	Super Stick	128M
Kingax	Super Stick	256M
Kingax	Super Stick	512M
Kingax	Super Stick	1G
Kingax	Super Stick	2G
Netac	U210	128M
Netac	U210	256M
Netac	U210	512M
Netac	U210	1G
Netac	U210	2G
Teclast	Ti Cool	128M
Teclast	Ti Cool	256M
j	4	1

12 Appendix C Compatible USB List

Teclast	Ti Cool	512M
Teclast	Ti Cool	1G
Teclast	Ti Cool	2G

Brand Model Dimension (Unit: inch) BENQ (LCD) ET-0007-TA 19-inch (wide screen) DELL (LCD) E178FPc 17-inch BENQ (LCD) Q7T4 17-inch BENQ (LCD) Q7T3 17-inch LENOVO (LCD) LXB-L17C 17-inch 22-inch (wide screen) SANGSUNG (LCD) 225BW 17-inch LENOVO(CRT) LXB-FD17069HB LENOVO(CRT) LXB-HF769A 17-inch LENOVO(CRT) LX-GJ556D 17-inch Samsung (LCD) 2494HS 24-inch Samsung (LCD) P2350 23-inch Samsung (LCD) P2250 22-inch Samsung (LCD) P2370G 23-inch 2043 Samsung (LCD) 20-inch Samsung (LCD) 2243EW 22-inch $\mathsf{LG}\ (\mathsf{LCD})$ W1942SP 19-inch LG (LCD) W2243S 22-inch LG (LCD) W2343T 23-inch BENQ (LCD) G900HD 18.5-inch BENQ (LCD) G2220HD 22-inch PHILIPS (LCD) 230E 23-inch PHILIPS (LCD) 220CW9 23-inch PHILIPS (LCD) 220BW9 24-inch PHILIPS (LCD) 220EW9 25-inch

13 Appendix D Compatible Displayer List

14 Appendix E No-IP DDNS

Please double click DDNS to go to the configuration interface. You can see an interface is shown

as in Figure 14-1.

8	DDNS
DDNS Type	NO-IP DDNS 🔻 🗌 Enable
Server IP	
Port	0
Domain Name	
User Name	
Password	
	OK Cancel



- DDNS Type: You can select from the dropdown list. There are five options: No-IP, DynDNS, CN99, Private and Oray.
- Server IP: You can use ping command to get server's IP
- Port: input server port here.
- Domain Name: Get the domain name you get from your DDNS service provider.
- User: Get the user name you get from your DDNS service provider.
- Password: Enter corresponding password.

Highlight the icon 🧾 in front of Enable to enable the DDNS server configuration.

It's a system of dynamic DNS service. If you do not have a Static IP address on the Internet, you need to have a dynamic IP. It is to say your IP address changes after a certain period of time.

You can follow the steps listed below to display image on your device even your IP is dynamic.

You need to use a DDNS service and create a domain name that is not necessarily direct use the IP address.

After completed configuration in the device DDNS service can constantly inform the latest

device's connection IP, and modify its IP on the table of data from the server. Then we have a constant domain name in the Web browser, along with the HTTP port, send a request to identify the car IP of the domain name typed. The server will direct the domain name to the IP connection, thus allowing access to the device which does not have a fixed IP in the network.

Note: It is important to note that to gain access to the device in a local network, it is necessary to achieve the redirect the port of your modem or router to your device.

To receive domain name in the No-IP DDNS service, please follow the steps listed below.

1. Please visit <u>www.no-ip.com</u>; the page of No-IP appears as below. See Figure 14-2.



Figure 14-2

2. Left click mouse on the "Create Account" button, account Information interface is shown as in Figure 14-3.

no ip			🙆 Home 🛛 Co	ontact Us 🛛 🗃 Login
The DNS Service Provider	Home Dow	nload Service	s Support	Company
No-IP is Free, Sign up No	w!			
Home III: Free StanUp				
Create Your No-IP Account				
If you already have an account then you can (sign in here)				
Sound Account Information:				
Email:				
Password:	1			
Confirm Password:				
About You:				
First Name:	[
Last Name:	1			
How did you hear about us?:	- Select One -	-		
Zip/Postal Code:				

Figure 14-3

3. Fill in the requested fields and click I Accept button. Then you can get an email containing username and password. You can use this account to access the service.

4. Open the e-mail sent by trusted rmação No-IP and double-click the link that is below the

phrase "To activate your account please click the following URL:" in the body of the email.

See Figure 14-4.

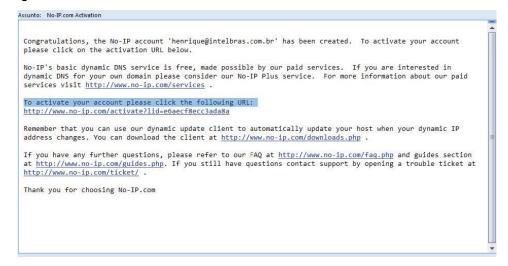


Figure 14-4

5. Now you can see an interface is shown as in Figure 14-5. You have successfully created an account.





6. In Figure 14-5, click to sign and enter the email address and password you get earlier. Click "login" to sign up, you can see the welcome interface and configuration option of account. See Figure 14-6. You can highlight manage host item.



Figure 14-6

7. The Manage Hosts interface is shown as in Figure 14-7. Click the Add Host button you can access the creation of a domain name.



Figure 14-7

8. In Figure 14-8, input corresponding host name in the filed. You can use this name to access device from an external network. In the field to the right of the name, select the desired area. This is your domain name for access to the device. Click "Create Host" button at the bottom of the page.

			Return to No-IP.com		Your No-IP Account Support Log Out		
(II)no	o p		ſ	ogged in	as:		
The DNS Ser	vice Provider						
Hosts/Redirects	lus Managed DNS Domain R	legistration	SSL Certificates	Mail	Monitoring	Squared Backup DNS	Renew/Activate
Hosts/Redirects	Add a	hast					
+ Add Host	Add a	nost					
 Manage Hosts 	Fill out the following field	de to configure	vour bost áfler vou	are done	dick Create Ho	et to add your bost	
+ Manage Groups	The out are renowing new	sa to conligure	s your most miler you		circa oreaterne	at to add your noac	
Download Client	🔹 Own a domain nan	ne?					
+ Upgrade to Enhanced	Use your own domain	name with ou	ir DNS system. Add y	our doma	ain name now o	r read more for pricing and	features.
Need redundancy		245					
for your mail serve		on					
Click here for more info	Hostname:	-			no-ip biz		• 0
24/7 Server Monitor	Host Type:	DNS H	ost (A) ONS Ho:	st (Round	d Robin) 🔘 D	NS Alias (CNAME)	0
and Failover	ing	Port 80	Redirect 🔘 Web F	Redirect			
Click here for more info	IP Address:	-					
			-				
Seed Help?	Assign to Group:	- No Group -			 Configu 	ire Groups	0
+ Support Center	Enable Wildcard:	Wildcards a	are a Plus / Enhanced	d feature.	Upgrade Now!		0
 Basic Troubleshooti Guide 	ng						
Support Ticket	Accept Mail for you	ur Domain					
+ Contact Us	Let No-IP do the dirty v		OP or forwarding for y	ournam	в.		
	Mail Options	_			_		
	MX Record			MX F	riority		
	Enter the name of yo	ur external ma	il exchangers (mx re		1000 100	t IP addresses.	
				5	•		0
		10000					
	If you would like a mo	ore MX records	s, please upgrade to	NO-IP Pli	is or Enhanced		
						Revert	Create Host

Figure 14-8

9. Now you can see an interface is shown as in Figure 14-9. Here you can view domain name and the computer's current IP setup. If you already have a domain name equal to gurado trusted, you must define another name for the host.



Figure 14-9

10. Now you need to define the definition of the server's IP in IP-device able to access this service DDNS. To get DDNS service, you need to have a computer connected to the Internet on the same network with device. Then please type the command dynupdate. no ping-ip.com at the command prompt, Windows ®. The server's IP will be displayed on the screen. See Figure 14-10. Your device can use this IP to find the No-IP server.

C:\>ping dynupdate.no-ip.com	
Disparando dynupdate.no-ip.com [204.16.252.79] com 32 bytes de	dados:
Resposta de 204.16.252.79: bytes=32 tempo=309ms TTL=235 Resposta de 204.16.252.79: bytes=32 tempo=318ms TTL=235 Resposta de 204.16.252.79: bytes=32 tempo=304ms TTL=235 Resposta de 204.16.252.79: bytes=32 tempo=329ms TTL=235	
Estatísticas do Ping para 204.16.252.79: Pacotes: Enviados = 4, Recebidos = 4, Perdidos = 0 (0% de perda),	
Aproximar um número redondo de vezes em milissegundos: Mínimo = 304ms, Máximo = 329ms, Média = 315ms	
C:\>_	

Figure 14-10

- 11. Please go to the device and access the MAIN MENU> SETTING> NETWORK> DDNS. Input server IP you get in the above step. Select the DDNS Type as No-IP DDNS and highlight the icon in front of Enable to enable the DDNS function. Now fill the fields as described below, and click OK to save current setup.
 - Server IP: Enter the IP noted in step 10.
 - Port: Enter the port 80.
 - Domain Name: Enter the domain name created in step 8.

- User: Enter your username (email address) created in step 3.
- Password: Enter the password created in step 3.

The figure Configuration file of No-IP is shown as in Figure 14-11.

	DDNS						
DDNS Type	NO-IP DDNS 🔻 🔲 Enable						
Server IP	204.16.252.79						
Port	80						
Domain Name	dhdvr.no-ip.com						
User Name	username						
Password	•••••						
· · · · · · · · · · · · · · · · · · ·							
OK Cancel							



12. Now you have completed device setup. Open Internet Explorer ® in another foreign network with Internet access, unlike the network where the device is connected to, you need to follow the steps listed below:

1. Enter the address into your browser: http://nome the field created in step 8. For example:

http://vd16s480st.no-ip.biz

2. If the device HTTP port is 80, just type the domain name. Otherwise, enter in the browser address as: http://nome the field created in Step 8: port number of HTTP. For example:

http://vd16s480st.no-ip.biz:9090

3. Press Enter. The system will ask install application webrec.cab control or not. Please click Yes to perform a successful connection.

4. If the page does not appear on the computer screen, you need to lower your system safety setup. From Tools> Internet Options> Security, select Internet and then click Custom Level, you can enable ActiveX controls. See Figure 14-12. Then open your browser and re-enter the domain name of the device.

nterne	t Optio	ns				? 🛛		
General	Security	Privacy	Content	Connections	Programs	Advanced		
Select a zone to view or change security settings.								
	٢		6	3	~			
	Internet		Local i	ntranet	Trusteo	l sites ⊻		
<						>		
-	Interne	-			Site	1		
This zone is for Internet websites, except those listed in trusted and restricted zones.								
Secur	ity level fo	r this zon	e					
Allo	wed levels	for this z	one: Mediu	m to High				
Addium-high Appropriate for most websites Prompts before downloading potentially unsafe content Unsigned ActiveX controls will not be downloaded								
Custom level Default level								
			0		ancel	Apply		

	Disable	100
	Disable Enable	-
	ownload signed ActiveX controls (not secure)	
Č) Disable	
(Enable (not secure)	
	Prompt (recommended)	
	ownload unsigned ActiveX controls (not secure)	
	Disable (recommended)	
	P Enable (not secure) Prompt	
	Prompt nitialize and script ActiveX controls not marked as safe for	
· · · ·	Disable (recommended)	
	Enable (not secure)	
0	Prompt	
	un ActiveX controls and plug-ins	
<	0 dministrator approved	Ľ
*Takes eff	ect after you restart Internet Explorer	-
eset custo	m settings	
eset to:	Medium-high (default)	

Figure 14-12

Component	Toxic or Hazardous Materials or Elements							
Name	Pb	Hg	Cd	Cr VI	PBB	PBDE		
Sheet Metal(Case)	0	0	0	0	0	0		
Plastic Parts (Panel)	0	0	0	0	0	0		
Circuit Board	0	0	0	0	0	0		
Fastener	0	0	0	0	0	0		
Wire and Cable/Ac Adapter	0	0	0	0	0	0		
Packing Material	0	0	0	0	0	0		
Accessories	0	0	0	0	0	0		

Appendix H Toxic or Hazardous Materials or Elements

Note

O: Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T11363-2006 standard.

X: Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T11363-2006 standard. During the environmental-friendly use period (EFUP) period, the toxic or hazardous substance or elements contained in products will not leak or mutate so that the use of these (substances or elements) will not result in any severe environmental pollution, any bodily injury or damage to any assets. The consumer is not authorized to process such kind of substances or elements, please return to the corresponding local authorities to process according to your local government statutes.

Note

- This manual is for reference only. Slight difference may be found in the user interface.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website or contact your local service engineer for more information.