

4k NVR 16 Channel - User's Manual ELI-SIP2-NVR16 ELI-SIP2-NVR16POE





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Our Units Do Not Support PAL

Table of Contents

1 Features and Specifications	
1.1 Overview	
1.2 Features	1
1.3 Specifications	2
1.3.17 ELI-SIP2-NVR16	32
1.3.17 ELI-SIP2-NVR16POE	32
2 Front Panel and Rear Panel	
2.1 Front Panel	34
2.1.11 ELI-SIP2-NVR16	
2.1.11 ELI-SIP2-NVR16POE	46
2.2 Rear Panel	
2.2.21 ELI-SIP2-NVR16	
2.2.21 ELI-SIP2-NVR16POE	••••••

	2.3	Ala	arm Connection	81
	2.3.	1	Alarm Port	81
	2.3.	2	Alarm input port	82
	2.3.	3	Alarm input and output port	83
	2.3.	4	Alarm relay specifications	83
	2.4	Bic	directional talk	84
	2.4.	1	Device-end to PC-end	84
	2.4.	2	PC-end to the device-end	84
	2.5	Мс	buse Operation	85
3	Dev		Installation	
	3.1	Ch	neck Unpacked NVR	
	3.2		out Front Panel and Rear Panel	
	0.0			07
	3.3	HL	DD Installation	
	3.3.	9	ELI-SIP2-NVR16	94
			ELI-SIP2-NVR16POE	94

3.4	CD-ROM Installation	94
3.5	Connection Sample	
3.5.1	5.1 ELI-SIP2-NVR16	
	ELI-SIP2-NVR16POE	

4	Local Basic Operation114		
4.1 Boot up and Shutdown			
	4.1.1	1 Boot up	
	4.1.2	2 Shutdown	
	4.2	Startup Wizard	
	4.3	Navigation Bar	
	4.3.1	1 Main Menu	
	4.3.2	2 Dual-screen operation	
	4.3.3	3 Output Screen	
	4.3.4	4 Tour	
	4.3.5	5 PTZ	
	4.3.6	6 Color	
	4.3.7	7 Search	
	4.3.8	8 Alarm Status	
	4.3.9	9 Channel Info	
	4.3.1	10 Remote Device	
	4.3.1	11 Network	
	4.3.1	12 HDD Manager	
	4.3.1	13 USB Manager	
	4.4	Smart Add	
	4.5	Remote Device	
	4.5.1	1 Remote Device Connection	
	4.5.2	2 Short-Cut Menu	
	4.5.3	3 Image	
	4.5.4	4 Channel Name	
	4.5.5	5 Upgrade	
	4.5.6	6 UPNP	
	4.5.7	7 Built-in Switch Setup	
	4.6	Preview	
	4.6.1	1 Preview	
	4.6.2	2 Preview control interface	
	4.6.3	3 Right Click Menu	
	4.6.4	4 Preview Display Effect Setup	
	4.	.6.4.1 Video Color	
	4.	6.4.2 Display	

4.6.4.3	TV adjust	135
4.6.5 F	Preview Tour Parameters	135
4.7 PTZ		136
4.7.1 F	TZ Settings	136
4.7.2 F	PTZ Control	138
4.7.2.1	PTZ Function Setup	140
4.7.2.2	Call PTZ Function	142
4.8 Reco	rd and Snapshot	143
4.8.1 E	ncode	143
4.8.1.1	Encode	143
4.8.1.2	Overlay	144
4.8.1.3	Snapshot	145
4.8.2	Schedule	146
4.8.2.1	Schedule Record	146
4.8.2.2	Schedule Snapshot	149
4.8.3 N	Iotion detect record/snapshot	151
4.8.3.1	Motion detect record	151
4.8.3.2		
4.8.4 A	، Iarm Record/Snapshot	
4.8.4.1	Alarm Record	
4.8.4.2	Alarm Snapshot	
4.8.5 N	/anual Record/Snapshot	
4.8.5.1	Manual Record	
4.8.5.2	Manual Snapshot	
	loliday Record/Snapshot	
4.8.6.1	Holiday Record	
4.8.6.2	-	
	Other Record/Snapshot	
	back and Search	
-	Real-time Playback	
	Search Interface	
4.9.2.1	Smart Search	
4.9.2.2		
4.9.2.3	Mark Playback	
	Picture Playback	
	up	
	ile Backup	
	nport/Export	
	Backup Log	
	ISB Device Auto Pop-up	
	азв Бейсе Ацю Рор-цр 1	
	Detect Alarm	
4.11.1 L		
4.11.1.		
4.11.1.		
4.11.2 F	.larm output	

4.11.3	Alarm Setup	177
4.11.4	Abnormality	
4.12 Ne	twork	
4.12.	1.1 TCP/IP	184
4.12.	1.2 Connection	
4.12.	1.3 WIFI AP	
4.12.	1.4 WIFI	
4.12.	1.5 3G	
4.12.	1.6 PPPoE	190
4.12.	1.7 DDNS Setup	
4.12.1	1.8 UPnP	
4.12.		
4.12.		
4.12.		
4.12.		
4.12.		
4.12.		
4.12.		
4.12.	5	
4.12.		
4.12.		
	Network Test	
4.12.2		
4.12.2		
	DD Setup	
4.13.1	Format	
4.13.2	HDD Information	
4.13.3	Advanced	
4.13.4	HDD Detect	
4.13.4		
4.13.4		
-	RAID Manager	
4.13.5	-	
4.13.		
	sic Setups	
	Device Setup Data and Time	
4.14.2	Holiday	
	-	
	vice Maintenance and Manager	
4.15.1 4.15.1	,	
4.15. 4.15.		
4.1.	5.1.5.1 Device Status	

4.15.1.5.2 Firmware	
4.15.2 Log	
4.15.3 Voice	
4.15.3.1.1 File Manage	
4.15.3.1.2 Schedule	
4.15.4 Account	
4.15.4.1 Add/Modify Group	
4.15.4.2 Add/Modify User	
4.15.5 Update	
4.15.6 Default	
4.15.7 RS232	
4.15.8 Auto Maintain	
4.15.9 Logout /Shutdown/Restart	
5 Web Operation	
5.1 General Introduction	234
5.1.1 Preparation	234
5.1.2 Log in	
5.2 LAN Mode	236
5.3 Real-time Monitor	
5.4 PTZ	239
5.5 Image/Alarm-out	
5.5.1 Image	
5.5.2 Alarm output	
5.6 Zero-channel Encode	
5.7 WAN Login	
5.8 Setup	
5.8.1 Camera	
5.8.1.1 Remote Device	
5.8.1.2 Image	
5.8.1.3 Encode	
5.8.1.3.1 Encode	
5.8.1.3.2 Snapshot	
5.8.1.3.3 Video Overlay	
5.8.1.3.4 Path	
5.8.1.4 Channel Name	
5.8.1.5 IPC Upgrade	
5.8.2 Network	252
5.8.2.1 TCP/IP	
5.8.2.2 P2P	
5.8.2.3 Connection	
5.8.2.4 WIFI AP	
5.8.2.5 WIFI	255
5.8.2.6 3G	256
5.8.2.6.1 CDMA/GPRS	256
5.8.2.6.2 Mobile	
5.8.2.7 PPPoE	

5.8.2.8	DDNS	258
5.8.2.9	IP filter	259
5.8.2.10	Email	
5.8.2.11	UPnP	
5.8.2.12	SNMP	
5.8.2.13	Multicast	
5.8.2.14	Auto Register	
5.8.2.15	Alarm Centre	
5.8.2.16	HTTPS	
5.8.2.16.	1 Create Server Certificate	
5.8.2.16.2	2 Download root certificate	
5.8.2.16.	3 View and set HTTPS port	
5.8.2.16.4	4 Login	
5.8.3 Ever	nt	
5.8.3.1	Video detect	
5.8.3.1.1	Motion Detect	
5.8.3.1.2	Video Loss	
5.8.3.1.3	Tampering	
5.8.3.2	Alarm	
5.8.3.2.1	Local Alarm	
5.8.3.2.2	Net Alarm	277
5.8.3.2.3	IPC external alarm	
5.8.3.2.4	IPC Offline Alarm	
5.8.3.3	Abnormality	
5.8.4 Stora	age	
5.8.4.1	Schedule	
5.8.4.2	HDD Manager	
5.8.4.2.1	Local Storage	
5.8.4.2.2	HDD	
5.8.4.2.3		
5.8.4.3	Record Control	
5.8.4.4	RAID Manager	
5.8.4.4.1	RAID Config	
5.8.4.4.2	Hotspare disks	
5.8.4.5	Storage	
5.8.4.5.1	Main Stream	
5.8.4.5.2	Sub Stream	
5.8.4.5.3	Snapshot	
5.8.5 Setti	ng	
5.8.5.1	General	
5.8.5.1.1	General	
5.8.5.1.2	Date and time	
5.8.5.1.3	Holiday Setup	
5.8.5.2	Account	
5.8.5.2.1	User name	
5.8.5.2.2	Group	

	5.8.5.3	Display	293
		Display	
	5.8.5.3.2		
	5.8.5.4	Alarm Out	
	5.8.5.5	Default	
	5.8.5.6	 Import/Export	
	5.8.5.7	Auto maintain	
	5.8.5.8	Upgrade	
	5.8.5.9	RS232	
	5.8.5.10	PTZ	
5.9		tion	
		sion	
	•	ne User	
		k	
	,	rch Record	
		List	
	-	/nload	
		d more	
	5.10.5.1	Download By File	
	5.10.5.2	Download by Time	
	5.10.5.3	Watermark	
5.1	1 Alarm		
5.1			
5.1	0	all Web Control	
	2		
		HDD Capacity Calculation	
		Compatible Network Camera List	

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.

The product must be grounded to reduce the risk of electric shock.

We assume no liability or responsibility for all the fires or electric 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 specified environments. Environment which needs to comply with the following conditions:

- The function of the ITE being investigated to IEC 60950-1 is considered not likely to require connection to an Ethernet network with outside plant routing, including campus environment.
- The installation instructions clearly state that the ITE is to be connected only to PoE networks without routing to the outside plant.

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! CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

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 *

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.

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.

1.2	Features	

Real-time Surveillance	 VGA, HDMI port. Connect to monitor to realize real-time surveillance. Some series support TV/VGA/HDMI output at the same time. Short-cut menu when preview. Support popular PTZ decoder control protocols. Support preset, tour and pattern.
Playback User	 Support each channel real-time record independently, and at the same time it can support search, forward play, network monitor, record search, download and etc. Support various playback modes: slow play, fast play, backward play and frame by frame play. Support time title overlay so that you can view event accurate occurred time Support specified zone enlargement. Each group has different management powers that can be edited freely.
Management	Every user belongs to an exclusive group.
Storage	 Via corresponding setup (such as alarm setup and schedule setup), you can backup related audio/video data in the network video recorder. Support Web record and record local video and storage the file in the client end.
Alarm	 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). 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/sms.

1.3 Specifications

ELI-SIP2-NVR16 ELI-SIP2-NVR16POE

Specifications		
Main Processor		Industrial embedded micro processor
	Operation System	Embedded LINUX system
System	System	Max 8-channel×1080P connection,
	Resources	
	User Interface	WEB, local GUI
	Audio Input	1-ch MIC bidirectional talk audio input
Audio	Audio Output	1-ch MIC bidirectional talk audio output
Parameters	Audio	G.711a, G.711u, PCM, G726
	Compression	
	Standard	
	Video Input	8/16-ch network compression video input
	Video Output	1-channel VGA
Video		2-channel HDMI.
Parameters	Video	
	Compression	H.264
	Standard	
	Window Split Mode	The 1st screen: 1/4/8/9/16-screen. The 2nd screen: 1/4-screen.
•	Alarm Input	16-channel
Alarm	-	
Parameters	Alarm Output	8-channel relay output
Decode	Decode Type	MPEG4, H.264, H.265
Parameters	Decode Capability	16-channel×D1;8-channel×720P, 4-channel 1080P;1-channel 4K
	Record Mode	Manual recording, motion detection recording, schedule
		recording and alarm recording.
		Priority: Manual recording>card number recording-> alarm
		recording>motion detection recording>schedule recording.
	Multi-Channel	Max support 64M(H265&H264 1:1) playback at the same
Functions	Playback	time.
	Motion Detect	Each screen supports 396/330((PAL 22×18, NTSC 22×15)
		detection zones. Various sensitivity levels.
	Privacy Mask	Each channel supports 4 privacy mask zones.
	Record Mode	Overwrite
	Backup Mode	Flash disk, eSATA, DVD burner.
	Network Protocol	IPv4/IPv6/HTTP/UPnP/NTP/SADP/SNMP/PPPoE/DNS/FTP/ON VIF/PSIA
	SATA Port	4 SATA Ports
Network	eSATA Port	1 eSATA port
Function	RS232 Port	1 RS232 port. To debug and transmit COM data.
	DO 405 Dant	1 RS485 port. To control peripheral PTZ and etc. Support
	RS485 Port	various protocols.

	USB Port	1 USB 2.0 port at the front panel and 2 USB3.0 ports at the rear panel.
	HDMI Port	2 HDMI ports
	Network Port	2 RJ45 10/100/1000Mbps self-adaptive Ethernetet ports+2 1000Mbps self-adaptive fiber ports
	Power Over Ethernet	16 Ports Only on ELI-SIP2-NVR16POE Series
	Indicator Light	 4 indicator lights. 1 system running status indicator light 1 HDD indicator light 1 network status indicator light 1 power status indicator light
	Power	AC100~240V
	Power	General series: <17W(No HDD),
	Consumption	PoE series: <26.5W (No HDD),
General Parameters	Working Temperature	0°C∼50°C
	Working Humidity	$10\% \sim 90\%$ (No condensation)
	Dimensions (W \times H \times D)	440×76×405mm
	Weight	General series:4.35 kg(No HDD),
		PoE series: 4.65kg (No HDD),
	Installation Mode	Rack/desktop

Front Panel and Rear Panel

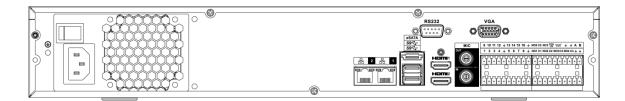
2.1 Front Panel

ELI-SIP2-NVR16

ELI-SIP2-NVR16POE

Power button O or shut down NVR. Shift Shift In textbox, click this button to switch between nume English(Small/Capitalized),donation and etc. Up/1 Activate current control, modify setup, and then move up a down. Activate current control, modify setup, and then move up a down. Up/1 Assistant function such as PTZ menu. Increase/decrease numeral. Assistant function such as PTZ menu. In text mode, input number 1/4 (English character G/H/I) Left/2 Right/3 In text mode, input number 2(English character A/B/C) /3(English character D/E/F) ESC ESC Go to previous menu, or cancel current operation. Enter ENTER Go to default button Go to menu Go to menu Go to menu Record REC Manually stop/start recording, working with direction keys or numeral keys to select the recording channel. Slow play/8 In Multiple slow play speeds or normal playback. In text mode, input number 8 (English character T/U/V). One-window monitor mode, click this button to disp assistant function: PTZ control and image color. Backspace function: NTZ control and image color. Assistant Fn In motion detection setup, working with Fn and direction keys	Name	lcon	Function
Shift English(Small/Capitalized),donation and etc. Up/1 Activate current control, modify setup, and then move up a down. Down/4 Increase/decrease numeral. Assistant function such as PTZ menu. Increase/decrease numeral. Left/2 Assistant function such as PTZ menu. Right/3 In text mode, input number 1/4 (English character G/H/I) Shift current activated control, When playback, click these buttons to control playback baln text mode, input number 2(English character A/B/C) /3(English character D/E/F) ESC ESC ESC ESC Enter ENTER Go to previous menu, or cancel current operation. Go to default button Go to default button Go to menu Record REC Manually stop/start recording, working with direction keys or numeral keys to select the recording channel. Slow play/8 In text mode, input number 8 (English character T/U/V). One-window monitor mode, click this button to disp assistant function: PTZ control and image color. Backspace function: PTZ control and image color. Backspace function: PTZ control and image color. Backspace function: In numeral control or text control, prit for 1.5seconds to delete the previous character before cursor.	Power button	С С	Power button, press this button for three seconds to boot up or shut down NVR.
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Record REC Manually stop/start recording, working with direction keys or numeral keys to select the recording channel. Slow play/8 Image: Multiple slow play speeds or normal playback. In text mode, input number 8 (English character T/U/V). One-window monitor mode, click this button to disp assistant function: PTZ control and image color. Backspace function: in numeral control or text control, provit for 1.5seconds to delete the previous character before cursor. Assistant Fn In motion detection setup, working with Fn and direction keys	Enter		Go to default button
Record REC or numeral keys to select the recording channel. Slow play/8 Multiple slow play speeds or normal playback. In text mode, input number 8 (English character T/U/V). One-window monitor mode, click this button to disp assistant function: PTZ control and image color. Backspace function: in numeral control or text control, pro- it for 1.5seconds to delete the previous character before cursor. Assistant Fn In motion detection setup, working with Fn and direction ket			Go to menu
Slow play/8 In text mode, input number 8 (English character T/U/V). In text mode, input number 8 (English character T/U/V). One-window monitor mode, click this button to disp assistant function: PTZ control and image color. Backspace function: In numeral control or text control, provit for 1.5seconds to delete the previous character before cursor. Assistant Fn In motion detection setup, working with Fn and direction keep	Record	REC	
Assistant Fn Assistant Fn Assistant Fn	Slow play/8	Þ	
AssistantFnIn motion detection setup, working with Fn and direction keep			One-window monitor mode, click this button to display assistant function: PTZ control and image color.
in motion detection setup, working with mand direction ke	Assistant	Fn	Backspace function: in numeral control or text control, press it for 1.5seconds to delete the previous character before the cursor.
to realize setup.			In motion detection setup, working with Fn and direction keys to realize setup.
			In text mode, click it to switch between numeral, English
Realize other special functions.			Realize other special functions.

Rear Panel ELI-SIP2-NVR16



ELI-SIP2-NVR16POE

O	0(
POEPORTS 1 3 5 7 9 11 13 15 2 4 6 8 10 12 14 16	
O	

Name		Function
	Power switch	Power on-off button
	Power input port	Input AC 100~240V.
	Network port	10M/100M/1000Mbps self-adaptive Ethernet port. Connect to the network cable.
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.
	USB3.0 port	USB3.0 port. Connect to mouse, USB storage device, USB burner and etc.
НДМІ	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. HDMI version is 1.4b.
MIC IN	Audio input port	Bidirectional talk input port. It is to receive the analog audio signal output from the devices such as microphone, 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. Bidirectional talk output. Audio output on 1-window video monitor. Audio output on 1-window video playback.

1~16	Alarm input port 1~16	 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 NVR have the same ground.
÷	Ground	Alarm input ground end.
NO1~NO5	Alarm output port $1{\sim}5$	 5 groups of alarm output ports. (Group 1: port NO1~C1,Group 2:port NO2~C2,Group 3:port
NC5		 NO3~C3, Group 4: port 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. NO: Normal open alarm output port. C: Alarm output public end.
		 NC: Normal close alarm output port.
A B	RS-485 communication port	RS485_A port. It is the cable A. You can connect to the control devices such as speed dome PTZ. RS485_B.It is the cable B. You can connect to the
CTRL 12V	/	control devices such as speed dome PTZ. 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	1	+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.
RS-232	RS232 debug COM.	It is for general COM debug to configure IP address or transfer transparent COM data.
VGA	VGA video output port	VGA video output port. Output analog video signal. It can connect to the monitor to view analog video.

Name		Function	
MIC OUT	Audio output port	 Audio output port. It is to output the analog audio signal to the devices such as the sound box. Bidirectional talk output. Audio output on 1-window video monitor. Audio output on 1-window video playback. 	
VIEDEO OUT	Video output port	CVBS output.	
1~16	Alarm input port 1∼16	 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 NVR have the same ground.	
Ŧ	GND	Alarm input ground port.	
NO1~NO5	Alarm output port 1~5	• 5 groups of alarm output ports. (Group 1: port	
C1~C5		NO1~C1,Group 2:port NO2~C2,Group 3:port NO3~C3, Group 4: port NO4~C4, Group 5:	
NC5		 port NO5, C5, NC5).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. NC: Normal close alarm output port. 	
A	RS-485 communication	RS485_A port. It is the cable A. You can connect to the control devices such as speed dome PTZ.	
В	port	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	1	+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	One 10M/100M/1000Mbps self-adaptive Ethernet port. Connect to the network cable.	
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.	

Name		Function
•	USB2.0 port	USB2.0 port. Connect to mouse, USB storage device, USB burner and etc.
RS-232	RS-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. HDMI version is 1.3
VGA	VGA video output port	VGA video output port. Output analog video signal. It can connect to the monitor to view analog video.
PoE PORTS	16 PoE ports	Built-in Switch. Support PoE. The 16 PoE ports series products supports total 150W power. One PoE port max supports 15W.

2.3 Alarm Connection

2.3.1 Alarm Port

The alarm port is shown as below. See Figure 2-48. The following figure is based on the 78 series.

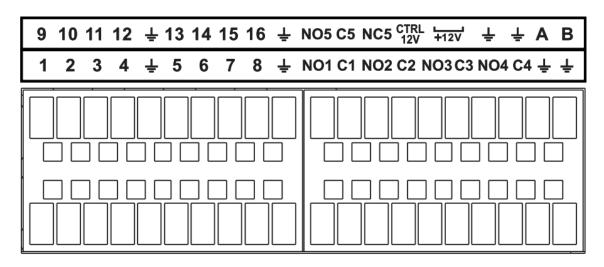


Figure 2-48

Icon	Function
1~16	ALARM1 \sim ALARM16. The alarm becomes activated in the
	low level.
NO1 C1, NO2 C2, NO3 C3, NO4	Four NO activation output groups. (On-off button).
C4	
NO5 C5 NC5	One NO/NC activation output group. (On-off button).
CTRL 12V	Control power output. Disable power output when alarm is
	canceled. Current is 500mA.
+12V	Rated current output. Current is 500mA.
	GND
A/B	485 communication port. They are used to control devices
	such as PTZ. Please parallel connect $120T\Omega$ between A/B
	cables if there are too many PTZ decoders.

Note

- Different models support different alarm input ports. Please refer to the specifications sheet for detailed information.
- Slight difference may be found on the alarm port layout.

2.3.2 Alarm input port

Connect the positive end (+) of the alarm input device to the alarm input port (ALARM IN 1~16) of the

NVR. Connect the negative end (-) of the alarm input device to the ground end (=) of the NVR.

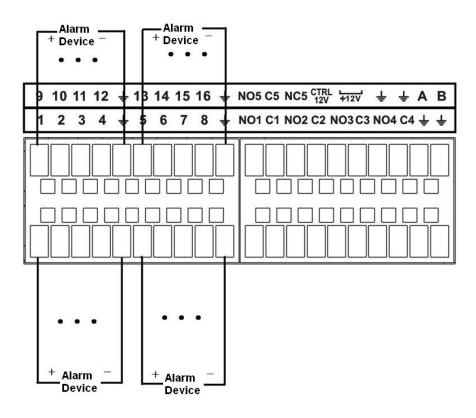


Figure 2-49

Note

- There are two alarm input types: NO/NC.
- When connect the ground port of the alarm device to the NVR, you can use any of the GND ports

(**≟**).

- Connect the NC port of the alarm device to the alarm input port (ALARM) of the NVR.
- When there is peripheral power supplying for the alarm device, please make sure it is earthed with the NVR.

2.3.3 Alarm input and output port

- There is peripheral power supplying for the external alarm device.
- In case overload may result in NVR damage, please refer to the following relay specifications for detailed information.
- A/B cable of the RS485 is for the A/B cable connection of the speed PTZ.

2.3.4 Alarm relay specifications

Model:	JRC-27F	
Material of the	Silver	
touch		
Rating	Rated switch capacity	30VDC 2A, 125VAC 1A
Resistance	Maximum switch power	125VA 160W
Load)	Maximum switch voltage	250VAC, 220VDC
	Maximum switch currency	1A
Insulation	Between touches with same	1000VAC 1minute
	polarity	1000VAC IIIIIIdle

	Between touches with different polarity	1000VAC 1minute
	Between touch and winding	1000VAC 1minute
Surge voltage	Between touches with same polarity	1500V (10×160us)
Length of open	3ms max	
time		
Length of close	3ms max	
time		
Longevity	Mechanical	50×106 MIN (3Hz)
	Electrical	200×103 MIN (0.5Hz)
Temperature	-40℃ ~+70℃	

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. See Figure 2-50.

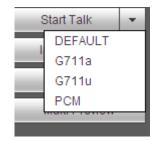
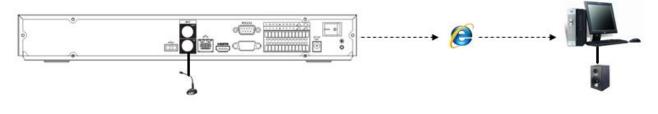


Figure 2-50

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. See Figure 2-51.





2.4.2 PC-end to the device-end

Device Connection

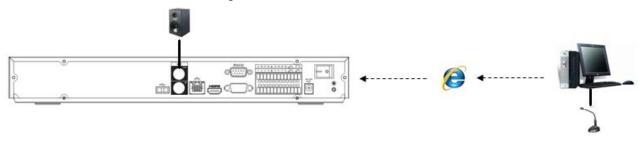
Connect the speaker or the pickup to the audio output port in the PC and then connect the earphone or the sound box to the first audio input port in the device rear panel.

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

Please refer to the above interface (Figure 2-50) 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. See Figure 2-52.





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 content.			
mouse	Modify checkbox or motion detection status.			
	Click combo box to pop up dropdown list			
	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 ← stands for			
	deleting the previous character.			
	! ? @ # \$ % = + * ← 1 2 3			
	qwertyuiop/456			
	asdfghjkl:Enter 789			
	zxcvbnm,.Shift u0&			
	!?@#\$%=+ *- ← 123			
	QWERTYUIOP/ 456			
	ASDFGHJKL: Enter 789			
	ZXCVBNM, Shift L0&			
	In numeral input mode: _ stands for clear and \leftarrow stands for deleting the			
	previous numeral.			
Double left	Implement special control operation such as double click one item in the file list			
click mouse	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 middle	In numeral input box: Increase or decrease numeral value.				
button	Switch the items in the check box.				
	Page up or page down				
Move mouse	Select current control or move control				
Drag mouse	Select motion detection zone				
	Select privacy mask zone.				

3 Device Installation

Note: All the installation and operations here should conform to your local electric safety rules.

3.1 Check Unpacked NVR

When you receive the NVR from the forwarding agent, please check whether there is any visible damage. The protective materials used for the package of the NVR can protect most accidental clashes during transportation. Then you can open the box to check the accessories.

Please check the items in accordance with the list. Finally you can remove the protective film of the NVR.

3.2 About Front Panel and Rear Panel

The model number in the stick on the bottom of NVR is very important; please check according to your purchase order.

The label in the rear panel is very important too. Usually we need you to represent the serial number when we provide the service after sales.

3.3 HDD Installation

Important:

Please turn off the power before you replace the HDD.

The pictures listed below for reference only.

For the first time install, please be aware that whether the HDDs have been installed. You can refer to the Appendix for HDD space information and 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.

Please make sure the metal surface of the HDD is facing up when you are installing! This series NVR has only one 2.5-inch SATA HDD. Please follow the instructions below to install HDD.



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



② 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



③Connect 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.



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

3.4 CD-Burner Installation Please follow the



HDD bracket



① Open top cover and then remove the ② Take off the bottom of the HDD bracket and CD-ROM bracket.



③ Fix the CD-ROM bracket at the HDD bracket.



⑤ Install SATA burner. Line up the SATA burner to the hole positions.



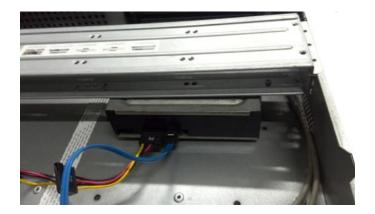
⑦ Put the bracket back. Please adjust the CD-ROM to the proper position so that the button of the front panel is directly facing the pop-up button of the CD-ROM.



④ Install a pair of the CD-ROM bracket. Please make sure the reverse side is secure too.



6 User screwdriver to fix the screws.



8 Connect the SATA cable and power wire.



(9) Secure the HDD bracket and put the top cover back.

3.5 Connection Sample

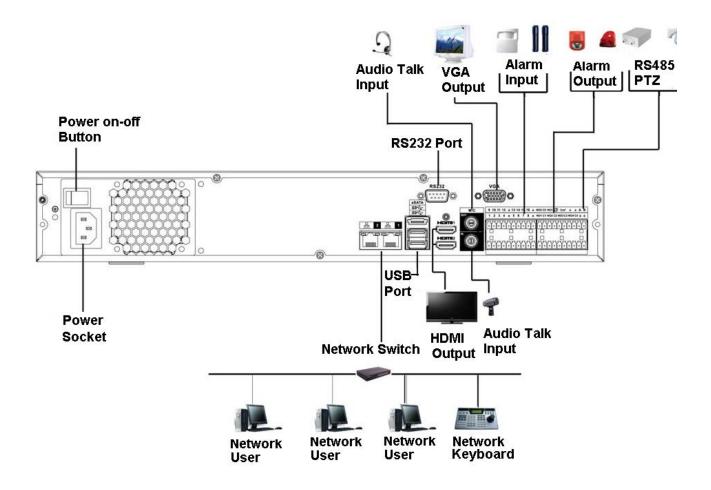


Figure 3-1

4 Local Basic Operation

4.1 Boot up and Shutdown

4.1.1 Boot up



Before the boot up, please make sure:

- For device security, please connect the NVR to the power adapter first and then connect the device to the power socket.
- The rated input voltage matches the device power on-off button. Please make sure the power wire connection is OK. Then click the power on-off button.
- Always use the stable current, if necessary UPS is a best alternative measure.

Please follow the steps listed below to boot up the device.

- Connect the device to the monitor and then connect a mouse.
- Connect power cable.
- Click the power button at the front or rear panel and then boot up the device. After device booted up, the system is in multiple-channel display mode by default.

4.1.2 Shutdown

Note

- When you see corresponding dialogue box "System is shutting down..." Do not click power on-off button directly.
- Do not unplug the power cable or click power on-off button to shutdown device directly when device is running (especially when it is recording.)

There are three ways for you to log out.

a) Main menu (**RECOMMENDED**)

From Main Menu->Shutdown, select shutdown from dropdown list.

Click OK button, you can see device shuts down.

b) From power on-off button on the front panel or remote control

Press the power on-off button on the NVR front panel or remote control for more than 3 seconds to shutdown the device.

c) From power on-off button on the rear panel.

4.2 Startup Wizard

After device successfully booted up, it goes to startup wizard.

Click Cancel/Next button, you can see system goes to login interface.

Tips

Check the box Startup button here, system goes to startup wizard again when it boots up the next time. Cancel the Startup button, system goes to the login interface directly when it boots up the next time.

Startup Wizard	
Startup Wizard The startup wizard includes G Network,Remote Device,Reco	
Startup	
Smart Add Next	Cancel

Figure 4-1

Click Smart add, Cancel button or Next button, system goes to login interface. See Figure 4-2. System consists of four accounts:

- Username: admin. Password: admin. (administrator, local and network)
- Username: 888888. Password: 888888. (administrator, local only)
- **Username**: 6666666. **Password**: 666666(Lower authority user who can only monitor, playback, backup and etc.)
- **Username**: default. **Password**: default (hidden user). 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.

SYSTEM LOGIN
User Name 888888 Password
OK Cancel

Figure 4-2

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 lock!

For detailed smart add information, please refer to chapter 4.4.

Click OK button, you can go to General interface. See Figure 4-3. For detailed information, please refer to chapter 4.14.1.

GENERAL	
General Date&Time Holiday	
Device ID (NVR	
Device No. 8	
Language ENGLISH -	
Video Standard PAL	
HDD Full Overwrite	
Pack Duration 60 Minute	
Realtime Play 5 Minute	
Auto Logout 10 Minute	
IPC Time Sync 24 Hours	
Navigation Bar	
Mouse Sensitivity Slow Fast	
Back Nex	xt Cancel

Figure 4-3

Click Next button, you can go to network interface. See Figure 4-4. For detailed information, please refer to chapter 4.12.

	TCP/IP
мти	(1500 LAN Download
IP Version MAC Address	IPv4 90:20:84:ed:2c:52
IP Address Subnet Mask Default Gateway	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Preferred DNS Alternate DNS	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Default	Back Next Cancel



Click Next button, you can go to remote device interface. See Figure 4-5. For detailed information, please refer to chapter 4.4.

				MOTE			_
0	Modify IP A	ddress	Port	Device ID		Manufacturer	Ту
•						_	•
_	Search) (\dd)		Displ	ay Filter(Mull	
Added E		<u>uu</u>		B13P1		i vuii	
Char	nnel Modify	Delete	Status	IP Address	Port	Device ID	
1		×		172.12.3.107	80		
2		×		172.4.4.31 172.11.2.133	80 37777	HDVR	
3		× × × × ×				HUVK	
4		×	•	172.4.4.6	80		
5		×	e	172.4.4.9	80		
6	/	×	ĕ	172.11.1.179	37777	DVR	
7	/	×	ē	172.11.1.108	37777		-
4	·	iii -					•
<u> </u>	te) (Manual	Add					
Delet							_

Figure 4-5

Click Next button, you can go to Schedule interface. See Figure 4-6. For detailed information, please refer to chapter 4.8.2.



Figure 4-6

Click Finish button, system pops up a dialogue box. Click the OK button, the startup wizard is complete. See Figure 4-7.



Figure 4-7

4.3 Navigation Bar

You need to go to the Main menu->Setting->System->General to enable navigation bar function; otherwise you can not see the following interface.

The navigation bar is shown as below. See Figure 4-8.





4.3.1 Main Menu

Click button

to go to the main menu interface.

4.3.2 Dual-screen operation

Important

This function is for some series only.

a de la comercia de l

Click to select screen 2, you can view an interface shown as below. See Figure 4-9. It is a navigation bar for screen 2.



Figure 4-9

Click any screen split mode; HDMI2 screen can display corresponding screens. Now you can control two screens. See Figure 4-10.



Note

- Screen 2 funciton is null if tour is in process. Please disable tour funciton first,
- Right now, the screen 2 operation can only be realized on the navigation bard. The operations on the right-click menu are for screen 1 only.

4.3.3 Output Screen

Select corresponding window-split mode and output channels.

4.3.4 Tour

Click button 🔃 to enable tour, the icon becomes you can see the tour is in process. 4.3.5 PTZ

Click system goes to the PTZ control interface. Please refer to chapter 4.7.2.

4.3.6 Color

Click button , system goes to the color interface. Please refer to chapter 4.6.4.1.

Please make sure system is in one-channel mode.

4.3.7 Search

Click button

, system goes to search interface. Please refer to chapter 4.9.2

4.3.8 Alarm Status

Click button (Lick button), system goes to alarm status interface. It is to view device status and channel status.

Please refer to chapter 4.15.1.4.

4.3.9 Channel Info

Click button , system goes to the channel information setup interface. It is to view information of the corresponding channel. See Figure 4-11.

Channel	Motion	Video Loss	Tamperin		s Record Mode		Frame Rate	
1	0	i 🧥 ,		•	Manual	960*576	25	95
2	0	i 🧥 .	0	۳.	Regular	960*576	25	23
	0	i 🧥 i	0	۳.	Regular	960*576	25	95
4	0	i 🔥 i	0	1	Regular	960*576	25	69
5	0	i 🚹 i	0	۳.	Regular	960*576	25	23
6	0			•	Regular	960*576	25	70
7	0	i 🧥 .		1	Regular	960*576	25	68
8	0	i 🚹 i	0	۳.	Regular	960*576	25	70
9	0	i 🔥 i		1	Regular	960*576	25	70
10	0	i 🧥 .		1	Regular	960*576	25	12
11	0	i 🚹 i	0	۳.	Regular	960*576	25	69
12	0	i 🔥 i	0	1	Regular	960*576	25	71
13		Ā i	0	1	Regular	960*576	25	71
14	0	i 🚹 i	0	۳.	Regular	960*576	25	70
15	0	Ā i	0	•	Regular	960*576	25	70
16	0	i 🚠 i	0	۳.	Regular	960*576	25	71
17	0			۳.	Regular	1920*1080	25	807
18	0	- <u> </u>	0	•	Regular	1280*960	25	406
19				۳.	Regular	1280*720	30	

Figure 4-11

4.3.10 Remote Device

Click system goes to the remote device interface. Please refer to chapter 4.4

4.3.11 Network

Click, system goes to the network interface. It is to set network IP address, default gateway and etc. Please refer to chapter 4.12.

4.3.12 HDD Manager

Click System goes to the HDD manager interface. It is to view and manage HDD information. Please refer to chapter 4.13.1.

4.3.13 USB Manager

Click , system goes to the USB Manager interface. It is to view USB information, backup and update. Please refer to chapter 4.10.1 file backup, chapter 4.10.3 backup log, chapter 4.10.2 import/export, and chapter 4.15.5 upgrade for detailed information.

4.4 Smart Add

When the network camera(s) and the NVR are in the same router or switch, you can use smart add function to add all network cameras to the NVR at the same time.

There are two ways for you to go to the smart add interface.

• From the startup wizard, click Smart add button. See Figure 4-12.



Figure 4-12

• On the preview interface, right click mouse and then select Smart add. See Figure 4-13.

	View 1	•
	View 4	•
	View 8	•
	View 9	•
	View 16	•
25	View 25	•
36	View 36	
■	PTZ	
5-3	Auto Focus	
æ	lmage	
O,	Search	
۲	Manual	►
-	Smart Add	,
=	Remote	1
ជ	Main Menu	

Figure 4-13

Now you can go to the smart add interface. See Figure 4-14.





Click smart add button, you can see device enables DHCP function. See Figure 4-15.



Figure 4-15

System pops up the following interface for you to confirm IP information if there are several IP segments. See Figure 4-16.



Figure 4-16

Now you can see system is auto adding IPC to the corresponding channels. See Figure 4-17.

Smart Add					
	Device is auto adding IP	C now			
10.15.5.177	10.15.62.82	10.15.5.65			
Smart Add					

Figure 4-17

You can see the following dialog box after system successfully added network cameras. See Figure 4-18.

Message				
Successfully added the channel(s)!				
Yes				

Figure 4-18

4.5 Remote Device

4.5.1 Remote Device Connection

From Mani menu->Setting->Remote device or right click mouse on the preview interface and then select remote device item, you can see the following interface. See Figure 4-19.

SETTING							
	TNETWORK 📷 EVENT SYSTEM						
REMOTE IMAGE ENCODE CAM NAME	Remote Status Firmware Upgrade 21 Modify IP Address Port Device ID Manufac 2 10.15.2.145 37777 Private Private 3 10.15.2.99 32789 DVR Private 4 192.168.1.108 37777 HDVR Private 5 10.15.5.208 37777 DVR Private 6 10.15.5.22 37777 NVR Private 7 10.15.7.137 37777 HDVR Private 7 10.15.7.137 37777 HDVR Private 7 10.15.7.137 37777 HDVR Private 0 10.15.6.22 37777 HDVR Private 0 10.15.6.23 37777 HDVR Private 0 10.15.6.91 37777 YZC3CV 2 4 10.15.6.93 37777 YZC3CV 2 X 0 <td< th=""></td<>						
	Delete (Manual Add) Save Cancel Apply						



Click Device search button, you can view the searched IP addresses at the top pane of the interface. Double click an IP address or check one IP address and then click Add button, you can add current device to the bottom pane of the interface. System supports batch add function.

Click Manual Add button, you can add a device directly. Here you can set TCP/UPD/auto connection mode. The default setup is TCP. See Figure 4-20.

Important

Please note the manual add function is for Private, Panasonic, Sony, Dynacolor, Samsung, AXIS, SANYO, Pelco, Arecont, ONVIF, LG, Watchnet, Canon, PSIA, IVC, XUNMEI, and Custom. When the type is the custom, you can just input URL address, user name and password connect to the network camera without considering network camera manufacture. Please contact your network camera manufacture for the URL address.

	Manual Add
Channel	4
Manufacturer	(Private 🔹
IP Address	(192.168.0.0
TCP Port	(37777
Username	admin
Password	•••••
Decoder Buffer	(280 ms
Remote Channel No.	1
	Save Cancel

Figure 4-20

4.5.2 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 4-21.



Figure 4-21

4.5.3 Image

From main menu->setting->camera->image, you can see the image interface is shown as below. See Figure 4-22.

- Channel: Select a channel from the dropdown list.
- Saturation: It is to adjust monitor window saturation. The value ranges from 0 to 100. The default value is 50. The larger the number, the strong the color is. This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For

the grey part of the video, the distortion may occur if the white balance is not accurate. Please note the video may not be attractive if the value is too low. The recommended value ranges from 40 to 60.

- Brightness: It is to adjust monitor window bright. The value ranges from 0 to 100. The default value is 50. The larger the number is, the bright the video is. When you input the value here, the bright section and the dark section of the video will be adjusted accordingly. You can use this function when the whole video is too dark or too bright. Please note the video may become hazy if the value is too high. The recommended value ranges from 40 to 60.
- Contrast: It is to adjust monitor window contrast. The value ranges from 0 to 100. The default value is 50. The larger the number is, the higher the contrast is. You can use this function when the whole video bright is OK but the contrast is not proper. Please note the video may become hazy if the value is too low. If this value is too high, the dark section may lack brightness while the bright section may over exposure .The recommended value ranges from 40 to 60.
- Auto Iris: It is for the device of the auto lens. You can check the box before ON to enable this function. The auto iris may change if the light becomes different. When you disable this function, the iris is at the max. System does not add the auto iris function in the exposure control. This function is on by default.
- Mirror: It is to switch video up and bottom limit. This function is disabled by default.
- Flip: It is to switch video left and right limit. This function is disabled by default.
- BLC: It includes several options: BLC/WDR/HLC/OFF.
- BLC: The device auto exposures according to the environments situation so that the darkest area of the video is cleared
- WDR: For the WDR scene, this function can lower the high bright section and enhance the brightness of the low bright section. So that you can view these two sections clearly at the same time. The value ranges from 1 to 100. When you switch the camera from no-WDR mode to the WDR mode, system may lose several seconds record video.
- ♦ HLC: After you enabled HLC function, the device can lower the brightness of the brightest section according to the HLC control level. It can reduce the area of the halo and lower the brightness of the whole video.
- ♦ OFF: It is to disable the BLC function. Please note this function is disabled by default.
- Profile: It is to set the white balance mode. It has effect on the general hue of the video. This function is on by default. You can select the different scene mode such as auto, sunny, cloudy, home, office, night, disable and etc to adjust the video to the best quality.
- ♦ Auto: The auto white balance is on. System can auto compensate the color temperature to make sure the vide color is proper.
- Sunny: The threshold of the white balance is in the sunny mode.
- ♦ Night: The threshold of the white balance is in the night mode.
- ♦ Customized: You can set the gain of the red/blue channel. The value reneges from 0 to 100.
- Day/night. It is to set device color and the B/W mode switch. The default setup is auto.
- ♦ Color: Device outputs the color video.
- Auto: Device auto select to output the color or the B/W video according to the device feature (The general bright of the video or there is IR light or not.)
- ♦ B/W: The device outputs the black and white video.
- ♦ Sensor: It is to set when there is peripheral connected IR light.

Please note some non-IR series product support sensor input function.

		SETTING			
CAMERA		To EVENT	STORAGE	SYSTEM	
REMOTE IMAGE ENCODE CAM NAME	Channel Ring Mirror Flip Light Scene Mode DayLight	2 • Enable O Disable • Enable O Disable No Flip • Stop • Schedule • Schedule	Saturation Brightness Contrast	50 50 50 50	
	Default F	tefresh	Save	Cancel Ap	oly

Figure 4-22

4.5.4 Channel Name

From main menu->Setting->Camera-Channel name, you can see an interface shown as in Figure 4-23. It is to modify channel name. It max supports 31-character.

Please note you can only modify the channel name of the connected network camera.

		SETTING		
		THE EVENT	STORAGE	SYSTEM
REMOTE IMAGE ENCODE CAM NAME	Channel 3 Cha Channel 5 Cha Channel 7 Cha Channel 9 IPC	annel 11	Channel 4 Cr	c
		annel 15	Channel 16 Cr	nannel 16

Figure 4-23

4.5.5 Upgrade

Note

Right now, the NVR can upgrade the IPC via the USB device or WEB. You can upgrade 8 network cameras of the same model (or the NVR supported) at the same time.

It is to update the network camera.

From main menu->setting->camera->remote, the interface is shown as below. See Figure 4-24.

Click Browse button and then select the upgrade file. Then select a channel (or you can select device type filter to select several devices at the same time.)

Click Begin button to upgrade. You can see the corresponding dialogue once the upgrade is finish.

	SETTING
CAMERA	TNETWORK 📆 EVENT STORAGE 🛃 SYSTEM
REMOTE IMAGE ENCODE	Remote Status Firmware Upgrade Upgrade File (/ Select
CAM NAME	Upgrade(0/14) Device Type (None
	Channel Status IP Address Port anufactur Device Type System Version 1 1 10.15.9.136 37777 Private 2 10.15.6.86 40006 Private IPC-HFW3101C 2.211
	3 10.15.6.86 40006 Private IPC-HFW3101C 2.211 4 10.15.6.86 40006 Private IPC-HFW3101C 2.211 5 10.15.6.86 40006 Private IPC-HFW3101C 2.211
	6 10.15.6.86 40006 Private IPC-HFW3101C 2.211 7 0.15.6.86 40006 Private IPC-HFW3101C 2.211 8 10.15.6.86 40006 Private IPC-HFW3101C 2.211
	9 10.15.5.82 40003 Private IPC-HFW3200S 2.211 10 10.15.5.82 40003 Private IPC-HFW3200S 2.211 11 10.15.5.233 37777 Private IPC-HFW3200S 2.211
	12 10.15.5.82 40003 Private IPC-HFW3200S 2.211 13 10.15.6.99 37777 Private IPC-HFW5100 2.210 14 10.15.7.144 37777 Private IPC-HFW5100 2.210
	If the upgrade file fails. Please make sure the device is online.

Figure 4-24

4.5.6 UPNP

Important

Do not connect the switch to the PoE port, otherwise the connection may fail!

Please connect the IPC to the PoE port of the device rear panel (Figure 4-25), system can auto connect to the network camera. Please note the following figure is for reference only.

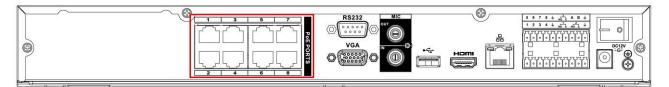


Figure 4-25

4.5.7 Built-in Switch Setup

The built-in switch function is for product of PoE port.

From Main menu->Setting->Network->Switch, you can set switch IP address, subnet mask, gateway and etc. See Figure 4-26.

	SETTING	
📆 CAMERA	📻 NETWORK 📷 EVENT 🔤 STORAGE 🛃 SYSTEM	
TCP/IP CONNECTION WIFI 3G PPPOE DDNS UPNP IP FILTER EMAIL FTP SNMP MULTICAST ALARM CENTER	IP Address 15 . 12 . 1 . 1 Subnet Mask 255 . 255 . 0 Default Gateway 15 . 12 . 1 . 1	
AUTO REGISTER SWITCH		
	Default OK Cancel Apply	

Figure 4-26

4.6 Preview

After device booted up, the system is in multiple-channel display mode. See Figure 4-27.Please note the displayed window amount may vary. The following figure is for reference only. Please refer to chapter 1.3 Specifications for the window-amount your product supported.



Figure 4-27

If you want to change system date and time, you can refer to general settings (Main Menu->Setting->System->General). If you want to modify the channel name, please refer to the display settings (Main Menu->Camera->CAM name)

Please refer to the following sheet for detailed information.

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

<u>Tips</u>

- Preview drag: If you want to change position of channel 1 and channel 2 when you are previewing, you can left click mouse in the channel 1 and then drag to channel 2, release mouse you can switch channel 1 and channel 2 positions.
- Use mouse middle button to control window split: You can use mouse middle button to switch window split amount.

4.6.2 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 4-28. If your mouse stays in this area for more than 6 seconds and has no operation, the control bar automatically hides.

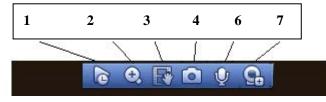


Figure 4-28 Digital Channel

1) Realtime playback

It is to playback the previous 5-60 minutes record of current channel.

Please go to the Main menu->Setting->->System->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.

Click button Shown as

There are two ways for you to zoom in.

• Drag the mouse to select a zone, you can view an interface show as Figure 4-29.

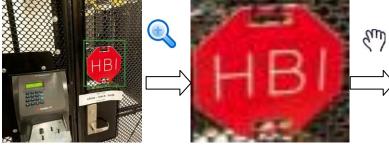




Figure 4-29

• Put the middle button at the centre of the zone you want to zoom in, and move the mouse, you can view an interface shown as in Figure 4-30.

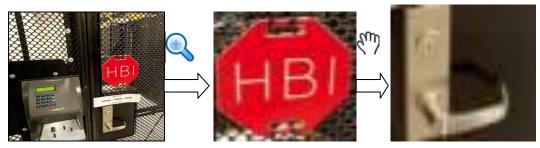


Figure 4-30

Right click mouse to cancel zoom and go back to the original interface.

3) Manual record 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.

Click button system begins recording. Click it again, system stops recoridng. You can find the record file on the flash disk.

4) Manual Snapshot

Click I to snapshot 1-5 times. The snapshot file is saved on the USB device or HDD. You can go to the Search interface (chapter 4.9) to view.

5) Bidirectional talk

If the connected front-end device supports bidirectional talk function, you can click this button. Click

button 🔛 to start bidirectional talk function the icon now is shown as 🖳 . Now the rest bidirectional talk buttons of digital channel becomes null too.

Click 💆 again, you can cancel bidirectional talk and the bidirectional talk buttons of other digital

channels become as

6) Remote device

Shortcut menu. Click it to go to the remote device interface to add/delete remote device or view its corresponding information. Please refer to chapter 4.5.2 for detailed information.

4.6.3 Right Click Menu

After you logged in the device, right click mouse, you can see the short cut menu. Please see Figure 4-31.

- Window split mode: You can select window amount and then select channels.
- PTZ: Click it to go to PTZ interface.
- Auto focus: It is to set auto focus function. Please make sure the connected network camera supports this function.
- Color setting: Set video corresponding information.
- Search: Click it to go to Search interface to search and playback a record file.

- Record control: Enable/disable record channel.
- Alarm output: It is to set alarm output mode.
- Remote device: Search and add a remote device.
- Alarm output: Generate alarm output signal manually.
- Main menu: Go to system main menu interface.

Tips:

Right click mouse to go back to the previous interface.





4.6.4 Preview Display Effect Setup

4.6.4.1 Video Color

Here you can set hue, brightness, contrast, saturation, gain, white level, color mode and etc. See Figure 4-32.

COLOR
Period Time Period
Effective Time 🗹 (00 : 00 - 24 : 00
Sharpness 🔺 🔤 50
Brightness 🔅 50
Contrast 🕕 🦲 50
Saturation 🖆 👝 50
Gain 🔲 50
Color Mode Standard 🔻
Customized Default OK Cancel



Please refer to the	following	sheet for	detailed	information
Flease relet to the	TOHOWING	Sheet IOI	uetalleu	inionnation.

Item	Note				
Period	There are two periods in one day. You can set different				
	sharpness, brightness, and contrast setup for different periods.				
Effective Time	Check the box here to enable this function and then set period				
	time.				
	The value here is to adjust the edge of the video. The value				
	ranges from 0 to 100. The larger the value is, the clear the edge				
Sharpness	is and vice versa. Please note there is noise if the value here is				
	too high. The default value is 50 and the recommended value ranges from 40 to 60.				
Brightness	It is to adjust monitor window bright. The value ranges from 0 to 100. The default value is 50.				
	The larger the number, the bright the video is. When you input the value here, the bright section and the dark section of the				
	video will be adjusted accordingly. You can use this function when the whole video is too dark or too bright. Please note the				
	video may become hazy if the value is too high. The				
	recommended value ranges from 40 to 60.				
Contrast	It is to adjust monitor window contrast. The value ranges from 0 to 100. The default value is 50.				
	The larger the number, the higher the contrast is. You can use				
	this function when the whole video bright is OK but the contrast				
	is not proper. Please note the video may become hazy if the				
	value is too low. If this value is too high, the dark section may				
	lack brightness while the bright section may over exposure . The				
	recommended value ranges from 40 to 60.				
Saturation	It is to adjust monitor window saturation. The value ranges from				

Item	Note
	0 to 100. The default value is 50.
	The larger the number, the strong the color is. This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For the grey part of the video, the distortion may occur if the white balance is not accurate. Please note the video may not be attractive if the value is too low. The recommended value ranges from 40 to 60.
Gain	The gain adjust is to set the gain value. The default value may vary due to different device models. The smaller the value, the low the noise. But the brightness is also too low in the dark environments. It can enhance the video brightness if the value is high. But the video noise may become too clear.
Color mode	It includes several modes such as standard, color, bright, gentle. Select a color mode, the sharpness, brightness, contrast and etc can automatically switch to corresponding setup.

4.6.4.2 Display

From Main Menu->Setting->System->Display, you can go to the following interface. See Figure 4-33. Here you can set menu and video preview effect. All you operation here does not affect the record file and playback effect.

		SETTING			
🌄 CAMERA	TWORK	To EVENT	STORAGE	SYSTEM	
GENERAL DISPLAY RS232 PTZ ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	Display Resolution VGA+HDMl2 Transparency Time Display Channel Display Image Enhance Original Scale		% OK	Cancel) (Apply	

Figure 4-33

Now you can set corresponding information.

Resolution: There are five options: 1280×1024 (Default), 1280×720, 1920×1080, 1024×768 and 3840×2160. Please note the system needs to reboot to activate current setup. Please note 3840×2160 is for some series only.

- VGA+HDMI2: It is for dual-screen operation. Please select from the dropdown list according to your actual situation. Click Apply button, system needs to restart to activate new setup. For example, 32+4 means for VGA, system max supports 32-window split and for HDMI2, system max supports 4-window split.
- 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.
- Image enhance: Check the box; you can optimize the margin of the preview video.
- Original scale: Check the box here to restore video original scale.

Click OK button to save current setup.

4.6.4.3 TV adjust

Note

Some series product supports TV adjust function.

From Main Menu->Setting->System->Display->TV adjust; you can go to the following interface. See Figure 4-33. Here you can set margins and brightness.

	SETTING	
N CAMERA	TNETWORK 📷 EVENT SYSTEM	
GENERAL DISPLAY RS232 PTZ ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	Display TV Adjust Tour Top Margin 0 Bottom Margin 0 Left Margin 0 Right Margin 0 Brightness 128	
	Default OK Cancel Apply	

Figure 4-34

4.6.5 **Preview Tour Parameters**

Set preview display mode, channel display sequence and tour setup.

- Set preview display mode: On the preview interface, right click mouse, you can view right-click menu. Now you can select preview window amount and channel.
- Set channel display mode: On the preview interface, if you want to change channel 1 and channel 16

position, please right click channel 1 video window and then drag to the channel 16 video window, release button, you can change channel 1 and channel 16 position.

• Tour setup: Here you can set preview window channel display mode and interval. Please follow the steps listed below.

From Main menu->Setting->System->Display->Tour, you can see an interface shown as in Figure 4-35. Here you can set tour parameter.

- Enable tour: Check the box here to enable tour function. The general tour supports all types of window split mode.
- Interval: Input proper interval value here. The value ranges from 1-120 seconds.
- Motion tour type: System support 1/8-window tour. Please note you need to go to the main menu->Setting->Event->Video detect->Motion detect to enable tour function.
- Alarm tour type: System support 1/8-window tour. Please note you need to go to the main menu->Setting->Event->Alarm to enable tour function.
- Window split: It is to set window split mode.

SETTING					
🇓 CAMERA	7 NETWORK 🖙 EVENT STORAGE 🛃 SYSTEM				
GENERAL DISPLAY	Display TV Adjust Tour				
RS232 PTZ ACCOUNT	Motion Tour Type View 1 Vie				
AUTO MAINTAIN IMP/EXP DEFAULT	2 ✓ Window Split 1 ✓ 1 2 3 4 2 ✓ 5 6 7 8				
UPGRADE					
	Add Delete Move up Move down				
	Default OK Cancel Apply				

Figure 4-35

Tips

On the navigation bar, click **Implies** to enable/disable tour. Click Save button to save current setup.

4.7 PTZ

Note:

Before you control the PTZ, please make sure the PTZ decoder and the NVR network connection is OK and the corresponding settings are right.

4.7.1 **PTZ Settings** Cable Connection Please follow the procedures below to go on cable connection

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

In the main menu, from Setting->System->PTZ, you can see an interface is shown as in Figure 4-36. Here you can set the following items:

- Channel: Select the current camera channel.
- PTZ type: There are two types: local/remote. Please select local mode if you are connect RS485 cable to connect to the Speed dome (PTZ). Please select remote mode if you are connecting to the network PTZ camera.
- Protocol: Select corresponding PTZ protocol(such as PELCOD)
- Address: Default address is 1.
- Baud rate: Select corresponding baud rate. Default value is 9600.
- Data bit: Select corresponding data bits. Default value is 8.
- Stop bit: Select corresponding stop bits. Default value is 1.
- Parity: There are three options: odd/even/none. Default setup is none.

		SETTING			
ந CAMERA		D EVENT	STORAGE	SYSTEM	
GENERAL DISPLAY RS232 PTZ ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPDATE	Channel (1 PTZ Type (Local Protocol (PELC Address (1 Baud Rate (9600) Data Bit (8 Stop Bit (1 Parity (None		Save) Cancel Appl	Y

Figure 4-36

If you are connecting to network PTZ, the PTZ type shall be remote. See Figure 4-37.

		SETTING		
SAMERA		Tage EVENT	STORAGE	SYSTEM
GENERAL DISPLAY RS232 PTZ ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPDATE	Channel 3 PTZ Type (Remo	vte v		
	Default Cop	<u>y</u>)	Save	Cancel Apply

Figure 4-37

4.7.2 PTZ Control

After completing all the setting please click save button. Right click mouse (click "Fn" Button in the front panel or click "Fn" key in the remote control). The interface is shown as in Figure 4-38. Please note you can only go to the PTZ control interface when you are in 1-window display mode.

	View 1	►
	View 4	١.
	View 8	Þ
	View 9	۱.
	View 16	►
25	View 25	•
36	View 36	
	PT7 .	
	PTZ	
	PTZ Auto Pocus	
5+3		
€: ₽	Auto Pocus	
€ 89 0,	Auto Pocus Color Setting	•
E 49 0, 49	Auto Pocus Color Setting Search Manual	•
	Auto Pocus Color Setting Search	•



The PTZ setup is shown as in See Figure 4-39.

Please note the commend name is grey once device does not support this function.

The PTZ operation is only valid in one-window mode.

Here you can control PTZ direction, speed, zoom, focus, iris, preset, tour, scan, pattern aux function, light and wiper, rotation and etc.

Speed is to control PTZ movement speed. The value ranges from 1 to 8. The speed 8 is faster than speed 1. You can use the remote control to click the small keyboard to set.

You can click 🖸 and 📴 of the zoom, focus and iris to zoom in/out, definition and brightness.

The PTZ rotation supports 8 directions. If you are using direction buttons on the front panel, there are only four directions: up/down/left/right.



Figure 4-39

In the middle of the eight direction arrows, there is a 3D intelligent positioning key. See Figure 4-40. Please make sure your protocol supports this function and you need to use mouse to control.

Click this key, system goes back to the single screen mode. Drag the mouse in the screen to adjust section size. The dragged zone supports 4X to 16X speeds. It can realize PTZ automatically. The smaller zone you dragged, the higher the speed.



Name	Function	function	Shortcut	Function	function	Shortcut
	key		key	key		key
Zoom	0	Near	Ļ	0	Far	••
Focus	0	Near	•	0	Far	▶
Iris	O	close	◀	•	Open	► II

In Figure 4-39, click to open the menu, you can set preset, tour, pattern, scan and etc. See Figure 4-41.



Figure 4-41

Please refer to the following sheet for detailed information.

Please note the above interface may vary due to different protocols. The button is grey and can not be selected once the current function is null.

Right click mouse or click the ESC button at the front panel to go back to the Figure 4-39.

lcon	Function	lcon	Function
C	Preset	Ð	Flip
	Tour	Ð	Reset
?	Pattern		Aux
₿	Scan		Aux on-off button
Ð	Rotate	0	Go to menu

4.7.2.1 PTZ Function Setup

Click, you can go to the following interface to set preset, tour, pattern, and scan. See Figure 4-42.



Figure 4-42

Preset Setup

In Figure 4-42, click preset button and use eight direction arrows to adjust camera to the proper position.

The interface is shown as in Figure 4-43.

Click Set button and then input preset number.

Click Set button to save current preset.

(P	TZ	
Preset	Tour	Pattern	Border
		Preset	1
			et Preset

Figure 4-43

Tour Setup

In Figure 4-42, click tour button.

Input tour value and preset No. Click Add preset button to add current preset to the tour. See Figure 4-44. **Tips**

Repeat the above steps to add more presets to the tour. Click Del preset button to remove it from the tour. Please note some protocols do not support delete preset function.

(PT	z	
Preset	Tour	Pattern	Border
	K	Del F	1 p. 0 Preset Preset Tour

Figure 4-44

Pattern Setup

In Figure 4-42, click Pattern button and input pattern number.

Click Begin button to start direction operation. Or you can go back to Figure 4-39 to operate zoom/focus/iris/direction operation.

In Figure 4-42, click End button.



Figure 4-45

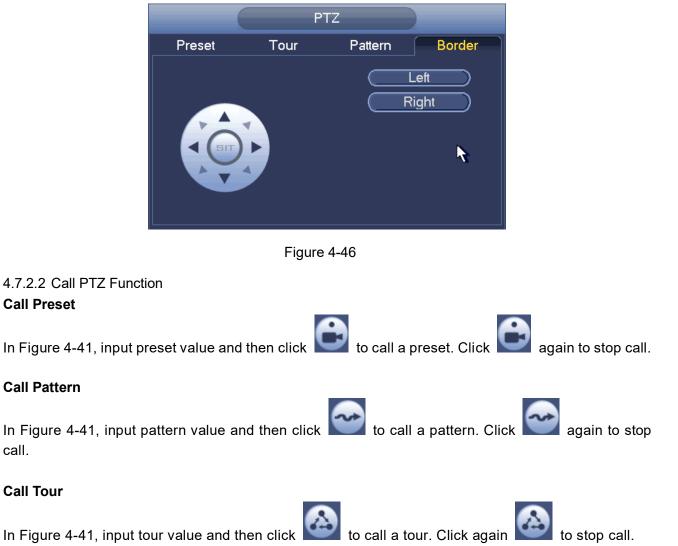
Scan Setup

call.

In Figure 4-42, click Scan button.

Use direction buttons to set camera left limit and then click Left button.

Use direction buttons to set camera right limit and then click Right button. Now the scan setup process is complete.



Call Scan

In Figure 4-41, input Scan value and then click

Rotate



In Figure 4-41, click **I** to enable the camera to rotate.

System supports preset, tour, pattern, scan, rotate, light and etc function.

Note:

- Preset, tour and pattern all need the value to be the control parameters. You can define it as you require.
- You need to refer to your camera user's manual for Aux definition. In some cases, it can be used for special process.

to call a tour. Click again

to stop call.

Aux

6

Click system goes to the following interface. The options here are defined by the protocol. The aux number is corresponding to the aux on-off button of the decoder. See Figure 4-47.

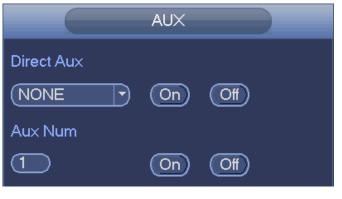


Figure 4-47

4.8 Record and Snapshot

The record/snapshot priority is: Alarm->Motion detect->Schedule.

4.8.1 Encode

4.8.1.1 Encode

Encode setting is to set IPC encode mode, resolution, bit stream type and etc

From Main menu->Setting->System->Encode, you can see the following interface. See Figure 4-48.

- 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. For NVR42-4K, NVR42-8P-4K series product, the main stream supports 2048× 1536(3M),1920×1080(1080P), 1280×1024(S×GA), 1280×960(1.3M),1280×720(720P),704 ×576 (D1) and the sub stream supports 704×576 (D1),352×288 (CIF).



- 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. Please note, once you enable audio function for one channel, system may enable audio function of the rest channels by default.
- 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 4-51. 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 4-51 and Figure 4-49 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.

		SETTING		
		To EVENT	STORAGE	SYSTEM
REMOTE IMAGE ENCODE CAM NAME	Code-Stream Type Compression () Resolution () Frame Rate(FPS) () Bit Rate Type () Bit Rate(Kb/S) () Reference Bit Rate 2)	2 Regular H.264 1.3M 25 CBR 4096 •	Sub Stream1 ♥ H.264 ♥ CIF ♥ 6 ♥ CBR ♥ 160 ♥ 48-256Kb/S ✔	
	Default Cc	ру	Save	Cancel Apply

Please highlight icon 📕 to select the corresponding function.



4.8.1.2 Overlay

Click overlay button, you can see an interface is shown in Figure 4-49.

- Cover area: Here is for you to cover area section. You can drag you mouse to set proper section size.
 In one channel video, system max supports 4 zones in one channel. You can set with Fn button or direction buttons.
- Preview/monitor: The cover area 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.

	S	ETTING	
CAMERA	👘 EVE		SYSTEM
REMOTE IMAGE ENCODE CAM NAME	Encode Overlay 2 Channel 2 Time Display 🖌 Monitor Channel Display 🖌 Monitor Cover-Area 🗋 Monitor	Snapshot Setup Setup Setup	
	Default Copy	Save	Cancel Apply

Figure 4-49

4.8.1.3 Snapshot

Here you can set snapshot mode, picture size, quality and frequency. See Figure 4-50.

- Snapshot mode: There are two modes: regular and trigger. If you set regular mode, you need to set snapshot frequency. If you set trigger snapshot, you need to set snapshot activation operation.
- Image size: Here you can set snapshot picture size.
- Image quality: Here you can set snapshot quality. The value ranges from 1 to 6.
- Interval: It is for you to set timing (schedule) snapshot interval.

	SETTING
	📻NETWORK 📷 EVENT 📴 STORAGE 🗾 SYSTEM
REMOTE IMAGE ENCODE CAM NAME	Encode Overlay Snapshot Mannal Snap 1 / Time Channel 2 2 Mode Trigger 1 Image Size 1.3M 2 Quality 4 2 Snapshot Frequency 1 SPL Snapshot Frequency 1 SPL Save Cancel Apply

Figure 4-50

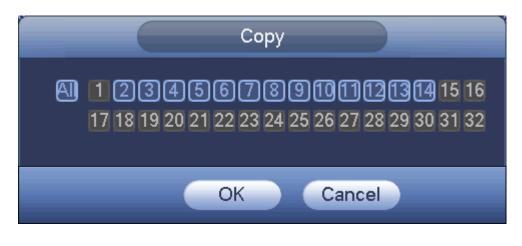


Figure 4-51

4.8.2 Schedule

The record type priority is: Alarm>Motion detect>Regular.

4.8.2.1 Schedule Record

Set record time, record plan and etc. Please note system is in 24-hour record by default after its first boot up.

In the main menu, from Main menu->Setting->Storage->Schedule, you can go to schedule menu. See Figure 4-55. There are total six periods.

- Channel: Please select the channel number first. You can select "all" if you want to set for the whole channels.
- ♦ Sync connection icon. Select icon of several dates, all checked items can be edited or

together. Now the icon is shown as

- ♦ Mathe Series I a second type from one period.
- Record Type: Please check the box to select corresponding record type. There are four types: Regular/MD (motion detect)/Alarm/MD&Alarm.
- Week day: There are eight options: ranges from Saturday to Sunday and all.
- Holiday: It is to set holiday setup. Please note you need to go to the General interface (Main Menu->Setting->System->General) to add holiday first. Otherwise you can not see this item.
- 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->Setting->Storage->HDD Manager). Please note this function is null if there is only one HDD.
- ANR: It is to save video to the SD card of the network camera in case the network connection fails. The value ranges from 0s~43200s. After the network connection resumed, the system can get the video from the SD card and there is no risk of record loss.
- Period setup: Click button after one date or a holiday, you can see an interface shown as in Figure 4-56. There are four record types: regular, motion detection (MD), Alarm, MD & alarm.

Please following the steps listed below to draw the period manually.

a) Select a channel you want to set. See Figure 4-52.





b) Set record type. See Figure 4-53.





c) Please draw manually to set record period. There are six periods in one day. See Figure 4-54.



Figure 4-54

Please check the box I to select the corresponding function. After completing all the setups please click save button, system goes back to the previous 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.

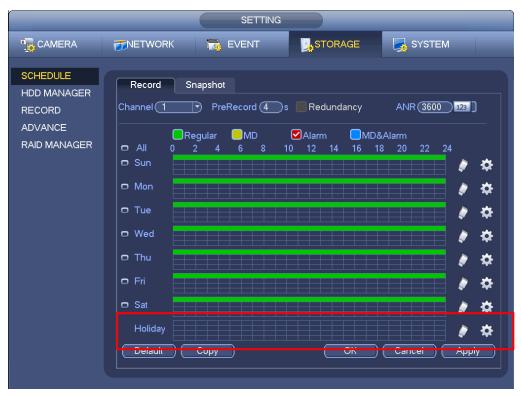


Figure 4-55

	Time Perio	d		
Current Date: Sun				
Period 1 00 : 00 - 24 : 00	🔲 Regular	☐ MD	Alarm	MD&Alarm
Period 2 00 : 00 - 24 : 00	Regular	MD	Alarm	MD&Alarm
Period 3 00 : 00 - 24 : 00	Regular	MD	Alarm	MD&Alarm
Period 4 00 : 00 - 24 : 00	Regular	MD	Alarm	MD&Alarm
Period 5 00 : 00 - 24 : 00	Regular	MD	Alarm	MD&Alarm
Period 6 00 : 00 - 24 : 00	Regular	□ MD	Alarm	MD&Alarm
 Copy				
All Sun Mon Tu	e 🗌 Wed 🗌 Thu (]Fri ∏Sat		
			₩	
			.,	
Save				

Figure 4-56

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 4-57. 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 4-57, the record setup of all channels are the same and the Copy button becomes hidden.



Figure 4-57

Click OK button to save current setup.

4.8.2.2 Schedule Snapshot

From Main menu->Setting->Storage->Record or on the preview interface, right click mouse and then select record item, you can see Figure 4-58.

Select snapshot channel and enable snapshot function. Click Save button.

		(SETTING	
📆 CAMERA			EVENT	
HDD MANAGER	Main Stream	All		
	Schedule	0		
ADVANCE	Manual			
RAID MANAGER	Off		000000000000000000000000000000000000000	
	Sub Stream			_
	Schedule		0000000000000	
	Manual	•		
	Off	0	000000000000000000000000000000000000000	
	Spapshot			
	Enable	•	• • • • • • • • • • • • • • •	
	Disable	0	000000000000000	
			Save Cancel Apply	

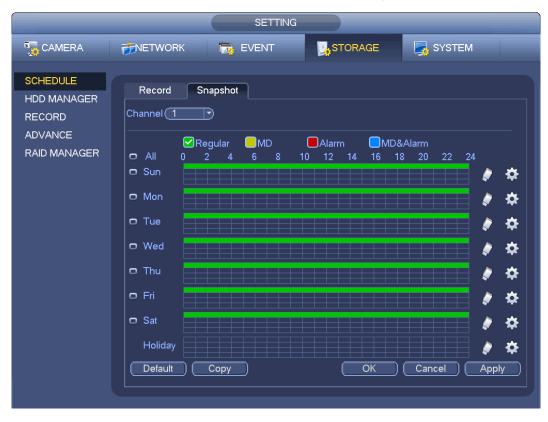
Figure 4-58

From Main menu->Setting->Camera->Encode->Snapshot, you can go to snapshot interface. See Figure 4-59.

Select the snapshot channel from the dropdown list and then select snapshot mode as Timing (Schedule) from the dropdown list and then set picture size, quality and snapshot frequency.

Figure 4-59

In the main menu, from Main menu->Setting->Storage->Schedule, you can go to schedule menu. See Figure 4-55. Here you can set snapshot period. There are total six periods in one day. Please refer to chapter 4.8.2.1 for detailed setup information. The setup steps are general the same.





Note

- Please note the trigger snapshot has the higher priority than regular snapshot. If you have enabled these two types at the same time, system can activate the trigger snapshot when an alarm occurs, and otherwise system just operates the regular snapshot.
- Only the trigger snapshot supports this function. The regular snapshot function can not send out picture via the email. But you can upload the picture to a FTP.

4.8.3 Motion detect record/snapshot

- 4.8.3.1 Motion detect record
 - a) From Main menu->Setting->Event->Detect, you can go to the following interface. See Figure 4-61.

	SETTING
😼 CAMERA	TRETWORK 😹 EVENT SYSTEM
VIDEO DETECT ALARM ABNORMALITY ALARM OUT	Motion Detect Tampering Video Loss Channel 3 Enable Region Setup Sensitivity 3 •
	Period Setup Anti-dither 5 Second ✓Alarm Out 123 Latch 10 Second ✓Show Message Alarm Upload Send Email ✓Record Channel 123456789101121314
	PTZ ActivationSetupDelay10Tour123456789101121314Snapshot123456789101121314Buzzer
	Default Copy Save Cancel Apply

Figure 4-61

- b) Select motion detect from the event type dropdown list. Select a channel from the dropdown list and then check the enable button to enable motion detect function.
- c) Click Region Select button to set motion detect 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.
- d) Period: Click set button, you can see an interface is shown as in Figure 4-84. Here you can set motion detect period. System only enables motion detect operation in the specified periods. It is not for video loss or the tampering. There are two ways for you to set periods. Please note system only supports 6 periods in one day.
- ♦ In Figure 4-84, Select icon of several dates, all checked items can be edited together. Now

the icon is shown as . Click to delete a record type from one period.

- ♦ In Figure 4-84. Click button after one date or a holiday, you can see an interface shown as in Figure 4-85. There are four record types: regular, motion detection (MD), Alarm, MD & alarm.
 - e) Set sensitivity. Please note the sixth level has the highest sensitivity.
 - f) Click Save button to complete motion detect setup.
 - g) From Main menu->Setting->Storage->-Schedule. See Figure 4-55
 - Set motion detect record channel, period and the record type shall be motion detect (MD). Please refer to chapter 4.8.2.

- i) Click Copy button to copy current setup to other channel(s).
- j) Click OK button to complete motion detect record setup.



Figure 4-62

Time Period	
Current Date: Sun	
Period 1 (00 : 00 - 24: 00)	
Period 2 (00 : 00 - 24: 00)	
Period 3 (00 : 00 - 24 : 00)	
Period 4 (00:00 - 24:00)	
Period 5 00 : 00 - 24 : 00	
Period 6 00 : 00 - 24 : 00	
Сору	
🗋 All 👘 Sun 🗋 Mon 🗋 Tue 💭 Wed 💭 Thu 💭 Fri 🗋 Sat	
Save	

Figure 4-63

4.8.3.2 Motion Detect Snapshot

- a) From Main menu->Setting->Camera->Encode->Snapshot, you can go to snapshot interface. See Figure 4-64.
- b) In Figure 4-64, select trigger snapshot from the dropdown list and then set picture size, quality and snapshot frequency. Click OK button to save current setup.
- c) From Main menu->Setting->Event->Detect, here you can select motion detect type, motion detect channel and then check the enable box. Please refer to chapter 4.8.3.1.
- d) Click OK button to complete motion detect setup.

	SETTING
	👘NETWORK 🛛 😹 EVENT 🛛 🛃 SYSTEM
REMOTE IMAGE ENCODE CAM NAME	Encode Overlay Snapshot Mannal Snap 1 • Time Channel 2 • Mode Trigger • Image Size 1.3M • Quality 4 • Snapshot Frequency 1 SPL Save Cancel Apply

Figure 4-64

4.8.4 Alarm Record/Snapshot

4.8.4.1 Alarm Record

- a) Before you set alarm setup information, please go to chapter 2.3 to connect alarm input and alarm output cable (such as light, siren and etc).
- b) The record priority is: Alarm>Motion detect>Regular.

In the main menu, from Setting->Event-> Alarm, you can see alarm setup interface. See Figure 4-65.

- 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.
 - \diamond 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, snapshot 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.
 - c) Click Save button to complete alarm setup interface.

	SETTING
📆 CAMERA	TRETWORK
VIDEO DETECT ALARM ABNORMALITY ALARM OUT	IPC Ext Alarm IPC Offline Alarm Local Alarm Net Alarm Channel 1 Enable Type Normal Open
	PeriodSetupAnti-dither5SecondAlarm Out123Latch10andShow MessageAlarm UploadSend EmailRecord Channel123456789101121314
	 ✓PTZ Activation Setup Delay 10 Second ✓Tour 123456789101121314 ✓Snapshot 123456789101121314 Buzzer
	Default Copy Save Cancel Apply

Figure 4-65

- d) From Mani menu->Setting->Storage->Schedule, you can go to Figure 4-55.
- e) Select alarm channel, period and the record type shall be alarm. Please refer to chapter 4.8.2.
- f) Click Copy button to copy current setup to other channel(s).
- g) Click OK button to save alarm record information.

4.8.4.2 Alarm Snapshot

- a) Please refer to Step a) to step c) of chapter 4.8.3.2 to enable timing snapshot.
- b) From Main menu->Setting->Storage->schedule, you can go to Figure 4-66 to enable snapshot function.
- c) From Main menu->Setting->Event->Alarm, you can go to Figure 4-65 to set alarm parameter and enable snapshot function.
- d) Click Save button to save alarm snapshot setup.

	SETTING
	👘 NETWORK 🛛 👼 EVENT 🛛 💁 SYSTEM
REMOTE IMAGE ENCODE CAM NAME	Encode Overlay Snapshot Mannal Snap 1 • /Time Channel 2 • Mode Trigger • Image Size 1.3M • Quality 4 • Snapshot Frequency 1 SPL Save Cancel Apply

Figure 4-66

4.8.5 Manual Record/Snapshot

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

4.8.5.1 Manual Record

a) Right click mouse and select manual record or in the main menu, from Setting->Storage->Manual Record. Manual record menu is shown as in Figure 4-67.

Tips

You can click Rec button on the front panel (if possible) to go to the Manual Record interface.

	_				SET	ITIN	IG)		_
👼 CAMERA			17	ΕV	′EN ⁻	Г		Į	s.	TORAGE		SYSTEM
SCHEDULE												
HDD MANAGER	Main Stream	All		2	34	- 5	6	7	89	10 11 12 -	13 14	Ļ
RECORD	Schedule	0	•	•	• c		•	• •	• •		• •)
ADVANCE	Manual		0		0	0	0	0 (0 0	$0 \bullet \bullet 0$	o c	
RAID MANAGER	Off		0	0 (рс	0	0	0 (0 0	0000	С	
	Sub Stream											
	Schedule				рс	0		0 (bо	0000	οс	
	Manual	•	٠	•	• •	•	٠	• •	• •		• •)
	Off	0			ЭC	0		0 (0 0	0000	рс	
	Snapshot											
	Enable	٠	•	•	• •	•	٠	• •	• •		• •)
	Disable		0	0 (рс	0		0 (0 0	0000	рο	
										Save		Cancel Apply
											-	Cancel Apply

Figure 4-67

- b) Check the box here to select manual record channel(s). You can see the corresponding indicator light on the front panel is on.
- Channel: It is to display device all channels.
- Manual: It has the highest priority. Enable corresponding channel to record no matter what period applied in the record setup. Now system is record general file.
- Auto: System enables auto record function as you set in chapter 4.8.2 schedule interface (General/Motion detect/Alarm)
- Stop: Stop current channel record/Snapshot no matter what period applied in the record setup.
- All: Check the All box to select all channels.
 - c) Click OK button to complete manual record setup.

4.8.5.2 Manual Snapshot

Click button at the preview control bar, you can snapshot 1-5 picture(s). From main menu->Setting->Camera->Encode->Snapshot, you can set snapshot times. You can go to chapter 4.9 to view snapshot picture.

4.8.6 Holiday Record/Snapshot

It is for you to set holiday record or snapshot plan. Please note the holiday record/snapshot setup has the higher priority than the ordinary date record/snapshot setup.

- 4.8.6.1 Holiday Record
 - a) From Mani menu->Setting->System->General, you can go to the following interface. See Figure

4-68.



b) Click Add new holiday button, you can see an interface shown as in Figure 4-69. Here you can set holiday date name, repeat mode, start time/end time and etc.

Add New Holidays
Holiday Name
Repeat Mode 🛛 🔍 Once 🔿 All-Year
Holiday Range 🔍 Date 🔿 Week
Start Time 2013 - 11 - 08
End Time 2013 - 11 - 08
Add More
Save Add Cancel

Figure 4-69

- c) Click Add button to complete holiday setup. Now you can enable holiday setup and then click Apply button.
- d) From Main menu->setting->Storage->schedule, you can go to schedule interface. See Figure 4-70. Now you can set period and record type of holiday time. Please refer to chapter 4.8.2.1 for detailed setup information.

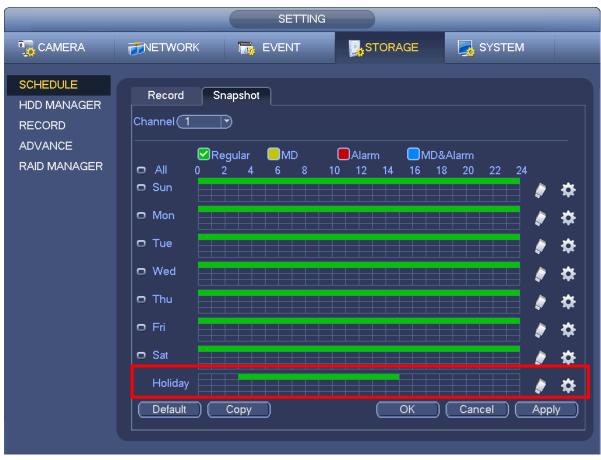


Figure 4-70

e) Click OK button to set holiday record setup.

4.8.6.2 Holiday Snapshot

Set Holiday date first. Please refer to step a) to step c) of chapter 4.8.6.1.

From Main menu->Setting->Storage->Schedule, you can go to schedule interface. See Figure 4-70. Click Holiday item to set snapshot period.

Set holiday snapshot type (Trigger/Regular). Please refer to chapter 4.8.2.2 or chapter 4.8.3.2.

4.8.7 Other Record/Snapshot

Motion detect&Alarm record or snapshot, please refer to chapter 4.8.4.

Video loss or tampering record or snapshot function, please refer to chapter 4.8.3.

4.9 Playback and Search

4.9.1 Real-time Playback

Please refer to chapter 4.6.2 for real-time playback information.

4.9.2 Search Interface

From Main menu->Search, or on the preview interface right click mouse and then select search item, you can go to the following interface. See Figure 4-71.

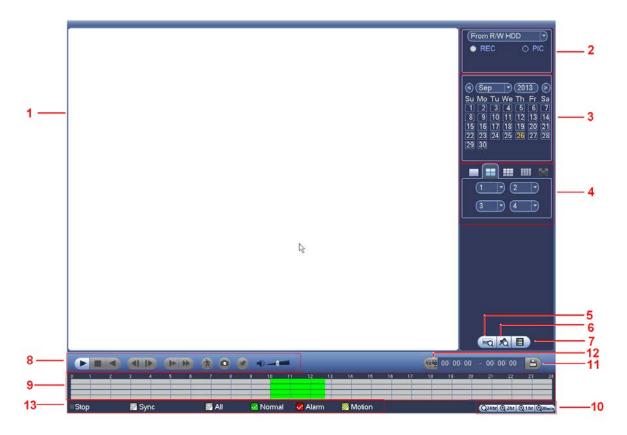


Figure 4-71

Please refer to the following sheet for more information.

SN	Name	Function
1	Display	Here is to display the searched picture or file.
1	window	 Support 1/4/9/16-window playback.
2	Search type	 Here you can select to search the picture or the recorded file. You can select to play from the read-write HDD, from peripheral device or from redundancy HDD. Before you select to play from the peripheral device, please connect the corresponding peripheral device. You can view all record files of the root directory of the peripheral device. Click the Browse button; you can select the file you want to play. Important Redundancy HDD does not support picture backup function, but it supports picture playback function. You can select to play from redundancy HDD if there are pictures on the redundancy HDD.
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	 Playback mode: 1/4/9/16. (It may vary due to different series.)

	mode	♦ In 1-window playback mode: you can select 1-X channels (X depends on the
	and	 In 1-window playback mode: you can select 1-X channels (X depends on the product channel amount).
	channel	 In 4-window playback mode: you can select 4 channels according to your
	selection	requirement.
	pane.	 ♦ In 9-window playback mode, you can switch between 1-8, 9-16 and etc
		channels.
		\diamond In 16-window playback mode, you can switch between1-16, 17-32 and etc
		channels.
		• The time bar will change once you modify the playback mode or the channel
		option.
		-
_	Card	The card number search interface is shown as below. Here you can view card
5	number	number/field setup bar. You cam implement advanced search. Current series
	search	product supports this function.
	Mark file	Click it to go to mark file list interface. You can view all mark information of current
6	list button	channel by time. Please refer to chapter 4.9.2.3 for detailed information.
		Please note only the product of this icon supports mark function.
		 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 ◀ and ▶ or the
		mouse to view the file. Select one item, and then double click the mouse or click the
		ENTER button to playback.
	File list	 You can input the period in the following interface to begin accurate search. File target Dependence and the Accurate search.
7	File list switch	• File type: R—regular record; A—external alarm record; M—Motion detect
'	button	record.
	button	00:00:00
		• Lock file. Click the file you want to lock and click the button Lock. The
		file you locked will not be overwritten.
		 Search locked file: Click the button to view the locked file.
		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 valid period of the time bar. Double click the item in the file list.
	Playback	In slow play mode, click it to switch between play/pause.
8	control	 Stop
	pane.	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 \blacktriangleright / II to restore normal play.
		In playback mode, click it to play the next or the previous section. You can
1		Click continuously when you are watching the files from the same channel.

	I	
		In normal play mode, when you pause current play, you can click 4 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.
		System supports custom snap picture saved path. Please connect the
		peripheral device first, click snap button on the full-screen mode, you can
		select or create path. Click Start button, the snapshot picture can be saved
		to the specified path.
		Mark button.
		Please note this function is for some series product only. Please make sure
		there is a mark button in the playback control pane.
		You can refer to chapter 4.9.2.3 for detailed information.
		• 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.
9	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
	- ·	zoom rate. You can accurately set the time in the time bar to playback the record.
10	Time bar	• The time bar is beginning with 0 o'clock when you are setting the configuration.
	unit	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. You can check from the
		list. Then click the backup button, now you can see the backup menu. System
		supports customized path setup. After select or create new folder, click the
11	Backup	Start button to begin the backup operation. The record file(s) will be saved in
		the specified folder.
		 Check the file again you can cancel current selection. System max supports to
<u> </u>	1	

		display 32 files from one channel.
		 After you clip on record file, click Backup button you can save it.
		 For one device, if there is a backup in process, you can not start a new backup operation.
		• It is to edit the file.
		•Please play the file you want to edit and then click this button when you want to edit. You can see the corresponding slide bars 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.
		 After you set, you can click Clip button again to edit the second period. You can see the slide bar restore its previous position.
12	Clip	 Click Backup button after clip, you can save current contents in a new file.
		• You can clip for one channel or multiple-channel. The multiple-channel click
		operation is similar with the one-channel operation.
		Please note:
		 System max supports 1024 files backup at the same time. You can not execute align execution if there is any file has been checked in
		• You can not operate clip operation if there is any file has been checked in the file list.
13	Record type	In any play mode, the time bar will change once you modify the search type.
		Other Functions
		 When system is playing, you can select a zone in the window to begin smart search. Click the motion detect button to begin play. Once the motion detect play has begun, click button again will terminate
		current motion detect file play.
14	Smart	There is no motion detect zone by default.
	search	 If you select to play other file in the file list, system switches to motion detect play of other file.
		• During the motion detect play process, you can not implement operations such as change time bar, begin backward playback or frame by frame playback.
		Please refer to chapter 4.9.2.1 Smart Search for detailed operation.
	Other channel synchroni	
15	zation switch to play	When playing the file, click the number button, system can switch to the same period of the corresponding channel to play.
	when playback	
16	Digital zoom	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.
17	Manually switch	During the file playback process, you can switch to other channel via the dropdown list or rolling the mouse.

channel	This function is null if there is no record file or system is in smart search process.
when	
playback	

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.

4.9.2.1 Smart Search

buttor

During the multiple-channel playback mode, double click one channel and then click the button, system begins smart search. System supports 396(22*18 PAL) and 330(22*15 NTSC) zones. Please left click mouse to select smart search zones. See Figure 4-72.

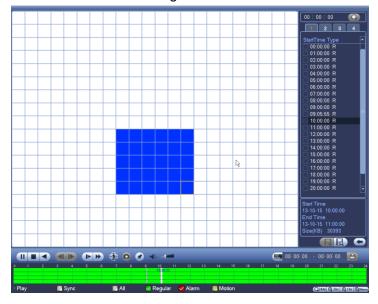


Figure 4-72

Click the , you can go to the smart search playback. Click it again, system stops smart search playback.

Important

- System does not support motion detect zone setup during the full-screen mode.
- During the multiple-channel playback, system stops playback of rest channels if you implement one-channel smart search.

4.9.2.2 Accurate playback by time

Select records from one day, click the list, you can go to the file list interface. You can input time at the top right corner to search records by time. See image on the left side of the Figure 4-73 For example, input

time 11:00.00 and then click Search button you can view all the record files after 11:00.00 (The records includes current time.). See image on the right side of the Figure 4-73 Double click a file name to playback.

Note

- After you searched files, system implement accurate playback once you click Play for the first time.
- System does not support accurate playback for picture.
- System supports synchronization playback and non-synchronous playback. The synchronization
 playback supports all channels and non-synchronous playback only supports accurately
 playback of current select channel.

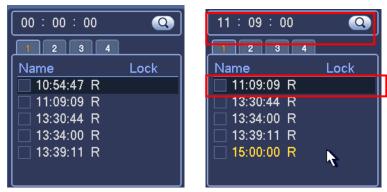


Figure 4-73

4.9.2.3 Mark Playback

Please make sure your purchased device support this function. You can use this function only if you can see the mark playback icon on the Search interface (Figure 4-71).

When you are playback record, you can mark the record when there is important information. After playback, you can use time or the mark key words to search corresponding record and then play. It is very easy for you to get the important video information.

Add Mark

When system is playback, click Mark button , you can go to the following interface. See Figure 4-74.





Playback Mark

During 1-window playback mode, click mark file list button in Figure 4-71, you can go to mark file list interface. Double click one mark file, you can begin playback from the mark time.

• Play before mark time

Here you can set to begin playback from previous N seconds of the mark time.

Note

Usually, system can playbacks previous N seconds record if there is such kind of record file. Otherwise, system playbacks from the previous X seconds when there is such as kind of record.

Mark Manager

Click the mark manager button on the Search interface (Figure 4-71); you can go to Mark Manager interface. See Figure 4-75. System can manage all the record mark information of current channel by default. You can view all mark information of current channel by time.

Marks Manager
Channel 1 Start Time 2013 - 09 - 27 00 : 00 : 00 End Time 2013 - 09 - 28 00 : 00 : 00 Search
1 CH Mark Time Mark Name 1 1 2013-09-27 10:00:12 report
•
Delete

Figure 4-75

Modify

Double click one mark information item, you can see system pops up a dialogue box for you to change mark information. You can only change mark name here.

Delete

Here you can check the mark information item you want to delete and then click Delete button, you can remove one mark item. .

Note

- After you go to the mark management interface, system needs to pause current playback. System resume playback after you exit mark management interface.
- If the mark file you want to playback has been removed, system begin playbacking from the first file in the list.

4.9.3 Picture Playback

- a) From Main menu->Search, or on the preview interface right click mouse, you can go to Figure 4-71.
- b) At the top right pane, you can check the box to select picture and then select playback interval.
- c) Please refer to chapter 4.9.2 to select picture you want to view.

4.10 Backup

4.10.1 File Backup

In this interface, you can backup record file to the USB device.

- a) Connect USB burner, USB device or portable HDD and etc to the device.
- b) From Main menu->Backup, you can go to the Backup interface. See Figure 4-76

BACKUP
Device Nan (sdc1(USB DISK))
0.00 KB(Space Needed) 13.78 GB/15.00 GB(Free/Total)
Type (All
End Time (2013 - 10 - 18 12 : 11 : 34) File Format (DAV) (Add) (Remove)
0 Channel Type Start Time End Time Size(KB)
(Start)

Figure 4-76

- c) Select backup device and then set channel, file start time and end time.
- d) Click add button, system begins search. All matched files are listed below. System automatically calculates the capacity needed and remained. See Figure 4-77.
- e) System only backup files with a $\sqrt{}$ before channel name. You can use Fn or cancel button to delete $\sqrt{}$ after file serial number.
- f) Click backup button, you can backup selected files. There is a process bar for you reference.
- g) When the system completes backup, you can see a dialogue box prompting successful backup.

Start Ti	me 🕔	2013 - 10 - 10	0 00:00:00) Record CH (1	\mathbb{P}		
End Ti	me 🕔	2013 - 10 - 1	8 12:11:34	File Format	$\overline{\mathbb{P}}$	Add	Remove
43	V Cł	nannel Type	Start Time	End Time	Size(KB)		
1	∠ 1	R	13-10-14 22:00:00	13-10-14 23:00:00	48176		
2	∠ 1	R	13-10-14 23:00:00	13-10-15 00:00:00	48037		
3	∠ 1	R	13-10-15 00:00:00	13-10-15 00:28:50	22528		
4	∠ 1	R	13-10-15 00:28:50	13-10-15 01:00:00	24668		
5	∠ 1	R	13-10-15 01:00:00	13-10-15 02:00:00	46815		
6	✓ 1	R	13-10-15 02:00:00	13-10-15 03:00:00	47802		
7	✓ 1	R	13-10-15 03:00:00	13-10-15 04:00:00	47566		
8	∠ 1	R	13-10-15 04:00:00	13-10-15 05:00:00	47468		
9	√ 1	R	13-10-15 05:00:00	13-10-15 06:00:00	47358		
10	✓ 1	R	13-10-15 06:00:00	13-10-15 07:00:00	47773		
11	✓ 1	R	13-10-15 07:00:00	13-10-15 08:00:00	47229		
12	✓ 1	R	13-10-15 08:00:00	13-10-15 09:00:00	47865		
13	✓ 1	R	13-10-15 09:00:00	13-10-15 09:03:02	2780		
14	7 1	D	12 10 15 00.05.55	12 10 15 00-57-22	10060		
							Start

Figure 4-77

h) Click backup button, system begins burning. At the same time, the backup button becomes stop button. You can view the remaining time and process bar at the left bottom.

Note

- During backup process, you can click ESC to exit current interface for other operation (For some series product only). The system will not terminate backup process.
- The file name format usually is: Channel number+Record type+Time. In the file name, the YDM format is Y+M+D+H+M+S. File extension name is .dav.

4.10.2 Import/Export

This function allows you to copy current system configuration to other devices. It also supports import, create new folder, and delete folder and etc function.

From Main menu->Setting->System->Import/Export, you can see the configuration file backup interface is shown as below. See Figure 4-78.

		SETTING			
CAMERA		EVENT	STORAGE	SYSTEM	
GENERAL DISPLAY RS232 PTZ ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPDATE	Device Name Total Space Address Name English English E email E 2013090 Camera	(sdc1(USB DISK)) 15.00 GB (D9 Format Import	Refresh Free Space		Type Folder Folder Folder Folder

Figure 4-78

- Export: Please connect the peripheral device first and then go to the following interface. Click Export button, you can see there is a corresponding "Config_Time" folder. Double click the folder, you can view some backup files.
- Import: Here you can import the configuration files from the peripheral device to current device. You
 need to select a folder first. You can see a dialogue box asking you to select a folder if you are
 selecting a file. System pops up a dialogue box if there is no configuration file under current folder.
 After successfully import, system needs to reboot to activate new setup.

• Format: Click Format button, system pops up a dialogue box for you to confirm current operation. System begins format process after you click the OK button.

Note:

- System can not open config backup interface again if there is backup operation in the process.
- System refreshes device when you go to the config backup every time and set current directory as the root directory of the peripheral device.
- If you go to the configuration backup interface first and then insert the peripheral device, please click Refresh button to see the newly added device.

4.10.3 Backup Log

a) From Main menu->Info->Log, the interface is shown as below. See Figure 4-79.

	INFO	
SYSTEM		
LOG		
	Start Time (2013 - 11 - 07 00 : 00 : 00)	
	End Time 2013 - 11 - 08 00 : 00 : 00	
	Types (All 🔻	Search
	19 Time Event	Play Details 🔺
	6 2013-11-07 18:01:01 Channel12 User logged in.	🗉
	7 2013-11-07 18:01:01 Channel 4 User logged in.	🗉 🗌
	8 2013-11-07 18:01:01 Channel 5 User logged in.	
	9 2013-11-07 18:01:01 Channel 6 User logged in.	🖽 🝙
	10 2013-11-07 18:01:01 Channel 7 User logged in.	🗉
	11 2013-11-07 18:01:01 Channel 8 User logged in.	
	12 2013-11-07 18:01:20 Channel 9 User logged in.	🗉
	13 2013-11-07 18:01:20 Channel13 User logged in.	🗉 📘
	14 2013-11-07 18:01:20 Channel 2 User logged in.	🖽 📕
	15 2013-11-07 18:01:20 Channel 3 User logged in.	🗉 📕
	16 2013-11-07 20:13:01 User logged in.<10.15.6.122>	🗉 📕
	17 2013-11-07 20:13:01 User logged in.<10.15.6.122>	🗉 📕
	18 2013-11-07 20:14:01 User logged out. <admin></admin>	
	19 2013-11-07 20:14:01 User logged out. <admin></admin>	🗉 🔽
	PgUp PgDn 1/1(Current Page/Total Page)	Go To 1 Page(s)
		Backup Clear

Figure 4-79

b) Select log type and then set start time/end time, click Search button, you can see log time and

event information. Click 🔲 to view detailed log information.

c) Select log items you want to save and then click backup button, you can select a folder to save them. Click Start to backup and you can see the corresponding dialogue box after the process is finish.

4.10.4 USB Device Auto Pop-up

After you inserted the USB device, system can auto detect it and pop up the following dialogue box. It allows you to conveniently backup file, log, configuration or update system. See Figure 4-80. Please refer to chapter 4.10.1 file backup, chapter 4.10.3 backup log, chapter 4.10.2 import/export, and chapter 4.9.2 search for detailed information.

		Find USB device
<u>-</u>		sdb1(USB DISK) 14.05 GB/15.00 GB(Free/Total)
	File Backup onfig Backup	Log Backup System Upgrade

Figure 4-80

4.11 Alarm

4.11.1 Detect Alarm

In the main menu, from Setting to Detect, you can see motion detect interface. See Figure 4-81. There are three detection types: motion detection, video loss, tampering.

4.11.1.1 Motion Detect

After analysis video, system can generate a motion detect alarm when the detected moving signal reached the sensitivity you set here.

Detection menu is shown as below. See Figure 4-81.

- Event type: From the dropdown list you can select motion detection type.
- Channel: Select a channel from the dropdown list to set motion detect function.
- Enable: Check the box here to enable motion detect function.
- Region: Click select button, the interface is shown as in Figure 4-82. Here you can set motion detection zone. There are four zones for you to set. Please select a zone first and then left drag the mouse to select a zone. The corresponding color zone displays different detection 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.
- 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 upload, email will not be activated again. After 10s, if system detects another alarm signal, it can generate an alarm since the anti-dither time is out.

- Period: Click set button, you can see an interface is shown as in Figure 4-84. Here you can set motion detect period. System only enables motion detect operation in the specified periods. It is not for video loss or the tampering. There are two ways for you to set periods. Please note system only supports 6 periods in one day.
- ♦ In Figure 4-84, Select icon of several dates, all checked items can be edited together. Now

the icon is shown as Click k to delete a record type from one period.

- ♦ In Figure 4-84. Click button after one date or a holiday, you can see an interface shown as in Figure 4-85. There are four record types: regular, motion detection (MD), Alarm, MD & alarm.
- Alarm output: when an alarm occurs, system enables peripheral alarm devices.
- Latch: when motion detection complete, system auto delays detecting for a specified time. The value ranges from 1-300(Unit: second)
- 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 an alarm occurs.
- Record channel: System auto activates motion detection channel(s) to record once an alarm occurs.
 Please make sure you have set MD record in Schedule interface(Main Menu->Setting->Schedule) and schedule record in manual record interface(Main Menu->Advanced->Manual Record)
- PTZ activation: Here you can set PTZ movement when an 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 4-83.
- Record Delay: System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
- Tour: Here you can enable tour function when alarm occurs. System one-window tour.
- Snapshot: You can enable this function to snapshoot image when a motion detect alarm occurs.
- Video matrix Check the box here to enable this function. When an alarm occurs, SPOT OUT port displays device video output. It displays video (1-window tour) from alarm activation channel you select at the Record channel item.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when 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 4-82, 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.

	SETTING
🗓 CAMERA	TINETWORK 🙀 EVENT
VIDEO DETECT ALARM ABNORMALITY ALARM OUT	Motion Detect Tampering Video Loss Channel 3 Enable Region Setup Sensitivity Period Setup Anti-dither 6 Setup Anti-dither Ø Anti-dither 5 Setup Anti-dither 5 Ø Setup Anti-dither Ø Setup Batch Ø Prove 12 Ø Delay 10 Ø Setup Delay Ø Tour 12 Ø S9 12 Ø S9 12 Ø S9 12
	Default Copy Save Cancel Apply

Figure 4-81



Figure 4-82

P	TZ Activation
Channel 1 None 🔻 0	Channel 2 None 🔻 🛈
Channel 3 None 🔻 0	Channel 4 None 🔹 🛈
Channel 5 None 🔻 0	Channel 6 None 🔻 🛈
Channel 7 (None 🔻 0	Channel 8 None 🔻 0
Channel 9 None 🔻 0	Channel 10 None 🔻 0
Channel 11 (None 🔻 0	Channel 12 None 🕤 🛈
Channel 13 None 🔻 0	Channel 14 None O
Channel 15 None 🔻 0	Channel 16 None 🔻 0
Channel 17 None 🔻 0	Channel 18 None 🔻 0
Channel 19 None 🔻 0	Channel 20 None 🔻 0
Channel 21 None 🔻 0	Channel 22 None 🔹 🛈
Channel 23 None 🔻 0	Channel 24 None 🔻 0
Channel 25 None 🔻 0	Channel 26 None 🔻 0
Channel 27 None 🔻 0	Channel 28 None 🔻 0
Channel 29 None 🔻 0	Channel 30 None 🔻 0
Channel 31 (None 🔻 0	Channel 32 None 🔻 0
	OK Cancel

Figure 4-83



Figure 4-84

Time Period
Current Date: Sun
Period 1 (00 : 00 - 24 : 00)
Period 2 (00 : 00 - 24 : 00)
Period 3 (00 : 00 - 24 : 00)
Period 4 (00 : 00 - 24 : 00)
Period 5 (00 : 00 - 24 : 00)
Period 6 (00 : 00 - 24 : 00)
 Copy
🗌 All 🛑 Sun 🗋 Mon 🗋 Tue 🗋 Wed 🗍 Thu 🗍 Fri 🗍 Sat
Save

Figure 4-85

Motion detect here only has relationship with the sensitivity and region setup. It has no relationship with other setups.

4.11.1.2 Tampering

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. Tampering interface is shown as in Figure 4-86. You can enable "Alarm output "or "Show message" function when tampering alarm occurs.

• Sensitivity: The value ranges from 1 to 6. It mainly concerns the brightness. The level 6 has the higher sensitivity than level 1. The default setup is 3.

Tips:

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

Please refer to chapter 4.11.1.1 motion detection for detailed information.

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 tampering mode.
- About Default function. Since detection channel and detection type may not be the same, system can only restore default setup of current detect type. For example, if you click Default button at the tampering interface, you can only restore default tampering setup. It is null for other detect types.
- System only enables tampering function during the period you set here. It is null for motion detect or video loss type.

	SETTING
📆 CAMERA	👘 NETWORK 📷 EVENT 💽 STORAGE 📑 SYSTEM
VIDEO DETECT ALARM ABNORMALITY ALARM OUT	Motion Detect Tampering Video Loss Channel 2 Enable Period Setup Alarm Out 123 Latch 10 Second Show Message Alarm Upload Send Email Precord Channel 123456789101121314 PTZ Activation Setup Delay 10 PTZ Activation Setup Delay 10 PTOur 123456789101121314 Snapshot 123456789101121314 Buzzer Buzzer Prove P
	Default Copy Save Cancel Apply

Figure 4-86

4.11.1.3 Video Loss

In Figure 4-81, select video loss from the type list. You can see the interface is shown as in Figure 4-87. This function allows you to be informed when video loss phenomenon occurred. You can enable alarm output channel and then enable show message function.

You can refer to chapter 4.11.1.1Motion detect for detailed information.

Tips:

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

CAMERA TNETWORK EVENT STORAGE SYSTEM
ALARM ABNORMALITY ALARM OUT Channel 2 Period Setup ALARM OUT Period Setup Alarm Out 123 Latch 10 Second Show Message Alarm Upload Send Email PC Activation Setup 10 Second PTZ Activation Setup PTZ Activation Setup Delay 10 Second Tour 12345678910112314 PBuzzer Default Copy Save Cancel Apply

Figure 4-87

4.11.2 Alarm output

From Main menu->Setting->Event->Alarm output, you can see an interface shown as in Figure 4-88. Here is for you to set proper alarm output (Auto/manual/stop).

Click OK button of the alarm reset, you can clear all alarm output status.

		SETTING		
🌀 CAMERA		EVENT	STORAGE	SYSTEM
VIDEO DETECT				
ALARM	Alarm Out	All 1 2 3		
ABNORMALITY	Auto	0 • • •		
ALARM OUT	Manual	0 0 0 0		
	Stop	0 0 0 0		
	Status			
	Alarm Release	Save	OK	Cancel Apply

Figure 4-88

Please highlight icon 📕 to select the corresponding alarm output.

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

4.11.3 Alarm Setup

In the main menu, from Setting->Event->Alarm, you can see alarm setup interface.

• Alarm in: Here is for you to select channel number.

In the main menu, from Setting->Event->Alarm, you can see alarm setup interface. See Figure 4-89. There are four alarm types. See Figure 4-89 to Figure 4-92.

- ♦ Local alarm: The alarm signal system detects from the alarm input port.
- ♦ Network 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 HNVR.
- IPC offline alarm: Once you select this item, system can generate an alarm when the front-end IPC disconnects with the local HNVR. The alarm can activate record, PTZ, snap and etc. The alarm can last until the IPC and the HNVR connection resumes.

Important

- If it is your first time to boot up the device, the disconnection status of the front-end network camera will not be regarded as offline. After one successfully connection, all the disconnection events will be regarded as IPC offline event.
- When IPC offline alarm occurs, the record and snapshot function of digital channel is null.
- Enable: Please you need to highlight this button to enable current function.
- Type: normal open or normal close.
- Period: Click set button, you can see an interface is shown as in Figure 4-94. There are two ways for you to set periods. There are max 6 periods in one day. There are four record types: regular, motion detection (MD), Alarm, MD & alarm.
 - \diamond In Figure 4-94, Select icon \blacksquare of several dates, all checked items can be edited together.

Now the icon is shown as . Click to delete a record type from one period.

- In Figure 4-94. Click button after one date or a holiday, you can see an interface shown as in Figure 4-95. There are four record types: regular, motion detection (MD), Alarm, MD & alarm.
- PTZ activation: When an alarm occurred, system can activate the PTZ operation. The PTZ activation lasts an anti-dither period. See Figure 4-93.
- 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 upload, email will not be activated again. After 10s, if system detects another 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 an alarm occurs. System supports 1/8-window tour. Please go to chapter4.6.4.2 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.
- Snapshot: You can enable this function to snapshoot image when an alarm occurs.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when an alarm occurs.

	SETTING
N CAMERA	TINETWORK 🙀 EVENT SYSTEM
VIDEO DETECT ALARM ABNORMALITY ALARM OUT	IPC Ext Alarm IPC Offline Alarm Local Alarm Net Alarm Channel 13 • Enable I Type Normal Open •
	Period Setup Anti-dither 5 Second Alarm Out 123 Latch 10 Second Show Message Alarm Upload Send Email Record Channel 123456789101121814
	PTZ Activation Setup Delay 10 Ind Tour 123456789101121314 Snapshot 123456789101121314 Buzzer
	Default Copy Save Cancel Apply

Figure 4-89

	SETTING
👼 CAMERA	TRETWORK
VIDEO DETECT ALARM ABNORMALITY ALARM OUT	IPC Ext Alarm IPC Offline Alarm Local Alarm Net Alarm Channel 1 Channel
	Alarm Out 123 Latch 10 Second Show Message Alarm Upload Send Email Record Channel 123456789101121314
	PTZ Activation Setup Delay 10 Second Image: Constraint of the second of t
	Default Copy Save Cancel Apply

Figure 4-90

	SETTING
🚡 CAMERA	👘NETWORK 🙀 EVENT SYSTEM
VIDEO DETECT ALARM ABNORMALITY ALARM OUT	IPC Ext Alarm IPC Offline Alarm Local Alarm Net Alarm Alarm In 1 Enable Type Normal Open Alarm Alias
	Period Setup Anti-dither 5 Second Alarm Out 123 Latch 10 Second Show Message Alarm Upload Send Email Record Channel 123456789101121314
	 ✓PTZ Activation Setup Delay 10 Second ✓Tour 123456789101121314 ✓Snapshot 123456789101121314 ✓Buzzer
	Default Copy Save Cancel Apply

Figure 4-91

	SETTING
📆 CAMERA	📬NETWORK 🙀 EVENT 🔤 STORAGE 📑 SYSTEM
VIDEO DETECT ALARM ABNORMALITY ALARM OUT	IPC Ext Alarm IPC Offline Alarm Alarm In 1 Alarm Alias Period Setup Alarm Out 12/3 Latch 10 Show Message Alarm Upload Send Email Record Channel 12/3/4
	 ✓PTZ Activation Setup Delay 10 mod ✓Tour 123456789101121314 ✓Snapshot 123456789101121314 ✓Buzzer
	Default Copy Save Cancel Apply

Figure 4-92

		PTZ Activation		_	
Ob ann al 1			Change 10		
	(None) (0		Channel 2	(None 🔻	
Channel 3	None 🔻 🔍)	Channel 4	(None 🔽	0
Channel 5	(None 🔻 🔍 🛈	\supset	Channel 6	(None 🔽	0
Channel 7	(None 🔽 🔍 🛈		Channel 8	None 🔽	0
Channel 9	(None 🔻 🔍 🛈		Channel 10	None	0
Channel 11	(None 🔻 🛛		Channel 12	None	0
Channel 13	(None) (0		Channel 14	(None 🔻	0
Channel 15	(None 🔻 0		Channel 16	None	0
Channel 17	(None 🔻 🔍		Channel 18	(None 🔻	0
Channel 19	(None 🔻 🔍		Channel 20	None	0
Channel 21	(None 🔻 🔍 🛈		Channel 22	(None 🔻	0
Channel 23	(None 🔻 🔍		Channel 24	(None 🔻	0
Channel 25	(None 🔻 🔍 🛈		Channel 26	(None 🔻	0
Channel 27	(None) (0		Channel 28	(None 🔻	0
Channel 29	(None) (0		Channel 30	(None 🔻	0
Channel 31	(None 🔻 0		Channel 32	(None)	0
				ОК	Cancel
				SR	Carloor

Figure 4-93



Figure 4-94

	Time Period
Current Date: Sun	
Period 1 (00 : 00 - 24 : 00)	8
Period 2 00 :00 - 24: 00	
Period 3 00 : 00 - 24 : 00	
Period 4 00 : 00 - 24 : 00	
Period 5 00 : 00 - 24 : 00	
Period 6 (00 : 00 - 24 : 00)	
 Copy	
All Sun 🗌 Mon 🗌] Tue 🔲 Wed 🔲 Thu 💭 Fri 🔲 Sat
	Save
	Save

Figure 4-95

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

4.11.4 Abnormality

There are two types: Disk/Network.

- ♦ Disk: Disk error, no disk, no space. See Figure 4-96 and Figure 4-97.
- ♦ Network: Disconnection, IP conflict, MAC conflict. See Figure 4-98.
- Alarm output: Please select alarm activation output port (multiple choices).
- Less than: System can alarm you when the HDD space is less than the threshold you set here (For HDD no space type only).
- Latch: Here you can set corresponding delaying time. The value ranges from 1s-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. For disconnection event, IP conflict event and MAC conflict event, this function is null.
- 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 an alarm occurs.



Figure 4-96

SETTING						
🇓 CAMERA		EVENT	STORAGE	SYSTEM		
DETECT	HDD	Network				
ABNORMALITY	Event Type	HDD No Spac				
ALARM OUTPUT	Enable					
	Less Than	(20				
	Alarm Out	123456	Latch (10)s		
	Show Message	e 🔽 Alarm Upload				
	Buzzer					
			Save	Cancel Apply		

Figure 4-97

		SETTING		
🇓 CAMERA		To EVENT	STORAGE	SYSTEM
DETECT	HDD	Network		
ABNORMALITY ALARM OUTPUT	Event Type Enable	(Net Disconne)		
	Alarm Out	123456	Latch (10	s
	Show Messag		Send Email	3466 >
	Buzzer		Delay (10	s
			Save	Cancel Apply

Figure 4-98

4.12 Network

4.12.1.1 TCP/IP

The single network adapter interface is shown as in Figure 4-99 and the dual network adapters interface is shown as in Figure 4-100.

- Network Mode : Includes multiple access, fault tolerance, and load balancing
 - Multiple-address mode: eth0 and eth1 operate separately. You can use the services such as HTTP, RTP service via eth00 or the eth1. Usually you need to set one default card (default setup is etho) to request the auto network service form the device-end such as DHCP, email, FTP and etc. In multiple-address mode, system network status is shown as offline once one card is offline.
 - Network fault-tolerance: In this mode, device uses bond0 to communicate with the external devices. You can focus on one host IP address. At the same time, you need to set one master card. Usually there is only one running card (master card).System can enable alternate card when the master card is malfunction. The system is shown as offline once these two cards are both offline. Please note these two cards shall be in the same LAN.
 - ♦ Load balance: In this mode, device uses bond0 to communicate with the external device. The eth0 and eth1 are both working now and bearing the network load. Their network load are general the same. The system is shown as offline once these two cards are both offline. Please note these two cards shall be in the same LAN.
- Default Network Card: Please select eth0/eth1/bond0(optional) after enable multiple-access function
- Main Network Card: Please select eth0/eth1 (optional).after enable multiple access function.

Note: The dual-Ethernet port series support the above three configurations and supports functions as multiple-access, fault-tolerance and load balancing.

- 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.
- 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.
- MTU: It is to set MTU value of the network adapter. The value ranges from 1280-7200 bytes. The default setup is 1500 bytes. Please note MTU modification may result in network adapter reboot and network becomes off. That is to say, MTU modification can affect current network service. System may pop up dialog box for you to confirm setup when you want to change MTU setup. Click OK button to confirm current reboot, or you can click Cancel button to terminate current modification. Before the modification, you can check the MTU of the gateway; the MTU of the NVR shall be the same as or is lower than the MTU of the gateway. In this way, you can reduce packets and enhance network transmission efficiency.

The following MTU value is for reference only.

- ♦ 1500: Ethernet information packet max value and it is also the default value. It is the typical setup when there is no PPPoE or VPN. It is the default setup of some router, switch or the network adapter.
- ♦ 1492: Recommend value for PPPoE.
- ♦ 1468: Recommend value for DHCP.
- 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.
- 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.

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

Setup						
🗓 CAMERA	TWORK	To EVENT	STORAGE	SYSTEM		
TCP/IP CONNECTION WIFI 3G PPPOE DDNS UPNP IP FILTER EMAIL FTP SNMP MULTICAST ALARM CENTER AUTO REGISTER P2P SETTING EASY SPACE SWITCH	MTU IP Version MAC Address IP Address Subnet Mask Default Gateway Preferred DNS Alternate DNS	(1500 LAN Download 1Pv4 ▼ 90:02:A9:B9:5B:E0 10 . 15 . 6 . 255 . 255 . 0 . 10 . 15 . 0 . 8 . 8 . 8 . 8 . 8 . 4 .		P		
	Default		Save	Cancel Apply		

Figure 4-99

		SETTING		
📆 CAMERA		👼 EVENT 🛛 🔀 S	STORAGE 🔤 SYSTEM	
TCP/IP CONNECTION WIFI 3G PPPOE DDNS UPNP IP FILTER EMAIL FTP SNMP MULTICAST ALARM CENTER AUTO REGISTER P2P SETTING EASY SPACE SWITCH	Net Mode Ethernet Card MAC Address Mode IP Address Subnet Mask Default Gateway Preferred DNS Alternate DNS MTU	(Multi-address) Default Ether (Ethernet1) IP Version (20:13:10:13:16:33) STATIC O DHCP 10 15 6 145 (255 255 0 0 10 15 0 1 10 1 2 80 10 1 2 81 (1500) LAN Download 1 1	rnet Port Ethernet1 • IPv4 • Save Cancel	Apply

Figure 4-100

4.12.1.2 Connection

The connection setup interface is shown as in Figure 4-101.

- Max connection: system support maximal 128 users. 0 means there is no connection limit.
- TCP port: Default value is 37777.

- UDP port: Default value is 37778.
- HTTP port: Default value is 80.
- HTTPS port: Default value is 443.
- 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.

		Setu	p		
🗓 CAMERA		📆 EVENT	STORAGE	SYSTEM	
TCP/IP CONNECTION WIFI 3G PPPOE DDNS UPNP IP FILTER EMAIL FTP SNMP MULTICAST ALARM CENTER AUTO REGISTER P2P SETTING EASY SPACE SWITCH	Max Connection TCP Port UDP Port HTTP Port HTTPS Port RTSP Port	128 37777 37778 80 443 554) (0~128)) (1025~65535)) (1025~65535)) (1~65535)) (128~65535)) (128~65535)		
	Default		OK	Cancel Ap	ply

Figure 4-101

4.12.1.3 WIFI AP

Note

This function is for some series product only.

The WIFI AP interface is shown as below. See Figure 4-102. Here you can set WIFI hotspot, so that the network camera can use the hotspot to connect to the network.

- SSID: It is to set SSID name. You can use this name to search the device.
- Password: It is to set SSID password. You can use this password to connect to the network.
- Authentication mode: Select authentication from the dropdown list.
- Encrypt type: Select encryption type from the dropdown list.
- Start IP/End IP: Input start IP and end IP. The NVR can allocate the IP address in the range you specified here.
- WPS: Click WPS button to enable WPS function. After the network camera enabled this function, it can automatically connect to the network.
- Remote device: In the list, you can view the network camera(s) that connected to the NVR. It includes signal intensity, IP, MAC address, bit rate, channel number, type, status and etc.

	Setup
📆 CAMERA	TINETWORK 🔯 EVENT STORAGE SYSTEM
TCP/IP CONNECTION WIFI AP PPPOE DDNS UPNP IP FILTER EMAIL FTP	Basic SSID nvrap Password 147258369 Authorization Mode WPA2-PSK Encrypt Typ AES Start IP 11.1.1.00 End IP 11.1.1.200 Wireless IP 11.1.1.2 WPS WPS WPS REMOTE
SNMP MULTICAST ALARM CENTER AUTO REGISTER P2P SETTING EASY SPACE	0 Signal Intensity IP Address MAC Address Bit Size Chann

Figure 4-102

4.12.1.4 WIFI

The WIFI interface is shown as below. See Figure 4-103.

- Enable: Check the box here to enable WIFI function.
- 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.

	Setup
N CAMERA	TINETWORK To EVENT
TCP/IP CONNECTION	Enable
WIFI	0 SSID Signal Intensity WIFI Working Info
3G PPPOE	Current Hotspot No Connection
DDNS	IP Address
UPNP	Subnet Mask
IP FILTER	
EMAIL	Default Gateway
FTP	
SNMP	
MULTICAST	
ALARM CENTER	
AUTO REGISTER	
P2P SETTING	
EASY SPACE	
SWITCH	
	Refresh Connect OK Cancel Apply

Figure 4-103

• 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. Right now system support TOTOLINK_N2200UP module.

4.12.1.5 3G

3G setup interface is shown as below. See Figure 4-104.

Please refer to the following contents for the parameter information.

- Pane 1: Display 3G signal intensity after you enabled 3G function.
- Pane 2: Display 3G module configuration information after you enabled 3G function.
- Pane 3: Display 3G module status information after you enabled 3G function.

It is to display current wireless network signal intensity such as EVDO, CDMA1x, WCDMA, WCDMA, EDGE and etc.

- 3G module: It is to display current wireless network adapter name.
- 3G Enable/Disable: Check the box here to enable 3G module.
- Network type: There are various network types for different 3G network modules. You can select according to your requirements.

- APN: It is the wireless connection server. It is to set you access the wireless network via which method.
- AUTH: It is the authentication mode. It supports PAP/CHAP.
- Dial number: Please input 3G network dialup number you got from your ISP.
- User name: It is the user name for you to login the 3G network.
- Password: It is the password for you to login the 3G network.
- Pulse interval: You can set dialup duration. Once you disable the extra stream, the connection time begins. For example, if you input 5 seconds here, then 3G network connection period is 5 seconds. The device automatically disconnect when time is up. If there is no extra stream, 3G network connection is valid all the time. If the alive time is 0, then the 3G network connection is valid all the time.
- Dial: Here you can enable or disable 3G network connection/disconnection manually.
- 3G wireless network: Here is to display wireless network status, SIM card status, dial status. If the 3G connection is OK, then you can see the device IP address the wireless network automatically allocates.

		Setup				
🗓 CAMERA		T EVENT	STORAGE	SYSTEM		
TCP/IP	Enable					
WIFI 3G	Signal Intensity	No signal				1
PPPOE	3G Network (twork Type(NOSER\			
DDNS	APN					
UPNP	AUTH (NO_AUTH				
IP FILTER	Dial No.					
EMAIL	User Name (Pa:	ssword			2
FTP	Pulse Interval (0sec.		Dial		
SNMP	3G Wireless Net				_	
MULTICAST	Module State -		Address -			
ALARM CENTER AUTO REGISTER	SIM State - PPP State -		bnet Mask - fault Gateway -			3
P2P SETTING	TTT Oldie		addi dalowdy			
EASY SPACE						
SWITCH						
	()		(ОК) (Cancel) (Ap		

Figure 4-104

4.12.1.6 PPPoE

PPPoE interface is shown as in Figure 4-105.

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.

Setup						
📆 CAMERA	TWORK	To EVENT	STORAGE	SYSTEM		
TCP/IP CONNECTION	Enable					
WIFI	User Name (
3G	Password ()			
PPPOE	IP Address () . 0 . 0 . 0	5			
DDNS).0.0.0	5			
UPNP						
IP FILTER						
EMAIL						
FTP						
SNMP						
MULTICAST						
ALARM CENTER						
AUTO REGISTER						
P2P SETTING						
EASY SPACE						
SWITCH						
	Default		ОК	Cancel Apply		

Figure 4-105

4.12.1.7 DDNS Setup

DDNS setup interface is shown as in Figure 4-106.

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. And 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 as below:

http: //(DDNS server IP)/(virtual directory name)/webtest.htm

e.g.: http: //10.6.2.85/NVR _DDNS/webtest.htm.)

Now you can open DDNSServer web search page.

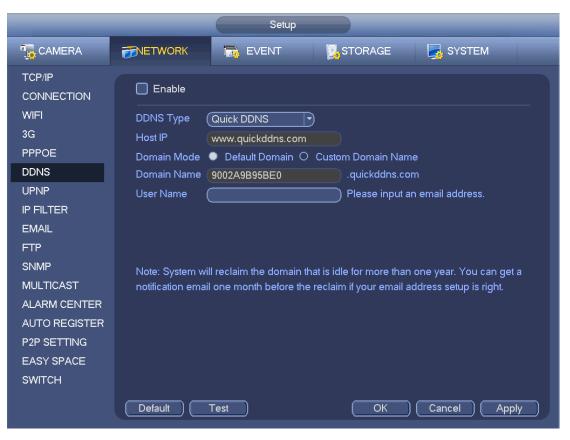


Figure 4-106

Please note DDNS type includes: CN99 DDNS, NO-IP DDNS, Quick DDNS, Dyndns DDNS and sysdns 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).

Quick 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 Quick DDNS works with the device from the manufacturer so that it can add the extension function.

2) Function Introduction

The quick 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 Quick DDNS, you need to enable this service and set proper server address, port value and domain name.

- Server address: www.quickddns.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.

4.12.1.8 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 4-99. See Figure 4-107.

- 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.
- 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 4-108.

Important:

When you are setting the router external port, please use 1024~5000 port. Do not use well-known port 1~255 and the system port 256~1023 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.

		Setup			
No. CAMERA	TWORK	D EVENT	STORAGE	SYSTEM	
TCP/IP CONNECTION WIFI 3G PPPOE DDNS	Enable Status Disable LAN IP 0 · 0 WAN IP 0 · 0 Port Mapping List				
UPNP IP FILTER EMAIL FTP SNMP MULTICAST ALARM CENTER AUTO REGISTER P2P SETTING EASY SPACE	7 ✓ Service 1 ✓ HTTP 2 ✓ TCP 3 ✓ UDP 4 ✓ RTSP 5 ✓ RTSP 6 ✓ SNMP 7 ✓ HTTPS	Name Protocol TCP TCP UDP UDP TCP UDP TCP TCP	Internal Port 80 37777 37778 554 554 554 161 443	External Port 80 37777 37778 554 554 554 161 443	
SWITCH	Add De Default	elete	ОК) Cancel A	pply

Figure 4-107

PORT INFO	
Service Name HTTP Protocol TCP Internal Port 80 External Port 80	
OK Can	icel

Figure 4-108

4.12.1.9 IP Filter

IP filter interface is shown as in Figure 4-109. You can add IP in the following list. The list supports max 64 IP addresses. System supports valid address of IPv4 and IPv6. Please note system needs to check the validity of all IPv6 addresses and implement optimization.

After you enabled trusted sites function, only the IP listed below can access current NVR.

If you enable blocked sites function, the following listed IP addresses can not access current NVR.

• Enable: Highlight the box here, you can check the trusted site function and blocked sites function. You can not see these two modes if the Enable button is grey.

- Type: You can select trusted site and blacklist from the dropdown list. You can view the IP address on the following column.
- Start address/end address: Select one type from the dropdown list, you can input IP address in the start address and end address. Now you can click Add IP address or Add IP section to add.
 - a) For the newly added IP address, it is in enable status by default. Remove the $\sqrt{}$ before the item, and then current item is not in the list.
 - b) System max supports 64 items.
 - c) Address column supports IPv4 or IPv6 format. If it is IPv6 address, system can optimize it. For example, system can optimize aa:0000: 00: 00aa: 00aa: 00aa: 00aa: 00aa as aa:: aa: aa: aa: aa: aa: aa: aa.
 - d) System automatically removes space if there is any space before or after the newly added IP address.
 - e) System only checks start address if you add IP address. System check start address and end address if you add IP section and the end address shall be larger than the start address.
 - f) System may check newly added IP address exists or not. System does not add if input IP address does not exist.
- Delete: Click it to remove specified item.
- Edit: Click it to edit start address and end address. See Figure 4-110. System can check the IP address validity after the edit operation and implement IPv6 optimization.
- Default: Click it to restore default setup. In this case, the trusted sites and blocked sites are both null. **Note:**
- If you enabled trusted sites, only the IP in the trusted sites list can access the device.
- If you enabled blocked sites, the IP in the blocked sites can not access the device.
- System supports add MAC address.

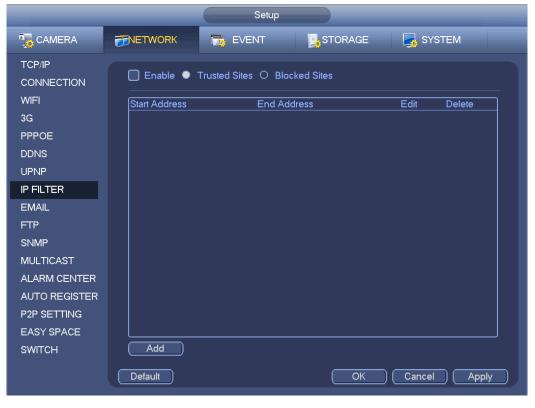


Figure 4-109

Edit
Start Address 10.15.6.140 123 End Address 10.15.6.145
OK Cancel

Figure 4-110

4.12.1.10 Email

The email interface is shown as below. See Figure 4-111.

- 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. System automatically filters same addresses if you input one receiver repeatedly.
- 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.

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.

Setup					
📆 CAMERA	TRANSPORT SYSTEM				
TCP/IP CONNECTION					
WIFI	SMTP Server MailServer Port 25				
3G	Anonymous				
PPPOE	User Name Password				
DDNS					
UPNP	Receiver				
IP FILTER	Sender				
EMAIL	Subject (NVR ALERT Attachment				
FTP	Encrypt Type (NONE				
SNMP	Interval (120)sec.				
MULTICAST	Health Enable				
ALARM CENTER	Interval 60 min.				
AUTO REGISTER	Test				
P2P SETTING					
EASY SPACE					
SWITCH					
	Default OK Cancel Apply				

Figure 4-111

4.12.1.11 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 4-112.

Serv-U Administrator - << Local Server >> File Edit User View Window Help	
X R Count Serv-U Servers C License Settings Activity C Settings Activity C Settings Activity C Settings Activity C Settings C Activity C Settings Activity C Settings C Activity C Settings C Activity C Settings Activity C Settings C Activity C Settings C Setings C Settings C Settings Settings C Settings C Se	✓ General Dir Access IP Access UL/DL Rati Access Group RwAD-LCRI Files ✓ Write ✓ Append ✓ Delete ✓ List ✓ Create ✓ Remove ✓ Treate ✓ Inherit Delete Edit
< <local server="">> [System Administrator] Down: 0.000</local>	0 kBps / Up: 0.000 kBps 3 of 32767 Sockets 0 (0) Users 0 Xfers //

Figure 4-112

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 4-113.

*	To log on to th	nis FTP server, type a user name and password.
¥	FTP server:	10.10.7.7
	<u>U</u> ser name:	
	Password:	
	After you log	on, you can add this server to your Favorites and return to it easily.
	Log on and	nymousty

Figure 4-113

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

FTP interface is shown as in Figure 4-114.

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.

	Setup
n CAMERA	TINETWORK THE EVENT STORAGE SYSTEM
TCP/IP CONNECTION WIFI 3G PPPOE DDNS UPNP IP FILTER	Enable Host IP 0 · 0 · 0 · 0 Port 21 User Name Password Anonymous Remote Directory File Length 0 M Image Upload Interval 2 sec.
EMAIL FTP SNMP MULTICAST ALARM CENTER AUTO REGISTER P2P SETTING EASY SPACE SWITCH	Channel 1 Weekday Fri Time Period 1 00 : 00 - 24 : 00 Time Period 2 00 : 00 - 24 : 00 Test
	Default OK Cancel Apply

Figure 4-114

4.12.1.12 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 4-115.

		Setup		
🗓 CAMERA	TWORK	To EVENT	STORAGE	SYSTEM
TCP/IP CONNECTION	Enable			
WIFI	Version	✓ V1 ✓ V2		
3G PPPOE	SNMP Port Read Community	(161 / (public)		
DDNS	Write Community			
UPNP	Trap Address	(192.168.0.1		
	Trap Port	(162		
EMAIL				
FTP				
SNMP				
MULTICAST				
ALARM CENTER				
AUTO REGISTER				
P2P SETTING				
EASY SPACE				
SWITCH				
	Default		ОК	Cancel Apply



Please enable the SNMP function. Use the corresponding software tool (MIB Builder and MG-SOFT MIB Browser. You still need two MIB file: BASE-SNMP-MIB, 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 4-115, 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.

Note

Port conflict occurs when SNMP port and Trap port are the same.

4.12.1.13 Multicast

Multicast setup interface is shown as in Figure 4-116.

		Setup		
📆 CAMERA		Tage EVENT	STORAGE	SYSTEM
CAMERA TCP/IP CONNECTION WIFI 3G PPPOE DDNS UPNP IP FILTER EMAIL FTP SNMP MULTICAST ALARM CENTER AUTO REGISTER	Enable) . <u>255 .</u> 42 . 42		SYSTEM
P2P SETTING EASY SPACE				
SWITCH				
	Default		ОК	Cancel Apply

Figure 4-116

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.

4.12.1.14 Alarm Centre

This interface is reserved for you to develop. See Figure 4-117.

		Setup			
S CAMERA	TWORK	EVENT	STORAGE	SYSTEM	
TCP/IP CONNECTION	Enable				
WIFI	Protocol Type 🥢	ALARM CENTER 🛛 🕞)		
3G	Host IP	10 . 1 . 0 . 2)		
PPPOE	Port (1			
DDNS	Self-report Time				
UPNP	(Everyday	T at (08:00	•		
IP FILTER			-		
EMAIL					
FTP					
SNMP					
MULTICAST					
ALARM CENTER					
AUTO REGISTER					
P2P SETTING					
EASY SPACE					
SWITCH					
	Default		ОК	Cancel App	ly

Figure 4-117

4.12.1.15 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 4-118.

Important

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

		Setup		
CAMERA	TNETWORK	To EVENT	STORAGE	SYSTEM
TCP/IP CONNECTION	Enable			
WIFI	No.	(1)		
3G	Host IP	(0.0.0.0		
PPPOE	Port	(8000)		
DDNS	Sub-device ID	0		
UPNP				
IP FILTER				
EMAIL				
FTP				
SNMP				
MULTICAST				
ALARM CENTER				
AUTO REGISTER				
P2P SETTING				
EASY SPACE				
SWITCH				
	Default		ОК	Cancel Apply

Figure 4-118

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 4-118. 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.

4.12.1.16 P2P

The P2P interface is shown as in Figure 4-119.

You can visit www.easy4ip.com to scan the QR code to login.

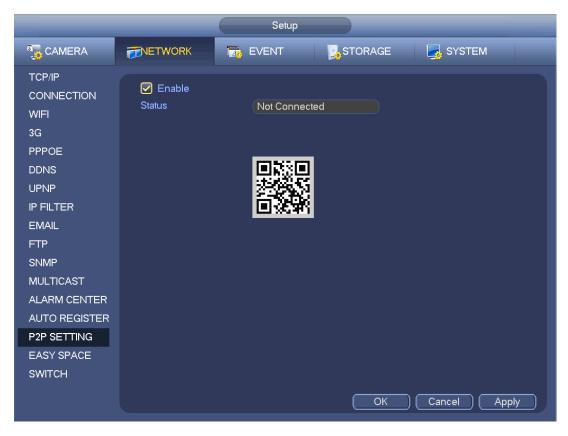


Figure 4-119

4.12.1.17 Easy Space

This function allows you to upload motion detec record or snapshot image to the dropbox and etc.

The easy space interface is shown as below. See Figure 4-120.

Please select the easy space address from the dropdown list and then input corresponding user name and password.

	_	Setup		
N CAMERA		To EVENT	STORAGE	SYSTEM
TCP/IP CONNECTION WIFI 3G PPPOE DDNS UPNP IP FILTER EMAIL FTP SNMP MULTICAST ALARM CENTER AUTO REGISTER P2P SETTING EASY SPACE		ropbox	Test	
SWITCH	Default		ОК	Cancel Apply

Figure 4-120

Note:

- The uploaded file is for sub stream only. Please go to record control interface (main stream->setting->Storage->Record) and then select sub stream.
- The easy space function uses upload bandwidth. Usually the recommended upload bandwidth shall be more than 512kbps and please make sure the network is stable.
- The easy space upload data adopts safe SSL encryption connection. Please enable 1-channel to upload in case this function occupies too much CPU.

4.12.1.18 SWITCH

It is for you to set IP address, subnet mask, gateway and etc of the Switch. See Figure 4-121.

		Setup		
N CAMERA		To EVENT	STORAGE	SYSTEM
TCP/IP CONNECTION WIFI 3G PPPOE DDNS UPNP IP FILTER EMAIL FTP SNMP MULTICAST ALARM CENTER AUTO REGISTER P2P SETTING EASY SPACE SWITCH	IP Address Subnet Mask Default Gateway	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0	
	Default		ОК	Cancel Apply



4.12.2 Network Test

In this interface, you can see network test and network load information.

4.12.2.1 Network Test

From main menu->Info-Network->Test, the network test interface is shown as in Figure 4-122.

- Destination IP: Please input valid IPV4 address and domain name.
- Test: Click it to test the connection with the destination IP address. The test results can display average delay and packet loss rate and you can also view the network status as OK, bad, no connection and etc.
- Network Sniffer backup: Please insert USB2.0 device and click the Refresh button, you can view the device on the following column. You can use the dropdown list to select peripheral device. Click Browse button to select the snap path. The steps here are same as preview backup operation.

You can view all connected network adapter names (including Ethernet, PPPoE, WIFI, and 3G), you can

click the button **I** on the right panel to begin Sniffer. Click the grey stop button to stop. Please note system can not Sniffer several network adapters at the same time.

After Sniffer began, you can exit to implement corresponding network operation such as login WEB,

monitor. Please go back to Sniffer interface to click 🔲 stop Sniffer. System can save the packets to the

specified path. The file is named after "Network adapter name+time". You can use software such as Wireshark to open the packets on the PC for the professional engineer to solve complicated problems.

	INFO	
SYSTEM		
ONLINE USERS LOAD TEST	TEST Destination IP (
	Network Sniffer Packet Backup Device Name (sdc1(USB DISK) Refresh Address / Browse	
	Name IP Sniffer Packet Size Sniffer Packet Backup	

Figure 4-122

4.12.2.2 Network Load

From main menu->Info-Network->Load, network load is shown as in Figure 4-123. Here you can view the follow statistics of the device network adapter.

Here you can view information of all connected network adapters. The connection status is shown as offline if connection is disconnected. Click one network adapter, you can view the flow statistics such as send rate and receive rate at the top panel

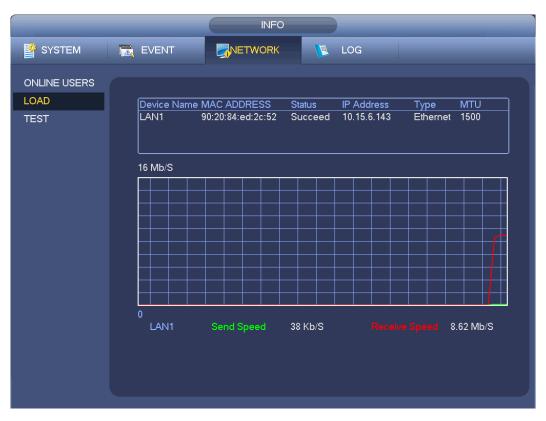


Figure 4-123

4.13 HDD Setup

Here you can view HDD information such as type, status, total capacity, record time and etc. The operation includes format, resume from error, change HDD property (Read write, Read-only). Here you can also set alarm and HDD storage position.

4.13.1 Format

a) From Mani-menu->Setting->Storage->HDD Manager, you can go to HDD management interface. See Figure 4-124.

		SETTIN	G		
🗓 CAMERA		To EVENT	STORAGE	E 🛃 SYSTEM	
SCHEDULE HDD MANAGER RECORD ADVANCE RAID MANAGER	SATA 1 2 O - Device Name SATA-1	<u>Type</u> Read-w ▼	Status Free Normal 0.00	e Space/Total Space MB/232.79 GB	
	Refresh	Format			
				OK) (Cancel) (Apply

Figure 4-124

b)Select a HDD and then select format from the dropdown list. Click Execute button.

c) Click OK button to complete the setup. You can see system needs to restart to activate current setup.

4.13.2 HDD Information

Here is to list hard disk type, total space, free space, and status. See Figure 4-125.

 \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.

	INFO
SYSTEM	
HDD	
RECORD	1* Device Name Type Free Space/Total Space Status S.M.A.R.T
BPS	- All 0.00 MB / 232.79 GB
VERSION	1* SATA-1 Read/Write 0.00 MB / 232.79 GB Normal 🙆

Figure 4-125

In Figure 4-125, click one HDD item, the S.M.A.R.T interface is shown as in Figure 4-126.

Port	5					
Modle	ST2000VX000-1CU164					
Serial No.	W1E54HJW					
Status	Error					
Describe:						
Smart ID	Attribute	Threshold	d Value	Worst	Status	
1	Read Error Rate	6	120	99	OK	
3	Spin Up Time	0	97	96	OK	
4	Start/Stop Count	20	100	100	ОК	
5	Reallocated Sector Count	10	100	100	OK	
7	Seek Error Rate	30	59	55	OK	
9	Power On Hours Count	0	100	100	OK	
10	Spin-up Retry Count	97	100	100	OK	
12	Power On/Off Count	20	100	100	OK	
184	Unkown Attribute	99	100	100	OK	
187	Reported Uncorrect	0	100	100	OK	
188	Unkown Attribute	0	100	100	OK	
189	High Fly Writes	0	96	96	OK	
190	Airflow Temperature Cel	45	61	43	Error	
191	G-Sense Error Rate	0	100	100	OK	
192	Power-Off Retract Cycle	0	100	100	ОК	
L 102	Lead/Unlead Cuale Course	^	100	100		

Figure 4-126

Parameter	Function		
SATA	1 here means there is 1 HDD.		
	For different series product, the max HDD amount may vary,		
	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,		

4.13.3 Advanced

It is to set HDD group, and HDD group setup for main stream, sub stream and snapshot operation **Important**

HDD group and quota mode can not be valid at the same time. System needs to restart once you change the mode here.

The HDD group mode is shown as in Figure 4-127.

- HDD: Here you can view the HDD amount the device can support.
- Group: It lists the HDD Group number of current hard disk.

	SETTING
CAMERA	👼 NETWORK 📷 EVENT 🧏 STORAGE 🛃 SYSTEM
SCHEDULE HDD MANAGER RECORD ADVANCE	HDD Setting MainStream SubStream Snapshot
RAID MANAGER	HDD HDD Group HDD HDD Group
	1 1 2 . • Save Cancel Apply

Figure 4-127

Please select the correspond group from the dropdown list and then click Apply button.

Click main stream/sub stream/snapshot button to set corresponding HDD group information. See Figure 4-128 through Figure 4-130.

	SETTING
SAMERA	
SCHEDULE HDD MANAGER RECORD	HDD Setting MainStream SubStream Snapshot Set All Channels 1 • All
ADVANCE RAID MANAGER	Channel HDD Group Channel HDD Group Channel HDD Group Channel HDD Group
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	4 1/1 ►
	Save Cancel Apply

Figure 4-128

	SETTING
📆 CAMERA	TRETWORK 📷 EVENT SYSTEM
SCHEDULE HDD MANAGER RECORD ADVANCE	HDD Setting MainStream SubStream Snapshot Set All Channels 1 All Channels Channel Chan
RAID MANAGER	Channel HDD Group Channel HDD Group Channel HDD Group Channel HDD Group 1 1 9 2 1 9 3 1 9 4 1 9
	9 1 9 10 1 9 11 1 9 12 1
	◀ 1/1 ►
	Save Cancel Apply

Figure 4-129

	SETTING
🗓 CAMERA	TINETWORK THE EVENT
SCHEDULE HDD MANAGER RECORD	HDD Setting MainStream SubStream Snapshot
ADVANCE RAID MANAGER	Channel HDD Group Channel HDD Group Channel HDD Group Channel HDD Group
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	Save Cancel Apply

Figure 4-130

4.13.4 HDD Detect

Note This function is for some series product only.

The HDD detect function is to detect HDD current status so that you can clearly understand the HDD performance and replace the malfunction HDD.

There are two detect types:

- Quick detect is to detect via the universal system files. System can quickly complete the HDD scan. If you want to use this function, please make sure the HDD is in use now. If the HDD is removed from other device, please make sure the write-data once was full after it installed on current device.
- Global detect adopts Windows mode to scan. It may take a long time and may affect the HDD that is recording.

4.13.4.1 Manual Detect

From main menu->Setting->Storage->HDD Detect->Manual Detect, the interface is shown as below. See Figure 4-131.

Please select detect type and HDD. Click start detect to begin. You can view the corresponding detect information.

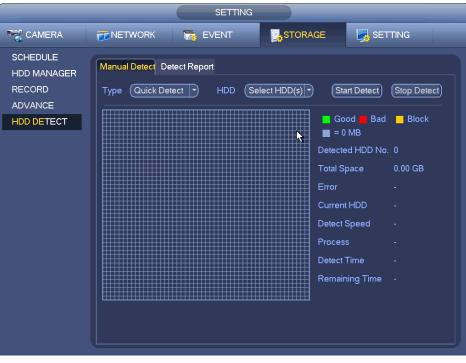


Figure 4-131

4.13.4.2 Detect Report

After the detect operation, you can go to the detect report to view corresponding information. From main menu->Setting->Storage->HDD Detect->Manual Detect, the interface is shown as below. See Figure 4-132.

	SETTING	
	TRANSPORT TRANSPORT	
SCHEDULE HDD MANAGER	Manual Detect Detect Report	
RECORD ADVANCE	1 HDD Port No. Detect Type Start Time Capacity Error View 1 2 Quick Detect 2014-10-17 06:05:00AM 1863.02 GB 0 Image: Capacity Image:	
HDD DETECT		
	₩	

Figure 4-132

Click View, you can see the detailed information such as detect result, backup and S.M.A.R.T. See Figure 4-133 and Figure 4-134.

	Details	
Detect Results S.M.A.R.T		
Type Quick Detect	Backup to USB Devices	
	Good ■ Bad	Block
	Detected HDD No.	1
	Total Space	1863.02 GB
	Error	0
	HDD Port No.	2
		~

Figure 4-133

Port 2 Modie ST	2000VX000-1CU164				
	E55V8Y				
Status Wo	rse				
Describe:					
Smart ID	Attribute	Threshold	d Value	Worst Value	Statu
1	Read Error Rate	6	116	99	OK
3	Spin Up Time	0	97	96	OK
4	Start/Stop Count	20	100	100	OK
5	Reallocated Sector Count	10	100	100	OK
7	Seek Error Rate	30	63	60	OK
9	Power On Hours Count	0	99	99	OK
10	Spin-up Retry Count	97	100	100	OK
12	Power On/Off Count	20	100	100	OK
184	Unkown Attribute	99	100	100	OK
187	Reported Uncorrect	0	100	100	OK
4		Î Î			

Figure 4-134

4.13.5 RAID Manager

Important

Please make sure your purchased product support the RAID function, otherwise you can not see the following interface.

Right now, RAID supports Raid0, Raid1, Raid5, Raid6, and Raid10. Local hotspare supports Raid1, Raid5, Raid6, and Raid10.

4.13.5.1 RAID Config

It is for you to manage RAID HDD. It can display RAID name, type, free space, total space, status and etc. Here you can add/delete RAID HDD.

Click Add button to select RAID type and then select HDDs, click OK button to add. See Figure 4-135.

	SETTING
N CAMERA	
SCHEDULE HDD MANAGER	Raid Config Hotspare Disks
RECORD ADVANCE RAID MANAGER	0 Raid name Type Free Space / Total Space Status
	Add

Figure 4-135

4.13.5.2 Hotspare disks

Click Hotspare disks tab name, you can add the hot spare HDD. See Figure 4-136. The type includes two options:

- Global: It is global hotspare disk. When any RAID becomes degrading, it can replace and build the RAID.
- Local: It is local hotspare disk. When the specified RAID becomes degrading, it can replace and build the RAID.

Select a hot spare device and then click Delete button. Click Apply button to delete.

		SETTING			
📆 CAMERA	🗊 NETWORK 🛛 📆	EVENT	STORAGE	SYSTEM	
SCHEDULE HDD MANAGER	Raid Config Hotspare D	isks			
RECORD	New Hotspare				
ADVANCE	Type Global				
RAID MANAGER	Sub disk Capacity Disk5 1.81 TB	Physical SATA-5			
	O Delete Hotspare				
	Sub disk Physical	Capacity		pe	
			() (Cancel Apply	

Figure 4-136

4.14 Basic Setups

Set NVR basic setup, device setup and other setups.

4.14.1 Device Setup

From Main menu->Setting->System->General, you can go to the general interface. See Figure 4-138.

- Pack duration: Here is for you to specify record duration. The value ranges from 0 to 120 minutes.
 Default value is 60 minutes.
- Device ID: Please input a corresponding device name here.
- 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.
- 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.)
- Video standard: There are two formats: NTSC and PAL.
- 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 1 to 120 minutes. Default value is 60 minutes.
- Realtime play: It is to set playback time you can view in the preview interface. The value ranges from 5 to 60 minutes.
- 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.
- 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.
- Mouse property: You can set double click speed via dragging the slide bard. You can Click Default button to restore default setup.

	SETTING
ந CAMERA	TRETWORK TREE EVENT STORAGE SYSTEM
GENERAL DISPLAY RS232 PTZ ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPDATE	General Date&Time Holiday Device ID NVR Image Device No. 8 Image Language ENGLISH Video Standard Video Standard PAL Video Standard HDD Full Overwrite Video Standard Pack Duration 60 Minute Realtime Play 5 Minute Auto Logout 10 Minute IPC Time Sync 24 Hours Vavigation Bar Startup Wizard Mouse Sensitivity Slow Fast Default Save Cancel Apply

Figure 4-137

4.14.2 Data and Time

From Main menu->Setting->System->General, you can go to the general interface. See Figure 4-138.

- System time: Here is for you to set system time
- Date format: There are three types: YYYYY-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 by week or by date. Please enable DST function and then select setup mode. Please input start time and end time and click Save button.
- Time format: There are two types: 24-hour mode or 12-hour mode.
- NTP: It is to set NTP server, port and interval.

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.

Image: CAMERA Image: EVENT Image: SYSTEM CENERAL DISPLAY DISPLAY Date Format YYYY MM DCP Time Format 24.HOUR P PTZ Date Separator Image: System Time 2013 - 11 - 08 11: 37: 37 GMT+08:00 P Save PTZ ACCOUNT AUTO MAINTAIN Image: Display Image: Display Image: Display Save DEFAULT UPDATE DST DST Type Image: Week O Date Sat Image: Display Image: Display Image: Display Image: Display VPDATE Jan Image: Last Image: Display Image: Display <td< th=""></td<>
DISPLAY General Date&Time Holiday RS232 Date Format YYYY MM DE Time Format 24-HOUR PTZ Date Separator Image: Comparison of the separator ACCOUNT System Time 2013 - 11 - 08 11 : 37 : 37 AUTO MAINTAIN Image: Comparison of the separator Image: Comparison of the separator AUTO MAINTAIN Image: Comparison of the separator Image: Comparison of the separator MP/EXP DST DST DEFAULT UPDATE UPDATE Image: Comparison of the separator Image: Image: Comparison of the separator Image: Comparison of the separator Image: Comparison of the separator Image: Image: Comparison of the separator Image: Comparison of the separator Image: Comparison of the separator Image: Image: Comparison of the separator Image: Comparison of the separator Image: Comparison of the separator Image: Image: Comparison of the separator Image: Comparison of the separator Image: Comparison of the separator Image: Image: Comparison of the separator Image: Comparison of the separator Image: Comparison of the separator Image: Image: Comparison of the separator Image: Comparison of the separator Image: Comparison of the separa
Default Save Cancel Apply

Figure 4-138

4.14.3 Holiday

Please refer to chapter 4.8.6 for detailed information.

4.15 Device Maintenance and Manager

4.15.1 System Info

4.15.1.1 Version

From main menu->Info->System->version, you can go to version interface.

Here is for you to view some version information. See Figure 4-139. Please note the following figure for reference only.

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

		INFO		
SYSTEM	EVENT		🚺 LOG	
HDD RECORD BPS VERSION	Record Channel Alarm In Alarm Out System Version Build Date Web SN	8 3		

Figure 4-139

4.15.1.2 BPS

Here is for you to view current video bit rate (kb/s) and resolution. See Figure 4-140.

		INFO		
SYSTEM	📆 EVENT		📕 LOG	
HDD				
RECORD	Channel Res	solution Kb/S	Wave	
BPS		- 0	1	
VERSION		80*960 4075	h	
		80*960 4075	h	
		80*960 4075	h	
		80*960 4075	h	
		80*960 4075	h	
		80*960 4075	h	
		80*960 4075	h	
		- 0	1	
		- 0	1	
	- 11 -	- 0	1	
	12 -	- 0	1	
	13 128	30*960 3970	h	
	14 -	- 0	1	



4.15.1.3 Online User

Here is for you manage online users connected to your NVR. See Figure 4-141.



You can click button **I** to disconnect or block one user if you have proper system right.

System detects there is any newly added or deleted user in each five seconds and refresh the list automatically.

	INFO	
SYSTEM		📡 LOG
ONLINE USERS		
LOAD		
TEST	Username IP Address admin 10.15.6.141	User Login Time Block For 2013-11-8 11:40:8
	Block Time 60 s	

Figure 4-141

4.15.1.4 Remote Device Information

From main menu->info-Event, here you can view the channel status of the remote device, connection log and etc. See Figure 4-142.

	INFO
SYSTEM	
EVENT	
	Device Status Device(NIC No.:1,HDD No.:1)
	No HDD
	Disk No Space HDD space is insufficient now.
	Channel Status Channel(CH:32,External Alarm:8)
	Tampering
	Motion 2 3 4 5 6 7 8
	IPC Offline Alarm 9 10 12
	Refresh

Figure 4-142

4.15.1.5 Remote

4.15.1.5.1 Device Status

Here you can view the IPC status of the corresponding channel such as motion detect, video loss, tampering, alarm and etc. See Figure 4-143.

- IPC status: Front-end does not support. Pront-end supports.
- Connection status:
 Connection succeeded.
 Connection failed.
- Refresh: Click it to get latest front-end channel status.

	_	SETTING			
CAMERA		📷 EVENT	STORAGE	SYSTEM	
REMOTE IMAGE	Remote	Status Firmware	Upgrade		
ENCODE	Channel	Status IP Address	Video Detect IPC	External Alarm Channel	
CAM NAME	2	<u> </u>	Ŕ	Channel	
	3	0 10.15.6.86	Ŕ	Channel	
	4	0 10.15.6.86	Я́с	Channel	
	5	0 10.15.6.86	オオオオ	Channel	
	6	0 10.15.6.86	З£ с	Channel	
	7		<u>ж</u>	Channel	
	13	10.15.6.86 10.15.6.99		Channel IPC	
	(Refresh)				

Figure 4-143

4.15.1.5.2 Firmware

It is to view channel, IP address, manufacturer, type, system version, SN, video input, audio input, external alarm and etc. See Figure 4-144.

		SETTING		_
CAMERA		EVENT STORAGE	SYSTEM	
REMOTE	Remote Status	Firmware Upgrade		
IMAGE		Filliware Opgrade		
ENCODE			0 · · · · · ·	
	Channel IP Address	/	System Version	
CAM NAME	1 10.15.9.13 2 10.15.6.86		2.211	~7
	3 10.15.6.86		2.211	12 V7
	4 10.15.6.86		2.211	YZ YZ YZ YZ YZ YZ
	5 10.15.6.86		2.211	V7
	6 10.15.6.86		2.211	Y7
	7 10.15.6.86		2.211	YZ
	8 10.15.6.86		2.211	ΥŻ
	9 10.15.5.82	Private	2.211	YF
	10 10.15.5.82	Private	2.211	YF
	11 10.15.5.23	3 Private		
	12 10.15.5.82	Private	2.211	YF
	13 10.15.6.99	Private IPC-HFW5100	2.210	ΥZ
	14 10.15.7.14	4 Private		

Figure 4-144

4.15.2 Log

From Main menu->Info->Log, you can go to the following interface. See Figure 4-145.

• Start time/end time: Pleased select start time and end time, then click search button. You can view the log files in a list. System max displays 100 logs in one page. It can max save 1024 log files. Please use page up/down button on the interface or the front panel to view more.

Tips

Double click a log item to view its detailed information. See Figure 4-146. Click PgUp/PgDn to view more logs.

	INFO
SYSTEM	
LOG	
	Start Time(2013 - 11 - 07 00:00:00
	End Time (2013 - 11 - 08 00 : 00 : 00
	Types (All Search)
	19 Time Event Play Details 🔺
	6 2013-11-07 18:01:01 Channel12 User logged in. 🗕 📃
	7 2013-11-07 18:01:01 Channel 4 User logged in. 🗕 😑
	8 2013-11-07 18:01:01 Channel 5 User logged in 📰
	9 2013-11-07 18:01:01 Channel 6 User logged in 🗮
	10 2013-11-07 18:01:01 Channel 7 User logged in. 🗕 🗮
	11 2013-11-07 18:01:01 Channel 8 User logged in 🧮
	12 2013-11-07 18:01:20 Channel 9 User logged in. 🗕 🔚
	13 2013-11-07 18:01:20 Channel13 User logged in 📃
	14 2013-11-07 18:01:20 Channel 2 User logged in 🧮
	15 2013-11-07 18:01:20 Channel 3 User logged in 🔳
	16 2013-11-07 20:13:01 User logged in.<10.15.6.122> 🚍
	17 2013-11-07 20:13:01 User logged in.<10.15.6.122> 🚍
	18 2013-11-07 20:14:01 User logged out. <admin> 📰</admin>
	19 2013-11-07 20:14:01 User logged out. <admin> 📰 🔻</admin>
	PgUp PgDn 1/1(Current Page/Total Page) Go To 1 Page(s)
	Backup Clear

Figure 4-145



Figure 4-146

4.15.3 Voice Note This function is for some series product only.

The audio function is to manage audio files and set schedule play function. It is to realize audio broadcast activation function.

4.15.3.1.1 File Manage

Here you can add audio file, listen to the audio file, or rename/delete audio file. Here you can also set audio volume. See Figure 4-147.



Figure 4-147

Click Add button, you can add audio file and import the audio file via the USB device. The audio file format shall be MP3 or PCM. See Figure 4-148.



Important

The audio file shall be saved on the USB device. You need to connect the USB device all the time; otherwise, the audio link function may fail. So, if you want to use the audio trigger function, please make sure the audio file is on the UBS device and the USB device has connected to the NVR before the NVR boots up. You need to make sure the USB device connection is always there if you want to manage and use the audio file function.

Total Space	(15.14 GB	Free Space	(13.10 GB		
Address					
Name			Size	Туре	Del
				Folder	×
			4.42 MB	File	×
			4.42 MB	File	×
sfdsdfsd.mp3			3.91 MB 6.11 MB	File File	×
ifdsfsdgsdg.mp3 isdgsdgqwq41234.mp3			4.94 MB	File	×
	2455.mp3		9.44 MB	File	× ×
1234.m			2.80 MB	File	×
				k	t

Figure 4-148

4.15.3.1.2 Schedule

It is to set schedule broadcast function. You can play the different audio files in the specified periods. See Figure 4-149.

		SETTING			
CAMERA		To EVENT	STORAGE	SETTING	
CAMERA GENERAL DISPLAY RS232 PTZ VOICE ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	File Manage Sc Period 00:00 00:00 - 00:00 - 00:00 - 00:00 - 00:00 - 00:00 - 00:00 -	EVENT chedule File Na 24:00 None 24:00 None		Repeat Output 0 Mic 0 Mic 0 Mic 0 Mic 0 Mic 0 Mic 0 Mic	
			Сок С	Cancel Apply	

Figure 4-149

4.15.4 Account

Here is for you to implement account management. See Figure 4-150 and Figure 4-151. 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.
- The default user amount is 64 and the default group amount is 20. 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 6666, 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.

		SETTIN	G	
📆 CAMERA		📆 EVENT	STORA	IGE 🛃 SYSTEM
GENERAL DISPLAY RS232 PTZ ACCOUNT AUTO MAINTAIN IMP/EXP	Modify User Modify User 4 User Nati 1 838888 2 666666 3 admin 4 default	ify Group	Modify Delet	e Memo 888888 admin 's account 666666 user's account
DEFAULT UPDATE	Add User)			

Figure 4-150



Figure 4-151

4.15.4.1 Add/Modify Group

Click add group button, the interface is shown as below. See Figure 4-152.

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

There are many 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 4-152.

	_		Add Group	_
Me	Group Name Memo Authority			
	System Playback	Monitor SYSTEM INFO STORAGE CLEAR LOG	 DISCONNECT USER MANUAL CONTROL EVENT SHUTDOWN 	 DEFAULT&UPGRAD BACKUP NETWORK
		S	Cancel	

Figure 4-152

Tips

In modify interface, check the modify password box and then input old password and new password. Input new password again to confirm the modification.

The password max has 6-byte and the space in the front or at the end of the string is null. The space is valid only in the middle of the string.

For the account of the Account function, it can change the password of other users too.

4.15.4.2 Add/Modify User

Click add user button, the interface is shown as in Figure 4-153.

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 4-153.

		Add User	
User Name Password Memo Group (admin 💎		Reusable 🛛 Confirm Password 🧲	
Authority System Playback All ALI ACCOUNT PTZ COLOR CAMERA	Monitor SYSTEM INFO STORAGE CLEAR LOG	 DISCONNECT USER MANUAL CONTROL EVENT SHUTDOWN 	 ✓ DEFAULT&UPGRAD ✓ BACKUP ✓ NETWORK
		Save Cancel	

Figure 4-153

4.15.5 Update

From Mani menu->Setting->Info->Update, you can go to the following interface. See Figure 4-154.

- a) Insert USB device that contain the upgrade file.
- b) Click Start button and then select the .bin file.
- c) You can see the corresponding dialogue box after the update process is complete.

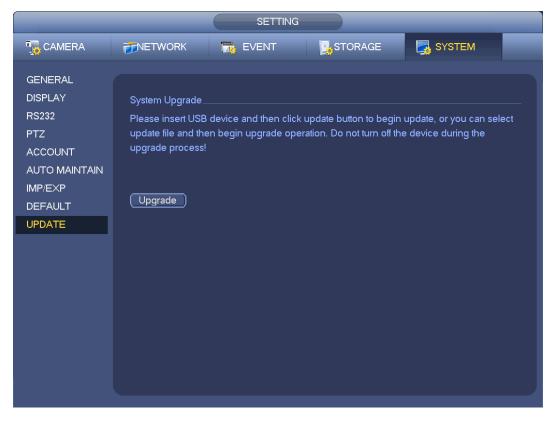


Figure 4-154

4.15.6 Default

You can restore factory default setup to fix some problems when the device is running slowly. Configuration error occurred.

From Main menu->Setting->System->Default, you can go to the default interface. See Figure 4-155.

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

- All
- Camera
- Network
- Event
- Storage
- System

Please highlight icon 📕 to select the corresponding function.

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

Warning!

After you use default function, some your customized setup may lose forever! Please think twice before you begin the operation!

		SETTING		
CAMERA		To EVENT	STORAGE	SYSTEM
GENERAL DISPLAY RS232 PTZ ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPDATE	Default All CAMERA NETWORK EVENT STORAGE SYSTEM		OK) Cancel Apply

Figure 4-155

4.15.7 RS232

From Main menu->Setting->System->RS232, RS232 interface is shown as below. There are five items. See Figure 4-156.

- 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.

	SI	ETTING	
5 CAMERA	👘 NETWORK 🛛 👼 EVEI		SYSTEM
GENERAL DISPLAY RS232 PTZ ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPDATE	Function Console • Baud Rate (115200 • Data Bit 8 • Stop Bit 1 • Parity None •		
	Default	Save	Cancel Apply

Figure 4-156

4.15.8 Auto Maintain

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 4-157.

You can select proper setup from dropdown list.

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

		SETTING		
🇓 CAMERA		T EVENT	STORAGE	SYSTEM
GENERAL DISPLAY VIDEO MATRIX RS232 PTZ ATM/POS ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	Auto-Reboot Syst Tuesday Auto-Delete Old R Customized	at 02:00AM 🔻	Day(s) Ago	
			() (Cancel Apply

Figure 4-157

4.15.9 Logout /Shutdown/Restart

From Mani menu->Operation->Shutdown, you can see an interface shown as in Figure 4-158.

- Shutdown: System shuts down and turns off power.
- Logout: Log out menu. You need to input password when you login the next time.
- Restart: reboot device.

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 4-158

5 Web Operation

5.1 General Introduction

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

Important

The following operation is based on 32-channel series device.

5.1.1 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.

About PoE address setup, operation and allocation.

1) Insert PoE

After you insert PoE, device may try to set a corresponding IP address of the Switch network adapter. First, system tries to set via arp ping. It then uses DHCP if it finds the DHCP is enabled. After successfully set IP address, system may use Switch to send out broadcast, system considers the connection is OK when there is any response. Now system is trying to login the newly found IPC. Now please check the interface, you can see the corresponding digital channel is active now. You can see a small PoE icon at the top left corner. You can see the PoE channel, PoE port information and etc from the connection list of the remote device interface (Chapter 4.4). For the IP search list, you need to click the IP search to display or refresh.

2) Remove PoE

After you removed PoE, you can see the corresponding digital channel becomes idle (disable). On the remote device interface, it is removed from the connected list. For the IP search list, you need to click the IP search to refresh.

- 3) After you insert PoE, system follows the principles listed below to map channel.
 - a) If it is your first time to insert PoE, system can map it to the first idle channel. After map, the channel can memorize the MAC address of the IPC. It is a <Channel>---<IPC mac> map. If current channel does not connect to other device, system can memorize current MAC address, otherwise it can refresh to the newly added device and memorize the <PoE port>---<Channel>.
 - b) If it is your second time to insert the PoE, system can check the saved MAC address according to <Channel>---<IPC mac> map to make sure current IPC has connected or not. If system finds the previous information and the channel is idle, system can map it to the previously used channel. Otherwise system goes to the next step.

- c) Thirdly, according to the <PoE port>---<Channel> map, system can know the previous mapping channel of current PoE port. System can select current channel if it is free. Otherwise, it goes to the next step:
- d) Fourthly, system goes to find the first idle channel it can get.

Generally speaking, once you insert PoE, system follow the steps listed above to find the channel available.

4) When you insert PoE, all channels are in use now.

System can pop up a dialogue box for you to select a channel to overwrite. The title of the pop-up interface is the name of the current operation PoE port. In this interface, All PoE channel become grey and can not select.

5.1.2 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 5-1.

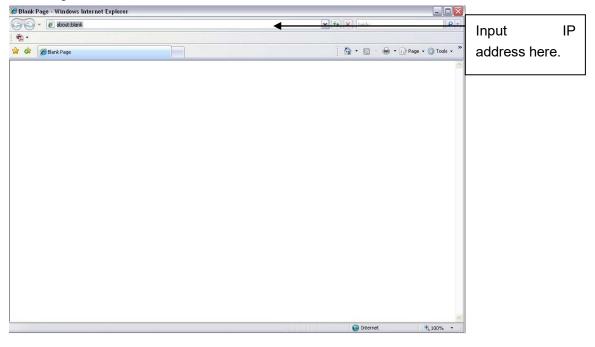


Figure 5-1

System pops up warning information to ask you whether install Web plug-in or not. Please click yes button.

If you can't download the ActiveX file, please modify your settings as follows. See Figure 5-2.

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

Figure 5-2

After installation, the interface is shown as below. See Figure 5-3.

WHI SIRVEL Windows Internet Explorer provided by Yabool			_ ž 🛙
G 🖓 🔹 📓 (10:0)/10.00.4 (22)		[4] [4] [8] (about	(P)-
Die Edit Zow Favorites Loois Unio			
👷 Favorites 🔤 HED SERVICE			
	WEB SERVICE		
	Username i admin		
	Password:		
	O LAN O WAN		
	Login Cancel		
		😜 Internet	- €100% ·

Figure 5-3

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.

5.2 LAN Mode

For the LAN mode, after you logged in, you can see the main window. See Figure 5-9. This main window can be divided into the following sections.

- Section 1: there are six function buttons: Live (chapter 0), setup (chapter 5.8), info (Chapter 5.9), playback (chapter 5.10), alarm (chapter 5.11), and logout (chapter 5.12).
- Section 2: There are monitor channels successfully connected to the NVR.

Please refer to Figure 5-4 for main stream and extra stream switch information.

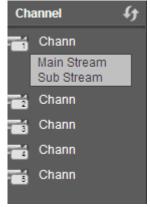


Figure 5-4

• Section 3: Open all. Open all button is to enable/disable all-channel real-time monitor. Here you can select main stream/sub stream too. See Figure 5-5.



Figure 5-5

• Section 4: Start Talk button.

You can click this button to enable audio talk. Click 【▼】 to select bidirectional talk mode. There are four options: DEFAULT, G711a, G711u and PCM. See Figure 5-6.

After you enable the bidirectional talk, the Start talk button becomes End Talk button and it becomes yellow. Please note, if 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.



Figure 5-6

• Section 5: Instant record button. Click it, the button becomes yellow and system begins manual record. See Figure 5-7. Click it again, system restores previous record mode.

A Instant Record

Figure 5-7

• Section 6: Local play button.

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 5-8.

Open	? 🛛
Look jn: 🔯 Desktop	- 🖬 🍅 🔳 -
My Documents My Computer My Computer My Network Places Access IBM AOL Double-Click to Start BEarthLink Internet 30 Days Free	Image: Norton AntiVirus Image: n10C Image: Norton AntiVirus
File name: Files of type: Record files (*.*)	Cancel

Figure 5-8

- Section 7: Zero-channel encoding. Please refer to chapter 5.6 for detailed information.
- Section 8: PTZ operation panel. Please refer to chapter 5.4 for detailed information.
- Section 9: Image setup and alarm setup. Please refer to chapter 5.5 for detailed information.
- Section 10: From the left to the right ,you can see video quality/fluency/ full screen/1-window/4-window/6-window/8-window/9-window/13-window/16-window/20-window/25-win dow/36-window.. You can set video fluency and real-time feature priority.

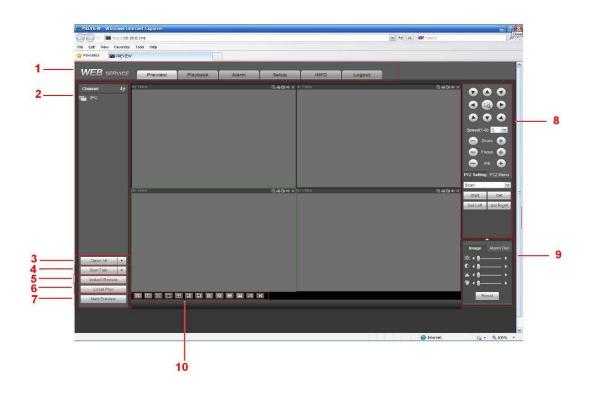


Figure 5-9

5.3 Real-time Monitor

In section 2, left click the channel name you want to view, you can see the corresponding video in current window.

On the top left corner, you can view device IP(172.11.10.11), channel number(1), network monitor bit stream(2202Kbps) and stream type(M=main stream, S=sub stream). See Figure 5-10.

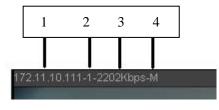


Figure 5-10

On the top right corner, there are six unction buttons. See Figure 5-11.

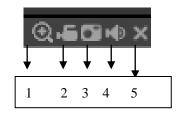


Figure 5-11

- 1: Digital zoom: Click this button and then left drag the mouse in the zone to zoom in. right click mouse system restores original status.
- 2: Local record. When you click local record button, the system begins recording and this button becomes highlighted. You can go to system folder RecordDownload to view the recorded file.
- 3: Snapshot picture. You can snapshot important video. All images are memorized in system client folder PictureDownload (default).
- 4: Audio :Turn on or off audio.(It has no relationship with system audio setup)
- 5: Close video.

5.4 PTZ

Before PTZ operation, please make sure you have properly set PTZ protocol. (Please refer to chapter 5.8.5.10).

There are eight direction keys. In the middle of the eight direction keys, there is a 3D intelligent positioning key.

Click 3D intelligent positioning key, system goes back to the single screen mode. Drag the mouse in the screen to adjust section size. It can realize PTZ automatically.

Please refer to the following sheet for PTZ setup information.

Parameter	Function	
Scan	 Select Scan from the dropdown list. 	
	 Click Set button, you can set scan left and right limit. 	
	• Use direction buttons to 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.	

Parameter	Function
Preset	 Select Preset from the dropdown list. Turn the camera to the corresponding position and Input the
	preset value. Click Add button to add a preset.
Tour	 Select Tour from the dropdown list. Input preset value in the column. Click Add preset 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 preset button to remove one preset from
Pattern	 the tour. Select Pattern from the dropdown list. You can input pattern value and then click Start button to begin PTZ movement such as zoom, focus, iris, direction and etc. Then you can click Add button to set one pattern.
Aux	 Please input the corresponding aux value here. You can select one option and then click AUX on or AUX off button.
Light and wiper	You can turn on or turn off the light/wiper.

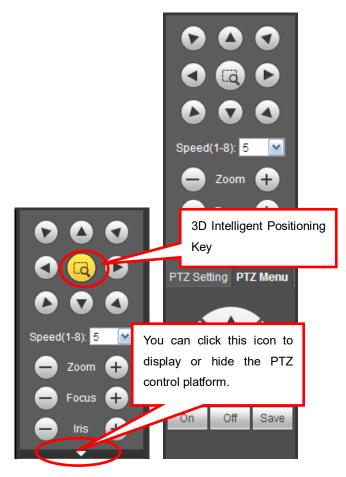


Figure 5-12

5.5 Image/Alarm-out

Select one monitor channel video and then click Image button in section 9, the interface is shown as Figure 5-13.

5.5.1 Image

Here you can adjust its brightness, contrast, hue and saturation. (Current channel border becomes green).

Or you can click Reset button to restore system default setup.

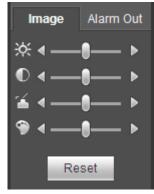


Figure 5-13

5.5.2 Alarm output

Here you can enable or disable the alarm signal of the corresponding port. See Figure 5-14.



Figure 5-14

5.6 Zero-channel Encode

Select a window and then click zero-channel encode button, the interface is shown as below. See Figure 5-15.

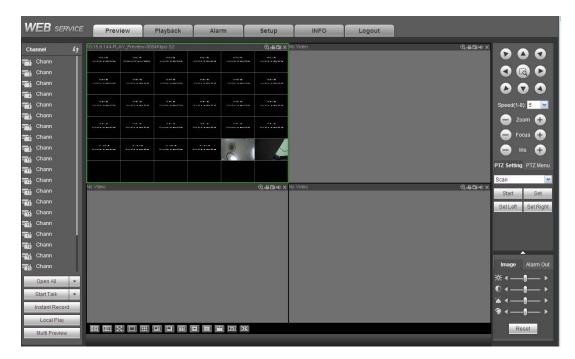


Figure 5-15

5.7 WAN Login

In WAN mode, after you logged in, the interface is shown as below. See Figure 5-16.



Figure 5-16

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 channels and different monitor modes at the bottom of the interface. See

Figure 5-17.

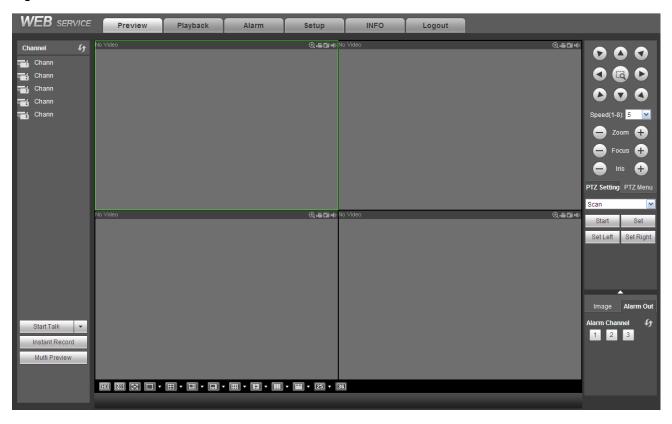


Figure 5-17

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 icons at the left top corner of the channel number for you reference. M stands for main stream. S stands for sub stream (extra stream).

4) 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.

5.8 Setup

5.8.1 Camera

5.8.1.1 Remote Device

Remote device interface is shown as below. See Figure 5-18.

CAME	RA							
12		IP Address	s Port	Device ID	Manufacturer	Туре	MAC Address	
1		10.15.6.108	37777	NVR	Private	NVR-P	90:02:a9:7f:d8:21	~
2		10.15.6.109	37777	NVR	Private	NVR-P	90:02:a9:8d:0b:d5	
3		10.15.5.235	37777	NVR	Private	NVR-P	90:02:a9:8d:94:d2	
4		10.15.9.126	37777	NVR	Private	NVR-P	90:02:a9:8d:a2:0b	
5		10.15.6.94	37777	DSCON_UNKNOW	Private	DSCON	90:04:A9:9B:03:20	=
6		10.15.6.251	37777	NVR	Private	NVR-P	90:10:aa:12:12:12	
7		10.15.9.148	37777	DVR	Private	DVR	90:02:a9:8d:21:f2	
8		10.15.6.84	37777	DVR	Private	DVR	90:02:a9:8d:53:29	
9		10.15.6.100	37777	M60	Private	M60	90:02:a9:8d:8e:1a	
10		10.15.6.82	37777	DVR	Private	DVR	90:02:a9:8d:97:dd	~
Device Se	earch	Add					Display Filter Null	~
Device of		Add						
	Channel	Modify [Delete Status	IP Address	Port	Device ID	Remote Channel No. Manufacture	er
	1	1	🔞 🔜	10.15.9.144	37777	HFW2100P	1 Private	~
							1 111010	

Figure 5-18

Manual Add	×
Channel	2
Manufacturer	Private 💌
IP Address	192.168.0.0
TCP Port	37777 (1~65535)
User Name	admin
Password	•••••
Remote Channel No.	1
Decode Buffer	280 ms(80~480)
	Save Cancel

Figure 5-19

Please refer to the following sheet for log parameter information.

Parameter	Function
Device search	Click Device search button, you can view the searched device information on the list. It includes device IP address, port, device name, manufacturer and type.
Add	Select a device in the list and then click Add button, system can connect the device automatically and add it to the Added device list. Or you can double click one item in the list to add a device.

Parameter	Function	
Modify	Click 🔎 or any device in the Added device list, you can change the	
	corresponding channel setup.	
Delete	Click 🙆, you can delete the remote connection of the corresponding	
	channel.	
Connection	Connection succeeded.	
status	: Connection failed.	
Delete	Select a device in the Added device list and then click Delete button, system can disconnect the device and remove it from the Added device list.	
Manual	Click it, the interface is shown as in Figure 5-19. Here you can add	
Add	network camera manually.	
	You can select a channel from the dropdown list (Here only shows	
	disconnection channel.)	
	Note:	
	• System supports manufactures such as Panasonic, Sony,	
	Dynacolor, Samsung, AXIS, Arecont, and Onvif standard protocol.	
	 If you do not input IP address here. System uses default IP 192.168.0.0 and system does not connect to this IP. 	
	 Can not add two devices at the same time. Click OK button here, 	
	system only connect to the corresponding device of current	
	channel.	

5.8.1.2 Image

Note

Slight difference may be found since the connected network camera may not be same model.

Here you can view device property information. The setups become valid immediately after you set. See Figure 5-20.

Conditions	2013-10-24 16:58 421120 Chan	nel 1	×.			
		Mirror 🔿 Enable 📀	Disable	Saturation — Brightness — Contrast — Sharpness —	- 0 - 50 - 0 - 50 - 0 - 50 - 0 - 50	
	Scene	Flip No Flip Light Close Mode Auto yLight Auto	M M M			
IPDome Default	Save Refresh]				

Figure 5-20

Parameter	Function
Channel	Please select a channel from the dropdown list.
Period	It divides one day (24 hours) to two periods. You can set different hue, brightness, and contrast for different periods.
Hue	It is to adjust monitor video brightness and darkness level. The default value is 50.
	The bigger the value is, the large the contrast between the bright and dark section is and vice versa.
Brightness	It is to adjust monitor window brightness. The default value is 50.
	The larger the number is , the bright the video is. When you input the value here, the bright section and the dark section of the video will be adjusted accordingly. You can use this function when the whole video is too dark or too bright. Please note the video may become hazy if the value is too high. The value ranges from 0 to 100. The recommended value ranges from 40 to 60.
Contrast	It is to adjust monitor window contrast. The value ranges from 0 to 100. The default value is 50.
	The larger the number is, the higher the contrast is. You can use this function when the whole video bright is OK but the contrast is not proper. Please note the video may become hazy if the value is too low. If this value is too high, the dark section may lack brightness while the bright section may over exposure .The recommended value ranges from 40 to 60.
Saturation	It is to adjust monitor window saturation. The value ranges from 0 to 100. The default value is 50.
	The larger the number is, the strong the color is. This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For the grey part of the video, the distortion may occur if the white balance is not accurate. Please note the video may not be

attractive if the value is too low. The recommended value ranges from 40 to 60. Gain The gain adjust is to set the gain value. The smaller the value is, the low the noise is. But the brightness is also too low in the dark environments. It can enhance the video brightness if the value is high. But the video noise may become too clear. White level It is to enhance video effect. Color mode It is to enhance video offect. Color mode It is to enhance video effect. Flip It is to enable/disable auto iris function. Flip It is to enable/disable auto iris function. Flip It is to switch video up and bottom limit. This function is disabled by default. This function is disabled by default. Mirror It is to switch video left and right limit. This function is disabled by default. Situation so that the darkest area of the video is cleared Mode WDR For the WDR scene, this function can lower the high bright section and enhance the brightness of the video is cleared from no-WDR mode to the VDR mode, system may lose several seconds record video. HLC After you enabled HLC function, the device an lower the brightness of the hightest section according to the HLC control level. It can reduce the area of the halo and lower the brightness of the whole video. Profile It is to set the white balance mode. It has effect on the					
Image: Second					
Color mode It includes several modes such as standard, color. You can select corresponding color mode here, you can see hue, brightness, and contrast and etc will adjust accordingly. Auto Iris It is to enable/disable auto iris function. Flip It is to switch video up and bottom limit. This function is disabled by default. Mirror It is to switch video left and right limit. This function is disabled by default. BLC The device auto exposures according to the environments situation so that the darkest area of the video is cleared WDR For the WDR scene, this function can lower the high bright section and enhance the brightness of the low bright section. So that you can view these two sections clearly at the same time. The value ranges from 1 to 100. When you switch the camera from no-WDR mode to the WDR mode, system may lose several seconds record video. HLC After you enabled HLC function, the device can lower the brightness of the brightness of the brightness of the brightness of the halo and lower the brightness of the whole video. Off It is to disable the BLC function. Please note this function is disabled by default. Profile It is to set the white balance mode. It has effect on the general hue of the video. This function is on by default. You can select the different scene mode such as auto, sunny, cloudy, home, office, night, disable and etc to adjust the video to the best quality. • Auto: The auto white balance is on. System can auto compensate the color temperature to make sure the vi	Gain		the low the noise is. But the brightness is also too low in the dark environments. It can enhance the video brightness if the value is		
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mode. • Customized: You can set the gain of the red/blue channel. The value reneges from 0 to 100. Day/Night It is to set device color and the B/W mode switch. The default setup is auto. • Color: Device outputs the color video.					
The value reneges from 0 to 100. Day/Night It is to set device color and the B/W mode switch. The default setup is auto. Color: Device outputs the color video.					
setup is auto.Color: Device outputs the color video.					
	Day/Nig	ht			
 Auto: Device auto select to output the color or the B/W 			Color: Device outputs the color video.		
			Auto: Device auto select to output the color or the B/W		

	video according to the device feature (The general bright of the video or there is IR light or not.)
•	B/W: The device outputs the black and white video.
•	Sensor: It is to set when there is peripheral connected IR light.

5.8.1.3 Encode

5.8.1.3.1Encode

The encode interface is shown as below. See Figure 5-21.

Encode	Snapshot	Overlay	y F	Path	
Channel	1	•			
Main Stream			Sub Stream		
Code-Stream Type	Regular	~	Video Enable		
Compression	H.264	~	Compression	H.264	~
Resolution	720P	~	Resolution	CIF	~
Frame Rate(FPS)	25	~	Frame Rate(FPS)) 25	~
Bit Rate Type	CBR	~	Bit Rate Type	CBR	~
Bit Rate	4096	Kb/S	Bit Rate	1024	Kb/S
Reference Bit Rate	1536-8192Kb/S		Reference Bit Rat	te 192-1024Kb/S	3
[Сору	Save	Refresh	Default	
l					

Figure 5-21

Parameter	Function
Channel	Please select a channel from the dropdown list.
Video enable	Check the box here to enable extra stream video. This item is enabled by default.
Code stream type	It includes main stream, motion stream and alarm stream. You can select different encode frame rates form different recorded events.
	System supports active control frame function (ACF). It allows you to record in different frame rates.
	For example, you can use high frame rate to record important events, record scheduled event in lower frame rate and it allows you to set different frame rates for motion detection record and alarm record.
Compression	The main bit stream supports H.264. The extra stream supports H.264, MJPG.
Resolution	The resolution here refers to the capability of the network camera.

Frame Rate	PAL: 1~25f/s; NTSC: 1~30f/s.
Bit Rate	 Main stream: You can set bit rate here to change video quality. The large the bit rate is, the better the quality is. Please refer to recommend bit rate for the detailed information.
	 Extra stream: In CBR, the bit rate here is the max value. In dynamic video, system needs to low frame rate or video quality to guarantee the value. The value is null in VBR mode.
Reference bit rate	Recommended bit rate value according to the resolution and frame rate you have set.
l Frame	Here you can set the P frame amount between two I frames. The value ranges from 1 to 150. Default value is 50. Recommended value is frame rate *2.
	This function allows you to verify the video is tampered or not.
Watermark enable	Here you can select watermark bit stream, watermark mode and watermark character. Default character is DigitalCCTV. The max length is 85-digit. The character can only include number, character and underline.

5.8.1.3.2Snapshot

The snapshot interface is shown as in Figure 5-22.

Encode	Snapshot	Overlay	Path	
Channel	1	-		
		•		
Mode	Timing	~		
Image Size	720P (1280*720)	<u>×</u>		
Quality	5			
Snapshot Frequency	1	SPL		
	Save	Refresh		

Figure 5-22

Parameter	Function
Snapshot type	 There are two modes: Regular (schedule) and Trigger. Regular snapshot is valid during the specified period you set. Trigger snapshot only is valid when motion detect alarm, tampering alarm or local activation alarm occurs.
Image size	It is the same with the resolution of the main stream.
Quality	It is to set the image quality. There are six levels.
Interval	It is to set snapshot frequency. The value ranges from 1s to 7s. Or you can set customized value. The max setup is 3600s/picture.

Сору	Click it; you can copy current channel setup to other channel(s).
- 17	

5.8.1.3.3 Video Overlay

The video overlay interface is shown as in Figure 5-23.

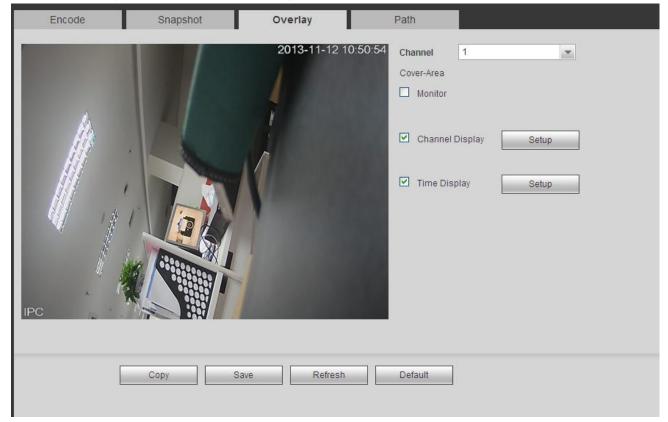


Figure 5-23

Please refer to the following sheet for detailed information.

Parameter	Function
Cover-area	Check Preview or Monitor first. Click Set button, you can privacy mask the specified video in the
	preview or monitor video.
	System max supports 4 privacy mask zones.
Time Title	You can enable this function so that system overlays time
	information in video window.
	You can use the mouse to drag the time title position.
	You can view time title on the live video of the WEB or the
	playback video.
Channel Title	You can enable this function so that system overlays channel
	information in video window.
	You can use the mouse to drag the channel title position.
	You can view channel title on the live video of the WEB or the
	playback video.

5.8.1.3.4 Path

The storage path interface is shown as in Figure 5-24.

Here you can set snap image saved path ([III] in the preview interface) and the record storage path



in the preview interface).The default setup is C:\PictureDownload and C:\RecordDownload.

Please click the Save button to save current setup.

Encode	Snapshot	Overlay	Path	
Snapshot Path Record Path	C:\PictureDownload C:\RecordDownload Save	Default	Browse Browse	

Figure 5-24

5.8.1.4 Channel Name

Here you can set channel name. See Figure 5-25.

Channel 1	CAM 1	Channel 2	CAM 2	Channel 3	CAM 3	Channel 4	CAM 4
Channel 5	CAM 5	Channel 6	CAM 6	Channel 7	CAM 7	Channel 8	CAM 8
Channel 9	CAM 9	Channel 10	CAM 10	Channel 11	CAM 11	Channel 12	CAM 12
Channel 13	CAM 13	Channel 14	CAM 14	Channel 15	CAM 15	Channel 16	CAM 16
Channel 17	CAM 17	Channel 18	CAM 18	Channel 19	CAM 24	Channel 20	CAM 20
Channel 21	CAM 21	Channel 22	CAM 22	Channel 23	CAM 23	Channel 24	CAM 24
Channel 25	CAM 25	Channel 26	CAM 26	Channel 27	CAM 27	Channel 28	CAM 28
Channel 29	CAM 29	Channel 30	CAM 30	Channel 31	CAM 31	Channel 32	CAM 32

Figure 5-25

5.8.1.5 IPC Upgrade

This interface is to upgrade network camera. See Figure 5-26.

Click Browse button to select upgrade file. Or you can use filter to select several network cameras at the same time.

Γ	IPC Upgrad	e								
	Select Firmwa Device Upgrade			Browse				Display Filter	Null	~
		Channel	Status	IP Address	Port	Manufacturer	Туре	Version	Upgrade Status	
		1		10.15.9.144	37777	Private	IP Camera	2.210		
		2		10.15.6.100	37777	Private	NVR-P	3.200		
		3		10.15.9.126	37777	Private				
		4	.	10.15.6.109	37777	Private	NVR-P	2.610		
		5		10.15.6.108	37777	Private	NVR-P	2.610		
l										~
	Upgrade									

Figure 5-26

5.8.2 Network

5.8.2.1 TCP/IP

The TCP/IP interface is shown as in Figure 5-27.

Network Mode	Multi-address
Default Card	Ethernet Card1
Ethernet Card	Ethernet Card1 Default Card
Mode	⊙ STATIC O DHCP
MAC Address	88 38 44 62 11 fe
MTU	1500
IP Version	IPv4
IP Address	10 . 15 . 6 . 144
Subnet Mask	255 . 255 . 0 . 0
Default Gateway	10 . 15 . 0 . 1
Preferred DNS	10 . 1 . 2 . 80
Alternate DNS	10 . 1 . 2 . 81
LAN Download	

Figure 5-27

Parameter	Function
Mode	There are two modes: static mode and the DHCP mode.
	 The IP/submask/gateway are null when you select the DHCP mode to auto search the IP.
	 If you select the static mode, you need to set the

	IP/submask/gateway manually.
	 If you select the DHCP mode, you can view the IP/submask/gateway from the DHCP.
	 If you switch from the DHCP mode to the static mode, you need to reset the IP parameters.
	 Besides, IP/submask/gateway and DHCP are read-only when the PPPoE dial is OK.
Mac Address	It is to display host Mac address.
IP Version	It is to select IP version. IPV4 or IPV6.
	You can access the IP address of these two versions.
IP Address	Please use the keyboard to input the corresponding number to modify the IP address and then set the corresponding subnet mask and the default gateway.
Preferred DNS	DNS IP address.
Alternate DNS	Alternate DNS IP address.
	es of IPv6 version, default gateway, preferred DNS and in put value shall be 128-digit. It shall not be left in blank.
LAN load	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.

5.8.2.2 P2P

The P2P interface is shown as in Figure 5-28.

You can visit www.easy4ip.com to scan the QR code to login.

TCP/IP	P2P	
Enable		
Status	Not Connected	
	Save	Refresh

Figure 5-28

5.8.2.3 Connection

The connection interface is shown as in Figure 5-29.

CONNECTION		
Max Connection	128	(0~128)
TCP Port	37777	(1025~65535)
UDP Port	37778	(1025~65535)
HTTP Port	80	(1~65535)
HTTPS Port	443	(128~65535)
RTSP Port	554	(128~65535)
RTSP Format	rtsp:// <user name="">:<passw< th=""><th>ord>@<ip address="">:<port>/cam/realmonitor?channel=1&subtype=0</port></ip></th></passw<></user>	ord>@ <ip address="">:<port>/cam/realmonitor?channel=1&subtype=0</port></ip>
	channel: Channel, 1-32; sub	type: Code-Stream Type, Main Stream 0, Sub Stream 1.
	Save	efresh Default

Figure 5-29

Please refer to the following sheet for detailed information.

Parameter	Function
Max connection	It is the max Web connection for the same device. The value ranges from 1 to 120. The default setup is 120.
TCP port	The default value is 37777. You can input the actual port number if necessary.
UDP port	The default value is 37778. You can input the actual port number if necessary.
HTTP port	The default value is 80. You can input the actual port number if necessary.
HTTPS	The default value is 443. You can input the actual port number if necessary.
RTSP port	The default value is 554.

5.8.2.4 WIFI AP

Please note this function is for some series only.

The WIFI AP interface is shown as in Figure 5-30. Here you can set WIFI hotspot, so that the network camera can use the hotspot to connect to the network.

BID	nvrap	Password	147258369	1		
ithorization Mode	WPA2_PSK	Encrypt Type	AES	~		
art IP	11 . 1 . 1 .	100 End IP	11 . 1 . 1 .	200		
reless IP	11.1.1.2					
PS						
PS Button	WPS					
	/ICE					
MOTE DE Signal Intens		MAC AG	kdress	3it Size	Channel	Туре
		MAC AC	idress i	3it Size	Channel	Туре
		MAC Ad	ldress I	3it Size	Channel	Туре
		MAC Ac	ldress i	3it Size	Channel	Туре
		MAC AG	idress i	3it Size	Channel	Туре
		MAC AC	ldress (3it Size	Channel	Туре
		MAC A	ldress (3it Size	Channel	Туре
		MAC A	ldress I	3it Size	Channel	Туре
		MAC A	tdress i	3it Size	Channel	Туре

Figure 5-30

Please refer to the following sheet for detailed information.

Parameter	Function
SSID	It is to set SSID name. You can use this name to search the
	device.
Password	It is to set SSID password. You can use this password to
	connect to the network.
Authorization	Select authentication from the dropdown list.
Encrypt type	Select encryption type from the dropdown list.
Start IP/End IP	Input start IP and end IP. The NVR can allocate the IP address in the range you specified here.
WPS	Click WPS button to enable WPS function. After the network camera enabled this function, it can automatically connect to the network.
Remote device	In the list, you can view the network camera(s) that connected to the NVR. It includes signal intensity, IP, MAC address, bit rate, channel number, type, status and etc.

5.8.2.5 WIFI

Please note this function is for the device of WIFI module.

The WIFI interface is shown as in Figure 5-31.

WIFI				
Enable				Search SSID
SSID List				
	SSID	Security Type	Encryption Type	Signal Intensity
				 ▼
WIFI Working Info Current Hotspot IP Address Subnet Mask Default Gateway				_ ▼
Save	Refresh			

Figure 5-31

Please check the box to enable WIFI function and then click the Search SSID button. Now you can view all the wireless network information in the following list. Double click a name to connect to it. Click Refresh button, you can view latest connection status.

5.8.2.6 3G

5.8.2.6.1CDMA/GPRS

The CDMA/GPRS interface is shown as in Figure 5-32.

CDMA/GPRS	Mobile	
WI AN TYPE	No Consiso	Enable
WLAN Type	No Service	Enable
APN		Dial/SMS Activate
AUTH	PAP	
Dial No.		
User Name		
Password		
Pulse Interval		Second
WLAN Status		
IP Address		
Wireless Signal	Search	
	Save	Refresh Default

Please refer to the following sheet for detailed information.

Parameter	Function	
WLAN type	Here you can select 3G network type to distinguish the 3G module from different ISP. The types include WCDMA, CDMA1x and etc.	
APN/Dial No.	Here is the important parameter of PPP.	
Authorization	It includes PAP,CHAP,NO_AUTH.	
Pulse interval	It is to set time to end 3G connection after you close extra stream monitor. For example, if you input 60 here, system ends 3G connection after you close extra stream monitor 60 seconds.	
Important If the pulse interval is 0, then system does not end 3G connection after you close the extra stream monitor. 		

 Pulse interval here is for extra stream only. This item is null if you are using main stream to monitor.

5.8.2.6.2Mobile

The mobile setup interface is shown as in Figure 5-33.

Here you can activate (send out "on") or turn off (Send out "off") the 3G connected phone or mobile phone, or the phone you set to get alarm message.

	-	1
Check send SMS box and then input the phone number in the receiver column. Click		

to add one

receiver. Repeat the above steps you can add more phones. Select a phone number and then click you can delete it. Click OK button to complete the setup.

CDMA/GPRS	Mobile			
Send SMS		SMS Activate	Tel Activate	
Receiver	+	Sender	Caller	. <u>+</u> -
18969021865	-	18969021865	-	
Title NVR Message	•			
	Save	Refresh Default		

5.8.2.7 PPPoE

The PPPoE interface is shown as in Figure 5-34.

Input the PPPoE user name and password you get from the IPS (internet service provider) and enable PPPoE function. Please save current setup and then reboot the device to get the setup activated.

Device connects to the internet via PPPoE after reboot. You can get the IP address in the WAN from the IP address column.

Please note, you need to use previous IP address in the LAN to login the device. Please go to the IP address item to via the device current device information. You can access the client-end via this new address.

PPPoE	
Enable User Name Password IP Address	0 · 0 · 0 · 0 0 · 0 · 0 · 0 Save Refresh Default

Figure 5-34

5.8.2.8 DDNS

The DDNS interface is shown as in Figure 5-35.

The DDNS is to set to connect the various servers so that you can access the system via the server. Please go to the corresponding service website to apply a domain name and then access the system via the domain. It works even your IP address has changed.

Please select DDNS from the dropdown list (Multiple choices). Before you use this function, please make sure your purchased device support current function.

DDNS	
Enable	
DDNS Type	Quick DDNS
Host IP	www.quickddns.com
Domain Mode	 Default Domain Custom Domain Name
Domain Name	9002A9112233 .quickddns.com Test
Email Address	(Optional)Please input an email address.
	Save Refresh Default

Figure 5-35

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.
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.
Update period	Device sends out alive signal to the server regularly. You can set interval value between the device and DDNS server here.

Quick 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 quick DDNS works with the device from the manufacturer so that it can add the extension function.

2) Function Introduction

The quick 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 Quick DDNS, you need to enable this service and set proper server address, port value and domain name.

- Server address: www.quickddns.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.

5.8.2.9 IP filter

The IP filter interface is shown as in Figure 5-36.

After you enabled trusted sites function, only the IP listed below can access current NVR. If you enable blocked sites function, the following listed IP addresses can not access current NVR.

IP FILTER			
🗹 Enable 💿 Truste	d Sites O Blocked Sites		
Trusted Sites	Blocked Sites		
	IP Address	Edit	Delete
			<
Add	Refresh Default		

Figure 5-36

5.8.2.10 Email

The email interface is shown as in Figure 5-37.

Email	
Enable	
Enable	
SMTP Server	10.1.0.97
Port	25
Anonymous	
User Name	ge_xiaoxia
Password	•••••
Sender	ge_xiaoxia@it.com
Encrypt Type	NONE
Subject	NVR ALERT 🗹 Attachment
Receiver	+
	ge_xiaoxia@it.com
Interval	120 Second(0~3600)
Health Enable	60 Minute (30~1440)
Filediar Enable	minute (of 1440)
	Test
	Save Refresh Default

Figure 5-37

Parameter	Function
Enable	Please check the box here to enable email function.
SMTP Server	Input server address and then enable this function.
Port	Default value is 25. You can modify it if necessary.

Parameter	Function
Anonymity	For the server supports the anonymity function. You can auto login anonymously. You do not need to input the user name. password and the sender information.
User Name	The user name of the sender email account.
Password	The password of sender email account.
Sender	Sender email address.
Authentication (Encryption mode)	You can select SSL or none.
Subject	Input email subject here.
Attachment	System can send out the email of the snapshot picture once you check the box here.
Receiver	Input receiver email address here. Max three addresses. It supports SSL, TLS email box.
Interval	The send interval ranges from 0 to 3600 seconds. 0 means there is no interval. 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.
Health mail enable	Please check the box here to enable this function.
Update period (interval)	This function allows the system to send out the test email to check the connection is OK or not. Please check the box to enable this function and then set the corresponding interval. The value ranges from 30 minutes to 1440 minutes. System can send out the email regularly as you set here.
Email test	The system will automatically sent out a email once to test the connection is OK or not .Before the email test, please save the email setup information.

5.8.2.11 UPnP

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. See Figure 5-38.

- In the Windows OS, From Start->Control Panel->Add or remove programs. Click the "Add/Remove Windows Components" and then select the "Network Services" from the Windows Components
- Windows Components" and then select the "Network Services" from the Windows Components Wizard.
- Click the Details button and then check the "Internet Gateway Device Discovery and Control client" and "UPnP User Interface". Please click OK to begin installation.
- Enable UPnP from the Web. If your UPnP is enabled in the Windows OS, the NVR can auto detect it via the "My Network Places"

UPNP								
PAT	Enable O Disable							
Status	Disable							
LAN IP	0.0.0							
WAN IP	0.0.0							
Port Mappin	g List							
No.		Service Name	Protocol	Internal Port	External Port	Modify	Delete	
1		HTTP	TCP	80	80	2	8	~
2	✓	TCP	TCP	37777	37777	2	8	
3	v	UDP	UDP	37778	37778	2	8	
4		RTSP	UDP	554	554	2	8	
5	V	RTSP	TCP	554	554	2	8	
6		SNMP	UDP	161	161	2	8	
7		HTTPS	TCP	443	443	2	8	
								~
Add								
Save	Refresh	Default						

Figure 5-38

Please refer to the following sheet for detailed information.

Parameter	Function		
PAT	Check the corresponding box to enable PAT function.		
Status	Dsiplay UPnP function status.		
Port mappling list	It is corresponding to the UPnP mapping information on the router. Check the box before the service name to enable current PAT service. Otherwise, the service is null. • Service name: Custmozied name. • Prptocol: Protocol type. • Internal port: The port maped to the port. • External port: The port current device needs to map. • Device has three mapping items: HTTP/TCP/UDP. Note When you set the external port (outport) of the router, the value ranges from 1024 to 5000. Do not use port 1~255 or system port 256~1023, in case there is conflict.		
Add	Click Add button to add map relationship. Note For the data transmission protocol TCP/UDP, the external port and the internal port shall be the same to guarantee proper data transmission.		
Delete	Select ona service and then click 🤤 to delete map relationship.		

5.8.2.12 SNMP

The SNMP interface is shown as in Figure 5-39.

The SNMP allows the communication between the network management work station software and the proxy of the managed device. It is reserved for the 3rd party to develop.

SNMP V1/V2	
Enable	
SNMP Port	161 (0~65535)
Read Community	public
Write Community	private
Trap Address	
Trap Port	162 (0~65535)
Version	✓ V1 ✓ V2
	Save Refresh Default

Figure 5-39

Please refer to the following sheet for detailed information.

Parameter	Function
SNMP Port	The listening port of the proxy program of the device. It is a UDP port not a TCP port. The value ranges from 1 to 65535. The default value is 161
Read Community	It is a string. It is a command between the manage process and the proxy process. It defined the authentication, access control and the management relationship between one proxy and one group of the managers. Please make sure the device and the proxy are the same. The read community will read all the objects the SNMP supported in the specified name. The default setup is public.
Write Community	It is a string. It is a command between the manage process and the proxy process. It defined the authentication, access control and the management relationship between one proxy and one group of the managers. Please make sure the device and the proxy are the same. The read community will read/write/access all the objects the SNMP supported in the specified name. The default setup is write.
Trap address	The destination address of the Trap information from the proxy program of the device.
Trap port	The destination port of the Trap information from the proxy program of the device. It is for the gateway device and the client-end PC in the LAN to exchange the information. It is a non-protocol connection port. It has no effect on the network applications. It is a UDP port not TCP port. The value ranges from 1 to 165535. The default value is 162.
SNMP version	 Check V1, system only processes the information of V1. Check V2, system only processes the information of V2.

5.8.2.13 Multicast

The multicast interface is shown as in Figure 5-40.

Multicast is a transmission mode of data packet. When there is multiple-host to receive the same data

packet, multiple-cast is the best option to reduce the broad width and the CPU load. The source host can just send out one data to transit. This function also depends on the relationship of the group member and group of the outer.

Multicast	
Enable	
IP Address	239 . 255 . 42 . 42 (224.0.0.0~239.255.255.255)
Port	36666 (1025~65500)
	Save Refresh Default



5.8.2.14 Auto Register

The auto register interface is shown as below. See Figure 5-41.

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.

AUTO REGISTER	
Enable	
Host IP	0.0.0.0
Port	8000
Sub-device ID	0
	Save Refresh Default

Figure 5-41

5.8.2.15 Alarm Centre

The alarm center interface is shown as below. See Figure 5-42.

This interface is reserved for you to develop. System can upload alarm signal to the alarm center when local alarm occurs.

Before you use alarm center, please set server IP, port and etc. When an alarm occurs, system can send out data as the protocol defined, so the client-end can get the data.

Alarm Centre	
Enable	
Protocol Type	ALARM CENTER
Host IP	20 . 2 . 12 . 27
Port	1
Self-report Time	Everyday at 08:00
	Save Refresh Default



5.8.2.16 HTTPS

In this interface, you can set to make sure the PC can successfully login via the HTTPS. It is to guarantee communication data security. The reliable and stable technology can secure the user information security and device safety. See Figure 5-43.

Note

- You need to implement server certificate again if you have changed device IP.
- You need to download root certificate if it is your first time to use HTTPS on current PC.

HTTPS	
Create Server Certificate	Download Root Certificate



5.8.2.16.1 Create Server Certificate

If it is your first time to use this function, please follow the steps listed below.

Create Server Certificate

In Figure 5-43, click button, input country name, state name and etc. Click Create button. See Figure 5-44.

Note

Please make sure the IP or domain information is the same as your device IP or domain name.

Create Server Certifi	cate	X
Country	AU	
State		
Locatity		
Oragnization		
Oragnization Unit		
IP or Domain Name	10.10.6.238	
	Create Cancel	

Figure 5-44

You can see the corresponding prompt. See Figure 5-45. Now the server certificate is successfully created.

HTTPS		
Create Server Certific	Download Root Certificate	
Create Succeed		

Figure 5-45

5.8.2.16.2 Download root certificate

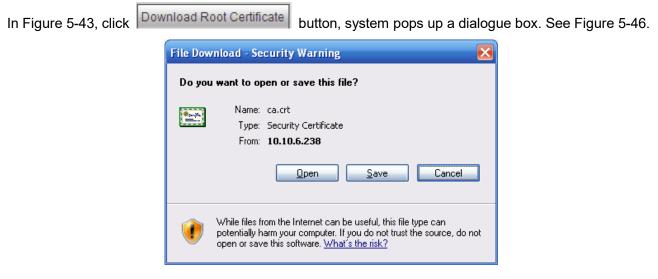


Figure 5-46

Click Open button, you can go to the following interface. See Figure 5-47.





Click Install certificate button, you can go to certificate wizard. See Figure 5-48.



Figure 5-48

Click Next button to continue. Now you can select a location for the certificate. See Figure 5-49.

Certificate Import Wizard	×
Certificate Store Certificate stores are system areas where certificates are kept.	
Windows can automatically select a certificate store, or you can specify a loca	ation for
• Automatically select the certificate store based on the type of certifical	æ
OPlace all certificates in the following store	
Certificate store:	
Brov	vse
< <u>B</u> ack <u>N</u> ext >	Cancel

Figure 5-49

Click Next button, you can see the certificate import process is complete. See Figure 5-50.

Certificate Import Wizard		\mathbf{X}			
	Completing the Certificate Import Wizard You have successfully completed the Certificate Import wizard.				
	You have specified the follow	wing settings:			
	Certificate Store Selected Content	Automatically determined by t Certificate			
	< <u>B</u> ack	Finish Cancel			

Figure 5-50

Click Finish button, you can see system pops up a security warning dialogue box. See Figure 5-51.



Figure 5-51

Click Yes button, system pops up the following dialogue box, you can see the certificate download is complete. See Figure 5-52.



Figure 5-52

5.8.2.16.3 View and set HTTPS port

From Setup->Network->Connection, you can see the following interface. See Figure 5-53. You can see HTTPS default value is 443.

CONNECTION		
Max Connection	128	(0~128)
TCP Port	37777	(1025~65535)
UDP Port	37778	(1025~65535)
HTTP Port	80	(1~65535)
HTTPS Port	443	(128~65535)
RTSP Port	554	(128~65535)
RTSP Format	rtsp:// <user name="">:<passw< td=""><td>ord>@<ip address="">:<port>/cam/realmonitor?channel=1&subtype=0</port></ip></td></passw<></user>	ord>@ <ip address="">:<port>/cam/realmonitor?channel=1&subtype=0</port></ip>
	channel: Channel, 1-32; subt	type: Code-Stream Type, Main Stream 0, Sub Stream 1.
	Save	efresh Default

Figure 5-53

5.8.2.16.4 Login

Open the browser and then input https://xx.xx.xx.xx:port.

xx.xx.xx.xx: is your device IP or domain mane.

Port is your HTTPS port. If you are using default HTTPS value 443, you do not need to add port information here. You can input <u>https://xx.xx.xx</u> to access.

Now you can see the login interface if your setup is right.

5.8.3 Event

5.8.3.1 Video detect

5.8.3.1.1 Motion Detect

After analysis video, system can generate a video loss alarm when the detected moving signal reached the sensitivity you set here.

Motion Detect	Video Loss Tampering
🗹 Enable	1
Period	Setup
Anti-dither	5 Second (5-600) Sensitivity 3
Region	Setup
Record Channel	Setup
Delay	10 Second (10-300)
Alarm Out	1 2 3
Latch	10 Second(1-300)
PTZ Activation	Setup
✓ Tour	Setup
Snapshot	Setup
Show Message	🗌 Send Email 🔽 Alarm Upload 📄 Buzzer 📄 Message
	Copy Save Refresh Default

The motion detect interface is shown as in Figure 5-54.

Figure 5-54

Setup				Þ
	Thursday		Сору	
	✓ 00 : 0	00 -	24 : 00	
	00 : 0	00 -	24 : 00	
	00 : 0	00 -	24 : 00	
	00 : 0	00 -	24 : 00	
	00 : 0	00 -	24 : 00	
	00 : 0	00 -	24 : 00	
	Save		Cancel]

Figure 5-55

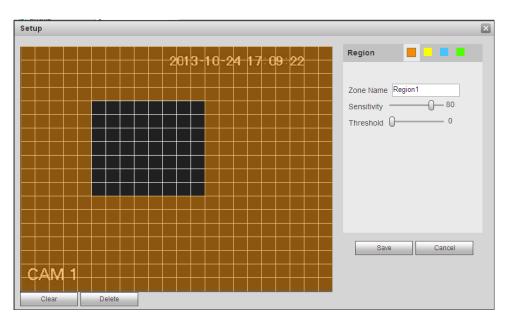


Figure 5-56

PTZ Activation				×
Channel 1	None	~	0	
Channel 2	None	~	0	
Channel 3	None	~	0	
Channel 4	None	~	0	
Channel 5	None	~	0	
Channel 6	None	~	0	
Channel 7	None	~	0	
Channel 8	None	~	0	
Channel 9	None	~	0	
Channel 10	None	~	0	
Channel 11	None	~	0	
Channel 12	None	~	0	
Channel 13	None	~	0	
Channel 14	None	~	0	
Channel 15	None	v	0	
				>
	Save	Cancel	_	

Figure 5-57

Tour			×
All 1 2 3 4 5]		
	Save	Cancel	

Figure 5-58

Snapshot			×
All 1 2 3 4 5]		
	Save	Cancel	

Figure 5-59

Parameter	Function
Enable	You need to check the box to enable motion detection function. Please select a channel from the dropdown list.
Period	Motion detection function becomes activated in the specified periods. See Figure 5-55.
	There are six periods in one day. Please draw a circle to enable corresponding period.
	Click OK button, system goes back to motion detection interface, please click save button to exit.
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 5s to 600s.
Sensitivity	There are six levels. The sixth level has the highest sensitivity.
Region	If you select motion detection type, you can click this button to set motion detection zone. The interface is shown as in Figure 5-56. Here you can set motion detection zone. There are four zones for you to set. Please select a zone first and then left drag the mouse to select a zone. The corresponding color zone displays different detection 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.
Record channel	System auto activates motion detection channel(s) to record once an alarm occurs. Please note you need to set motion detect record period and go to Storage-> Schedule to set current channel as schedule record.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Alarm out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when an alarm occurs.
Latch	System can delay the alarm output for specified time after an alarm ended. The value ranges from 1s to 300s.
Show	System can pop up a message to alarm you in the local host

Parameter	Function
message	screen if you enabled this function.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Message	When 3G network connection is OK, system can send out a message when motion detect occurs.
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
Tour	You need to click setup button to select tour channel. System begins 1-wiindow or multiple-window tour display among the channel(s) you set to record when an alarm occurs. See Figure 5-58.
PTZ Activation	Here you can set PTZ movement when alarm occurs. Such as go to preset X. See Figure 5-57.
Snapshot	Click setup button to select snapshot channel. See Figure 5-59.
Video Matrix	This function is for motion detect only. Check the box here to enable video matrix function. Right now system supports one-channel tour function. System takes "first come and first serve" principle to deal with the activated tour. System will process the new tour when a new alarm occurs after previous alarm ended. Otherwise it restores the previous output status before the alarm activation.

5.8.3.1.2Video Loss

The video loss interface is shown as in Figure 5-60.

Please note video loss does not support anti-dither, sensitivity, region setup. For rest setups, please refer to chapter 5.8.3.1.1 motion detect for detailed information.

Motion Detect	Video Loss Tampering
Enable	1
Period	Setup
Record Channel	Setup
Delay	10 Second (10-300)
Alarm Out	1 2 3
Latch	10 Second(1-300)
PTZ Activation	Setup
✓ Tour	Setup
Snapshot	Setup
Show Message	Send Email 🔽 Alarm Upload 🔲 Buzzer 🔲 Message
	Copy Save Refresh Default

5.8.3.1.3 Tampering

The tampering interface is shown as in Figure 5-61.

After analysis video, system can generate a tampering alarm when the detected moving signal reached the sensitivity you set here.

For detailed setups, please refer to chapter 5.8.3.1.1 motion detect for detailed information.

Motion Detect	Video Loss Tampering
Enable	1
Period	Setup
Record Channel	Setup
Delay	10 Second (10-300)
🗹 Alarm Out	1 2 3
Latch	10 Second(1-300)
PTZ Activation	Setup
✓ Tour	Setup
Snapshot	Setup
Show Message	 ☐ Send Email 🔽 Alarm Upload 🔲 Buzzer 🔲 Message
	Copy Save Refresh Default

Figure 5-61

5.8.3.2 Alarm

Before operation, please make sure you have properly connected alarm devices such as buzzer. The input mode includes local alarm and network alarm.

5.8.3.2.1 Local Alarm

The local alarm interface is shown as in Figure 5-62. It refers to alarm from the local device.

Local Alarm	Net Alarm IPC Ext Alarm IPC Offline Alarm
🗹 Enable	1 Alarm Alias Local Alarm 1
Period Anti-dither	Setup 5 Second(5-600) Type Normal Open
Record Channel	Setup
Delay	10 Second (10-300)
Alarm Out	1 2 3
Latch	10 Second(1-300)
PTZ Activation	Setup
🗹 Tour	Setup
🗹 Snapshot	Setup
Show Message	Send Email 🗹 Alarm Upload 🗋 Buzzer
	Copy Save Refresh Default

Figure 5-62

Setup		E
	Thursday 🕑 Copy	
	☑ 00 : 00 - 24 : 00	
	00 : 00 - 24 : 00	
	00 : 00 - 24 : 00	
	00 : 00 - 24 : 00	
	00 : 00 - 24 : 00	
	00 : 00 - 24 : 00	
	Save Cancel	

Figure 5-63

PTZ Activation				×
Channel 1	None	~	0	
Channel 2	None	~	0	
Channel 3	None	~	0	
Channel 4	None	~	0	
Channel 5	None	~	0	
Channel 6	None	~	0	
Channel 7	None	~	0	
Channel 8	None	~	0	
Channel 9	None	~	0	
Channel 10	None	~	0	
Channel 11	None	~	0	
Channel 12	None	~	0	
Channel 13	None	~	0	
Channel 14	None	~	0	
Channel 15	None	~	0	
<				>
	Save	Cance	el	



Parameter	Function		
Enable	You need to check the box to enable this function.		
	Please select a channel from the dropdown list.		
Period	This 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 local alarm interface, please click save button to exit.		
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 5s to 600s.		
Sensor type	There are two options: NO/NC.		
Record channel	System auto activates motion detection channel(s) to record once an alarm occurs. Please note you need to se alarm record period and go to Storage-> Schedule to set current channel as schedule record.		
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.		
Alarm out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when an alarm occurs.		
Latch	System can delay the alarm output for specified time after an alarm ended. The value ranges from 1s to 300s.		

Parameter	Function
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre).
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
Tour	You need to click setup button to select tour channel. System begins 1-wiindow or multiple-window tour display among the channel(s) you set to record when an alarm occurs. See Figure 5-58.
PTZ Activation	Here you can set PTZ movement when alarm occurs. Such as go to preset X. See Figure 5-64.
Snapshot	Click setup button to select snapshot channel. See Figure 5-59.

5.8.3.2.2Net Alarm

The network alarm interface is shown as in Figure 5-65.

Network alarm refers to the alarm signal from the network. System does not anti-dither and sensor type setup. For setup information, please refer to chapter 5.8.3.2.1.

Local Alarm	Net Alarm	IPC Ext Alarm	IPC Offline Alarm	
Enable	1	 Alarm Alias 	哈哈哈哈	
Period	Setup			
Record Channel	Setup			
Delay	10 Second	(10-300)		
Alarm Out	1 2 3			
Latch	10 Second(1-300)		
PTZ Activation	Setup			
✓ Tour	Setup			
Snapshot	Setup			
Show Message	🗌 Send Email 🗌 Ala	arm Upload 🗹 Buzzer 🗹	Message	
	Сору	Save Refre	esh Default	

Figure 5-65

5.8.3.2.3 IPC external alarm

The IPC external alarm interface is shown as in Figure 5-66.

Network alarm refers to the alarm signal from the network. System does not anti-dither and sensor type

Local Alarm	Net Alarm IPC Ext Alarm IPC Offline Alarm
🗹 Enable	1
Period Anti-dither	Setup 5 Second(5-600) Type Normal Close
 Record Channel Delay Alarm Out 	Setup 10 Second (10-300) 1 2 3
Latch PTZ Activation Tour Snapshot	10 Second(1-300) Setup Setup Setup
Show Message	Send Email Alarm Upload Buzzer Message Copy Save Refresh Default

setup. For setup information, please refer to chapter 5.8.3.2.1.

Figure 5-66

5.8.3.2.4 IPC Offline Alarm

The IPC offline alarm interface is shown as in Figure 5-67.

System can generate an alarm once the network camera is offline. For setup information, please refer to chapter 5.8.3.2.1.

Local Alarm	Net Alarm IPC Ext Alarm IPC Offline Alarm
Enable	1
Record Channel Delay	Setup 10 Second (10-300)
Alarm Out	1 2 3
Latch	10 Second(1-300)
PTZ Activation	Setup
Tour	Setup
Snapshot	Setup
Show Message	Send Email 🔲 Alarm Upload 🔲 Buzzer 🗋 Message
	Copy Save Refresh Default

5.8.3.3 Abnormality

It includes six types: No disk, disk error, disks no space, disconnect, IP conflict, MAC conflict. See Figure 5-68 through Figure 5-73.

No HDD	HDD Error	No Space	Disconnect	IP Conflict	MAC Conflict
Enable					
Alarm Out	1 2 3				
Latch	10 Second(1-3	300)			
Show Message	Send Email 🗹 Alarm	Upload 🗌 Buzzer 🗌	Message		
	Save	Refresh			

Figure 5-68

No HDD	HDD Error	No Space	Disconnect	IP Conflict	MAC Conflict	
Enable						
Alarm Out	1 2 3					
Latch	10 Second(1-	300)				
Show Message	🗹 Send Email 🗹 Alarn	n Upload 🗹 Buzzer 🗌	Message			
	Save	Refresh				

Figure 5-69

No HDD	HDD Error	No Space	Disconnect	IP Conflict	MAC Conflict	
Enable	Less Than 20 %	1				
Alarm Out	1 2 3					
Latch	10 Second (1-30	0)				
Show Message	Send Email 🗹 Alarm 🛛	Jpload 🗆 Buzzer 🗆	Message			
	Save	efresh				

Figure 5-70

No HDD	HDD Error	No Space	Disconnect	IP Conflict	MAC Conflict	
Enable						
Alarm Out	1 2 3					
Latch	10 Second(1-30))				
Show Message	Send Email	Buzzer 🗌 Message				
	Save	efresh				

No HDD	HDD Error	No Space	Disconnect	IP Conflict	MAC Conflict	
Enable						
Alarm Out	1 2 3					
Latch	10 Second(1-	300)				
Show Message	Send Email	Buzzer 🗌 Message				
	Save	Refresh				

Figure 5-72

No HDD	HDD Error	No Space	Disconnect	IP Conflict	MAC Conflict
Enable					
Alarm Out	1 2 3				
Latch	10 Second(1-	300)			
Show Message	Send Email	Buzzer 🗌 Message			
	Save	Refresh			

Figure 5-73

Parameter	Function
Event Type	The abnormal events include: No disk, disk error, disk no space, net disconnection, IP conflict and MAC conflict.
	You can set one or more items here.
	Less than: You can set the minimum percentage value here (For disk not space only). The device can alarm when capacity is not sufficient.
	You need to draw a circle to enable this function.
Enable	Check the box here to enable selected function.
Alarm Out	Please select corresponding alarm output channel when an alarm occurs. You need to check the box to enable this function.
Latch	The alarm output can delay for the specified time after an alarm stops. The value ranges from 1s to 300s.
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 centre (Including alarm centre.
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.

Parameter	Function
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.

5.8.4 Storage

5.8.4.1 Schedule

In this interfaces, you can add or remove the schedule record setup. See Figure 5-74.

There are four record modes: general (auto), motion detect, alarm and MD&alarm. There are six periods in one day.

You can view the current time period setup from the color bar.

- Green color stands for the general record/snapshot.
- Yellow color stands for the motion detect record/snapshot..
- Red color stands for the alarm record/snapshot.
- Blue color stands for MD&alarm record/snapshot.

Record		Sn	apsho	t									
Channel 1			Ŧ	Pre-rec	ord 4		Se	econd (0	~30)				
ANR	360	0		Second									
0 Sunday	2	4	6	8	10	12	14	16	18	20	22	24	
													Setup
Monday													Setup
Tuesday													Setup
Wednesday													Setup
Thursday													Setup
Friday													Setup
Saturday													Setup
	Сору			Save		Refre	sh		Defau	lt			

Figure 5-74

Fime Period 1	00 : 00		24 : 00	Regular		🗌 Alarm	MD&Alarm
Fime Period 2	00 : 00	:	24 : 00	🗌 Regular	🗆 MD	🗌 Alarm	MD&Alarm
Fime Period 3	00:00	:	24 : 00	Regular	🗆 MD	🗌 Alarm	MD&Alarm
Fime Period 4	00 : 00		24 : 00	Regular	🗆 MD	🗌 Alarm	MD&Alarm
Fime Period 5	00 : 00		24 : 00	Regular	🗆 MD	🗌 Alarm	MD&Alarm
Fime Period 6	00 : 00	:	24 : 00	🗌 Regular	🗆 MD	🗌 Alarm	MD&Alarm
Ali 🗆 Si	unday 🗌 Mon	day (🗌 Tuesday 🔲	Wednesday 🗌] Thursday	/ 🗌 Friday	Saturday
🗹 Holiday							
			Save	Cancel			

Figure 5-75

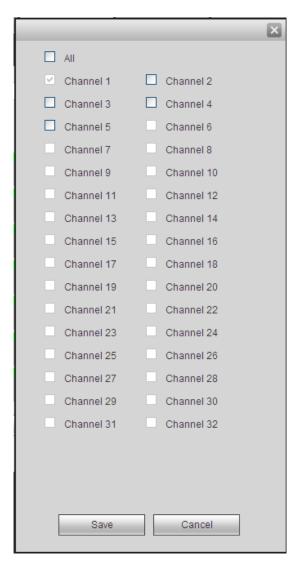


Figure 5-76

Parameter	Function
Channel	Please select a channel from the dropdown list.
Pre-record	Please input pre-record time here. The value ranges from 0 to 30.
Redundancy	Check the box here to enable redundancy function. Please note this function is null if there is only one HDD.
Snapshot	Check the box here to enable snapshot function.
Holiday	Check the box here to enable holiday function.
Setup	Click the Setup button, you can set record period. See Figure 5-75. There are six periods in one day. If you do not check the date at the bottom of the interface, current setup is for today only. Please click Save button and then exit.
Сору	Copy function allows you to copy one channel setup to another. After setting in channel, click Copy button, you can go to interface Figure 5-76. 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

Parameter	Function
	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.

5.8.4.2 HDD Manager

5.8.4.2.1 Local Storage

The local interface is shown as in Figure 5-77. Here you can see HDD information. You can also operate the read-only, read-write, redundancy (if there are more than on HDD) and format operation.

Local Storage	HDD	FTP		
Device Nam	10	HDD Operation	Status	Free Space/Total Space
SATA-2			Normal	129.77GB/1862.88GB
				<u>⊻</u>
Save	Refresh	Format		

Figure 5-77

5.8.4.2.2 HDD

The HDD interface is to set HDD group. See Figure 5-78.

Local Storage	HDD	FTP	
HDD	_	_	HDD Group
1			-
2			1
Save	Refresh		

Figure 5-78

5.8.4.2.3 FTP

The FTP interface is to set FTP information. See Figure 5-79.

Please set the FTP as your remote storage location. System can save record file or snapshot picture to the FTP once the network is offline or malfunction.

Local Storage	HDD	FTP	
Locarololage	100		
Enable			
Host IP	0.0.0.0	*	
Port	21	*	
User Name			
Password		Anonymous	
Remote Directory			
File Length	0	М	
Image Upload Interval	2	Second	
Channel	1 💌	-	
	Tuesday 💌	·	
Period 1		Alarm MD Reg	
Period 2	00 : 00 - 24 : 00	Alarm 🗌 MD 🗌 Reg	ular
	Test	Save Refres	n Default

Figure 5-79

5.8.4.3 Record Control

The interface is shown as in Figure 5-80.

Record						
			_	_		
Record I						
Auto	۲	۲	۲	۲	•)
Manual	0	0	0	0	0 0)
Off	0	0	0	0	0 0	
Sub Stre	am					
Auto	\odot	۲	۲	۲	•)
Manual	0	0	0	0	0 0	
Off	0	0	0	0	0 0)
Snapsho	t					
Enable	۲	۲	۲	۲	•)
Disable	0	0	0	0	0 0)
			Γ		Save	Refresh Default
				_		

Figure 5-80

Parameter	Function
Channel	Here you can view channel number. The number displayed here is the max channel amount of your device.
Status	There are three statuses: schedule, manual and stop.
Schedule	System enables auto record function as you set in record schedule setup (general, motion detect and alarm).

Manual	It has the highest priority.
	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.
Start all/	Check the corresponding All button, you can enable or disable all
stop all	channels record.

5.8.4.4 RAID Manager

Important

Please make sure your purchased product support the RAID function, otherwise you can not see the following interface.

5.8.4.4.1 RAID Config

It is for you to manage RAID HDD. It can display RAID name, type, free space, total space, status and etc. Here you can add/delete RAID HDD.

Click Add button to select RAID type and then select HDDs, click OK button to add. See Figure 5-81.

	Raid Config					
14	Name	Туре	Status	Remain/Total	Detail	Delete
4						
	Add	Hotspare	Refresh			

Figure 5-81

5.8.4.4.2Hotspare disks

In Figure 5-81, click hotspare button, you can add the hot spare HDD. See Figure 5-82. The type includes two options:

- Global: It is global hotspare disk. When any RAID becomes degrading, it can replace and build the RAID.
- Local: It is local hotspare disk. When the specified RAID becomes degrading, it can replace and build the RAID.

Select a hot spare device and then click Delete button. Click Apply button to delete.

Hotspare						×
Туре	Global 💌					
	Name		Physical		Capacity	
					Add	~
Na	ime	Physical	Capacity	Raid name	Туре	
						
					Delete	

Figure 5-82

5.8.4.5 Storage

5.8.4.5.1 Main Stream

The main stream interface is shown as in Figure 5-83. Here you can set corresponding HDD group to save main stream.

Channel	HDD G	iroup	Channel	HDD	Group	Channel	HDD	Group	Channel	HDD	Group
Channel 1	1	~	Channel 2	1	~	Channel 3	1	~	Channel 4	1	~
Channel 5	1	~	Channel 6	1	~	Channel 7	1	~	Channel 8	1	~
Channel 9	1	~	Channel 10	1	~	Channel 11	1	~	Channel 12	1	~
Channel 13	1	~	Channel 14	1	~	Channel 15	1	~	Channel 16	1	~
Channel 17	1	~	Channel 18	1	~	Channel 19	1	~	Channel 20	1	~
Channel 21	1	~	Channel 22	1	~	Channel 23	1	~	Channel 24	1	~
Channel 25	1	~	Channel 26	1	~	Channel 27	1	~	Channel 28	1	~
Channel 29	1	×	Channel 30	1		Channel 31	1	×	Channel 32	1	

Figure 5-83

5.8.4.5.2Sub Stream

The sub stream interface is shown as in Figure 5-84.

Here you can set corresponding HDD group to save sub stream.

Channel	HDD	Group	Channel	HDD	Group	Channel	HDD	Group	Channel	HDD	Group
Channel 1	1	~	Channel 2	1	~	Channel 3	1	~	Channel 4	1	~
Channel 5	1	~	Channel 6	1	×	Channel 7	1	~	Channel 8	1	~
Channel 9	1	×	Channel 10	1	~	Channel 11	1	×	Channel 12	1	~
Channel 13	1	~	Channel 14	1	×	Channel 15	1	~	Channel 16	1	~
Channel 17	1	~	Channel 18	1	~	Channel 19	1	~	Channel 20	1	~
Channel 21	1	~	Channel 22	1	×	Channel 23	1	~	Channel 24	1	~
Channel 25	1	~	Channel 26	1	×	Channel 27	1	~	Channel 28	1	~
Channel 29	1		Channel 30	1		Channel 31	1	×	Channel 32	1	~

Figure 5-84

5.8.4.5.3Snapshot

The snapshot interface is shown as in Figure 5-85. Here you can set corresponding HDD group to save snapshot picture.

Channel	HDD	Group	Channel	HDD (Group	Channel	HDD	Group	Channel	HDD	Group
Channel 1	1	~	Channel 2	1	~	Channel 3	1	~	Channel 4	1	~
Channel 5	1	~	Channel 6	1	~	Channel 7	1	~	Channel 8	1	~
Channel 9	1	~	Channel 10	1	~	Channel 11	1	~	Channel 12	1	~
Channel 13	1	~	Channel 14	1	~	Channel 15	1	~	Channel 16	1	~
Channel 17	1	~	Channel 18	1	~	Channel 19	1	×	Channel 20	1	~
Channel 21	1	~	Channel 22	1	~	Channel 23	1	~	Channel 24	1	~
Channel 25	1	~	Channel 26	1	~	Channel 27	1	~	Channel 28	1	~
Channel 29	1	Image: A start of the start	Channel 30	1	~	Channel 31	1	×	Channel 32	1	~

Figure 5-85

5.8.5 Setting

5.8.5.1 General

The general interface includes general, date/time and holiday setup.

5.8.5.1.1General

The general interface is shown as in Figure 5-86.

GENERAL	Date&Time	Holiday
		_
Device ID	NVR	
Device No.	8	
Language	ENGLISH	~
Video Standard	PAL	~
HDD Full	Overwrite	~
Pack Duration	60	Minute
	Save	Refresh Defa

Parameter	Function
Device ID	It is to set device name.
Device No.	It is device channel number.
Language	You can select the language from the dropdown list.
	Please note the device needs to reboot to get the modification activated.
Video Standard	This is to display video standard such as PAL.
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 1 to 120 minutes. Default value is 60 minutes.

5.8.5.1.2Date and time

The date and time interface is shown as in Figure 5-87

GENERAL	Date&Time Holiday
Date Format	YYYY MM DD
Time Format	24-HOUR
Date Separator	-
System Time	2013 - 11 - 12 11 : 28 : 11 Sync PC
🗹 DST	
DST Type	O Date 💿 Week
Start Time	Jan 💌 Last Week 💌 Sunday 💌 00 : 48
End Time	Jan 🔽 The 1st Week 💙 Monday 💽 00 : 01
⊻ NTP	
Time Zone	GMT+08:00
Server	time.windows.com Manual Update
Port	123 (1~65535)
Interval	60 Minute(0~65535)
	Save Refresh Default

Figure 5-87

Parameter	
Date format	Here you can select date format from the dropdown list.

Time Format	There are two options: 24-H and 12-H.
Time zone	The time zone of the device.
System time	It is to set system time. It becomes valid after you set.
Sync PC	You can click this button to save the system time as your PC current time.
DST	Here you can set day night save time begin time and end time. You can set according to the date format or according to the week format.
NTP	You can check the box to enable NTP function.
NTP server	You can set the time server address.
Port	It is to set the time server port.
Interval	It is to set the sync periods between the device and the time server.

5.8.5.1.3 Holiday Setup

Holiday setup interface is shown as in Figure 5-88.

Here you can click Add holidays box to add a new holiday and then click Save button to save.

GENERA	AL.	Date&Time	Holiday				
							Add Holidays
No.	Status	Holiday Name	Date	Period	Repeat Mode	Edit	Delete
1	Open 💌	11	2013-10Month30conf_gen.day - 2013 11Month2conf_gen.day	- 4 day	Once	2	8
		Save	Refresh Default				



5.8.5.2 Account

Note:

- For the character in the following user name or the user group name, system max supports 6-digits. The space in the front or at the end of the string is null. The valid string includes: character, number, and underline.
- The user amount default setup is 64 and the group amount default setup is 20. The factory default setup includes two levels: user and admin. You can set the corresponding group and then set the rights for the respective user in the specified groups.
- User management adopts group/user modes. The user name and the group name shall be unique. One user shall be included in only one group.

5.8.5.2.1User name

In this interface you can add/remove user and modify user name. See Figure 5-89.

User	Group				
SN	User Name	Group Name	Memo	Modify	Delete
1	888888	admin	888888 admin 's account	2	8
2	666666	user	666666 user's account	1	8
3	admin	admin	admin 's account	1	8
4	default	user	default account	1	8
5	+++++	admin		1	8
Add User					

Figure 5-89

Add user: It is to add a name to group and set the user rights. See Figure 5-90.

There are four default users: admin/888888/666666 and hidden user "default". Except user 6666, other users have administrator right. The user 666666 can only have the monitor rights,.

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.

Here you can input the user name and password and then select one group for current user.

Please note the user rights shall not exceed the group right setup.

For convenient setup, please make sure the general user has the lower rights setup than the admin.

Add User				X
User Name]		
Reusable		-		
Password				
Confirm Password				
Group	admin 💌]		
Memo				
Authority				
System	Playback	REAL-TIME MONITOR	1	
I AII I ACCOUNT	SYSTEM		DEFAULT&UPGRADE	
PTZ CONTROL			FILE BACKUP	
MAGE COLOR	STORAGE	V EVENT	NETWORK	
CAMERA	CLEAR LOG	SHUT DOWN		
				V
	Save	Cancel		

Modify user

It is to modify the user property, belonging group, password and rights. See Figure 5-91.

Modify password

It is to modify the user password. You need to input the old password and then input the new password twice to confirm the new setup. Please click the OK button to save.

Please note, the password ranges from 1-digit to 6-digit. It shall include the number only. For the user of the account rights, he can modify the password of other users.

M	odify User					X
	User Name	666666	~			
	User Name	666666				
	Reusable		_			
	Group	user	~			
	Memo	666666 user's account				
	Modify Password					
	Authority					
	System	Playback		REAL-TIME MONITOR	२	
	All					
	ACCOUNT	SYSTEM		DISCONNECT	DEFAULT&UPGRADE	
	PTZ CONTROL	SYSTEM INFO	Ŀ	MANUAL CONTROL	FILE BACKUP	
	IMAGE COLOR	STORAGE		EVENT	NETWORK	
	CAMERA	CLEAR LOG		SHUT DOWN		
		Save		Cancel		
		Jave		Cancer		

Figure 5-91

5.8.5.2.2Group

The group management interface can add/remove group, modify group password and etc. The interface is shown as in Figure 5-92.

User	Group	Memo	11-56.	Delete
SN	Group Name		Modify	
1	admin	administrator group	<u> </u>	8
2	user	user group	1	8



Add group: It is to add group and set its corresponding rights. See Figure 5-93.

Please input the group name and then check the box to select the corresponding rights. It includes: shutdown/reboot device, live view, record control, PTZ control and etc.

Add Group				X
Group Name Memo Authority]		
System	Playback	REAL-TIME MONITOR	R	
☑AII ☑ACCOUNT ☑PTZ CONTROL ☑IMAGE COLOR ☑CAMERA	SYSTEM SYSTEM INFO STORAGE CLEAR LOG	 ✓DISCONNECT ✓MANUAL CONTROL ✓EVENT ✓SHUT DOWN 	DEFAULT&UPGRADE ✓FILE BACKUP ✓NETWORK	*
	Save	Cancel		

Figure 5-93

Modify group

Click the modify group button, you can see an interface is shown as in Figure 5-94. Here you can modify group information such as remarks and rights.

Modify Group			×
Group Name Group Name Memo	user user user group	™	
Authority			-
System	Playback	REAL-TIME MONITO	ĸ
ACCOUNT PTZ CONTROL MMAGE COLOR CAMERA	SYSTEM SYSTEM INFO STORAGE CLEAR LOG	 □DISCONNECT ☑MANUAL CONTROL □EVENT □SHUT DOWN 	□DEFAULT&UPGRADE □FILE BACKUP □NETWORK
	Save	Cancel	

Figure 5-94

5.8.5.3 Display

Display interface includes GUI, TV adjust, Tour and zero-channel encoding.

5.8.5.3.1 Display

Here you can set background color and transparency level. See Figure 5-95.

Display	Tour
Resolution	1280*1024
Transparency	⊴ 0 → >0%
Time Display	
Channel Display	
Image Enhance	
Auto Logout	10 Minute(0-60)
Startup Wizard	
Navigation Bar	
	Save Refresh Default

Figure 5-95

Please refer to the following sheet for detailed information.

Parameter	Function
Resolution	Therearefouroptions:1920×1080,1280×1024(default),1280×720,1024×768.Please notethe system needs to reboot to activate current setup.
Transparency	Here is for you to adjust transparency. The value ranges from 128 to 255.
Time title/channel title	Check the box here, you can view system time and channel number on the monitor video.
Image enhance	Check the box; you can optimize the margin of the preview video.

5.8.5.3.2 Tour

The tour interface is shown as in Figure 5-96. Here you can set tour interval, split mode, motion detect tour and alarm tour mode.

Display	Tour
Enable Tour	
Interval	5 Second(5-120)
Window Split	View 1
	32 🗹 Channel Group
	1 🗹 1 🔼 🗕
	2 🗹 2
	3 🗹 3
	5 🗹 5 6 🗹 6
	6 🗹 6 7 🗹 7
	8 🗸 8
	9 🗹 9
	10 🗹 10
Motion Tour Type	View 1
Alarm Tour Type	View 1
	Save Refresh Default



Parameter	Function
Enable tour	Check the box here to enable tour function.
Interval	Here is for you to adjust transparency. The value ranges from 5 to 120s. The default setup is 5s.
Split	Here you can set window mode and channel group. System can support 1/4/8/9/16/25/36-window according to device channel amount.
Motion tour/Alarm tour	Here you can set motion detect tour/alarm tour window mode. System supports 1/8-window now.

5.8.5.4 Alarm Out

The alarm output interface is shown as below. See Figure 5-97 Here you can set alarm output mode: auto/manual/stop.

Alarm Out	
Alarm Type	All 1 2 3
Auto	$\odot \odot \odot \odot$
Manual	$\circ \circ \circ \circ$
Stop	0000
Status	
	Save Refresh

Figure 5-97

5.8.5.5 Default

The default setup interface is shown as in Figure 5-98.

Here you can select Network/Event/Storage/Setting/Camera. Or you can check the All box to select all items.

Default			
II AII			
NETWORK	EVENT		
STORAGE	SETTING	CAMERA	
Default			

Figure 5-98

5.8.5.6 Import/Export

The interface is shown as in Figure 5-99. This interface is for you to export or import the configuration files.

Import&Export	
Import Config File Browse Config Import Config Export	

Parameter	Function
Browse	Click to select import file.
Import	It is to import the local setup files to the system.
Export	It is to export the corresponding WEB setup to your local PC.

5.8.5.7 Auto maintain

The auto maintain interface is shown as in Figure 5-100.

Here you can select auto reboot and auto delete old files interval from the dropdown list. If you want to use the auto delete old files function, you need to set the file period. Click Manual reboot button, you can restart device manually.

Auto Maintain			
Auto Reboot	Saturday	02:00	Y
Auto Delete Old Files	Customized	✓ 31	Days Ago
	Manual Reboot]	
	Save	Refresh	

Figure 5-100

5.8.5.8 Upgrade

The upgrade interface is shown as in Figure 5-101.

Please select the upgrade file and then click the update button to begin update. Please note the file name shall be as *.bin. During the upgrade process, do not unplug the power cable, network cable, or shutdown the device.

Important

Improper upgrade program may result in device malfunction! Please make sure the operation is operated under the supervision of the professional engineer!

System Upgrade		
Select Firmware File	Browse	Upgrade

5.8.5.9 RS232

The RS232 interface is shown as in Figure 5-102.

R\$232		
Function Cor	onsole	<u> </u>
Baud Rate 115	5200	∽
Data Bit 8		v
Stop Bit 1		v
Parity Nor	one	v
	Save	Refresh Default

Figure 5-102

Please refer to the following sheet for detailed information.

Parameter	Function
Protocol	Select the corresponding dome protocol. Default setup is console.
Baud Rate	Select the baud rate. Default setup is 115200.
Data Bit	The value ranges from 5 to 8.
	Default setup is 8.
Stop bit	There are two options: 1/2. Default setup is 1.
Parity	There are five options: none/odd/even/space/mark. Default setup is none.

5.8.5.10 PTZ

The PTZ interface is shown as in Figure 5-103 (Local) and Figure 5-104 (Remote).

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.

Click Save button after you complete setup, you can go back to the monitor interface to control speed dome.

PTZ	
Channel	2
PTZ Type	Local
Protocol	PELCOD
Address	1
Baud Rate	9600
Data Bit	8
Stop Bit	1
Parity	None
	Copy Save Refresh Default

Figure 5-103

PTZ				
Channel PTZ Type	1 Remote	▼		
	Сору	Save	Refresh	Default

Figure 5-104

Parameter	Function
Channel	Select speed dome connected channel.
PTZ Type	There are two options: local/remote.
	Please select remote type if you are connecting to the network PTZ.
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 1115200.
Data Bit	The value ranges from 5 to 8. Default setup is 8. Please set according to the speed dome dial switch setup.
Stop bit	The value ranges from 1 to 2. Default setup is 1. Please set according

Parameter	Function
	to the speed dome dial switch setup.
Parity	The options include non/odd/even/space/null. Default setup is none. Please set according to the speed dome dial switch setup.

5.9 Information

5.9.1 Version

The version interface is shown as in Figure 5-105.

Here you can view record channel, alarm input/output information, software version, release date and etc. Please note the following information is for reference only.

Version	
Record Channel:	32
Alarm In:	8
Alarm Out:	3
SN:	000000000000000
Web:	3.0.0.1
System Version:	3.200.0000.0
Build Date:	2013-11-07

Figure 5-105

5.9.2 Log

Here you can view system log. See Figure 5-106.

Log		
Start Time 2013	- 11 - 10 00 : 00 : 00 End Time 2013 - 11 - 13 0	D : 00 : 00
Types All	Search Matched 1024 logs Record Time 20	13-11-12 11:26:23 2013-11-12 11:48:43
No.	Time	Event
1	2013-11-12 11:26:23	User logged in.
2	2013-11-12 11:26:23	User logged out.
3	2013-11-12 11:26:23	User logged in.
4	2013-11-12 11:26:23	User logged out.
5	2013-11-12 11:26:23	User logged in.
6	2013-11-12 11:26:23	User logged out.
7	2013-11-12 11:26:23	User logged in.
8	2013-11-12 11:26:23	User logged out.
9	2013-11-12 11:26:23	User logged in.
10	2013-11-12 11:26:23	User logged out. 🔽
System Log Info		
Backup		K

Figure 5-106

Please refer to the following sheet for log parameter information.

Parameter	Function
Туре	Log types include: system operation, configuration operation, data
	operation, event operation, record operation, user management, log
	clear.
Start time	Set the start time of the requested log.
End time	Set the end time of the requested log.
Search	You can select log type from the drop down list and then click search
	button to view the list.
	You can click the stop button to terminate current search operation.
Detailed information	You can select one item to view the detailed information.
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.

5.9.3 Online User

The online user interface is shown as in Figure 5-107.

Online User					
No.	User Name	Group Name	IP Address	User Login Time	-
1	admin	admin	10.15.9.152	2013-10-24 04:31:33 PM	<u>^</u>
2	admin	admin	10.15.9.152	2013-10-24 04:21:12 PM	
3	admin	admin	10.15.6.145	2013-10-24 04:50:01 PM	
Refresh]				

Figure 5-107

5.10 Playback

Click Playback button, you can see an interface is shown as in Figure 5-108.

	Preview Playba	ick Alarm Setu	INFO Logout	
	Ø	Q.¥		0, ×
	Ø	θx		Q × 1 ▼ 2 ▼ 3 ▼ 4 ▼ E File List
1 2 3 4 Stop	1 X •	7 0 0 10 11	12 13 14 15 16 17	

Figure 5-108

5.10.1 Search Record

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

• Select Date

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.

Window Split

Select window split mode. Click 🔛 to display in full screen. Click ESC button to exit. See Figure 5-109.



Figure 5-109

- Select Channel
- $1{\sim}4~$ means main stream and A1 ${\sim}A4$ means sub stream.
- Select Record Type

Check the corresponding box to select record type. See Figure 5-110.



Figure 5-110

5.10.2 File List

Click File list button, you can see the corresponding files in the list. See Figure 5-111.

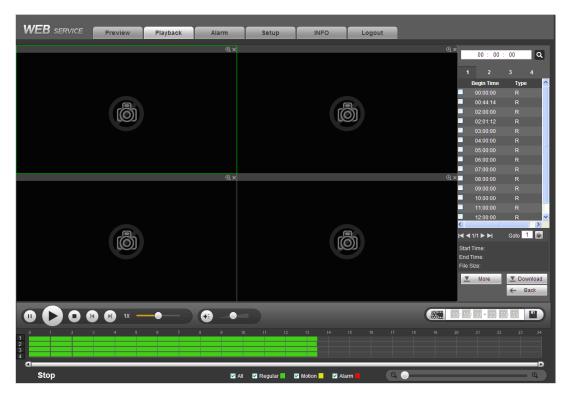


Figure 5-111

5.10.3 Playback

Select a file you want to play and then click Play button, system can begin playback. You can select to playback in full-screen. Please note for one channel, system can not playback and download at the same time. You can use the playback control bar to implement various operations such as play, pause, stop, slow play, fast play and etc. See Figure 5-112.

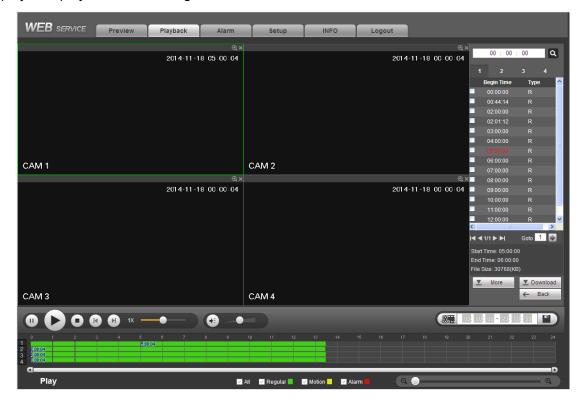


Figure 5-112

5.10.4 Download

Select the file(s) you want to download and then click download button, you can see an interface shown as in Figure 5-113. The Download button becomes Stop button and there is a process bar for your reference. Please go to you default file saved path to view the files.



Figure 5-113

5.10.5 Load more

It is for you to search record or picture. You can select record channel, record type and record time to download. Or you can use watermark function to verify file.

5.10.5.1 Download By File

Select channel, record type, bit stream type and then input start time and end time. Click Search button, the download by file interface is shown as in Figure 5-114.

No. File Size Start Time End Time File Type Bit Stream Type Channel 1 403999KB 2014-07-25 15.24.47 2014-07-25 16.00.00 Regular Main Stream 1 2 19227KB 2014-07-25 15.24.47 2014-07-25 16.00.00 Regular Main Stream 2 3 23348KB 2014-07-25 15.24.47 2014-07-25 16.00.00 Regular Main Stream 3 4 18728KB 2014-07-25 15.24.47 2014-07-25 16.00.00 Regular Main Stream 4 5 18974KB 2014-07-25 15.24.47 2014-07-25 16.00.00 Regular Main Stream 5 6 19211KB 2014-07-25 15.24.47 2014-07-25 16.00.00 Regular Main Stream 6 7 18653KB 2014-07-25 15.24.47 2014-07-25 16.00.00 Regular Main Stream 7 8 19170KB 2014-07-25 15.24.47 2014-07-25 16.00.00 Regular Main Stream 7 8 19170KB 2014-07-25 15.24.47 2014-07-25 16.00.00 Regular Main Stream 8 9170KB 2014-07-25 15.24.47	pe A	II 👻 II Records 👻	Start Time End Time	2014 - 07 - 18 00 : 01 2014 - 11 - 18 23 : 55	Search			
1 403999KB 2014-07-25 15 24:47 2014-07-25 16:00:00 Regular Main Stream 1 2 19227KB 2014-07-25 15 24:47 2014-07-25 16:00:00 Regular Main Stream 2 3 23348KB 2014-07-25 15 24:47 2014-07-25 16:00:00 Regular Main Stream 3 4 18728KB 2014-07-25 15 24:47 2014-07-25 16:00:00 Regular Main Stream 4 5 18974KB 2014-07-25 15 24:47 2014-07-25 16:00:00 Regular Main Stream 5 6 19211KB 2014-07-25 15 24:47 2014-07-25 16:00:00 Regular Main Stream 6 7 18863KB 2014-07-25 15 24:47 2014-07-25 16:00:00 Regular Main Stream 6 8 19170KB 2014-07-25 16:00:00 Regular Main Stream 7 8 19170KB 2014-07-25 16:00:00 Regular Main Stream 7	t Stream Type M	lain Sub 💌						
2 19227KB 2014-07-25 15/24:47 2014-07-25 16:00:00 Regular Main Stream 2 3 23348KB 2014-07-25 15/24:47 2014-07-25 16:00:00 Regular Main Stream 3 4 18728KB 2014-07-25 15/24:47 2014-07-25 16:00:00 Regular Main Stream 4 5 18974KB 2014-07-25 15/24:47 2014-07-25 16:00:00 Regular Main Stream 5 6 19211KB 2014-07-25 15/24:47 2014-07-25 16:00:00 Regular Main Stream 6 7 18653KB 2014-07-25 15/24:47 2014-07-25 16:00:00 Regular Main Stream 7 8 19170KB 2014-07-25 16:00:00 Regular Main Stream 7		No.	File Size	Start Time	End Time	File Type	Bit Stream Type	Channel
3 23348KB 2014-07-25 15 24:47 2014-07-25 16:00:00 Regular Main Stream 3 4 18728KB 2014-07-25 15:24:47 2014-07-25 16:00:00 Regular Main Stream 4 5 18974KB 2014-07-25 15:24:47 2014-07-25 16:00:00 Regular Main Stream 5 6 19211KB 2014-07-25 15:24:47 2014-07-25 16:00:00 Regular Main Stream 6 7 18653KB 2014-07-25 15:24:47 2014-07-25 16:00:00 Regular Main Stream 7 8 1921KB 2014-07-25 15:24:47 2014-07-25 16:00:00 Regular Main Stream 6 9 19170KB 2014-07-25 16:00:00 Regular Main Stream 7		1	403699KB	2014-07-25 15:24:47	2014-07-25 16:00:00	Regular	Main Stream	1
4 18728KB 2014-07-25 15:24:47 2014-07-25 16:00:00 Regular Main Stream 4 5 18974KB 2014-07-25 15:24:47 2014-07-25 16:00:00 Regular Main Stream 5 6 19211KB 2014-07-25 15:24:47 2014-07-25 16:00:00 Regular Main Stream 6 7 18653KB 2014-07-25 15:24:47 2014-07-25 16:00:00 Regular Main Stream 7 8 19170KB 2014-07-25 15:24:47 2014-07-25 16:00:00 Regular Main Stream 7		2	19227KB	2014-07-25 15:24:47	2014-07-25 16:00:00	Regular	Main Stream	2
5 18974KB 2014-07-2515.24:47 2014-07-2516:00:00 Regular Main Stream 5 6 19211KB 2014-07-2515:24:47 2014-07-2516:00:00 Regular Main Stream 6 7 18653KB 2014-07-2515:24:47 2014-07-2516:00:00 Regular Main Stream 7 8 19170KB 2014-07-2515:24:47 2014-07-2516:00:00 Regular Main Stream 8		3	23348KB	2014-07-25 15:24:47	2014-07-25 16:00:00	Regular	Main Stream	3
6 19211KB 2014-07-25 15:24:47 2014-07-25 16:00:00 Regular Main Stream 6 7 18653KB 2014-07-25 15:24:47 2014-07-25 16:00:00 Regular Main Stream 7 8 19170KB 2014-07-25 15:24:47 2014-07-25 16:00:00 Regular Main Stream 8		4	18728KB	2014-07-25 15:24:47	2014-07-25 16:00:00	Regular	Main Stream	4
7 18653KB 2014-07-25 15:24:47 2014-07-25 16:00:00 Regular Main Stream 7 8 19170KB 2014-07-25 15:24:47 2014-07-25 16:00:00 Regular Main Stream 8		5	18974KB	2014-07-25 15:24:47	2014-07-25 16:00:00	Regular	Main Stream	5
8 19170KB 2014-07-25 15:24:47 2014-07-25 16:00:00 Regular Main Stream 8		6	19211KB	2014-07-25 15:24:47	2014-07-25 16:00:00	Regular	Main Stream	6
		7	18653KB	2014-07-25 15:24:47	2014-07-25 16:00:00	Regular	Main Stream	7
		8	19170KB	2014-07-25 15:24:47	2014-07-25 16:00:00	Regular	Main Stream	8
	wnload to Local	Download to USB					M 4	1 / 18 🕨 🍽 Goto 1

Check the file(s) you want to download and there are two options for you to save the file(s).

Download to local

Click Download to local, system pops up the following interface for you to set record format and saved path.See Figure 5-115.

Record Format	DAV	~	
Save Path	C:\RecordDownload		Browse

Figure 5-115

You can click OK to download and view the download process. After the download operation, you can see corresponding dialog box.

• Download to USB

Connect the corresponding p peripheral device, and then click Download to USB button, you can see the following interface. See Figure 5-116.

iannel pe t Stream Type	All All Records All Records	Start Time End Time		00 : 00 Searc	h			
	No.	File Size	Start Time	End Time	File Type	Bit Stream Type	Channel	
	1	403699KB	2014-07-25 15:24:47	2014-07-25 16:00:00	Regular	Main Stream	1	_
	2	19227KB	2014-07-25 15:24:47	2014-07-25 16:00:00	Regular	Main Stream	2	
V	3	23348KB	2014-07-25 15:24:47	2014-07-25 16:00:00	Regular	Main Stream	3	
V	4	18728KB	2014-07-25 15:24:47	2014-07-25 16:00:00	Regular	Main Stream	4	
	5	18974KB	2014-07-25 15:24:47	2014-07-25 16:00:00	Regular	Main Stream	5	
	6	19211KB	2014-07-25 15:24:47	2014-07-25 16:00:00	Regular	Main Stream	6	
	7	18653KB	2014-07-25 15:24:47	2014-07-25 16:00:00	Regular	Main Stream	7	
	8	19170KB	2014-07-25 15:24:47	2014-07-25 16:00:00	Regular	Main Stream	8	
ownload to Loca ickup Device so Start backup	tb1(USB DISK)	Search	Backup Type DAV 💌				【 1 / 24 ▶ ▶ Goto 1	<u> </u>
Na	ume	Backup Type	BUS	Left Space	Total Space	Di	rectory	
sdb1(US	SB DISK)	DISK	USB	12.79GB	14.43GB	Na	ar/sdb1	_

Figure 5-116

Select Backup device and backup type first and then click Start backup button.

After the download operation, you can see corresponding dialogue box.

5.10.5.2 Download by Time

Select channel, bit stream type, start time and end time.

Click Download to Local button, you can see download by time interface is shown as in Figure 5-117.

	layback Alarm	Setup	Info	Logout	
Download by File Download by Time	Watermark				
Channel 1 Start Bit Stream Type Main Stream Y End	Time 2014 - 02 - 14 Time 2014 - 02 - 17	00 : 00 : 00 23 : 59 : 59			
Download to Local					
				×	
	Record Format DAV Save Path C:\Rec	ordDownload\		Browse	
		ОК	Cancel		
Back					

Figure 5-117

Set record format and saved path, you can click OK to download and view the download process. After the download operation, you can see corresponding dialog box.

5.10.5.3 Watermark

Watermark interface is shown as In Figure 5-118. Please select a file and then click Verify button to see the file has been tampered with or not

Local	d by File	Download by Time	Watermark	Verify	
Waterman	k Info)			
	No. 1	Malfunction typ	ie	Watermark Time	×
Bad	ck				

Figure 5-118

5.11 Alarm

Click alarm function, you can see an interface is shown as Figure 5-119.

Here you can set device alarm type and alarm sound setup (Please make sure you have enabled audio function of corresponding alarm events.).

Alarm Type Motion Detect External Alarm Tampering HDD Error Video Loss HDD Full IPC External Alarm IPC Offline Alarm Operation Prompt Alarm Sound Sound Path	Time Alarm Type Alarm Channel	

Figure 5-119

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.			
	Tampering	System alarms when camera is viciously masking.			
	Disk full	System alarms when disk is full.			
	Disk error	System alarms when disk error occurs.			
	External alarm	Alarm input device sends out alarm.			
	IPC external	It refers to the on-off signal from the network			
	alarm	camera. It can activate the NVR local activation			
		operation.			
	IPC offline alarm	System can generate an alarm when the network			
		camera and the NVR are disconnected.			
Operation	Prompt	Check the box here, system can automatically pops			
		up an alarm icon on the Alarm button in the main			
		interface when there is an alarm.			
Alarm	Play alarm	System sends out alarm sound when an alarm			
Sound	sound	occurs. You can specify as you wish.			
	Sound path	Here you can specify alarm sound file.			

5.12 Log out

Click log out button, system goes back to log in interface. See Figure 5-120. You need to input user name and password to login again.

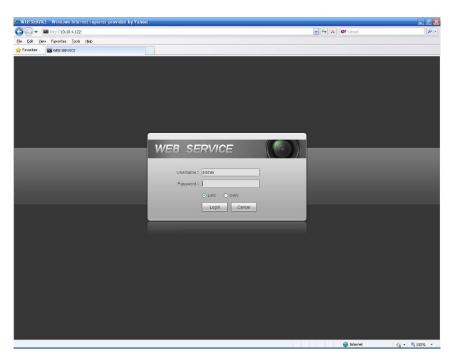


Figure 5-120

5.13 Un-install Web Control

You can use web un-install tool "uninstall web.bat" to un-install web control.

Please note, before you un-installation, please close all web pages, otherwise the un-installation might result in error

6 Glossary

- **DHCP:** DHCP (Dynamic Host Configuration Protocol) is a network protocol. It is one of the TCP/IP protocol cluster. It is principally used to assign temporary IP addresses to computers on a network.
- **DDNS:** DDNS (Dynamic Domain Name Server) is a service that maps Internet domain names to IP addresses. This service is useful to anyone who wants to operate a server (web server, mail server, ftp server and etc) connected to the internet with a dynamic IP or to someone who wants to connect to an office computer or server from a remote location with software.
- **eSATA**: eSATA(External Serial AT) is an interface that provides fast data transfer for external storage devices. It is the extension specifications of a SATA interface.
- **GPS:** GPS (Global Positioning System) is a satellite system, protected by the US military, safely orbiting thousands of kilometers above the earth.
- **PPPoE: PPPoE** (Point to Point Protocol over Ethernet) is a specification for connecting multiple computer users on an Ethernet local area network to a remote site. Now the popular mode is ADSL and it adopts PPPoE protocol.
- WIFI: Wi-Fi is the name of a popular wireless networking technology that uses radio waves to provide wireless high-speed Internet and network connections. The standard is for wireless local area networks (WLANs). It is like a common language that all the devices use to communicate to each other. It is actually IEEE802.11, a family of standard The IEEE (Institute of Electrical and Electronics Engineers Inc.)
- **3G:** 3G is the wireless network standard. It is called 3G because it is the third generation of cellular telecom standards. 3G is a faster network for phone and data transmission and speed Is over several hundreds kbps. Now there are four standards: CDMA2000, WCDMA, TD-SCDMA and WiMAX.
- **Dual-stream:** The dual-stream technology adopts high-rate bit stream for local HD storage such as QCIF/CIF/2CIF/DCIF/4CIF encode and one low-rate bit stream for network transmission such as QCIF/CIF encode. It can balance the local storage and remote network transmission. The dual-stream can meet the difference band width requirements of the local transmission and the remote transmission. In this way, the local transmission using high-bit stream can achieve HD storage and the network transmission adopting low bit stream suitable for the fluency requirements of the 3G network such as WCDMA, EVDO, TD-SCDMA..
- **On-off value:** It is the non-consecutive signal sampling and output. It includes remote sampling and remote output. It has two statuses: 1/0.

7 FAQ

Questions	Solutions
NVR can not boot up	Input power is not correct.
properly.	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.
	 Input voltage is not stable or it is too low.
NVR often automatically	• HDD malfunction or something wrong wit the ribbon.
shuts down or stops	• Button power is not enough.
running.	• Front video signal is not stable.
	• Working environment is too harsh, too much dust.
	Hardware malfunction.
System can not detect	• HDD is broken.
hard disk.	• HDD ribbon is damaged.
	HDD cable connection is loose.
	Main board SATA port is broken.
There is no video output	• Program is not compatible. Please upgrade to the latest version.
whether it is one-channel,	• Brightness is 0. Please restore factory default setup.
multiple-channel or	Check your screen saver.
all-channel output.	NVR hardware malfunctions.
	HDD ribbon is damaged.
I can not search local	• HDD is broken.
records.	Upgraded program is not compatible.
	• The recorded file has been overwritten.
	Record function has been disabled.
	• Video quality setup is too low.
Video is distorted when	• Program read error, bit data is too small. There is mosaic in the full
searching local records.	screen. Please restart the NVR to solve this problem.
	HDD data ribbon error.
	HDD malfunction.
	NVR hardware malfunctions.
Time display is not	Setup is not correct
correct.	 Battery contact is not correct or voltage is too low.
	Crystal is broken.

Questions	Solutions
	Front panel PTZ error
	• PTZ decoder setup, connection or installation is not correct.
	Cable connection is not correct.
	• PTZ setup is not correct.
NVR can not control PTZ.	 PTZ decoder and NVR protocol is not compatible.
	 PTZ decoder and NVR 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.
	• 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 NVR is not compatible
I can not log in client-end	with Windows VISTA control.
or web.	ActiveX control has been disabled.
	 No dx8.1 or higher. Please upgrade display card driver.
	Network connection error.
	 Network setup error. Descrived as user name is invalid.
	 Password or user name is invalid. Client and is not compatible with NV/P program
Thora is only mosaic no	 Client-end is not compatible with NVR program.
There is only mosaic no video when preview or	• Network fluency is not good.
playback video file	Client-end resources are limit.
remotely.	 Current user has no right to monitor.
	Network is not stable.
Network connection is	• IP address conflict.
not stable.	 MAC address conflict.
	PC or device network card is not good.
	• Burner and NVR are in the same data cable.
	 System uses too much CPU resources. Please stop record first
Burn error /USB back	and then begin backup.
error.	• Data amount exceeds backup device capacity. It may result in
	burner error.
	Backup device is not compatible.
	Backup device is damaged.
Keyboard can not control	 NVR serial port setup is not correct
NVR.	Address is not correct
	• When there are several switchers, power supply is not enough.
	Transmission distance is too far.

Questions	Solutions				
Alarm signal can not been disarmed.	 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. 				
Alarm function is null.	 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. 				
Record storage period is not enough.	 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. 				
Can not playback the downloaded file.	 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. 				
Forgot local menu operation password or network password	 Please contact your local service engineer or our sales person for help. We can guide you to solve this problem. 				
There is no video. The screen is in black.	 IPC IP address is not right. IPC port number is not right. IPC account (user name/password) is not right. IPC is offline. 				
The displayed video is not full in the monitor.	Please cheek current resolution setup. If the current setup is 1920*1080, then you need to set the monitor resolution as 1920*1080.				
There is no HDMI output.	Displayer is not in HDMI mode.HDMI cable connection is not right.				
The video is not fluent when I view in multiple-channel mode from the client-end.	• Your PC resources are not sufficient. For 16-ch remote monitor				

Questions	Solutions				
I can not connect to the IPC	 Please make sure the IPC has booted up. IPC network connection is right and it is online IPC IP is in the blacklist. The device has connected to the too many IPC. It can not transmi the video. Check the IPC port value and the time zone is the same as the NVR. Make sure current network environment is stable. 				
After I set the NVR resolution as 1080P, my monitor can not display.	Shut down the device and then reboot. When you reboot, please press the Fn button at the same time and then release after 5 seconds. You can restore NVR resolution to the default setup.				
My admin account has been changed and I can not log in.					
After I login the Web , I can not find the remote interface to add the IPC.					
There is IP and gateway, I can access the internet via the router. But I can not access the internet after I reboot the NVR.	or not. Use telnet to access and then use command "ifconfig –a" to check device IP address. If you see the subnet mask and the gateway				
I use the VGA montior.I want to know if I use the multple-window mode, I see the video from the main stream or the sub stream?	 For 32-channel series product, the 9/16-window is using the sub stream. For 4/8/16 series product, system is using the main stream no 				

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 before you remove the audio/video signal cable, RS232 or RS485 cable.
- Do not connect the TV to the local video output port (VOUT). It may result in video output circuit.
- Always shut down the device properly. Please use the shutdown function in the menu, or you can press the power button in the rear 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.

8 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)**.

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

In the formula: a% means alarm occurrence rate

9 Appendix B Compatible Network Camera List

Please note all the models in the following list for reference only. For those products not included in the list, please contact your local retailer or technical supporting engineer for detailed information.

Manufact	Model	Version	Video Encode	Audio/Vid	Protocol
ure				eo	
AXIS	P1346	5.40.9.2	H264	\checkmark	ONVIF/Private
	P3344/P3344-	5.40.9.2	H264	\checkmark	ONVIF/Private
	E				
	P5512	—	H264	\checkmark	ONVIF/Private
	Q1604	5.40.3.2	H264	\checkmark	ONVIF/Private
	Q1604-E	5.40.9	H264	\checkmark	ONVIF/Private
	Q6034E	—	H264	\checkmark	ONVIF/Private
	Q6035	5.40.9	H264	\checkmark	ONVIF/Private
	Q1755	—	H264	\checkmark	ONVIF/Private
	M7001	—	H264	\checkmark	Private
	M3204	5.40.9.2	H264	\checkmark	Private
	P3367	HEAD LFP4_0	H264	\checkmark	ONVIF
		130220			
	P5532-P	HEAD LFP4_0	H264	\checkmark	ONVIF
		130220			
ACTi	ACM-3511	A1D-220-V3.12	MPEG4	\checkmark	Private
		.15-AC			
	ACM-8221	A1D-220-V3.13	MPEG4	\checkmark	Private
		.16-AC			
Arecont	AV1115	65246	H264	\checkmark	Private
	AV10005DN	65197	H264	\checkmark	Private
	AV2115DN	65246	H264	\checkmark	Private
	AV2515DN	65199	H264	\checkmark	Private
	AV2815	65197	H264	\checkmark	Private
	AV5115DN	65246	H264	\checkmark	Private
	AV8185DN	65197	H264	\checkmark	Private
Bosch	NBN-921-P	—	H264	\checkmark	ONVIF
	NBC-455-12P	—	H264	\checkmark	ONVIF
	VG5-825	9500453	H264	\checkmark	ONVIF
	NBN-832	66500500	H264	\checkmark	ONVIF
	VEZ-211-IWT	—	H264	\checkmark	ONVIF
	EIVA				
	NBC-255-P	15500152	H264	\checkmark	ONVIF
	VIP-X1XF	—	H264	\checkmark	ONVIF
Brikcom	B0100	—	H264	\checkmark	ONVIF
	D100	—	H264	\checkmark	ONVIF
	GE-100-CB	—	H264	\checkmark	ONVIF
	FB-100A	v1.0.3.9	H264	\checkmark	ONVIF
	FD-100A	v1.0.3.3	H264	\checkmark	ONVIF

Manufact	Model	Version	Video Encode	Audio/Vid	Protocol
Connon	VB-M400		H264	eo √	Private
Cannon CNB	MPix2.0DIR	XNETM112011 1229	H264	√ √	ONVIF
	VIPBL1.3MIR VF	XNETM210011 1229	H264	\checkmark	ONVIF
	IGC-2050F	XNETM210011 1229	H264	\checkmark	ONVIF
CP PLUS	CP-NC9-K	6.E.2.7776	H264	\checkmark	ONVIF/Private
	CP-NC9W-K	6.E.2.7776	H264	\checkmark	Private
	CP-ND10-R	cp20111129AN S	H264	\checkmark	ONVIF
	CP-ND20-R	cp20111129AN S	H264	\checkmark	ONVIF
	CP-NS12W-C R	cp20110808NS	H264	\checkmark	ONVIF
	VS201	cp20111129NS	H264	\checkmark	ONVIF
	CP-NB20-R	cp20110808BN S	H264	\checkmark	ONVIF
	CP-NT20VL3- R	cp20110808BN S	H264	\checkmark	ONVIF
	CP-NS36W-A R	cp20110808NS	H264	\checkmark	ONVIF
	CP-ND20VL2- R	cp20110808BN S	H264	\checkmark	ONVIF
	CP-RNP-1820	cp20120821NS A	H264	\checkmark	Private
	CP-RNC-TP2 0FL3C	cp20120821NS A	H264	\checkmark	Private
	CP-RNP-12D	cp20120828AN S	H264	\checkmark	Private
	CP-RNC-DV1 0	cp20120821NS A	H264	\checkmark	Private
	CP-RNC-DP2 0FL2C	cp20120821NS A	H264	\checkmark	Private
Dynacolor	ICS-13	d20120214NS	H264	\checkmark	ONVIF/Private
	ICS-20W	vt20111123NSA	H264	\checkmark	ONVIF/Private
	NA222	—	H264	\checkmark	ONVIF
	MPC-IPVD-03 13	k20111208ANS	H264	\checkmark	ONVIF/Private
	MPC-IPVD-03 13AF	k20111208BNS	H264	\checkmark	ONVIF/Private
Honeywell	HIDC-1100PT	h.2.2.1824	H264	\checkmark	ONVIF
	HIDC-1100P	h.2.2.1824	H264	\checkmark	ONVIF

Manufact	Model	Version	Video Encode	Audio/Vid	Protocol
ure				ео	
	HIDC-0100P	h.2.2.1824	H264	\checkmark	ONVIF
	HIDC-1300V	2.0.0.21	H264	\checkmark	ONVIF
	HICC-1300W	2.0.1.7	H264	\checkmark	ONVIF
	HICC-2300	2.0.0.21	H264	\checkmark	ONVIF
	HDZ20HDX	H20130114NS	H264	\checkmark	ONVIF
		А			
LG	LW342-FP	—	H264	\checkmark	Private
	LNB5100	—	H264	\checkmark	ONVIF
Imatek	KNC-B5000	—	H264	\checkmark	Private
	KNC-B5162	—	H264	\checkmark	Private
	KNC-B2161	—	H264	\checkmark	Private
Pannsonic	NP240/CH	—	MPEG4	\checkmark	Private
	WV-NP502	—	MPEG4	\checkmark	Private
	WV-SP102H	1.41	H264	\checkmark	ONVIF/Private
	WV-SP105H	—	H264	\checkmark	ONVIF/Private
	WV-SP302H	1.41	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SP306H	1.4	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SP508H	—	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SP509H	—	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SF332H	1.41	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SW316H	1.41	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SW355H	1.41	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SW352H	—	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SW152E	1.03	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SW558H	—	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SW559H	—	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SP105H	1.03	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SW155E	1.03	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SF336H	1.44	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SF332H	1.41	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SF132E	1.03	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SF135E	1.03	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SF346H	1.41	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SF342H	1.41	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SC385H	1.08	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SC386H	1.08	H264、MPEG4	\checkmark	ONVIF/Private
	WV-SP539	1.66	H264、MPEG4	\checkmark	ONVIF
	DG-SC385	1.66	H264、MPEG4	\checkmark	ONVIF
PELCO	IXSOLW	1.8.1-20110912	H264	\checkmark	Private
		-1.9082-A1.661			
		7			
	IDE20DN	1.7.41.9111-03	H264	\checkmark	Private
		.6725			

Manufact	Model	Version	Video Encode	Audio/Vid	Protocol
ure				ео	
	D5118	1.7.8.9310-A1. 5288	H264	\checkmark	Private
	IM10C10	1.6.13.9261-O2 .4657	H264		Private
	DD4N-X	01.02.0015	MPEG4		Private
	DD423-X	01.02.0006	MPEG4		Private
	D5220	1.8.3-FC2-2012 0614-1.9320-A 1.8035	H264	\checkmark	Private
Samsung	SNB-3000P	2.41	H264、MPEG4	\checkmark	ONVIF/Private
	SNP-3120	1.22_110120_1	H264、MPEG4	\checkmark	ONVIF/Private
	SNP-3370	1.21_110318	MPEG4	\checkmark	Private
	SNB-5000	2.10_111227	H264、MPEG4	\checkmark	ONVIF/Private
	SND-5080	—	H264、MPEG4	\checkmark	Private
	SNZ-5200	1.02_110512	H264、MPEG4	\checkmark	ONVIF/Private
	SNP-5200	1.04_110825	H264、MPEG4	\checkmark	ONVIF/Private
	SNB-7000	1.10_110819	H264	\checkmark	ONVIF/Private
	SNB-6004	V1.0.0	H264	\checkmark	ONVIF
Sony	SNC-DH110	1.50.00	H264	\checkmark	ONVIF/Private
	SNC-CH120	1.50.00	H264	\checkmark	ONVIF/Private
	SNC-CH135	1.73.01	H264	\checkmark	ONVIF/Private
	SNC-CH140	1.50.00	H264	\checkmark	ONVIF/Private
	SNC-CH210	1.73.00	H264	\checkmark	ONVIF/Private
	SNC-DH210	1.73.00	H264	\checkmark	ONVIF/Private
	SNC-DH240	1.50.00	H264	\checkmark	ONVIF/Private
	SNC-DH240-T	1.73.01	H264	\checkmark	ONVIF/Private
	SNC-CH260	1.74.01	H264	\checkmark	ONVIF/Private
	SNC-CH280	1.73.01	H264	\checkmark	ONVIF/Private
	SNC-RH-124	1.73.00	H264	\checkmark	ONVIF/Private
	SNC-RS46P	1.73.00	H264	\checkmark	ONVIF/Private
	SNC-ER550	1.74.01	H264	\checkmark	ONVIF/Private
	SNC-ER580	1.74.01	H264	\checkmark	ONVIF/Private
	SNC-ER580	1.78.00	H264	\checkmark	ONVIF
	SNC-VM631	1.4.0	H264		ONVIF
	WV-SP306	1.61.00	H264、MPEG4		SDK
	WV-SP306	1.61.00	H264		ONVIF
	SNC-VB600	1.5.0	H264	\checkmark	Private
	SNC-VM600	1.5.0	H264	\checkmark	Private
	SNC-VB630	1.5.0	H264		Private
	SNC-VM630	1.5.0	H264	\checkmark	Private
SANYO	VCC-HDN400 0PC	_	H264	\checkmark	ONVIF

Note

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