Network Video Recorder User's Manual

V 5.1.0

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Welcome

Thank you for purchasing our network video recorder!

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

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

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

Important Safeguards and Warnings

1. Electrical safety

All installation and operation here should conform to your local electrical safety codes.

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.

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	 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.
User	• 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.

1.2 Features

	T	
	 Through network, sending audio/video data compressed by IPC or NVS to client-ends, then the data will be decompressed and display. 	
	 Support max 128 connections at the same time. 	
Network	 Transmit audio/video data by HTTP, TCP, UDP, MULTICAST, 	
Monitor	RTP/RTCP and etc.	
	 Transmit some alarm data or alarm info by SNMP. 	
	 Support WEB access in WAN/LAN. 	
	Adopt the video compression and digital process to show several	
Window Split	windows in one monitor. Support 1/4/8/9/16/ 25/36-window display when	
window Spin	preview and 1/4/9/16-window display when playback.	
	 Support normal/motion detect/alarm record function. Save the recorded 	
	files in the HDD, USB device, client-end PC, or network storage server.	
Record	You can search or playback the saved files at the local-end or via the	
	Web/USB device.	
	Support network backup, USB2.0 record backup function, the recorded	
Backup	files can be saved in network storage server, peripheral USB2.0 device, burner and etc.	
Network	Supervise NVR configuration and control power via Ethernet.	
Network• Supervise NVR configuration and control power via Ethemet.Management• Support management via WEB.		
Peripheral	Support peripheral equipment management such as protocol setup and	
Equipment	port connection.	
Management	 Support transparent data transmission such as RS232 (RS-422), RS485 (RS-485). 	
	Support switch between NTSC and PAL.	
	 Support real-time system resources information and running statistics 	
	display.	
Auxiliary	Support log file.	
	 Local GUI output. Shortcut menu operation via mouse. 	
	• IR control function (For some series product only.). Shortcut menu	
	operation via remote control.	
	 Support IPC or NVS remote video preview and control. 	

1.3 Specifications

Specifications		NVR8218KDR
	Main Processor	Industrial embedded micro processor
	Operation System	Embedded LINUX system
System	System	Max 128-channel×1080P connection,
	Resources	Total bandwidth (main stream 256M, sub stream 128M.)
	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	
	Compression	G.711a
	Standard	
Video	Video Input	128-ch network compression video input
Parameters	Video Resolution	8MP/5MP/3MP/1080P/UXGA/960P/720P/D1/CIF

	Video Output	HDMI (support 3840*2160)
	Video	(
Compression		H.264
	Standard	
	Window Split	The 1st screen: 1/4/8/9/16/25/36-screen.
	Mode	The 2nd screen: 1/4/8/9/16-screen.
Alarm	Alarm Input	16-channel
Parameters	Alarm Output	8-channel relay output
Decode	H.264;MPEG4	
Parameters	Decode Capability	48-channel×D1;8-channel×1080P;2-channel 800w
	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.
Functions	Multi-Channel Playback	Max support 128M playback at the same 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	SNMP,FTP,ISCSI,UPNP
	SATA Port	16 SATA Ports
Notwork	eSATA Port	1 eSATA port
Network Function	RS232 Port	1 RS232 port. To debug and transmit COM data.
runction	RS485 Port	1 RS232 port. To control peripheral PTZ and etc. Support various protocols.
	USB Port	3 USB 2.0 ports and 1 USB3.0 port.
	HDMI Port	2 HDMI ports
	Network Port	4 RJ45 10/100/1000Mbps self-adaptive Ethernetet ports+2 1000Mbps self-adaptive fiber ports
	SAS Port	1
	Power On-off Button	N/A
	Power Button	One at the front panel.
	IR Remote Control Receiver	One at the front panel.
	Indicator Light	 35 indicator lights. 1 system HDD indicator light 1 alarm indicator light 1 network info indicator light 16 HDD power indicator lights
		16 HDD read/write indicator lights

	Power	AC100~240V,50~60Hz
	Power	<170W (With 3T HDD)
	Consumption	
	Working	-10℃~55℃
	Temperature	
General Working Humidity 10%~90% (No cond		10%~90% (No condensation)
Parameters	Dimensions (L $ imes$	531.9(with the LCD length)mm $ imes$ 485mm(with ear) $ imes$
	W×H)	133.2mm(H)
		518(without the LCD length) $ imes$ 482mm(without ear) $ imes$
		133.2mm(H)
	Weight	17.45Kg (No HDD)
	Installation Mode	Rack/desktop

2 Front Panel and Rear Panel

2.1 Front Panel

The front panel is shown as below. See Figure 2-1.

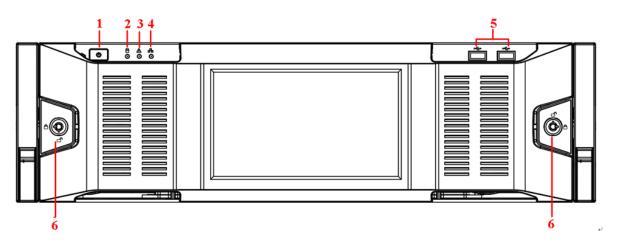


Figure 2-1

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

SN	Name	Function
1	Power button	Press it once to turn on the device.
		Press it for a long time to turn off the device. (Usually we do not
		recommend).
		Press power button for a long time or pull out the power cable may
		result in device auto restart.
2	System HDD	The blue light becomes on after system booted up properly.
	Indicator light	In the system HDD, there are device important configuration file,
		factory default configuration file, and device initial boot up data.
3	Alarm indicator	The alarm indicator light becomes on once an alarm occurred. It
	light	becomes on via the software detection. The alarm includes local
		alarm, no disk and etc.
4	Network	The blue network indicator light is on after you connected the device
	indicator light	to the network.
5	USB port	1
6	Front panel lock	1

After you remove the front panel, you can see there are 16 HDDs. From the left to the right and from the top to the bottom, it ranges from 1~4, 5~8, 9~12, 13~16. See Figure 2-2.

You can see there are two indicator lights on the HDD bracket.

- The power indicator light is at the top. The light is yellow after you connected the device to the power.
- The read-write indicator light is at the bottom. The blue light flashes when system is reading or writing the data.

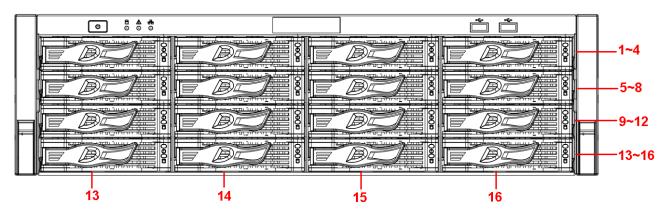
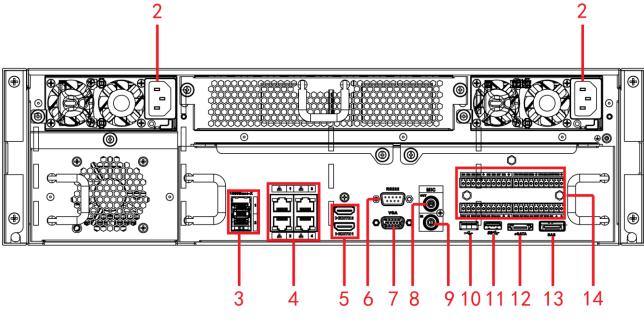


Figure 2-2

2.2 Rear Panel

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





Please refer to the following sheet for detailed information.

SN	Name	SN	Name
1	Power on-off button	2	Power socket
3	1000M fiber port	4	Network port
5	HDMI port	6	RS232 port
7	Video VGA output	8	Audio output
9	Audio input	10	USB2.0 port
11	USB3.0 port	12	eSATA port
13	SAS extension port	14	Alarm input/output/RS485 port

2.3 Alarm Connection

Please refer to the following sheet for alarm input and output connection.

There are two alarm input types for you to select: normal open (NO) and normal close (NC).

1. Alarm input

a. Please make sure alarm input mode is grounding alarm input.

- b. Grounding signal is needed for alarm input.
- c. Alarm input needs the low level voltage signal.
- d. Alarm input mode can be either NC (normal Open) or NO (Normal Close)

e. When you are connecting two NVRs or you are connecting one NVR and one other device, please use a relay to separate them.

2. Alarm output

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

3. Please make sure the front-end device has soundly earthed.

Improper grounding may result in chip damage.

2.3.1 Alarm input and output details

You can refer to the following sheet for alarm input and output information. See Figure 2-4.

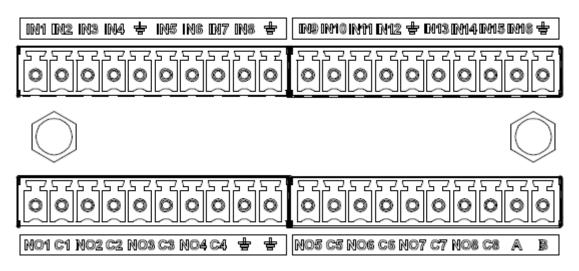


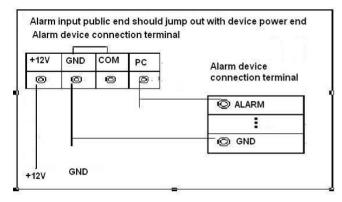
Figure 2-4

lcon	Note
1, 2, 3, 4, 5, 6,	ALARM 1 to ALARM 16. The alarm becomes active in low voltage.
7, 8, 9, 10, 11,	
12, 13, 14, 15, 16	
1-ON C, 2-ON C,	Eight groups of normal open activation output (on/off button)
3-ON C, 4-ON C,	
5-ON C, 6-ON C,	
7-ON C, 8-ON C	
<u> </u>	GND cable.
A/B	The A/B cable to control the RS485 devices. It is to connect to
	control devices such as PTZ dome camera. 120Ω should be parallel
	connected between A, B lines on the far end to reduce reflection and
	guarantee the signal quality.

2.3.2 Alarm input and output port

Please refer to the following sheet for more information.

- Grounding alarm inputs. Normal open or Normal close type)
- Please parallel connect COM end and GND end of the alarm detector (Provide external power to the alarm detector).
- Please parallel connect the Ground of the NVR and the ground of the alarm detector.
- Please connect the NC port of the alarm sensor to the NVR alarm input(ALARM)
- Use the same ground with that of NVR if you use external power to the alarm device.





2.3.3 Alarm Output Port

- Provide power to peripheral alarm device.
- To avoid overloading, please read the following relay parameters sheet carefully.
- RS485 A/B cable is for the A/B cable of the PTZ decoder.

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				
	Between touches with different	1000VAC 1minute			
	polarity				
	Between touch and winding	1000VAC 1minute			
Surge voltage	Between touches with same				
Surge voltage	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)			

2.4 Mouse Operation

Please refer to the following sheet for mouse operation instruction.

1.0						
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 \leftarrow stands for deleting the previous character.					
	!?@#\$%=+*← 123 qwertyuiop/ 456 asdfghjkl:Enter 789 z×cvbnm,.Shift □0&					
	!?@#\$% = + * - \leftarrow 1 2 3 QWERTYUIOP/ 4 5 6 ASDFGHJKL: Enter 7 8 9 ZXCVBNM, Shift					
	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.					
Satton						
Movo mouso	Page up or page down					
Move mouse	Select current control or move control					
Drag mouse	Select motion detection zone					
	Select privacy mask zone.					

2.5 Mouse Control

1.0					
Left click					
mouse	In real-time monitor mode, you can go to the main menu.				
	When you have selected one menu item, left click mouse to view menu content.				
	Implement the control operation.				
	Modify checkbox or motion detection status.				
	Click combo box to pop up drop down list				
In input box, you can select input methods. Left click the correspond on the panel you can input numeral/English character (small/capitali ← stands for backspace button stands for space button.					
	In English input mode: _stands for input a backspace icon and \leftarrow stands for deleting the previous character.				
A B C D E F G H I J K L M N O P Q R S T ⊔ U V W X Y Z ← u v w x y z ←					
	In numeral input mode: _ stands for clear and \leftarrow stands for deleting the previous numeral.				
When input special sign, you can click corresponding numeral in the to input. For example, click numeral 1 you can input"/", or you can numeral in the on-screen keyboard directly.					
1 / 2 : 3 . 4 ? 5 - 6 _ 7 @ 8 # 9 % 0 & _ ←					
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.				
L	۱ ــــــــــــــــــــــــــــــــــــ				

Right click mouse	In real-time monitor mode, pops up shortcut menu: one-window, four-window, nine-window and sixteen-window, Pan/Tilt/Zoom, color setting, search, record, alarm input, alarm output, main menu. Among which, Pan/Tilt/Zoom and color setting applies for current selected					
	channel.					
	If you are in multiple-window mode, system automatically switches to the corresponding channel.					
	View 1 > View 4 > View 8 > View 9 > View 16 > View 25 > View 36 > View 64 > PTZ Auto Focus P Image Q Search Manual > Remote					
	🖞 Main Menu					
	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 Local Basic Operation

3.1 Boot up and Shutdown

3.1.1 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.

3.1.2 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.

3.2 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.



Figure 3-1

Click Cancel button or Next Step button, system goes to login interface. See Figure 3-2. 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 3-2

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!

Click OK button, you can go to General interface. See Figure 3-3. For detailed information, please refer to chapter 3.13.1.

	(GEN	IERAL		
General	Date&Time	Holiday			
Device ID	(NVR				
Device No.	8				
Language	ENGLISH				
Video Standaro	d (PAL				
HDD Full	Overwrite				
Pack Duration	60	Minute			
Realtime Play	5	Minute			
Auto Logout	(10	Minute			
IPC Time Sync	24	Hours			
Navigation	Bar				
Mouse Sensitiv	rity Slow —	Fa:	st		
			Back	Next	Cancel

Figure 3-3

Click Next button, you can go to network interface. See Figure 3-4. For detailed information, please refer to chapter 3.11.

		TCP/IP			
Ethernet Card	IP Address	Net Mode	NIC Member	Edit	Unbond
Network Card1	172.11.3.8	Single NIC	1	1	
Network Card2	192.168.1.106	Single NIC	2	1	
Network Card3	192.168.1.105	Single NIC	3	1	
Network Card4	192.168.1.104	Single NIC	4	1	
Fiber Card5	192.168.1.103	Single NIC	5	1	
Fiber Card6	192.168.1.102	Single NIC	6	/	
IP Address: 172.11 MAC Address: 90:1	.3.8 De 02:a9:da:33:e1 Su	fault Gateway: bnet Mask: 255		MTU: Mode	1500 : STATIC
	•				
	8 . 8 . 8 . 8 . 8 . 4 .	8			AN Download

Figure 3-4

Click Next button, you can go to remote device interface. See Figure 3-5. For detailed information, please refer to chapter 3.4.

			REN	ИОТЕ				
0 Mo	dify IP Ad	dress	Port	Device ID		Manufacturer	Ту	
Device Sear	ch) (A	.dd)		Displ	ay Filter 🧃	Null	\neg	
Added Devic								
Channel	Modify	Delete	Status	IP Address	Port	Device ID	^	
□ 1	1	×	0	172.12.3.107	80			
2	/	×	0	172.4.4.31	80			
3	/	×	-	172.11.2.133	37777	HDVR		
4	/	×	-	172.4.4.6	80			
5	/	× × ×	-	172.4.4.9	80			
6	/		0	172.11.1.179	37777	DVR		
7	1	×	0	172.11.1.108	37777	HDVR	H	
I I I I I I I I I I		ii ii		170 11 1 101				
Delete								
				Back	Next	Cance	al	
				Duck	INCA	Carle		

Figure 3-5

Click Next button, you can go to RAID interface. See Figure 3-6. For detailed information, please refer to chapter 3.12.4.

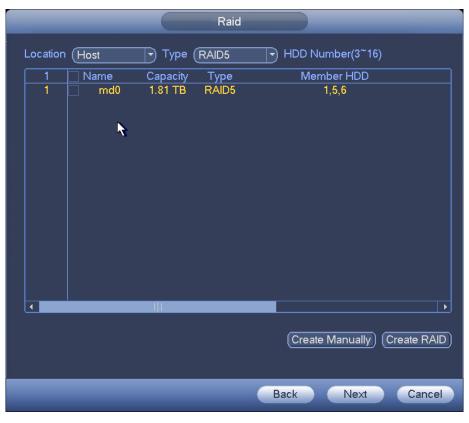


Figure 3-6

Click Next button, you can go to Schedule interface. See Figure 3-7.



For detailed information, please refer to chapter 3.7.2.

Figure 3-7

Click Finish button, system pops up a dialogue box. Click the OK button, the startup wizard is complete. See Figure 3-8.



Figure 3-8

3.3 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 3-9.





3.3.1 Main Menu

ഹ Click button to go to the main menu interface.

3.3.2 Dual-screen operation Important

This function is for some series only.

to select screen 2, you can view an interface shown as below. See Figure 3-10. It is a Click navigation bar for screen 2.

田 🗌 🖉 🕥

Figure 3-10

Click any screen split mode; HDMI2 screen can display corresponding screens. Now you can control two screens. See Figure 3-11.



Figure 3-11

Note

- Screen 2 function is null if tour is in process. Please disable tour function 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.

3.3.3 Output Screen

Select corresponding window-split mode and output channels.

3.3.4 Tour



3.3.5 PTZ

Click system goes to the PTZ control interface. Please refer to chapter 3.6.2.

3.3.6 Color

Click button System goes to the color interface. Please refer to chapter 3.4.3.

Please make sure system is in one-channel mode.

3.3.7 Search

system goes to search interface. Please refer to chapter 3.8.2 Click button

3.3.8 Alarm Status

Click button A, system goes to alarm status interface. It is to view device status and channel status. Please refer to chapter 3.14.1.5.

3.3.9 Channel Info

Click button even goes to the channel information setup interface. It is to view information of the corresponding channel. See Figure 3-12.



Figure 3-12

3.3.10 Remote Device

Click system goes to the remote device interface. Please refer to chapter 3.4.

3.3.11 Network

Click , system goes to the network interface. It is to set network IP address, default gateway and etc. Please refer to chapter 3.11.

3.3.12 HDD Manager

Click System goes to the HDD manager interface. It is to view and manage HDD information. Please refer to chapter 3.12.1.

3.3.13 USB Manager



system goes to the USB Manager interface. See Figure 3-13. It is to view USB information, backup and update. Please refer to chapter 3.9.1 file backup, chapter 3.9.3 backup log, chapter 3.9.2 import/export, and chapter 3.14.4 upgrade for detailed information.

_		USB MANAGI	ER	_
Name	Туре	Total Space	Used Space	Left Space
🖌 /dev/sdb1		1.8G	256.0K	1.8G
FILE BACKUP	Log Backup	Config Backu	p Syster	m Upgrade

Figure 3-13

3.3.14 System Status

you can go to the following interface. See Figure 3-14. Here you can view host information, Click RAID information, HDD information, HDD usage rate, fan speed, CPU usage, CPU temperature, memory usage, power information and etc.

The following interface for reference only.

Host Info HDD: 0 Error: 0 Normal: 0	15:42 2014-10-29 Network
(RAID Info) HDD HDD Name Type Status HDD Group Capacity Info	Fan Speed
	CPU CPU Temperature Memory Normal 15% Vormal 28%
	Power Into

Figure 3-14

3.3.15 Device Tree

Click , you can go to the following interface. See Figure 3-15. You can view channel list and device list.

Channel	Device		Channel	Device
▼ Channel Li	st	•	Device Type (All
▶ [001][17	72.11.2.214]		V Device Lis	t
	72.11.2.215		> 3 [172.1	
▶ [003][17	72.11.2.71]		▶⊘[172.1	
▶ [004][17	72.11.2.105]		> 3 [172.1	
₽ ∢[005][Fi	ree]		>80[172.1	
■(006][Fi	ree]		-	
📭 (007] [Fi	ree]			
₪ ∢[008][Fi	ree]			
💽 ([009][Fi				
₽ 4 [010][Fi	-			
🖸 🗗 💽 🛛 🕞 🖸				
💽 ([012][Fi				
₽ ∢[013][Fi	-			
∎€ [014][Fi	-			
■([015][Fi	-			
■([016][Fi				
■([017][Fi				
■([018][Fi	-			
■([019][Fi [0000]]	-			
■ [020][Fi	-			
■4 [021][Fi				
D ∢[022][Fi	-			
■([023][Fi				
⊠ ∢[024][Fi	-			
■([025][Fi = (026][Fi				
■4 [026][Fi ■4 [027][Fi				
∎∢[027][Fi ∎∢[028][Fi	-			
028][Fi				
030][Fi				
030j[Fi				
		•		

Figure 3-15

3.4 Remote Device

3.4.1 Remote Device Connection

From Mani menu->Setting->Remote->Remote or right click mouse on the preview interface and then select remote device item, you can see the following interface. See Figure 3-16.

		SE	TTING		
CAMERA		Ta EVEN	т	STORAGE	SETTING
REMOTE IMAGE	Remote	Status	Firmware	Upgrade	
ENCODE CAM NAME	1 @ 2 @ 3 @ 4 @ 5 @ 6 @	IP Address 10.15.7.109 10.15.2.145 192.168.1.108 10.15.30.36 10.15.6.85 10.15.7.16 10.15.6.188	Port 37777 37777 37777 37777 40009 37777 37777	Type EVS5000 PC-NVR IPC-HF8281 NVR DVR HCVR PC-NVR	MAC Addres ▲ 90:02:a9:23: 8C:89:A5:91 E 90:02:a9:42: 88:38:fe:cd:6 90:02:a9:8d: 90:02:a9:b9: 78:2B:CB:80 ▼
	Device Search (Device Search) Added Device	Add) odify Delete	Status	IP Address	Filter Null
		/ × / ×	•	10.15.6.99 10.15.6.84	37777 YZC4CZ106W0 40002 PZB3GN03400
	Delete (Mar	nual Add)		ОК	Cancel Apply

Figure 3-16

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 3-17.

Important

Please note the manual add function is for Dahua, Panasonic, Sony, Dynacolor, Samsung, AXIS, Arecont, ONVIF 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
Manufacturer	Private
IP Address	(192.168.0.0
TCP Port	37777
User Name	admin
Password	•••••
Connect	
Channel No.	(1) (Set
Remote Channel No.	
Channel	5
Decode Buffer	Default
	X
	OK Cancel

Figure 3-17

3.4.2 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 3-18.



Figure 3-18

3.4.3 Image

From main menu->Setting->Camera->Image, you can see the image interface is shown as below. See Figure 3-19.

- Channel: Select a channel from the dropdown list.
- Config file: The options includes: day/night/general/switch by period. Once the mode is switch by period, you can set sunset and sunrise time.
- 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.
- 3D NR: It is to process multiple-frame (At least two frames). System uses the information between these two frames to realize noise reduction function.
- BLC: It includes several options: BLC/WDR/HLC/OFF.
- ♦ BLC: There are two modes: default/customize. For the default mode, the device auto exposures according to the environments situation so that the darkest area of the video is clearer. For the customized mode, you can select a rectangle zone to enhance its brightness to the proper level.
- 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.
- \diamond 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.)
- \diamond 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		
	T NETWORK	DEVENT	STORAGE	SETTING
REMOTE IMAGE ENCODE	Channel	<u>(1)</u>	Config Files(Day
CAM NAME	Auto Iris Mirror Flip 3D Denoise Light Scene Mode Day & Light	 Enable O Disable Enable Disable No Flip Enable Disable Stop Auto Auto 	Saturation a Brightness a Contrast a Sharpness a	50 50 50 50 50
	Default	Refresh	OK	Cancel Apply

Figure 3-19

3.4.4 Channel Name

From main menu->Setting->Camera->Channel name, you can see an interface shown as in Figure 3-20. 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.

CAMERA REMOTE IMAGE ENCODE CAM NAME Channe Channe Channe Channe Channe Channe Channe	3E I	TING	
IMAGE Camera ENCODE Channe CAM NAME Channe Channe Channe Channe Channe	ORK 🛛 🔂 EVENT	STORAGE	
Channe	IPC IPC II III III III III III IIII IIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Channel2 Channel4 Channel6 Channel8 Channel10 Channel12 Channel14 Channel16	2 4 6 8 10 12 14 16 Cancel Apply

Figure 3-20

3.4.5 Upgrade

Important

System max supports to upgrade 8 network cameras at the same time.

It is to update the network camera.

From main menu->Setting->Camera->Remote->Upgrade, the interface is shown as below. See Figure 3-21.

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
	📻 NETWORK 🛛 🔂 EVENT 🛛 🛃 STORAGE 🖉 SETTING
REMOTE IMAGE ENCODE	Remote Status Firmware Upgrade
CAM NAME	Device Upgrade(0/2) Type None
	Channel Status IP Address Port Manufacturer Device Type \$ 1 010.15.6.99 37777 Private IPC-HFW8301E 2 0 10.15.6.84 40002 Private
	(Start Upgrade)

Figure 3-21

3.5 Preview

After device booted up, the system is in multiple-channel display mode. See Figure 3-22.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 3-22

3.5.1 Preview

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	I	Current channel pops up this icon when it is recording.	3	?	Current channel pops up this icon when video loss alarm occurs.
2	A	Current channel pops up this icon when motion detect alarm occurs.	4	8	Current channel pops up this icon when it is in monitor lock status.
5	()	System exceeds decoded channel amount.			

<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.

3.5.2 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 3-23. If your mouse stays in this area for more than 6 seconds and has no operation, the control bar automatically hides.

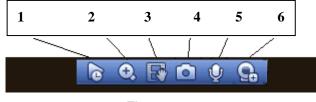


Figure 3-23

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.

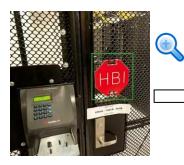
2) Digital zoom

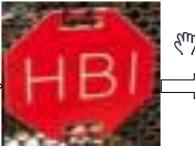
It is to zoom in specified zone of current channel. It supports zoom in function of multiple-channel.

Click button S, the button is shown as S.

There are two ways for you to zoom in.

• Drag the mouse to select a zone, you can view an interface show as Figure 3-24.





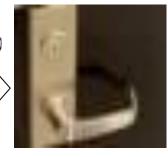


Figure 3-24

• 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 3-25.



Figure 3-25

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 with the recording. Click it again, system stops recoriding. 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 3.8) 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 Ψ

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 3.4.2 for detailed information.

3.5.3 Right Click Menu

After you logged in the device, right click mouse, you can see the short cut menu. Please see Figure 3-26.

- 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.
- Image: 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: 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.

	View 1	►
	View 4	•
	View 8	•
	View 9	►
	View 16	►
25	View 25	•
36	View 36	•
64	View 64	•
	PTZ	
[+]	Auto Focus	
æ	lmage	
O,	Search	
۲	Manual	►
-	Remote	
ជ	Main Menu	

Figure 3-26

3.5.4 Preview Display Effect Setup

3.5.4.1 Display

From Main Menu->Setting->System->Display, you can go to the following interface. See Figure 3-27. Here you can set menu and video preview effect. All you operation here does not affect the record file and playback effect.

	_	SETTING		_
CAMERA		T EVENT	STORAGE	
GENERAL DISPLAY PTZ ACCOUNT AUTO MAINTAIN	Display Time Display Channel Display Image Enhance			
IMP/EXP DEFAULT UPGRADE	IVS Rule Screen Mode Screen Enable Screen NO	 ✓ ✓ ✓ HDMI1 + HDMI2 → ✓ Screen1 □ Scre ✓ HDMI1 → F 	en2 Resolution (<u>1280x1024</u>	
	Default		ОК С	ancel Apply

Figure 3-27

Now you can set corresponding information.

- 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.
- IVS rule: Check the box to enable IVS function. System can display IVS rule on the preview video.
- Screen mode: 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.
- Screen enable: Check the box here to enable the screen. In this way, it can display the video.
- Screen No. Select the corresponding screen from the dropdown list and then set resolution.
- Resolution: There are four options: 1920×1080, 1280×1024, 1280×720, and 1024×768. The VGA default resolution is 1280×1024; HDMI default resolution is 1920×1080. Please note the system needs to reboot to activate current setup.

Click OK button to save current setup.

3.5.4.2 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 3-28. Here you can set tour parameter.

- Screen No.: Please select screen from the dropdown list.
- Video detect: It is to set video detect tour. System supports 1/8-window tour.
- Alarm: It is to set alarm tour. System supports 1/8-window tour.
- Enable tour: Check the box here to enable tour function.
- Interval: Input proper interval value here. The value ranges from 1-120 seconds.
- Window split: It is to set window split mode.

	SETTING	
ST CAMERA	TRETWORK DE EVENT STORAGE SETTING	
GENERAL DISPLAY RS232 PTZ ACCOUNT AUTO MAINTAIN IMP/E×P DEFAULT UPGRADE	Display Tour Screen Num HDMI1 Video Detect View 1 Alarm View 1 Enable Tour Interval 5 Screen Num Image: Screen Num HDMI1 Video Detect View 1 Add Display View 1 View 1 Image: Screen Num View 1 Image: Screen Num Image: Screen Num <	
	Default OK Cancel Apply	



Tips

On the navigation bar, click I to enable/disable tour.

Click Save button to save current setup.

3.6 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.

3.6.1 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 3-29. 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		
CAMERA		devent	STORAGE	SETTING
GENERAL DISPLAY PTZ ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	Channel (26) PTZ Type (Local Protocol (NO) Address (1) Baud Rate (960) Data Bit (8) Stop Bit (1.5) Parity (Non)		СК	Cancel Apply

Figure 3-29

If you are connecting to network PTZ, the PTZ type shall be remote. See Figure 3-30.

	SE	TTING	
N CAMERA	70 NETWORK The EVEN	T STORAGE	SETTING
GENERAL DISPLAY PTZ ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	Charonal PTZ Type Remote		
	Default Copy	ОК	Cancel Apply

Figure 3-30

3.6.2 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 3-31. Please note you can only go to the PTZ control interface when you are in 1-window display mode.

	View 1	•
	View 4	•
	View 8	•
	View 9	•
	View 16	•
25	View 25	•
36	View 36	•
64	View 64	•
╼	PTZ	
iti	Auto Hocus	
æ	lmage	
0	Search	
۲	Manual	•
-	Remote	
ជា	Main Menu	

Figure 3-31

The PTZ setup is shown as in See Figure 3-32.

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 with and with 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.





In the middle of the eight direction arrows, there is a 3D intelligent positioning key. See Figure 3-33. 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.



Figure 3-33

Name	Function	function	Shortcut	Function	function	Shortcut
	key		key	key		key
Zoom	•	Near	ŀ	•	Far	••
Focus	0	Near	◀	•	Far	►
Iris	•	close	◀	Ð	Open	▶

In Figure 3-32, click to open the menu, you can set preset, tour, pattern, scan and etc. See Figure 3-34.



Figure 3-34

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 3-32.

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

3.6.2.1 PTZ Function Setup

Click, you can go to the following interface to set preset, tour, pattern, and scan. See Figure 3-35.



Figure 3-35

In Figure 3-35, click preset button and use eight direction arrows to adjust camera to the proper position. The interface is shown as in Figure 3-36.

Click Set button and then input preset number.

Click Set button to save current preset.



Figure 3-36

Tour Setup

In Figure 3-35, click tour button.

Input tour value and preset No. Click Add preset button to add current preset to the tour. See Figure 3-37. **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.



Figure 3-37

Pattern Setup

In Figure 3-35, click Pattern button and input pattern number.

Click Begin button to start direction operation. Or you can go back to Figure 3-32 to operate zoom/focus/iris/direction operation.

In Figure 3-35, click End button.



Figure 3-38

Scan Setup

In Figure 3-35, 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.



Figure 3-39

3.6.2.2 Call PTZ Function Call Preset

In Figure 3-34, input preset value and then click

Call Pattern

In Figure 3-34, input pattern value and then click to call a pattern. Click again to stop call.

to call a preset. Click

Call Tour

again to stop call.

In Figure 3-34, input tour value and then click

Call Scan

In Figure 3-34, input Scan value and then click

Rotate

In Figure 3-34, click is 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.

Aux

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 3-40.

Direct Aux		
(Wiper 🔻	On Off	
Aux Num		
0	On Off	

Figure 3-40

3.7 Record and Snapshot

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

3.7.1 Encode

3.7.1.1 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 3-41.

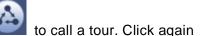






to stop call.





←→

- Channel: Select the channel you want.
- Type: Please select from the dropdown list. There are three options: regular/motion detect/alarm. You can set the various encode parameters for different record types.
- Compression: System supports H.264, MPEG4, MJPEG and etc.
- Resolution: The mainstream resolution type is IPC's encoding config. Generally there is D1/720P/1080P.
- Frame rate: It ranges from 1f/s to 25f/s in NTSC mode and 1f/s to 30f/s in PAL mode.
- Bit rate type: System supports two types: CBR and VBR. In VBR mode, you can set video quality.
- 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 3-48. 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 3-48 and Figure 3-42 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
	📬 NETWORK 🛛 👼 EVENT 🛛 💁 STORAGE 🛛 🛃 SETTING
REMOTE IMAGE	Encode Overlay Snapshot
ENCODE	Channel 1
CAM NAME	Code-Stream Type Regular 🔹 Sub Stream 1 🔻
	Compression (H.264)
	Resolution (2048×1536) (352×288(CIF))
	Frame Rate(FPS) 25 • 25 •
	Bit Rate Type CBR CBR CBR CBR CBR CBR CBR CBR
	Bit Rate(Kb/S) 6144 ♥ 1024 ♥ Reference Bit Rate 1536-8192Kb/S 56-1024Kb/S Audio/Video ♥
	Default Copy OK Cancel Apply

Please highlight icon 🔲 to select the corresponding function.

Figure 3-41

3.7.1.2 Overlay

Click overlay button, you can see an interface is shown in Figure 3-42.

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.
- Customized title: System supports five customized titles.

	SETTING
CAMERA	TRANSTRATE TING
REMOTE IMAGE	Encode Overlay Snapshot
ENCODE	Channel 1
CAM NAME	Time Display Image: Monitor Set Channel Display Image: Monitor Set Cover-Area Image: Monitor Set
	Customized Title Customized Title1 Customized Title2 Customized Title3 Customized Title4 Customized Title5 Align Mode Left Align OK Cancel Apply

Figure 3-42

3.7.2 Schedule

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

3.7.2.1 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 3-46. 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



 \diamond **Matrix**: Click it to delete a record 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 3-47. There are five record types: regular, motion detection (MD), Alarm, MD & alarm, and intelligence.

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

a) Select a channel you want to set. See Figure 3-43.



Figure 3-43

b) Set record type. See Figure 3-44.

Regular	Motion	Alarm	📃 MD&Alarm 🛃 Intelligence



c) Please draw manually to set record period. There are six periods in one day. See Figure 3-45.



Figure 3-45

Please check the box is 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, and orange color stands for intelligent alarm. 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.

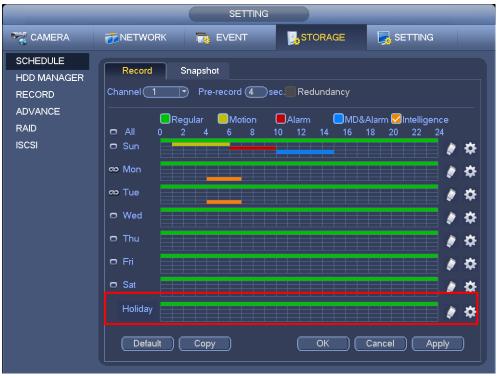


Figure 3-46

-	00:00	- 24 : 00	Regular	Motion	Alarm	MD&Alarm Intelliger
	01 :00 06 :00	- 06: 00 - 10: 00	Regular	Motion	Alarm ☑Alarm	MD&Alarm Intelligen
	10:00	- 10: 00	Regular	Motion	Alarm	
Period 5	15 :00	- 20: 00	Regular	Motion	Alarm	MD&Alarm 🖌 Intelliger
Period 6	00:00	- 24:00	Regular	Motion	Alarm	MD&Alarm Intelliger
All	S	ın Mon (Tu	9 🗍 Wed 🗍	Thu () Fri (]Sat	

Figure 3-47

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 3-48. 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 3-48, the record setup of all channels are the same and the Copy button becomes hidden.



Figure 3-48

Click OK button to save current setup.

3.7.2.2 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 3-49.

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

				SETTING			
SAMERA			è E	VENT	STORAGE	E 🛃 SET	ITING
CAMERA SCHEDULE HDD MANAGER RECORD ADVANCE RAID ISCSI	Main Stream Auto Manual Off Sub Stream Auto Manual Off Snapshot Enable Disable	AII 0 0 0 0 0		2 • • • • • •	STORAGE	E SE	
					Ок	Cancel	Apply

Figure 3-49

From Main menu->Setting->Camera->Encode->Snapshot, you can go to snapshot interface. See Figure 3-50.

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.

	SETTING
	TRANSTRATE TING
REMOTE IMAGE	Encode Overlay Snapshot
ENCODE CAM NAME	Manual Snap 1 Time Channel 1
	Mode Timing Image Size 2048×1536 Quality 5
	Snapshot Frequency 1 SPL
	OK Cancel Apply

Figure 3-50

In the main menu, from Main menu->Setting->Storage->Schedule, you can go to schedule menu. See Figure 3-46. Here you can set snapshot period. There are total six periods in one day. Please refer to chapter 3.7.2.1 for detailed setup information. The setup steps are general the same.

	SETTING
SAMERA	TRACE EVENT
SCHEDULE HDD MANAGER RECORD	Record Snapshot Channel 1
ADVANCE RAID	✓ Regular ✓ Motion ✓ Alarm ✓ MD&Alarm ✓ Intelligence ✓ All 0 2 4 6 8 10 12 14 16 18 20 22 24
ISCSI	□ All 0 2 4 6 8 10 12 14 16 18 20 22 24 □ Sun
	🗢 Mon 🥒 🤌 🏕
	🗢 Tue
	🗢 Wed
	🗢 Thu
	🛛 🖸 Fri 💦 👘 🖉 🎸
	🗅 Sat
	Default Copy OK Cancel Apply

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.

3.7.3 Motion detect record/snapshot

- 3.7.3.1 Motion detect record
 - a) From Main menu->Setting->Event->Video detect, you can go to the following interface. See Figure 3-52.

		SETTING		
		📷 EVENT	STORAGE	SETTING
VIDEO DETECT FACE DETECT AUDIO DETECT ALARM ABNORMALITY ALARM OUT		deo Loss Tamperi 1 Set Set Alarm Upload	ng Video Diagnose Anti-dither (5 Latch (10 Send Email Delay (10	sec. sec. sec.
	Default	Сору	<u>ОК</u>	Cancel Apply

Figure 3-52

- b) Select a channel from the dropdown list and then check the enable button to enable motion detect function.
- c) Click Region Click select button, the interface is shown as in Figure 3-53. 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.

	2	3	4
Zoi	ne Name (Regio	on1	
Sei	nsitivity ——	_ 55	5
Thi	reshold 🗐	10)



- d) Period: Click set button, you can see an interface is shown as in Figure 3-54. 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 3-54, 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 3-54. Click button after one date or a holiday, you can see an interface shown as in Figure 3-55. 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 3-46.
 - h) Set motion detect record channel, period and the record type shall be motion detect (MD). Please refer to chapter 3.7.2.
 - i) Click Copy button to copy current setup to other channel(s).
 - j) Click OK button to complete motion detect record setup.



Figure 3-54

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 3-55

3.7.3.2 Motion Detect Snapshot

- a) From Main menu->Setting->Camera->Encode->Snapshot, you can go to snapshot interface. See Figure 3-56.
- b) In Figure 3-56, 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 3.7.3.1.
- d) Click OK button to complete motion detect setup.

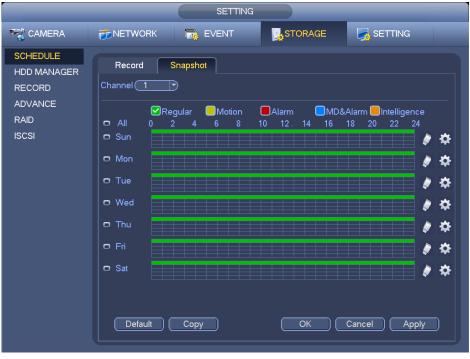


Figure 3-56

3.7.4 Alarm Record/Snapshot

3.7.4.1 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 3-57.

- 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 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 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		📷 EVENT	STORAGE	SETTING
VIDEO DETECT FACE DETECT	Local	Net IPC Ex	t IPC Offline	
AUDIO DETECT	Alarm In	1		
ALARM	Enable		Type (NO 🔽	
ABNORMALITY ALARM OUT	Alarm Alias			
	Period	Set	Anti-dither (5	sec.
	Alarm Out	1234	Latch (10	Sec.
	Show Message	Alarm Upload	Send Email	
	Record Channel	12		
	PTZ Activation	Set	Delay (10	Sec.
	✓Tour	12		
	Snapshot	12		
	Buzzer			
	Default	Сору	ОК	Cancel Apply

Figure 3-57

- d) From Mani menu->Setting->Storage->Schedule, you can go to Figure 3-46.
- e) Select alarm channel, period and the record type shall be alarm. Please refer to chapter 3.7.2.
- f) Click Copy button to copy current setup to other channel(s).
- g) Click OK button to save alarm record information.

3.7.4.2 Alarm Snapshot

- a) Please refer to Step a) to step c) of chapter 3.7.3.2 to enable timing snapshot.
- b) From Main menu->Setting->Storage->schedule, you can go to Figure 3-58 to enable snapshot function.
- c) From Main menu->Setting->Event->Alarm, you can go to Figure 3-57 to set alarm parameter and enable snapshot function.
- d) Click Save button to save alarm snapshot setup.

	SETTING
	📂 NETWORK 📷 EVENT 📴 STORAGE 🔄 SETTING
REMOTE IMAGE	Encode Overlay Snapshot
	Manual Snap (1) /Time
CAM NAME	Channel 1 Mode Trigger Image Size 1280x720(72C Quality 6 Snapshot Frequency 1 SPL OK Cancel Apply

Figure 3-58

3.7.5 Manual Record/Snapshot

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

- 3.7.5.1 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 3-59.

Tips

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

😪 CAMERA 🛛 🚁 NETWORK 🛛 😹 EVENT 🛛 🛃 SETTING	
SCHEDULE HDD MANAGER RECORD ADVANCE RAID ISCSI SETTING Auto Off O Manual O Off O Manual O Off O Manual O Off O Sub Stream Auto Manual O Off O Off O Off O Off O Snapshot Enable Disable OK Cancel Apph	_



- 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 3.7.2 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.

3.7.5.2 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 3.8 to view snapshot picture.

3.7.6 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.

- 3.7.6.1 Holiday Record
 - a) From Mani menu->Setting->System->General, you can go to the following interface. See Figure 3-60.

_	SETTING	
N CAMERA	TRANSFERRED EVENT	
GENERAL DISPLAY	General Date&Time Holiday	
PTZ ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	0 Status Holiday Name Date	
	(Add Holidays)	
	Default OK Cancel Apply	

Figure 3-60

b) Click Add new holiday button, you can see an interface shown as in Figure 3-61. 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 3-61

- 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



3-62. Now you can set period and record type of holiday time. Please refer to chapter 3.7.2.1 for detailed setup information.

Figure 3-62

e) Click OK button to set holiday record setup.

3.7.6.2 Holiday Snapshot

Set Holiday date first. Please refer to step a) to step c) of chapter 3.7.6.1.

From Main menu->Setting->Storage->Schedule, you can go to schedule interface. See Figure 3-62. Click Holiday item to set snapshot period.

Set holiday snapshot type (Trigger/Regular). Please refer to chapter 3.7.2.2 or chapter 3.7.3.2.

3.7.7 Other Record/Snapshot

Motion detect&Alarm record or snapshot, please refer to chapter 3.7.4. Video loss or tampering record or snapshot function, please refer to chapter 3.7.3.

3.8 Playback and Search

3.8.1 Real-time Playback

Please refer to chapter 3.5.2 for real-time playback information.

3.8.2 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 3-63.

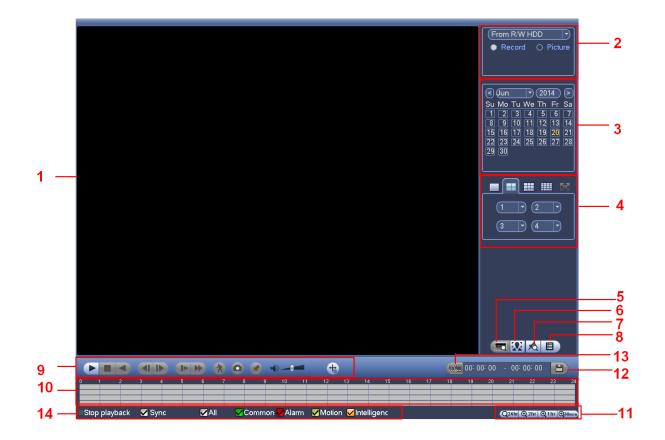


Figure 3-63

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. 					
3	Calendar	 The blue highlighted date means there is picture or file. Otherwise, there is r picture or file. In any play mode, click the date you want to see, you can see th corresponding record file trace in the time bar. 					
4	Playback mode and channel selection pane.	 Playback mode: 1/4/9/16. (It may vary due to different series.) In 1-window playback mode: you can select 1-X channels (X depends on the product channel amount). In 4-window playback mode: you can select 4 channels according to your requirement. In 9-window playback mode, you can switch between 1-8, 9-16 and etc channels. In 16-window playback mode, you can switch between1-16, 17-32 and etc 					

		channala			
		 channels. The time bar will change once you modify the playback mode or the channel 			
		option.			
		The card number search interface is shown as below. Here you can view card			
	Card	number/field setup bar. You cam implement advanced search.			
5	number				
	search	CARD 📲 🔅 🕅 🥵 Others 🖓 🧐 💭 🌆 (S-Card 🖓 🔾			
		Current series product does not support this function.			
		It is for 1-channel mode only. Click it, system can filter all humane faces and create			
6	Face list a file list. Double click the file to playback the corresponding record or image				
		Click it to go to mark file list interface. You can view all mark information of current			
7	Mark file	channel by time. Please refer to chapter 3.8.5 for detailed information.			
	list button	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. Click Play button to view the			
		file. Select one item, and then click the mouse or click the Play button to playback.			
		• You can input the period in the following interface to begin accurate search.			
		• File type: R—regular record; A—external alarm record; M—Motion detect			
	File list	record.			
8	switch				
	button				
		• Look file. Olich the file concerned to look and elich the bottom 🔲 to look. The			
		• 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 item in the file list. 			
		In slow play mode, click it to switch between play/pause.			
		 Stop 			
		Backward play			
9	Playback	In normal play mode, left click the button, the file begins backward play.			
	control	Click it again to pause current play.			
	pane.	In backward play mode, click ►/ II to restore normal play.			
		In playback mode, click it to play the next or the previous section. You can			
		click continuously when you are watching the files from the same channel.			
		In normal play mode, when you pause current play, you can click \triangleleft 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 3.8.5 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		
10	Time bar	begins playback.		
		• The time bar is beginning with 0 o'clock when you are setting the configuration.		
		The time bar zooms in the period of the current playback time when you are playing the file.		
		 The green color stands for the regular record file. The red color stands for the 		
		external alarm record file. The yellow stands for the motion detect record file.		
		•The option includes: 24H, 12H, 1H and 30M. The smaller the unit, the larger the		
	Time bar unit	zoom rate. You can accurately set the time in the time bar to playback the record.		
11		 The time bar is beginning with 0 o'clock when you are setting the configuration. 		
		The time bar zooms in the period of the current playback time when you are playing		
		the file.		
		• Select the file(s) you want to backup from the file list. 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		
	Backup	Start button to begin the backup operation. The record file(s) will be saved in		
12		the specified folder.		
12		• Check the file again you can cancel current selection. System max supports to		
		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		
40	Olic	operation.		
13	Clip	• 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. 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 operate clip operation if there is any file has been checked in the file list.
14	Record type	In any play mode, the time bar will change once you modify the search type.
		Other Functions
15	Smart search	 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. There is no motion detect zone by default. 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 3.8.4 Smart Search for detailed operation.
16	Other channel synchroni zation switch to play when playback	When playing the file, click the number button, system can switch to the same period of the corresponding channel to play.
17	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.

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.

3.8.3 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 3-64 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 3-64 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.

00 : 00 : 00	Q	11 : 09 :	00 🔍
1 2 3 4		1 2 3	4
Name	Lock	Name	Lock
10:54:47 R		11:09:09	R
🗌 11:09:09 R		13:30:44	R
🗌 13:30:44 R		13:34:00	R
🗌 13:34:00 R		13:39:11	R
🗌 13:39:11 R		15:00:00	R 📐
			N N
]	L]

Figure 3-64

3.8.4 Smart Search

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 3-65.

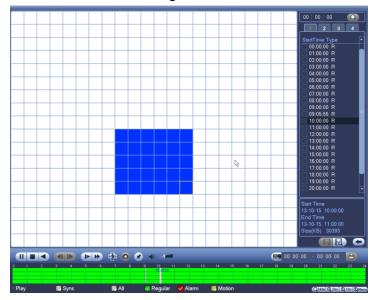


Figure 3-65



Click the vou 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.

3.8.5 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 3-63).

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 3-66.

Add Mark
Mark Time (2013-09-27 10:01:08 Mark Name (
Default OK Cancel



Playback Mark

During 1-window playback mode, click mark file list button in Figure 3-63, 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 the Search can go to Mark 3-67. System can information of can view all mark 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 Na	me
1 ☐ 1 2013-09-27 10:00:12 report	
Delete	Exit

manager button



interface (Figure 3-63); you Manager interface. See Figure manage all the record mark current channel by default. You information of current channel Figure 3-67

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.

3.8.6 Picture Playback

- a) From Main menu->Search, or on the preview interface right click mouse, you can go to Figure 3-63.
- b) At the top right pane, you can check the box to select picture and then select playback interval.
- c) Please refer to chapter 3.8.2 to select picture you want to view.

3.9 Backup

3.9.1 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 3-68.

BACKUP	
Device Nan (sdc1(USB DISK) ♥) 0.00 KB(Space Needed) 13.78 GB/15.00 GB(Free/Total)	Browse
Type All Start Time 2013 · 10 · 18 00 : 00 : 00 Record CH 1 End Time 2013 · 10 · 18 12 : 11 : 34 File Format DAV (0 Channel Type Start Time End Time Size(KB)	Add (Remove)
	Start
	_

Figure 3-68

- 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 3-69.
- 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.

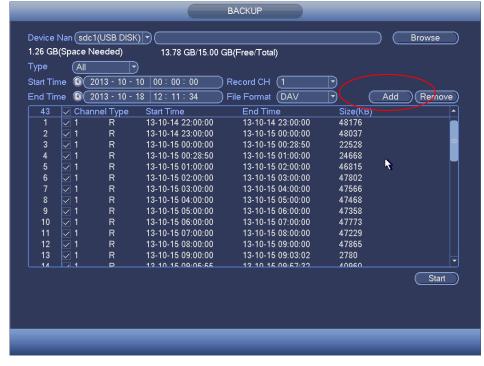


Figure 3-69

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.

3.9.2 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 3-70.

GENERAL			SETTING			-
	🌀 CAMERA		devent	STORAGE	SYSTEM	
DISPLAT Device Name (sdc1(USB DISK))*) Refresh PTZ ACCOUNT AUTO MAINTAIN MP/EXP DEFAULT UPDATE New Folder Format Import Export	GENERAL DISPLAY PTZ ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT	Device Name Total Space Address Name English English English Camera	sdc1(USB DISK)) • 15.00 GB //	Refresh Free Space	3.42 GB	Folder Folder Folder Folder



- 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.

3.9.3 Backup Log

a) From Main menu->Info->Log, the interface is shown as below. See Figure 3-71.

	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> 17 E
	18 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 3-71

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.

3.9.4 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 3-72. Please refer to chapter 3.9.1 file backup, chapter 3.9.3 backup log, chapter 3.9.2 import/export, and chapter 3.8.2 search for detailed information.

Find USB device							
	Name: sdb1(USB DISK) Capacity: 14.05 GB/15.00 GB(Free/Total)						
	File Backup Log Backup Config Backup System Upgrade						

Figure 3-72

3.10 Alarm

3.10.1 Detect Alarm

In the main menu, from Setting to Detect, you can see motion detect interface. See Figure 3-73. There are three detection types: motion detection, video loss, tampering.

3.10.1.1 Motion Detect

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

From main menu->Setting->Video detect->motion detect, motion detection menu is shown as below. See Figure 3-73.

- 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 3-74. 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 3-76. 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 3-76, 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 3-76. Click button after one date or a holiday, you can see an interface shown as in Figure 3-77. 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 3-75.
- 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 an alarm occurs. System one-window tour.
- Snapshot: You can enable this function to snapshoot image when a motion detect alarm occurs.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when an alarm occurs.

Please highlight icon us 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 3-74, 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		
STAMERA		Devent	STORAGE	SETTING
VIDEO DETECT FACE DETECT AUDIO DETECT ALARM ABNORMALITY ALARM OUT	Motion Detect Vid Channel Enable Enable Period Alarm Out Show Message Percord Channel PTZ Activation Tour Snapshot YLog Buzzer	Set Set Alarm Upload	ng Video Diagnose Anti-dither (5 Latch (10 Send Email Delay (10	sec.)sec.
	Default	Сору	(ок) (с	Cancel Apply

Figure 3-73

(<u>_</u>	2	3	4
	Zone Nam	ne (Region1		
	Sensitivity		100	
	Threshold	•	0	

Figure 3-74

_	PTZ Activation	
Channel 1 (None 🔻	0 Char	nnel 2 (None 🔻 🔍 🚺
Channel 3 (None 🔍	0 Chai	nnel 4 (None 🔻 🕥 🕕
Channel 5 (None 🔍	0 Chai	nnel 6 (None 🔻 🕥 🕕
Channel 7 (None 🔍	0 Char	nnel 8 (None 🔻 0
Channel 9 None	0 Char	nnel 10 (None 🔻 O
Channel 11 (None 🕤	0 Chai	nnel 12 (None 🔻 🔍 0
Channel 13 None	0 Char	nnel 14 (None 🔻 O
Channel 15 None	0 Char	nnel 16 (None 🔻 🕡
Channel 17 None	0 Char	nnel 18 (None 🔻 🔍
Channel 19 None	0 Char	nnel 20 (None 🔻 🔿 🔘
Channel 21 None	0 Char	nnel 22 (None 🔻 🔍
Channel 23 None	0 Char	nnel 24 (None 🔻 0
Channel 25 None	0 Char	nnel 26 (None 🔻 🔍
Channel 27 None	0 Char	nnel 28 (None 🔻 🔍
Channel 29 None	0 Char	nnel 30 None 🔻 O
Channel 31 None	0 Chai	nnel 32 (None 🔻 🔍
		OK Cancel

Figure 3-75



Figure 3-76

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

Figure 3-77

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

3.10.1.2 Video Loss

From main menu->Setting->Video detect->video loss, you can see the interface is shown as in Figure 3-78. 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 3.10.1.1 Motion detect for detailed information.

Tips:

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

SETTING						
SAMERA		📷 EVENT	STORAGE	SETTING		
VIDEO DETECT FACE DETECT AUDIO DETECT ALARM ABNORMALITY ALARM OUT		deo Loss Tamper	ing Video Diagnose)sec.		
	Default	Сору	ОК	Cancel Apply		

Figure 3-78

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. From main menu->Setting->Video detect->Tampering, you can see tampering interface is shown as in Figure 3-79. 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 3.10.1.1 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						
SAMERA		THE EVENT	STORAGE	SETTING		
VIDEO DETECT FACE DETECT AUDIO DETECT ALARM ABNORMALITY ALARM OUT	Motion Detect Via Channel Enable Period Alarm Out Show Message PTZ Activation Tour Snapshot Log Buzzer	Set Alarm Upload	ng Video Diagnose)sec.)sec. :ancel Apply		

Figure 3-79

3.10.1.4 Video diagnosis

From main menu->Setting->Video detect->Video diagnosis, you can see the interface is shown as in Figure 3-78. This function allows you to be informed when video is blurry, over exposure or color cast occurs. You can enable alarm output channel and then enable show message function. You can refer to chapter 3.10.1.1Motion detect for detailed information.

SETTING						
R CAMERA		ing Event	STORAGE	SETTING		
VIDEO DETECT FACE DETECT AUDIO DETECT ALARM ABNORMALITY ALARM OUT		deo Loss Tamper	ing Video Diagnose)sec.)sec.		
	Default		ОК	Cancel Apply		

Figure 3-80

3.10.2 Face Detect

When camera detects human face, system can generate an alarm.

From main menu->Setting->Event->Face detect, the interface is shown as in Figure 3-81.

- Human face ROI: Check the box here, system can enhance the human face display pane.
- Sensitivity: System supports 6 levels. The sixth level has the highest sensitivity.

You can refer to the chapter 3.10.1.1 to set other parameters.

SETTING						
	T NETWORK	🔂 EVENT	STORAGE	SETTING		
VIDEO DETECT FACE DETECT AUDIO DETECT ALARM	Channel Enable Human Face ROI	(1 • • • • • • • • • • • • • • • • • • •				
ABNORMALITY ALARM OUT	Period ✔Alarm Out ✔Record Channe	Set 1 2 3 4 Alarm Upload	Latch (1 Send Email	_)sec.		
	 PTZ Activation Tour Snapshot ✓Log Buzzer 	Set 1 2 1 2	Delay (10	_)sec.		
	Default		ОК	Cancel Apply		

Figure 3-81

3.10.3 Audio Detect

System can generate an alarm once it detect the audio input is abnormal or audio volume changes. From main menu->Setting->Event->Audio detect, you can see an interface shown as in Figure 3-82.

- Input abnormal: Check the box here, system can generate an alarm once the audio input is abnormal.
- Intensity change: Check the box here, system can generate an alarm once the audio volume becomes strong.
- Sensitivity: It refers to the audio recognition sensitivity. The higher the value is, the higher the sensitivity is.
- Threshold: It is to set intensity change threshold. The smaller the value is, the higher the sensitivity is.

You can refer to the chapter 3.10.1.1 to set other parameters.

		SETTING		
🥰 CAMERA		ing Event	STORAGE	SETTING
VIDEO DETECT FACE DETECT ALARM ABNORMALITY ALARM OUT	Channel Input Abnormal Sensitivity Threshold Period Alarm Out PTZ Activation Tour Snapshot Clog Buzzer	Set Alarm Upload	50 (1 - 100) 50 (1 - 100) Latch 10 Send Email Delay 10)sec.)sec. Cancel Apply

Figure 3-82

3.10.4 Alarm output

From Main menu->Setting->Event->Alarm output, you can see an interface shown as in Figure 3-83. 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		
S CAMERA		📷 EVENT		SETTING
VIDEO DETECT FACE DETECT AUDIO DETECT ALARM	Alarm Out Auto Manual Stop	Ali 1 2 3 4 0 • • • • • 0 0 0 0 0 0 0 0 0 0		
ABNORMALITY ALARM OUT	Status			
	Alarm Release	OK	OK	Cancel Apply

Figure 3-83

Please highlight icon 📕 to select the corresponding alarm output.

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

3.10.5 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 3-84. There are four alarm types. See Figure 3-84 to Figure 3-87.

- ♦ 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 3-89. 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 3-89, 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 3-89. Click button after one date or a holiday, you can see an interface shown as in Figure 3-90. 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 3-88.
- 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 an 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 chapter3.5.4.1 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		
ST CAMERA		Devent	STORAGE	SETTING
VIDEO DETECT FACE DETECT	Local	Net IPC Ext	t IPC Offline	
AUDIO DETECT	Alarm In	1		
ALARM	Enable		Type (NO 🔻	
ABNORMALITY	Alarm Alias			
ALARM OUT				<u> </u>
	Period	Set	Anti-dither (5	sec.
	Alarm Out	1234	Latch (10)sec.
	Show Message	Alarm Upload	Send Email	
	Record Channel	12		
	PTZ Activation	Set	Delay (10)sec.
	✓Tour	12		
	Snapshot	12		
	✓Log			
	Buzzer			
	Default	Сору	ОК С	Cancel Apply

Figure 3-84

SETTING						
STAMERA	T NETWORK	D EVENT	STORAGE	SETTING		
VIDEO DETECT FACE DETECT	Local	Net IPC Ex	t IPC Offline			
AUDIO DETECT	Alarm In					
ALARM	Enable					
ABNORMALITY ALARM OUT	Alarm Alias					
	Period	Set				
	Alarm Out	1234	Latch (10	sec.		
	Show Message	Alarm Upload	Send Email			
	Record Channel	12				
	PTZ Activation	Set	Delay (10	Sec.		
	Tour	12				
	Snapshot	12				
	Buzzer					
	Default	Сору	ОК	Cancel Apply		

Figure 3-85

SETTING						
STANERA	TWORK	📷 EVENT	STORAGE	SETTING		
VIDEO DETECT FACE DETECT	Local	Net IPC Ex	IPC Offline			
AUDIO DETECT	Channel		-			
ALARM ABNORMALITY	Enable		Type (NO 🔻			
ALARM OUT	Period	Set	Anti-dither (5)sec.		
	Alarm Out	1234	Latch (10	sec.		
		Alarm Upload	Send Email			
	Record Channel	1 2 Set	Delay (10)sec.		
	Snapshot	12				
	└ Cog │					
	Default	Сору	ОК	Cancel Apply		

Figure 3-86

	_	SETTING		
STAMERA		📷 EVENT	STORAGE	SETTING
VIDEO DETECT FACE DETECT AUDIO DETECT ALARM ABNORMALITY	Local Channel Enable	Net IPC Ex	d IPC Offline	
ALARM OUT	Alarm Out Show Message Record Channel PTZ Activation	Set) Latch (10 Send Email Delay (10)sec.
	Snapshot Log Buzzer Default	Copy	ОК (Cancel Apply

Figure 3-87

_		PTZ Activation	_	
Channel 1	(None 🔻 🕐 🛈	Channel 2	(None	
Channel 3	None 🔻 O	Channel 4	(None	
Channel 5	(None 🔻 O	Channel 6	(None)
Channel 7	None 🔽 🛛	Channel 8	(None	
Channel 9	None 🔽 🛛	Channel 10	(None	
Channel 11	None 🔽 0	Channel 12	(None	
Channel 13	None 🔻 O	Channel 14	(None	
Channel 15	None 🗸 🕐	Channel 16	(None)
Channel 17	None 💎 🛈	Channel 18	(None	
Channel 19	None 🔻 O	Channel 20	(None	
Channel 21	None 🔻 O	Channel 22	(None 🔻	
Channel 23	None 🔻 O	Channel 24	(None 🔻	
Channel 25	None 🗸 🕐	Channel 26	(None	
Channel 27	None 🔻 O	Channel 28	(None	
Channel 29	None 🔻 O	Channel 30	(None 🔻	
Channel 31	None 🔻 O	Channel 32	(None 🔻	
			ОК	Cancel

Figure 3-88



Figure 3-89

	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 3-90

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

3.10.6 Abnormality

There are three types: Disk/Network/power fault.

- ♦ Disk: Disk error, no disk, no space. See Figure 3-91.
- ♦ Network: Disconnection, IP conflict, MAC conflict. See Figure 3-92.
- Power fault. The interface is shown as in Figure 3-93. This function is for power-redundancy series product. When this function is on, you can remove one power sourcing from the system, it does not affect the normal operation of the device, but system will generate an alarm to alert you.
- 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 an 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 an alarm occurs.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when an alarm occurs.

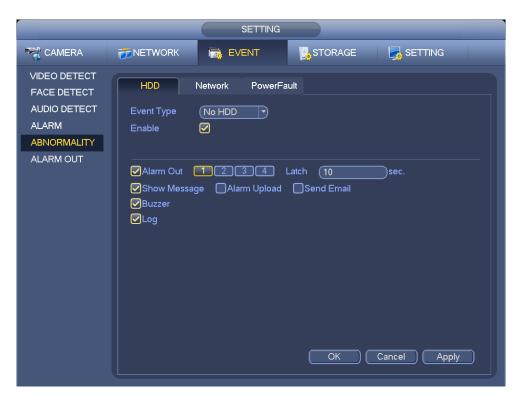


Figure 3-91

		SETTING		
😋 CAMERA		EVENT	STORAGE	SETTING
VIDEO DETECT FACE DETECT AUDIO DETECT ALARM ABNORMALITY ALARM OUT	HDD Event Type Enable Malarm Out Show Messa Buzzer MLog	Network PowerF	ault Latch (<u>10</u> Send Email	sec.
			OK	Cancel Apply

Figure 3-92

			SETTING		
😋 CAMERA		🔂 EV	ENT		SETTING
VIDEO DETECT FACE DETECT	HDD	Network	PowerFa	ult	
AUDIO DETECT ALARM	Enable				
ABNORMALITY					
ALARM OUT	Alarm Out				sec.
	Show Mess	age		Send Email	
				ОК (Cancel Apply

Figure 3-93

3.11 Network

3.11.1 TCP/IP

From main menu->Setting->Network->TCP/IP, the interface is shown as in Figure 3-94.

- IP Version: There are two options: IPv4 and IPv6. Right now, system supports these two IP address format and you can access via them.
- Preferred DNS server: DNS server IP address.
- Alternate DNS server: DNS server alternate address.
- Default card: It is to set default network card.
- LAN download: System can process the downloaded data first if you enable this function. The download speed is 1.5X or 2.0X of the normal speed.

Important

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

	_	SETTIN	G	_		_
SAMERA		📆 EVENT	STOP	RAGE [n Setti	NG
CAMERA TCP/IP CONNECTION PPPoE DDNS UPnP IP FILTER EMAIL FTP SNMP MULTICAST ALARM CENTER REGISTER CLUSTER IP	Ethernet Card Network Card1 Network Card2 Network Card3 Network Card4 Fiber Card5 Fiber Card5 Fiber Card6	IP Address 172.11.3.8 192.168.1.106 192.168.1.105 192.168.1.104 192.168.1.103 192.168.1.102 1.3.8 De 1.3.8 De	Net Mode Single NIC Single NIC Single NIC Single NIC Single NIC	NIC Member 1 2 3 4 5 6	Edit	Unbond
	Alternate DNS	8 . 8 . 4 . twork Card1 🔽		ОК (Cancel	N Download

Figure 3-94

Click Edit button, you can go to the following interface. See Figure 3-95.

- Network mode:
 - Single NIC: eth1/eth2/ eth3/eth4 operate separately. You can use the services such as HTTP, RTP service via eth1/eth2/ eth3/eth4. Usually you need to set one default card (default setup is eth1) to request the auto network service from 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.
 - ♦ Load balance: In this mode, device uses bond0 to communicate with the external device. The eth1/eth2/ eth3/eth4 are working now and bearing the network load. Their network load are general the same. The system is shown as offline once all cards are offline.
 - ♦ Note: Different series products have different Ethernet port amount.
- NIC member: You can check the box here to select the bind cards.
 - ♦ This mode is for fault-tolerance or load balance mode only.
 - \diamond The network cards number shall be equal to or more than 2.
 - ♦ The different types of cards such as fiber card or the Ethernet card can not binding together.
- 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 DVR 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. Right now, the value here is for read-only.

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.

After completing all the setups please click OK button.

Tips

Click button K to cancel card binding.

	Edit
Ethernet Car Net Mode NIC Member	O Single NIC ● Fault-tolerance O Load Balance
IP Version MAC Address IP Address Subnet Mask Default Gatev	(172 · 11 · 3 · 8) DHCP k (255 · 255 · 0 · 0)
ΜΤυ	(1500 OK Cancel

Figure 3-95

3.11.1.1 Connection

The connection setup interface is shown as in Figure 3-96.

- 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.

SETTING					
S CAMERA		T EVENT	STORAGE	SETTING	
TCP/IP CONNECTION PPPoE DDNS UPnP IP FILTER EMAIL FTP SNMP MULTICAST ALARM CENTER REGISTER CLUSTER IP	Max Connection TCP Port UDP Port HTTP Port HTTPS Port RTSP Port	(37777) ((37778) ((80) ((443) (0~128) 1025~65535) 1025~65535) 1~65535) 1~65535) 1~65535)		
	Default		ОК	Cancel Apply	

Figure 3-96

3.11.1.2 PPPoE

PPPoE interface is shown as in Figure 3-97.

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.

		SETTING		
		To Event	STORAGE	setting
TCP/IP CONNECTION	🗹 Enable			
PPPoE	User Name (
DDNS	Password (5	
UPnP	IP Address	0.0.0.0	5	
IP FILTER	Č	0.0.0.0	5	
EMAIL				
FTP				
SNMP				
MULTICAST				
ALARM CENTER				
REGISTER				
CLUSTER IP				
	Default		ОК	Cancel Apply

Figure 3-97

3.11.1.3 DDNS Setup

DDNS setup interface is shown as in Figure 3-98.

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.

		SETTING		
SAMERA		To EVENT	STORAGE	SETTING
TCP/IP CONNECTION	Enable			
PPPoE	DDNS Type (Quick DDNS		
DDNS	Host IP	www.quickddns.com		
UPnP	Domain Mode	● Default Domain 〇	Custom Domain Name	
IP FILTER	Domain Name(9002A98DDE1F	.quickddns.com	
EMAIL	User (Please input an	email address.
FTP				
SNMP				
MULTICAST	Note: System wi	Il reclaim the domain th	at is idle for more than o	one year. You can get a
ALARM CENTER	notification emai	l one month before the	reclaim if your email ad	dress setup is right.
REGISTER				
CLUSTER IP				
	Default	Test	ОК	Cancel Apply

Figure 3-98

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.

3.11.1.4 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 3-94. See Figure 3-99.

- 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 3-100.

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.

	SETTING		
🥰 CAMERA		STORAGE	SETTING
TCP/IP CONNECTION PPPoE	Enable Status Disable		
DDNS UPnP IP FILTER	LAN IP 0 . 0 . 0 . 0 WAN IP 0 . 0 . 0 . 0 Port Mapping List_		
EMAIL FTP SNMP MULTICAST ALARM CENTER REGISTER CLUSTER IP	6 ✓ Service Name Protocol 1 ✓ HTTP TCP 2 ✓ TCP TCP 3 ✓ UDP UDP 4 ✓ RTSP TCP 5 ✓ SNMP UDP 6 ✓ HTTPS TCP	Internal Port 80 37777 37778 554 161 443	External Port 80 37777 37778 554 161 443
	Add Del Default	(OK	Cancel Apply

Figure 3-99

	PORT INFO
Service Name Protocol Internal Port External Port	HTTP TCP * 80 80
	OK Cancel

Figure 3-100

3.11.1.5 IP Filter

IP filter interface is shown as in Figure 3-101. 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 3-102. 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.

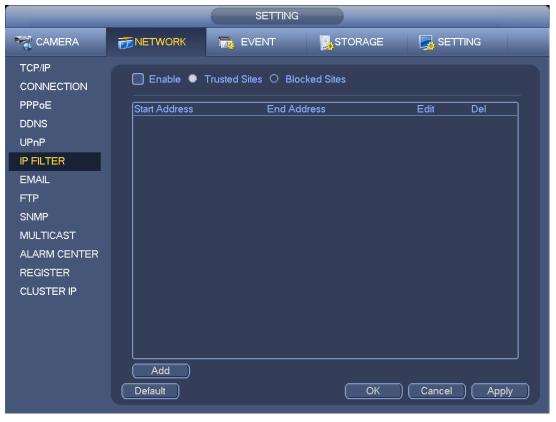


Figure 3-101

Edit
Start Address 10.15.6.140 123 End Address 10.15.6.145
OK Cancel

Figure 3-102

3.11.1.6 Email

The email interface is shown as below. See Figure 3-103.

- 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.

SETTING					
🥰 CAMERA		To EVENT	STORAGE	SETTING	
TCP/IP CONNECTION	🖌 Enable				
PPPoE DDNS	SMTP Server	(MailServer F	Port (25	(1~65535)	
UPnP IP FILTER	User	F	Password		
EMAIL	Receiver Sender				
SNMP	Subject Encrypt Type		Attachment		
MULTICAST ALARM CENTER	Interval	(5se			
REGISTER CLUSTER IP	Health Enable	(60)m	in.		
	Default		OK	Cancel Apply	

Figure 3-103

3.11.1.7 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 3-104.

File Edit User View Window Help
🗎 🗙 📴 🕫 % 🖻 🛍 🛷 🍙 ?
× Serv-U Servers Settings Activity Domains Activity Settings
<< Local Server >> [System Administrator] Down: 0.000 k8ps / Up: 0.000 k8ps 3 of 32767 Sockets 0 (0) Users 0 Xfers

Figure 3-104

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 3-105.

terne	et Explorer	
? >	• To log on to this FTP server, type a user name and pas	sword.
×	FTP server: 10.10.7.7	
	User name:	
	Password:	
	After you log on, you can add this server to your Favo	rites and return to it easily.
	Log on anonymously	
	Lo	g On Cancel

Figure 3-105

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 3-106.

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.

SETTING					
🥰 CAMERA	TRANSPORT STORAGE SETTING				
TCP/IP CONNECTION PPPoE DDNS UPnP	 ✓ Enable Host IP 0 · 0 · 0 · 0 Port (21) (1^{~65535}) User Password Anonymous 				
IP FILTER EMAIL FTP	Remote Directory File Length (0 M Image Upload Interval (2 sec.				
SNMP MULTICAST ALARM CENTER REGISTER CLUSTER IP	Channel 1 Weekday Fri Alarm Motion Regular Time Period 1 00 :00 - 24 : 00 0 0 0 0 Time Period 2 00 :00 - 24 : 00 0 0 0 0 Test				
	Default OK Cancel Apply				

Figure 3-106

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 3-107.

		SETTING	
🥰 CAMERA		📷 EVENT 📴 STORAGE 🛃 SETTING	
TCP/IP CONNECTION	Enable		
PPPoE	Version	✓ V1 ✓ V2	
DDNS	SNMP Port	(161) (1~65535)	
UPnP	Read Community	ty (public	
IP FILTER	Write Community	ly (private	
EMAIL	Trap Address	(192.168.0.1	
FTP	Trap Port	(162) (1~65535)	
SNMP			
MULTICAST			
ALARM CENTER			
REGISTER			
CLUSTER IP			
	Default	OK Cancel Apply	

Figure 3-107

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 3-107, 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.

3.11.1.9 Multicast

Multicast setup interface is shown as in Figure 3-108.

		SETTING		
		T EVENT	STORAGE	SETTING
TCP/IP CONNECTION PPPoE DDNS UPnP IP FILTER EMAIL FTP SNMP MULTICAST ALARM CENTER REGISTER CLUSTER IP	Enable	· 255 · 42 · 42		
	Default		ОК	Cancel Apply

Figure 3-108

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.

3.11.1.10 Alarm Centre

		SETTING		
		To EVENT	STORAGE	SETTING
TCP/IP CONNECTION PPPoE DDNS UPnP IP FILTER EMAIL FTP SNMP MULTICAST ALARM CENTER REGISTER CLUSTER IP		10 · 1 · 0 · 1 (1~6		
	Default		ОК	Cancel Apply

This interface is reserved for you to develop. See Figure 3-109.

Figure 3-109

3.11.1.11 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 3-110.

Important

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

		SETTING		
ST CAMERA		T EVENT	STORAGE	SETTING
TCP/IP CONNECTION	Enable			
PPPoE DDNS UPnP IP FILTER EMAIL FTP		0.0.0.0 8000 (1~68	535)	
SNMP MULTICAST ALARM CENTER REGISTER CLUSTER IP				
	Default		ОК	Cancel Apply

Figure 3-110

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 3-110. 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.

3.11.1.12 Cluster IP

About Cluster service: when master device is malfunction, the slave device can use the master device configuration and virtual IP address to replace the work (monitor or record) accordingly. When you use the virtual IP to access the device, he can still view the real-time video and there is no risk of record loss. Once the master device becomes properly, the slave can still work until you use the WEB to fix manually. During the whole process (the master device is working properly->master device is malfunction->master device becomes work properly again), you can use this virtual IP to access the device all the time.

It is for you to set IP address, subnet mask, gateway and etc of the Switch. See Figure 3-111.

Please check the box to enable this function and then input corresponding IP address, subnet mask, default gateway. Click OK button to complete the setup. The virtual IP here is for the master device.

Note

The IP in the TCP/IP interface is for cluster internal control (It is mainly for the mater device and slave device internal interactive). The virtual IP you set here is for cluster external control (It is for external network connection).

SETTING					
SAMERA		Ta EVENT	STORAGE	SETTING	
TCP/IP CONNECTION	Enable				
PPPoE DDNS	IP Address Subnet Mask	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0		
UPnP IP FILTER EMAIL	Default Gateway	0.0.0.	0		
FTP SNMP					
MULTICAST ALARM CENTER					
REGISTER CLUSTER IP					
	Default		ОК	Cancel Apply	

Figure 3-111

3.11.2 Network Test

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

3.11.2.1 Network Test

From main menu->Info-Network->Test, the network test interface is shown as in Figure 3-112.

- 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 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 (Test Test Result	
	Network Sniffer Packet Backup Device Name (sdc1(USB DISK)) Refresh Address (/ Browse)	
	Name IP Sniffer Packet Size Sniffer Packet Backup LAN1 10.15.6.143 0KB Image: Comparison of the second sec	

Figure 3-112

3.11.2.2 Network Load

From main menu->Info-Network->Load, network load is shown as in Figure 3-113. 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 3-113

3.12 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.

3.12.1 Format

a) From Main menu->Setting->Storage->HDD Manager, you can go to HDD management interface. See Figure 3-114.

		-	SETTING				-	_
STAMERA	T	NETWORK	D EVENT	STORA	(GE	SETTIN		
SCHEDULE								
HDD MANAGER		Name	Physical Position	Туре	HDD G	iroup	Status	Free S
		sda	main board-1	Read/W 🝷			Normal	1.8
RECORD		sdd	main board-5	Read/W -	1		Normal	930.4
ADVANCE		sde	main board-6	Read/W -			Normal	1.8
RAID		sdc	main board-10	Read/W ×			Normal	930.4
ISCSI								
			N					
			Ł					
		•						•
		Format		OK		Cano		(pply)
						Carro		

Figure 3-114

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.

3.12.2 HDD Information

From Main menu->Info ->System->HDD, here is to list hard disk type, total space, free space, and status. See Figure 3-115.

 \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.

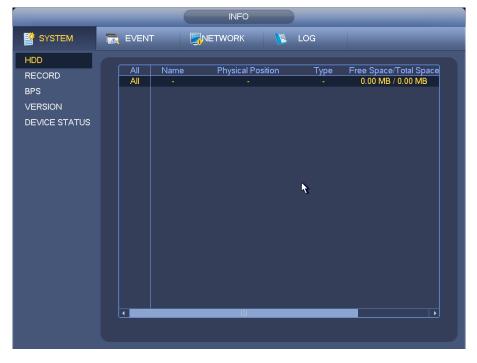


Figure 3-115

In Figure 3-115, click one HDD item, the S.M.A.R.T interface is shown as in Figure 3-116.

Port	5					
Modle	ST2000VX000-1CU164					
Serial No.	. W1E54HJW					
Status	Error					
Describe:						
Smart ID	Attribute	Threshol	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	OK	
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	OK	
L_102	Lead/Unlead Custo Course	^	100	100		

Figure 3-116

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,

3.12.3 Advanced

From Main menu->Setting->Storage->Advanced, It is to set HDD group, and HDD group setup for main stream, sub stream and snapshot operation

Click main stream/sub stream/snapshot button to set corresponding HDD group information. See Figure 3-117 through Figure 3-119.

			SETTING			
	👘 NE	TWORK 📆	EVENT	STORAGE	SETTING	
SCHEDULE HDD MANAGER RECORD ADVANCE		Stream Sub Strea	im Snapshot			
RAID	Сн	HDD Group CH	HDD Group CH	HDD Group CH	HDD Group	
ISCSI SETTING	1 5 9 13 17 21 25	 2 6 10 14 18 22 26 	 3 7 11 15 19 23 27 	• • 4 • • 8 • • 12 • • 16 • • 20 • • 24 • • 28		
	29	- 30	 31 1/ 		Cancel Apply)

Figure 3-117

			SETTING			
SAMERA	📷 NE	TWORK 📆	EVENT	STORAGE	SETTING	
SCHEDULE HDD MANAGER RECORD ADVANCE		Stream Sub Strea	m Snapshot			
RAID	сн	HDD Group CH	HDD Group CH	HDD Group CH	HDD Group	
ISCSI SETTING		- 2	- 3	- • 4	· •	
		- 7 6	- 7	- 78	· •	
		- 🕤 10	· · 11	· · · 12	· •	
	13	- 7 14	- 🕝 15	· · · 16	· •	
	17	- 🔽 18	- 🔻 19	· · · 20	· •	
	21	- 💎 22	- 💎 23	· · · 24	· •	
	25	- 💎 26	- 💎 27	- 🖓 28	· · ·	
	29	- 💎 30	- 💎 31	- 🕤 32	· · ·	
			◀ 1/		Cancel Apply	

Figure 3-118

	SETTING
R CAMERA	
SCHEDULE HDD MANAGER RECORD	Main Stream Sub Stream Snapshot Set All • • All
ADVANCE	CH HDD Group CH HDD Group CH HDD Group CH HDD Group
ISCSI SETTING	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	1/8 OK Cancel

Figure 3-119

3.12.4 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.

3.12.4.1 RAID Config

From Main menu->Setting->Storage->RAID->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 3-120.

	SETTING
SAMERA	
SCHEDULE HDD MANAGER	RAID RAID Info Hotspare Disk
RECORD	Location (Host Type (RAID5 HDD Number(3~16)
ADVANCE	0 Name Capacity Type Member HDD
RAID	
	Create Manually) (Create RAID)

Figure 3-120

3.12.4.2 RAID Info

From Main menu->Setting->Storage->RAID->RAID info, it is to display RAID name, space, type, member HDD, hotspare HDD, status and etc. Here you can delete RAID. See Figure 3-121.

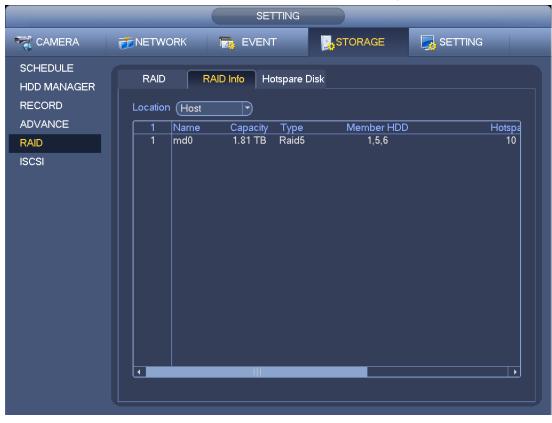


Figure 3-121

3.12.4.3 Hotspare disks

From Main menu->Setting->Storage->RAID->Hotspare HDD, you can add the hotspare HDD. See Figure 3-122. 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	
ST CAMERA			RAGE SETTING
SCHEDULE HDD MANAGER RECORD	RAID RAI	D Info Hotspare Disk	
ADVANCE	1 Name	Capacity Type	RAID Name Edit Delete
RAID	1 10	930.51 GB Global Hotspare	· · O
ISCSI			

Figure 3-122

3.13 Basic Setups

Set NVR basic setup, device setup and other setups.

3.13.1 Device Setup

From Main menu->Setting->System->General->General, you can go to the general interface. See Figure 3-123.

- 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
CAMERA	🐲 NETWORK 📷 EVENT STORAGE 🌄 SETTING
GENERAL DISPLAY PTZ ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	Storage General Date&Time Holiday Device Name NVR Device Name NVR Device No. 8 Language ENGLISH Video Standard PAL HDD Full Overwrite Pack Duration 60 min. Auto Logout 10 min. IPC Time Sync 24 h Navigation Bar Startup Wizard Mouse Sensitivity Slow
	Default OK Cancel Apply

Figure 3-123

3.13.2 Data and Time

From Main menu->Setting->System->General->Date and time, you can go to the general interface. See Figure 3-124.

- System time: Here is for you to set system time
- Date format: There are three types: YYYY-MM-DD: MM-DD-YYYYY or DD-MM-YYYY.
- Date separator: There are three denotations to separate date: dot, beeline and solidus.
- DST: Here you can set DST time and date 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.

	SETTING
CAMERA	TRACE TING
GENERAL DISPLAY PTZ ACCOUNT AUTO MAINTAIN IMP/EXP	General Date&Time Holiday Date Format YYYY MM DC • Time Format 24-HOUR • Date Separator • System Time 2014 • 06 • 20 17 : 12 : 19 GMT+08:00 • Save
DEFAULT UPGRADE	□ DST DST Type ○ Week ● Date Start Time ① 2000 · 01 · 01 00 : 00 End Time ② 2000 · 01 · 01 00 : 00
	NTP Server time.windows.com Port 123 (1~65535) Interval
	Default OK Cancel Apply

Figure 3-124

3.13.3 Holiday

From Main menu->Setting->System->General->Holiday, holiday setup interface is shown as in Figure 3-125. Click Add new holiday button, you can input new holiday information. See Figure 3-126. Here you can set holiday name, repeat mode and start/end time.

	SETTING	
CAMERA		
GENERAL DISPLAY	General Date&Time Holiday	
PTZ ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	0 Status Holiday Name Date	
	Add Holidays Default OK Cancel Apply	

Figure 3-125

Add New Holidays	
Add New Holidays Holiday Name Repeat Mode Once Only All-Year Holiday Range Date OWeek Start Time 2013 - 10 - 18 End Time 2013 - 10 - 18	
Add More	
	Add Cancel

Figure 3-126

3.14 Device Maintenance and Manager

3.14.1 System Info

3.14.1.1 Version

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

Here is for you to view some version information. See Figure 3-127. Please note the following figure for reference only.

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

	INFO
SYSTEM	ଲ EVENT 🔄 NETWORK 隊 LOG
HDD RECORD BPS VERSION DEVICE STATUS	Device Model NVR Record Channel 256 Alarm In 4 Alarm Out 4 System Version 3.210.0000.0 Build Date 2014-06-13 Web 3.2.0.0 SN YPE3JQ069D00041

Figure 3-127

3.14.1.2 BPS

From main menu->Info->System->BPS, here is for you to view current video bit rate (kb/s) and resolution. See Figure 3-128.



Figure 3-128

3.14.1.3 Device Status

From main menu->Info->System->Device status, here is for you to view device current status. See Figure 3-130. The red highlighted fan means current fan is malfunction.

	INFO
SYSTEM	ଲ EVENT 🖳 NETWORK 🔉 LOG
HDD	
RECORD	Fan Speed
BPS	 0 2903 2890
DEVICE STATUS	
VERSION	
	CPU CPU Temperature Memory
	Normal
	Normal
	42
	13% 29%
	Power 🧲

Figure 3-129

3.14.1.4 Online User

From main menu->Info->System->Online user, here is for you manage online users connected to your NVR. See Figure 3-130.

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	Username IP Address	User Login Time Block For
TEST	admin 10.15.6.141	2013-11-8 11:40:8
	Block Time (60) s	

Figure 3-130

3.14.1.5 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 3-131.

_	INFO
SYSTEM	EVENT NETWORK 🐚 LOG
EVENT	
	Device Status Device(NIC No.:4,HDD No.:0)
	No HDD No HDD
	IP Conflict
	Net Disconnect Net Disconnect
	Channel Status Channel(CH:256,External Alarm:4)

Figure 3-131

3.14.1.6 Remote

3.14.1.6.1 Device Status

From main menu->Setting->Remote->Status, here you can view the IPC status of the corresponding channel such as motion detect, video loss, tampering, alarm and etc. See Figure 3-132.

•	IPC status:	Eront-end supports.	: There is alarm
	event from current front-end.		

- Connection status: Connection succeeded.
- Refresh: Click it to get latest front-end channel status.

	SETTING
	TENETWORK THE EVENT STORAGE SETTING
REMOTE IMAGE	Remote Status Firmware Upgrade
ENCODE CAM NAME	Channel Status IP Address Video Detect IPC External Alarm Camera Nar 1 0.15.6.99 IPC
	Refresh

Figure 3-132

3.14.1.6.2 Firmware

From main menu->Setting->Remote->Firmware, it is to view channel, IP address, manufacturer, type, system version, SN, video input, audio input, external alarm and etc. See Figure 3-133.

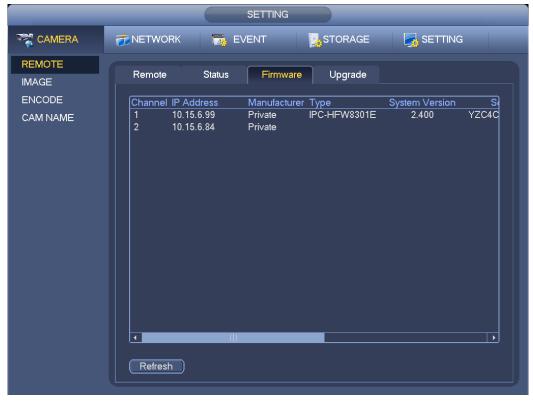


Figure 3-133

3.14.2 Log

From Main menu->Info->Log, you can go to the following interface. See Figure 3-134.

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 save 500,000 logs on the HDD,
and 16384 logs on the system. System max supports 500,000+16384 logs if there is a HDD. System
max supports 16384 logs if there is no HDD. Please use page up/down button on the interface or the
front panel to view more.

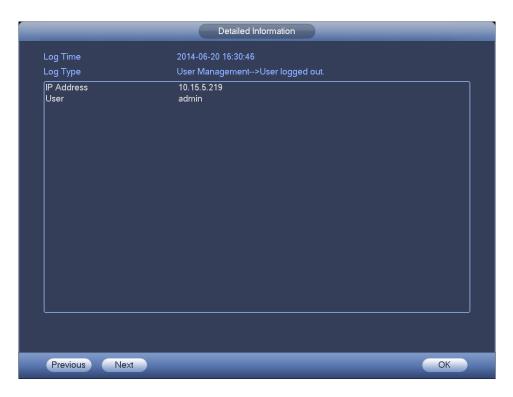
Tips

Double click a log item to view its detailed information. See Figure 3-135.

Click PgUp/PgDn to view more logs.

	INFO
SYSTEM	EVENT PRETWORK K LOG
LOG	Start Time 2014 · 06 · 20 00 · 00 · 00 · 00 End Time 2014 · 06 · 21 00 · 00 · 00 Type Al Search 100 Record Time Event Play Details 87 2014 · 06 · 20 16:30:55 User logged in. <10.15.5.219>

Figure 3-134





3.14.3 Account

From main menu->Setting->System->Account, here is for you to implement account management. See Figure 3-136 and Figure 3-137. 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/888888/666666 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.

			SETTING			
N CAMERA	💏 NETW	ORK	T EVENT	<mark>⊠</mark> _s	TORAGE	E 🛃 SETTING
GENERAL DISPLAY	Modity U	lser Modify	/ Group			
PTZ	4	User	Group Name	Modify	Delete	Memo
ACCOUNT	1	888888	admin	/	×	admin(888888) 's account
	2	666666	user	11	×	666666 user's account
AUTO MAINTAIN	3	admin	admin	1	×	admin 's account
IMP/EXP	4	default	user	1	×	default account
DEFAULT						
UPGRADE						
	4 Add L	lser		_	_	

Figure 3-136

SETTING						
CAMERA						
GENERAL DISPLAY	Modify User Modify Group					
PTZ ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	2 Group Nam Modify Delete Memo 1 admin × administrator group 2 user × user group 2 user × user group					



3.14.3.1 Add/Modify Group

Click add group button, the interface is shown as below. See Figure 3-138.

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 3-138.

Add Group					
Group Name C					
Authority System Playback	Monitor				
AII ACCOUNT PTZ STORAGE CLAER LOG	SYSTEM INFO EVENT SHUTDOWN	 DISCONNECT USER DEFAULT&UPGRADE MANUAL CONTROL BACKUP Network Setup CAMERA 			
Save Cancel					

Figure 3-138

3.14.3.2 Add/Modify User

Click add user button, the interface is shown as in Figure 3-139.

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 3-139.

Add User						
User Password Memo Group admin		Reusable				
Authority System Playback	Monitor					
 ✓ ACCOUNT ✓ PTZ ✓ STORAGE ✓ CLAER LOG 	 ✓ SYSTEM ✓ INFO ✓ EVENT ✓ SHUTDOWN 	 DISCONNECT USER DEFAULT&UPGRADE MANUAL CONTROL BACKUP Network Setup CAMERA 				
Save Cancel						

Figure 3-139

3.14.4 Update

From Mani menu->Setting->Info->Update, you can go to the following interface. See Figure 3-140.

- 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.

		SETTING			
N CAMERA	7 NETWORK	THE EVENT	STORAGE	SETTING	
GENERAL DISPLAY PTZ ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE		B device and then click hen begin upgrade ope			elect

Figure 3-140

3.14.5 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 3-141.

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!

		SETTIN	G	
SAMERA		TO EVENT	STORAGE	SETTING
GENERAL DISPLAY	Default			
PTZ ACCOUNT AUTO MAINTAIN	AII CAMERA NETWORK	9 9		
IMP/EXP DEFAULT	EVENT STORAGE SYSTEM	9 9 9		
UPGRADE				
			ОК	Cancel Apply

Figure 3-141

3.14.6 Auto Maintain

From Main menu->Setting->System->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 3-142.

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	TINETWORK 📷 EVENT STORAGE SETTING	
GENERAL DISPLAY PTZ ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	Auto Reboot Tuesday at 02:00 • Auto Delete Old Files Customized • 31 Days Ago	
	OK Cancel Apply	

3.14.7 Logout /Shutdown/Restart

From Main menu->Operation->Shutdown, you can see an interface shown as in Figure 3-143.

- 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 3-143

4 Web Operation

4.1 General Introduction

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

4.1.1 Preparation

Before log in, please make sure:

- PC and NVR connection is OK.
- You have set PC IP address, NVR IP address, subnet mask and gateway. (Please set the IP address of the same section for the PC and NVR. Please input corresponding gateway and subnet mask if there are routers.) This series product max supports 4 network adapters. The default setup is eth1:192.168.1.108, eth2: 192.168.1.106, eth3:192.168.1.105 and eth4:192.168.1.104.
- Use order ping ***.***.***(NVR IP address) to check connection is OK or not.

4.1.2 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 4-1.

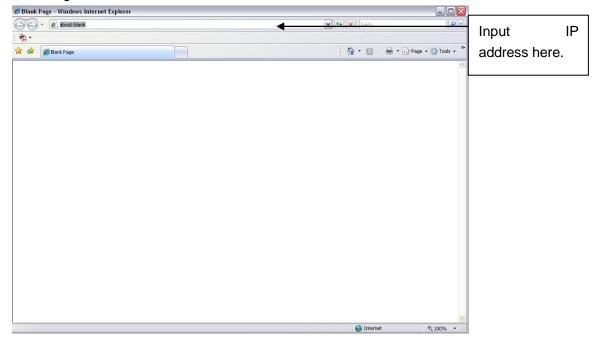


Figure 4-1

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

If you can't download the ActiveX file, please modify your settings as follows. See Figure 4-2.

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 This zone is for Internet websites, except those listed in trusted and restricted zones.	Download unsigned ActiveX controls (not secure) Disable (recommended) Enable (not secure) Prompt
Security level for this zone Allowed levels for this zone: Medium to High	 Initialize and script ActiveX controls not marked as safe for so Disable (recommended) Enable (not secure) Prompt
Prompts before downloading potentially unsafe content Unsigned ActiveX controls will not be downloaded	Run ActiveX controls and plug-ins dministrator approved Takes effect after you restart Internet Explorer
Custom level Default level Reset all zones to default level	Reset custom settings Reset to: Medium-high (default)
OK Cancel Apply	OK Cancel

Figure 4-2

After installation, the interface is shown as below. See Figure 4-3.

 WEB SER		
User Name : Password :		
Type:	⊙ LAN ○ WAN	
_	Login Cancel	

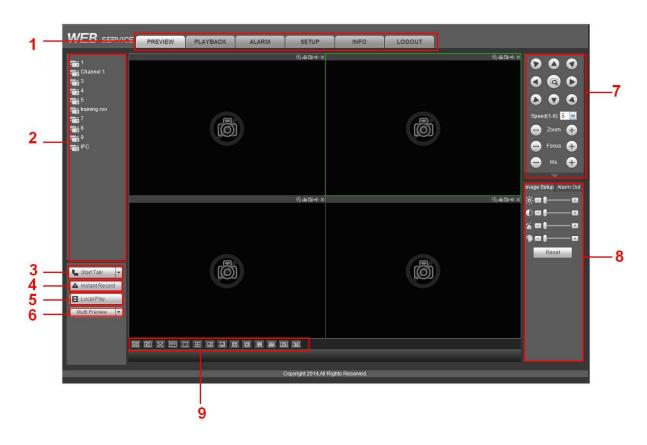
Figure 4-3

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.

4.2 LAN Mode

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





This main window can be divided into the following sections.

- Section 1: there are six function buttons: Live (chapter 4.3), setup (chapter 4.8), info (Chapter 4.9), playback (chapter 4.10), alarm (chapter 4.11), and logout (chapter 4.12).
- Section 2: There are monitor channels successfully connected to the NVR.

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

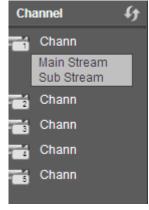


Figure 4-5

• Section 3: 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 4-6.

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.

Start Talk 👻			
	DEFAULT		
1	G711a		
_	G711u		
	PCM		
	india i ronon		

Figure 4-6

• Section 4: Instant record button. Click it, the button becomes yellow and system begins manual record. See Figure 4-7. Click it again, system restores previous record mode.



Figure 4-7

• Section 5: 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 4-8.

Open			? 🗙
Look in: 🚺 Desktop		* 📾 🗕 💽	.
My Documents My Computer My Computer My Network Places Access IBM AOL Double-Click to BearthLink Internet 3	Start	orton AntiVirus hinkVantage Technologies Vireless Manager 008_04_08 CF09042008_00000	Zn10C
File name:			>
- 1	files (*.*)		<u>O</u> pen Cancel

Figure 4-8

- Section 6: Zero-channel encoding. Please refer to chapter 4.6 for detailed information.
- Section 7: PTZ operation panel. Please refer to chapter 4.4 for detailed information.
- Section 8: Image setup and alarm setup. Please refer to chapter 4.5 for detailed information.
- Section 9: 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.

4.3 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 4-9.

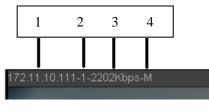


Figure 4-9

On the top right corner, there are six unction buttons. See Figure 4-10.

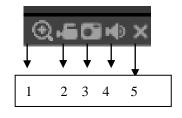


Figure 4-10

- 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.

4.4 PTZ

Before PTZ operation, please make sure you have properly set PTZ protocol.

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.
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.

Parameter	Function
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 the tour.
Pattern	 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.

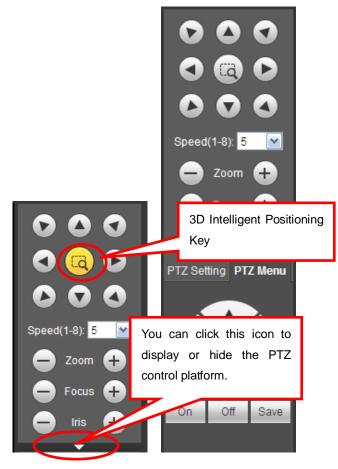


Figure 4-11

Select one monitor channel video and then click Image button in section 9, the interface is shown as Figure 4-12.

4.5.1 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.

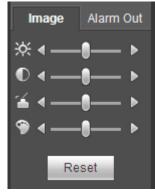


Figure 4-12

4.5.2 Alarm output

Here you can enable or disable the alarm signal of the corresponding port. See Figure 4-13.



Figure 4-13

4.6 Zero-channel Encode

Select a window and then click zero-channel encode button, the interface is shown as below. See Figure 4-14.

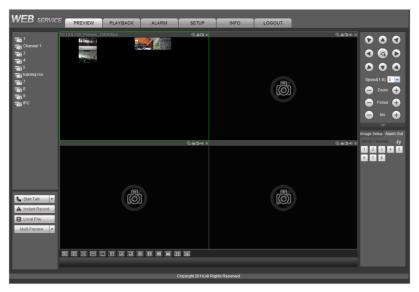
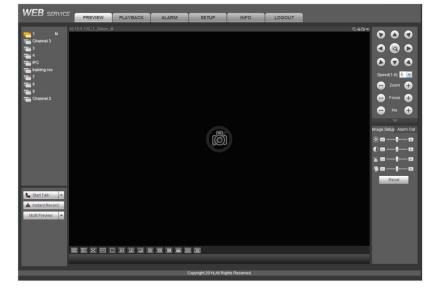


Figure 4-14

4.7 WAN Login



In WAN mode, after you logged in, the interface is shown as below. See Figure 4-15.



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 4-16.

No Video Q.40340 No Video Q.40344 No Video Q.40344 States States Stat	
Chana Image: Chanaa Image	
The Value No Value Question Called	
Chann Image:	
Chann Chann	
Image: Chann Spectral field of the spectra field of the spectra field of the spectral field of the spectra	
No Video Q.45346 No Video Q.45346 No Video Q.45346 No Video Q.45346 No Video	eed(1-8): 5 💌
No Video Q.45340 No Video Q.4534 	-
No Video Queggie No Video Queggie Statistica Scan Statistica Stati	
No Video Qu 6 Giudo Stati	- Focus 🕂
No Video Q.460140 No Video Q.460140 Scan	- Iris 🕂
10 Video Q, ≝⊡ 40 Video Q, ≝⊡ 40 Sta	Setting PTZ Menu
State of the second	n 💌
i set	tart Set
	t Left Set Right
	Alarm Out
	m Channel 👍
	2 3
Instant Record	
Muti Preview	

Figure 4-16

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.

4.8 Setup

4.8.1 Camera

4.8.1.1 Remote Device

4.8.1.1.1 Remote Device

From main window->Setup->Camera->Remote device->Remote device, you can see remote device interface is shown as below. See Figure 4-17.

	Device	Upgra	de								
33		IP Address	Port	C	evice Nan	ne Ma	nufacturer	Туре	MAC	Address	
1		10.15.5.100	80				Onvif				<u>^</u>
2		10.15.23.33	80				Onvif				=
3		10.15.11.49	80				Onvif				L
4		10.15.7.16	80				Onvif				
5		10.15.6.108	80				Onvif				
6		10.15.6.84	8088				Onvif				
7		10.15.5.82	40003	B PZC	2FW4970	0465	Private CP-	UNC-TP10L2C	90:02:a	a9:08:6f:3b	
8		192.168.1.14	6 37777	7 YZC4	4FZ066W0	0008	Private IPC	-HFW2100R-Z	90:02:a	19:0d:20:a0	6
Device S	Search	Add		Modify					Display Filter	None	~
	Channel I			Modify	Port	Device Name	Remote Channel No	Manufacturer	Camera Name	Туре	
			Status IP #		Port 37777	Device Name YZC4BZ014W00 028	Remote Channel No 1	Manufacturer Private			
C	Channel I	Modify Delete	Status IP /	Address		YZC4BZ014W00					_
• C	Channel I 1	Modify Delete :	Status IP / 	Address	37777	YZC4BZ014W00 028 YZC4BZ013W00	1	Private	Camera Name	Туре	_
	Channel I 1 2	Modify Delete :	Status IP A 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10	Address 15.6.52 15.6.191	37777 37777	YZC4BZ014W00 028 YZC4BZ013W00 026 PZB4DN156W00	1	Private Private	Camera Name	Туре	

Figure 4-17

Manual Add			×
Manufacturer	Private 💌]	
IP Address	192.168.0.0		
TCP Port	37777	(1~65535)	
User Name	admin]	
Password	••••	Connect	
Channel No.	1	Setup	
Remote Channel No.	1 💌]	
Channel	11 💌]	
Decode Buffer	280	ms (80~480)	
	OK Cancel		

Figure 4-18

Please refer to the following sheet for log parameter information.

Parameter	Function
Device	Click Device search button, you can view the searched device
search	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.
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.

Parameter	Function
Manual Add	 Click it, the interface is shown as in Figure 4-18. Here you can 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, Dahua 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.

4.8.1.1.2 Upgrade

Important

This function is for online network camera only.

From main window->Setup->Camera->Remote device->Upgrade, you can see an interface is shown as below. See Figure 4-19.

Check the network camera you want to upgrade and then click Browse button to select upgrade file. Click Start upgrade button to begin the process.

lect Firmwar	e File		Br	owse				
vice Upgrad	е						Device Type N	one 💌
	Channel	Status	IP Address	Port	Manufacturer	Туре	Version	Upgrade Status
	1	X	10.15.6.52	37777	Private			
	2	.	10.15.6.191	37777	Private	IP Camera	2.400	
	3		10.15.5.208	37777	Private			
	4		10.15.6.187	37777	Private			
	5	×	10.15.1.65	37777	Private	IP Camera	2.420	
	6	.	10.15.6.84	40002	Private	HCVR	3.200	
	7		10.15.7.125	37777	Private			
	8		10.15.5.68	37777	Private			

Figure 4-19

Tips

You can use filter to select several network cameras at the same time.

4.8.1.2 Image

From main window->Setup->Camera->Image, you can see an interface shown as in Figure 4-20. Here you can view device property information. The setups become valid immediately after you set.

2014-07-03 08:20:54	Channel 2
	Config Files Day
	Auto Iris 💿 Enable 🔿 Disable 🛛 Saturation 🖀 ———————————————————————————————————
	Mirror 🔿 Enable 💿 Disable 🛛 Brightness 🄅 👘 🗍
	Contrast 🛈 ———————————————————————————————————
	Sharpness 🖬 ——————————————————————————————————
	3D Denoise 💿 Enable 🔿 Disable
CALLER DE LE	Flip No Flip
	Light Close
nnel i	Scene Mode Auto
	Day & Light Auto

Figure 4-20

Please refer to the following sheet for detailed information.

Parameter	Function
Channel	Please select a channel from the dropdown list.
Config file	The options includes: day/night/general/switch by period. Once the mode is switch by period, you can set sunset and sunrise time.
3D NR	It is to process multiple-frame (At least two frames). System uses the information between these two frames to realize noise reduction function.
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 le	vel	It is to enhance video effect.				
Color mode		t includes several modes such as standard, color. You can elect corresponding color mode here, you can see hue, orightness, and contrast and etc will adjust accordingly.				
Auto Iris	5	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 Mode	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 vid 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/Nig	ht	It is to set device color and the B/W mode switch. The default				

Se	etup 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.

4.8.1.3 Encode

4.8.1.3.1 Encode

From main window->Setup->Camera->Encode->Encode, the encode interface is shown as below. See Figure 4-21.

Encode	Snapshot	Overlay	Path				
-			-				
Channel	2	-					
Main Stream			Sub Stream				
Code-Stream Type	Regular	~	Video Enable				
Compression	H.264	~	Compression	H.264 💌			
Resolution	1920*1080(1080P)	~	Resolution	704*576(D1) 💌	Kb/S		
Frame Rate(FPS)	30	~	Frame Rate(FPS)	30 💌			
Bit Rate Type	CBR	~	Bit Rate Type	CBR 💌			
Bit Rate	4096	Kb/S	Bit Rate	1024 💌			
Reference Bit Rate	1280-8192Kb/S		Reference Bit Rate 1	192-4096Kb/S			
✓ Audio Enable			🗋 Audio Enable				
Vatermark Enable	✓ Watermark Enable		Watermark String	Watermark String DigitalCCTV			
	Сору	ок	Refresh Defau	ult			

Figure 4-21

Please refer to the following sheet for detailed information.

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.
I 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.
Watermark	This function allows you to verify the video is tampered or not.
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.

4.8.1.3.2Snapshot

From main window->Setup->Camera->Encode->Snapshot, the snapshot interface is shown as in Figure 4-22.

Encode	Snapshot	Overlay	Path
Channel	2	•	
Mode	Timing	×	
Image Size	1080P (1920*1080)	×	
Quality	5	~	
Snapshot Frequenc	V 1 SPL	~	
	ОК	Refresh	



Please refer to the following sheet for detailed information.

Parameter	Function
Mode	 There are two modes: Regular (schedule) and timing (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.						

^{4.8.1.3.3} Video Overlay

From main window->Setup->Camera->Encode->Overlay, the video overlay interface is shown as in Figure 4-23.

	Encode	Snapshot	Ove	erlay		Path			
							Channel	2	•
							Cover-Area		
							Monitor	Setup	
							Channel Display	Setup	
							✓ Time Display	Setup	
Г									
	Сору	ОК	Refresh	Default	t				

Figure 4-23

Please refer to the following sheet for detailed information.

Parameter	Function
Cover-area	Check Preview or Monitor first. Click Setup 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.

4.8.1.3.4Path

From main window->Setup->Camera->Encode->Path, the storage path interface is shown as in Figure 4-24.

Here you can set snap image saved path (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	C:\PictureDownload\		Browse	
Record Path	C:\RecordDownload\		Browse	
	ок	Default		

Figure 4-24

4.8.1.4 Camera Name

From main window->Setup->Camera->Camera name, here you can set channel name. See Figure 4-25.

Camera Na	ime								
Channel 1	1	Channel 2	Channel 1	Channel 3	3	Channel 4	4		
Channel 5	5	Channel 6	training room :	Channel 7	7	Channel 8	8		
Channel 9	9	Channel 10	IPC	Channel 11	11	Channel 12	12		
Channel 13	13	Channel 14	14	Channel 15	15	Channel 16	16		
Channel 17	17	Channel 18	18	Channel 19	19	Channel 20	20		
Channel 21	21	Channel 22	22	Channel 23	23	Channel 24	24		
Channel 25	25	Channel 26	26	Channel 27	27	Channel 28	28		
Channel 29	29	Channel 30	30	Channel 31	31	Channel 32	32		
Channel 33	33	Channel 34	34	Channel 35	35	Channel 36	36		
Channel 37	37	Channel 38	38	Channel 39	39	Channel 40	40		
Channel 41	41	Channel 42	42	Channel 43	43	Channel 44	44		
Channel 45	45	Channel 46	46	Channel 47	47	Channel 48	48		
Channel 49	49	Channel 50	50	Channel 51	51	Channel 52	52		
Channel 53	53	Channel 54	54	Channel 55	55	Channel 56	56		
Channel 57	57	Channel 58	58	Channel 59	59	Channel 60	60		
Channel 61	61	Channel 62	62	Channel 63	63	Channel 64	64		
Channel 65	65	Channel 66	66	Channel 67	67	Channel 68	68		
Channel 69	69	Channel 70	70	Channel 71	71	Channel 72	72		
Channel 73	73	Channel 74	74	Channel 75	75	Channel 76	76		
Channel 77	77	Channel 78	78	Channel 79	79	Channel 80	80		
Channel 81	81	Channel 82	82	Channel 83	83	Channel 84	84		
OK Refresh Default									

Figure 4-25

4.8.2 Network

4.8.2.1 TCP/IP

From main window->Setup->Network->TCP/IP, the TCP/IP interface is shown as in Figure 4-26.

Ethernet Card	IP Address	Network Mode	NIC Member		
Network Card1	172.11.3.8	Single NIC	1	2	~
Network Card2	192.168.1.106	Single NIC	2	1	
Network Card3	192.168.1.105	Single NIC	3	1	
Network Card4	192.168.1.104	Single NIC	4	2	
Fiber Card5	192.168.1.103	Single NIC	5	2	
Fiber Card6	192.168.1.102	Single NIC	6	2	
MAC Address: 9	0:02:a9:da:33:e1 Su	bnet Mask: 255.255.	0.0 Mode: STA	TIC	
Version	IPv4	-			
referred DNS	8.8.8	. 8			
Iternate DNS	8.8.4	. 4			
	Network Card1	-	LAN Download		
efault Card	Network Oard I				

Figure 4-26

It is to select IP version. IPV4 or IPV6. You can access the IP address of these two versions.			
You can access the IP address of these two versions.			
Select Ethernet card name if you network mode is fault tolerance.			
DNS IP address.			
Alternate DNS IP address.			
For the IP address of IPv6 version, default gateway, preferred DNS and alternate DNS, the input value shall be 128-digit. It shall not be left in blank.			
LAN load System can process the downloaded data first if you enable t function. The download speed is 1.5X or 2.0X of the norr speed.			
59			

Click Edit button , you can go to the following interface. See Figure 4-27.

Edit	·	X
Ethernet Card	Network Card	
	1	
Network Mode	● Single NIC ○ Fault-tolerance ○ Load Balance	
NIC Member	Network Card2 Network Card3 Network Card4	
IP Version	IPv4	
MAC Address	90,02,a9,da,33,e1	
Mode	● STATIC ○ DHCP	
IP Address	172 . 11 . 3 . 8	
Subnet Mask	255 . 255 . 0 . 0	
Default Gateway	172 . 11 . 0 . 1	
MTU	1500	
0	K No	

Figure 4-27

Parameter	Function		
Network mode	It includes: single NIC, fault tolerance, load balance.		
	• Single NIC: eth1/eth2/ eth3/eth4 operate separately. You can use the services such as HTTP, RTP service via eth1/eth2/ eth3/eth4. Usually you need to set one default card (default setup is eth1) to request the auto network service from 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.		
	• 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 all cards are offline. Please note all cards shall be in the same LAN.		
	• Load balance: In this mode, device uses bond0 to communicate with the external device. The all cards are working now and bearing the network load. Their network load are general the same. The system is shown as offline once all cards are offline. Please note all cards shall be in the same LAN.		
NIC member	You can check the box here to select the bind cards.		
	• This mode is for fault-tolerance or load balance mode only.		
	 The network cards number shall be equal to or more than 2. 		
	• The different types of cards such as fiber card or the Ethernet card can not binding together.		

IP address	Here you can use up/down button ($\blacktriangle \nabla$) or input the corresponding number to input IP address. Then you can set the corresponding subnet mask the default gateway.	
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.	
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 DVR 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. Right now, the value here is for read-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. 1402: Recommend value for PPPoE. 1468: Recommend value for DHCP. 	

4.8.2.2 Connection

From main window->Setup->Network->Connection, the connection interface is shown as in Figure 4-28.

CONNECTION				
Max Connection	20	(0~128)		
TCP Port	37777	(1025~65535)		
UDP Port	37778	(1025~65535)		
HTTP Port	80	(1~65535)		
HTTPS Port	443	(1~65535)		
RTSP Port	554	(1~65535)		
RTSP Format rtsp:// <user name="">:<password>@<ip address="">:<port>/cam/realmonitor?channel=1&subtype=0</port></ip></password></user>				
channel: Channel, 1-128; subtype: Code-Stream Type, Main Stream 0, Sub Stream 1.				
OK Refresh Default				

Figure 4-28

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	ort The default value is 80. You can input the actual port numbe necessary.	
HTTPS port	The default value is 443. You can input the actual port number if necessary.	
RTSP port	The default value is 554.	

4.8.2.3 PPPoE

From main window->Setup->Network->PPPoE, the PPPoE interface is shown as in Figure 4-29.

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
	OK Refresh Default

Figure 4-29

4.8.2.4 DDNS

From main window->Setup->Network->DDNS, the DDNS interface is shown as in Figure 4-30.

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 4-30

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.	

Parameter	Function	
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.

4.8.2.5 IP filter

From main window->Setup->Network->IP filter, the IP filter interface is shown as in Figure 4-31. 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 O Trusted S	Sites O Blocked Sites		
Trusted Sites	Blocked Sites		
	IP Address	Edit	Delete
Add			
Save Re	fresh Default		

Figure 4-31

4.8.2.6 Email

From main window->Setup->Network->Email, the email interface is shown as in Figure 4-32.

Emai	
🗹 Enable	
SMTP S	rver 10.1.0.97
Port	25
Anonym	us
User Na	ne ge_xiaoxia
Passwo	d ••••••
Sender	ge_xiaoxia@it.com
Encrypt	ype NONE 🔽
Subject	NVR ALERT 🗹 Attachment
Receive	
	ge_xiaoxia@it.com
Interval	120 Second(0~3600)
Health E	
	Test
	Save Refresh Default

Figure 4-32

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.	
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.	

Parameter	Function		
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. System can send out the email regularly as you set here.		
Email test	The system will automatically sent out an email once to test the connection is OK or not .Before the email test, please save the email setup information.		

4.8.2.7 FTP

From main window->Setup->Network->FTP, the FTP interface is shown as in Figure 4-33. It is to set FTP IP, port and etc for remote storage.

FTP	
Enable	
Host IP	0.0.0.*
Port	21 *(1~65535)
User Name	
Password	Anonymous
Remote Directory	
File Length	0 M
Image Upload Interva	2 sec.
Channel	1
Weekday	Thursday 💌
Period 1	00 : 00 - 24 : 00 Alarm MD Regular
Period 2	00 : 00 - 24 : 00 🗌 Alarm 🗌 MD 🗌 Regular
	FTP Test
	OK Refresh Default

Figure 4-33

4.8.2.8 UPnP

From main window->Setup->Network->UPnP, here you can also add, modify or remove UPnP item. See Figure 4-34.

It allows you to establish the mapping relationship between the LAN and the public network.

- 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 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"

PAT	🖸 Enable 🔿 D	isable						
Status	Disable							
AN IP	0.0.0	0						
VAN IP	0.0.0							
		. 0						
Port Mappin No.		Service Name	Protocol	Internal Port	External Port	Modify	Delete	
1	V	HTTP	TCP	80	80	2	8	
2	V	TCP	TCP	37777	37777	/	8	
3	✓	UDP	UDP	37778	37778	1	8	
4	V	RTSP	UDP	554	554	1	8	
5	~	RTSP	TCP	554	554	<u>/</u>	8	
6		SNMP	UDP	161	161	1	8	
7	~	HTTPS	TCP	443	443	<u>/</u>	8	
Add								
Save	Refresh	Default						

Figure 4-34

4.8.2.9 SNMP

From main window->Setup->Network->SNMP, the SNMP interface is shown as in Figure 4-35.

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
SNMP Port Read Community Write Community Trap Address Trap Port Version	Save Refresh Default

Figure 4-35

Parameter	Function
	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

Parameter	Function
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.

4.8.2.10 Multicast

From main window->Setup->Network->Multicast, the multicast interface is shown as in Figure 4-36.

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

Figure 4-36

4.8.2.11 Register

From main window->Setup->Network->Register, the auto register interface is shown as below. See Figure 4-37.

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
 Enable Host IP Port Sub-device ID 	Save Refresh Default

Figure 4-37

4.8.2.12 Alarm Centre

From main window->Setup->Network->Alarm centre, the alarm center interface is shown as below. See Figure 4-38.

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



4.8.2.13 HTTPS

From main window->Setup->Network->HTTPS, you can see an interface shown as in Figure 4-39. 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.

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]



4.8.2.13.1 Create Server Certificate

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

Create Server Certificate

In Figure 4-39, click button, input country name, state name and etc. Click Create button. See Figure 4-40.

Note

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

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

Figure 4-40

You can see the corresponding prompt. See Figure 4-41. Now the server certificate is successfully created.

HTTPS		
Create Server Certificate Dow	wnload Root Certificate	
Create Succeed		

Figure 4-41

In Figure 4-39, click Download Root Certificate button, system pops up a dialogue box. See Figure 4-42.



Figure 4-42

Click Open button, you can go to the following interface. See Figure 4-43.

Certificate ? 🔀
General Details Certification Path
Certificate Information
This CA Root certificate is not trusted. To enable trust, install this certificate in the Trusted Root Certification Authorities store.
Issued to: Product Root CA
Issued by: Product Root CA
Valid from 2013-6-18 to 2023-6-16
Install Certificate
ОК

Figure 4-43

Click Install certificate button, you can go to certificate wizard. See Figure 4-44.



Figure 4-44

Click Next button to continue. Now you can select a location for the certificate. See Figure 4-45.

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 location for	
Automatically select the certificate store based on the type of certificate	
O Place all certificates in the following store	
Certificate store:	
Browse	
< <u>B</u> ack <u>N</u> ext > Cancel	

Figure 4-45

Click Next button, you can see the certificate import process is complete. See Figure 4-46.

Certificate Import Wizard		×
	Completing the C Wizard You have successfully complexity and	Certificate Import
	You have specified the follow	wing settings:
	Certificate Store Selected Content	Automatically determined by t Certificate
	< Back	Finish Cancel

Figure 4-46

Click Finish button, you can see system pops up a security warning dialogue box. See Figure 4-47.

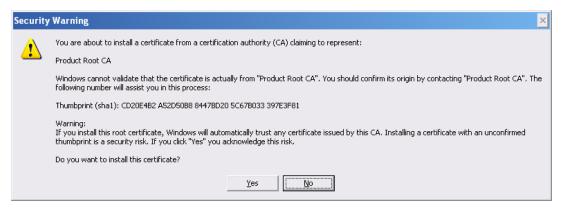


Figure 4-47

Click Yes button, system pops up the following dialogue box, you can see the certificate download is complete. See Figure 4-48.



Figure 4-48

4.8.2.13.3 View and set HTTPS port

From Setup->Network->Connection, you can see the following interface. See Figure 4-49. You can see HTTPS default value is 443.

CONNECTION		
Max Connection	20	(0~128)
TCP Port	37777	(1025~65535)
UDP Port	37778	(1025~65535)
HTTP Port	80	(1~65535)
HTTPS Port	443	(1~65535)
RTSP Port	554	(1~65535)
RTSP Format	rtsp:// <username>:<passw< th=""><th>vord>@<ip address="">:<port>/cam/realmonitor?channel=1&subtype=0</port></ip></th></passw<></username>	vord>@ <ip address="">:<port>/cam/realmonitor?channel=1&subtype=0</port></ip>
	channel: Channel, 1-128; su	btype: Code-Stream Type, Main Stream 0, Sub Stream 1.
	OK Re	ofresh Default

Figure 4-49

4.8.2.13.4 Login

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

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.

4.8.3 Event

4.8.3.1 Video detect

4.8.3.1.1 Motion Detect

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

From main window->Setup->Event->Video detect->Motion detect, the motion detect interface is shown as in Figure 4-50.

Motion Detect	Video Loss	Tampering	Video Diagnose	
Enable	2	•		
Period	Setup	600)		
Anti-dither Region	5 sec.(0-	600)		
Record Channel	Setup			
Delay	10 sec.(10	0-300)		
Alarm Out	1 2 3 4 5	6 7 8		
Latch	10 sec.(1-	300)		
PTZ Activation	Setup			
✓ Tour	Setup			
Snapshot	Setup			
Show Message	Send Email 🗌 Al	arm Upload 🔲 Buzzer	🗹 Log	
	Сору	OK Re	efresh Default	

Figure 4-50

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 4-51

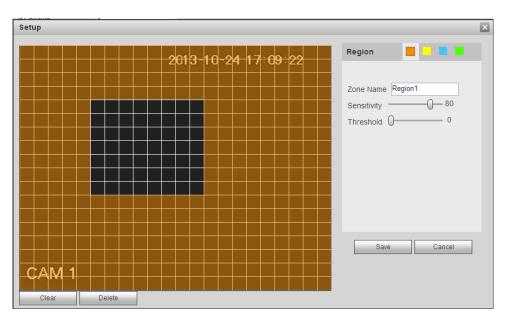


Figure 4-52

PTZ Activation				X
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	
	OK	Cancel		

Figure 4-53

Tour			×
All 1 2 3 4 5			
	Save	Cancel	

Figure 4-54

Snapshot			×
All 1 2 3 4 5			
	Save	Cancel	

Figure 4-55

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 4-51.
	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 4-52. 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

Parameter	Function
	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 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.
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 4-54.
PTZ Activation	Here you can set PTZ movement when an alarm occurs. Such as go to preset X. See Figure 4-53.
Snapshot	Click setup button to select snapshot channel. See Figure 4-55.

4.8.3.1.2 Video Loss

From main window->Setup->Event->Video detect->Video loss, the video loss interface is shown as in Figure 4-56.

Please note video loss does not support anti-dither, sensitivity, region setup. For rest setups, please refer to chapter 4.8.3.1.1 motion detect for detailed information.

Motion Detect	Video Loss	Tampering	Video Diagnose	
Enable	2	•		
Period	Setup			
Record Channel	Setup			
Delay	10 sec.(10	0-300)		
Alarm Out	1 2 3 4 5	6 7 8		
Latch	10 sec.(1-	-300)		
PTZ Activation	Setup			
✓ Tour	Setup			
🗹 Snapshot	Setup			
Show Message	Send Email 🔲 Al	larm Upload 🔲 Buzzer	✓ Log	
	Сору	OK Re	fresh Default	

Figure 4-56

4.8.3.1.3Tampering

From main window->Setup->Event->Video detect->Tampering, the tampering interface is shown as in Figure 4-57.

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 4.8.3.1.1 motion detect for detailed information.

Motion Detect	Video Loss Tampering	Video Diagnose
Enable	2	
Period	Setup	
Record Channel	Setup	
Delay	10 sec.(10-300)	
Alarm Out	1 2 3 4 5 6 7 8	
Latch	10 sec.(1-300)	
PTZ Activation	Setup	
✓ Tour	Setup	
Snapshot	Setup	
✓ Show Message	Send Email 🗌 Alarm Upload 🗌 Buzzer	✓ Log
	Сору ОК В	Default

Figure 4-57

4.8.3.1.4 Video diagnosis Important

Please make sure the network camera supports this function.

From main window->Setup->Event->Video detect->Video diagnosis, the video diagnosis interface is shown as in Figure 4-58.

Motion Detect	Video Loss	Tampering	Video Diagnose	
Set	Set			
Enable				
Period	Set			
Alarm Out	12345	6 7 8		
Latch	10 sec.(1-	300)		
Record Channel	Set			
Delay	10 sec.(10)-300)		
PTZ Activation	Setup			
✓ Tour	Set			
🗹 Snapshot	Set			
Alarm Upload	Send Email 🔲 Bi	uzzer 🔽 Log		
	ОК	Refresh De	efault	

Figure 4-58

Click Set button, the interface is shown as below. See Figure 4-59.

System can generate an alarm once there is stripe, noise, or video is color cast, out of focus or over exposure.

Analysis			×
All			
Stripe			
Noise			
Color Cast			
Out of Focus			
Over exposur	e		
	ОК	Cancel	

Figure 4-59

For detailed setups, please refer to chapter 4.8.3.1.1 motion detect for detailed information.

4.8.3.2 Face Detect

When camera detects human face, system can generate an alarm.

From main menu->Setup->Event->Face detect, the interface is shown as in Figure 4-60.

- Enable face boost: Check the box here, system can enhance the human face display pane.
- Sensitivity: System supports 6 levels. The sixth level has the highest sensitivity.

FACE DETECT	
Enable	2
Period	Setup
Enable Face Boost	
Record Channel	Setup
Delay	10 sec. (10~300)
Alarm Out	1 2 3 4 5 6 7 8
Latch	10 sec. (1~300)
✓ PTZ Activation	Setup
✓ Tour	Setup
🕑 Snapshot	Setup
Alarm Upload	 ☐ Send Email ☐ Buzzer ☑ Log
	OK Refresh Default

Figure 4-60

4.8.3.3 Audio Detect

System can generate an alarm once it detect the audio input is abnormal or audio volume changes. From main menu->Setup->Event->Audio detect, you can see an interface shown as in Figure 4-61.

- Input abnormal: Check the box here, system can generate an alarm once the audio input is abnormal.
- Intensity change: Check the box here, system can generate an alarm once the audio volume becomes strong.
- Sensitivity: It refers to the audio recognition sensitivity. The higher the value is, the higher the sensitivity is.
- Threshold: It is to set intensity change threshold. The smaller the value is, the higher the sensitivity is.

For detailed setups, please refer to chapter 4.8.3.1.1 motion detect for detailed information.

Audio Detect	
Channel	2
🗹 Input Abnormal	
Intensity Change	
Sensitivity	☐ (≠ 50
Threshold	☐ — — () — — (+ 50)
Period	Setup
Record Channel	Setup
Delay	10 sec. (10~300)
Alarm Out	1 2 3 4 5 6 7 8
Latch	10 sec. (1~300)
PTZ Activation	Setup
✓ Tour	Setup
🗹 Snapshot	Setup
🗹 Alarm Upload	 □ Send Email □ Buzzer ☑ Log
	OK Refresh Default

Figure 4-61

4.8.3.4 Alarm

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

4.8.3.4.1 Local Alarm

From main menu->Setup->Event->Alarm->Local alarm, the local alarm interface is shown as in Figure 4-62. It refers to alarm from the local device.

Local Alarm	Net Alarm IPC External Alarm IPC Offline Alarm
Enable	1 Alarm name
Period	Setup
Anti-dither	5 sec.(0-600) Type NO
Record Channel	Setup
Delay	10 sec.(10-300)
Alarm Out	1 2 3 4 5 6 7 8
Latch	10 sec.(1-300)
PTZ Activation	Setup
Tour	Setup
🗌 Snapshot	Setup
Show Message	🗌 Send Email 🔲 Alarm Upload 📄 Buzzer 🗹 Log
	Copy OK Refresh Default

Figure 4-62

Setup		×
	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 4-63

P	TZ 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	<u>×</u>	0
	Channel 12	None	×	0
	Channel 13	None	×	0
	Channel 14	None	×	0
	Channel 15	None	~	0
	<			
		ок	Cancel	

Figure 4-64

Please refer to	the following	sheet for	detailed	information.
		9 0110001 101	actuned	in on nation.

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 set alarm record period and go to Storage-> Schedule to set current channel as schedule record.	

Parameter	Function	
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 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 4-54.	
PTZ Activation	Here you can set PTZ movement when an alarm occurs. Such as go to preset X. See Figure 4-64.	
Snapshot	Click setup button to select snapshot channel. See Figure 4-55.	

4.8.3.4.2Net Alarm

From main menu->Setup->Event->Alarm->Net alarm, the network alarm interface is shown as in Figure 4-65.

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 4.8.3.4.1.

Local Alarm	Net Alarm	IPC External Alarm	IPC Offline Alarm
Enable	1	✓ Alarm name	
Period	Setup		
Record Channel	Setup		
Delay	10 sec.(1	0-300)	
Alarm Out	1 2 3 4 5	6 7 8	
Latch	10 sec.(1-	-300)	
PTZ Activation	Setup		
🗌 Tour	Setup		
Snapshot	Setup		
🗌 Send Email 🔲 B	uzzer 🗹 Log		
	Сору	OK Re	fresh Default

Figure 4-65

4.8.3.4.3IPC external alarm

From main menu->Setup->Event->Alarm->IPC external alarm, the IPC external alarm interface is shown as in Figure 4-66.

Network alarm refers to the alarm signal from the network. System does not support anti-dither and sensor type setup. For setup information, please refer to chapter 4.8.3.4.1.

Local Alarm	Net Alarm IPC External Alarm	IPC Offline Alarm
Enable	2 Alarm name	
Period	Setup	
Anti-dither	5 sec.(0-600) Type NO	×
Record Channel	Setup	
Delay	10 sec.(10-300)	
Alarm Out	1 2 3 4 5 6 7 8	
Latch	10 sec.(1-300)	
PTZ Activation	Setup	
✓ Tour	Setup	
✓ Snapshot	Setup	
Show Message	🗌 Send Email 🔲 Buzzer 🗹 Log	
	Copy OK Refr	esh Default

Figure 4-66

4.8.3.4.4 IPC Offline Alarm

From main menu->Setup->Event->Alarm->IPC offline alarm, the IPC offline alarm interface is shown as

in Figure 4-67.

System can generate an alarm once the network camera is offline. For setup information, please refer to chapter 4.8.3.4.1.

Local Alarm	Net Alarm IPC External Alarm IPC Offline Alarm
✓ Enable	2
Record Channel	Setup
Delay	10 sec.(10-300)
Alarm Out	1 2 3 4 5 6 7 8
Latch	10 sec.(1-300)
✓ PTZ Activation	Setup
✓ Tour	Setup
Snapshot	Setup
Show Message	🗌 Send Email 🔲 Buzzer 🔽 Log
	Copy OK Refresh Default

Figure 4-67

4.8.3.5 Abnormality

From main menu->Setup->Event->Abnormality, you can go to the abnormality interface. It includes three types: HDD/Network/Power fault. See Figure 4-68 through Figure 4-70.

HDD	NETWORK	PowerFault	
Event Type	No HDD	M	
Enable			
Alarm Out	1 2 3 4 5	6 7 8	
Latch	10 sec.(1-	300)	
Show Message	🗌 Send Email 🔲 Al	larm Upload 🔲 Buzzer 🔲 Log	
	ОК	Refresh	

Figure 4-68

HDD	NETWORK	PowerFault
Event Type	Disconnect	M
Enable		
Alarm Out	1 2 3 4 5	6 7 8
Latch	10 sec.(1-	300)
Show Message	🗌 Send Email 🔲 B	uzzer 🗹 Log
	ОК	Refresh

Figure 4-69

HDD	NETWORK PowerFault
Enable	
Alarm Out	1 2 3 4 5 6 7 8
Latch	10 sec.(1-300)
Show Message	🗌 Send Email 🔲 Buzzer 📄 Log
	OK Refresh

Figure 4-70

Parameter	Function
Event Type	 The HDD event type includes: No HDD, HDD error, no space. See Figure 4-68.
	You can set one or more items here.
	Less than: You can set the minimum percentage value here (For HDD not space only). The device can alarm when capacity is not sufficient.
	You need to draw a circle to enable this function.
	 Network event type includes: Disconnect/IP conflict/MAC conflict. See Figure 4-69.
	 Power fault. The interface is shown as in Figure 4-70. This function for power-redundancy series product. When this function is on, you can remove one power sourcing from the system, it does not affec the normal operation of the device, but system will generate an ala to alert you.
Enable	Check the box here to enable selected function.

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

4.8.3.6 Alarm Output

From main menu-> Setup->Event->Alarm output, it is to set alarm output mode. See Figure 4-71.

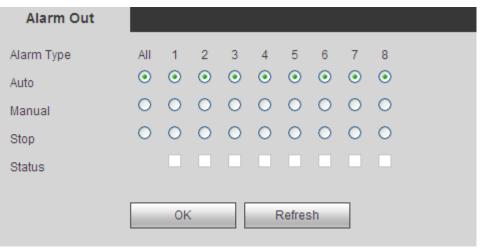


Figure 4-71

4.8.4 Storage

4.8.4.1 Schedule

From main menu-> Setup->Storage->Schedule, you can go to the schedule interface. In this interfaces, you can add or remove the schedule record setup. See Figure 4-72.

There are five record modes: Regular, motion detect, alarm and MD&alarm, and intelligence. 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.
- Orange color stands for intelligent record/snapshot.

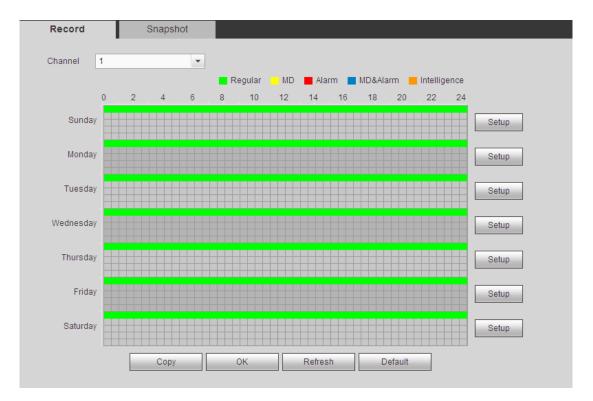
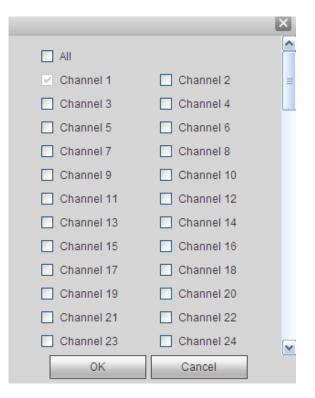


Figure 4-72

Setup			×
Period 1 00 : 00 - 24 : 00 V	Regular 🗌 Motion	Alarm MD&Alarm	Intelligence
Period 2 00 : 00 — 24 : 00	Regular 🗌 Motion	Alarm MD&Alarm	Intelligence
Period 3 00 : 00 — 24 : 00	Regular 🗌 Motion	Alarm MD&Alarm	Intelligence
Period 4 00 : 00 - 24 : 00	Regular 🗌 Motion	Alarm MD&Alarm	Intelligence
Period 5 00 : 00 — 24 : 00	Regular 🗌 Motion	Alarm MD&Alarm	Intelligence
Period 6 00 : 00 — 24 : 00	Regular 🗌 Motion	Alarm MD&Alarm	Intelligence
🗋 All 🛛 🗹 Sunday 🗋 Monday 🗋 Tues	sday 🗌 Wednesday 🗌	Thursday 🗌 Friday 🔲 Sa	turday
	OK Canc	el	

Figure 4-73





Please refer to the following sheet for detailed information.

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 4-73. 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 4-74. 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.

4.8.4.2 HDD Manager

From main menu-> Setup->Storage->HDD manager, the HDD manager interface is shown as in Figure 4-75. Here you can see HDD information. You can also operate the read-only, read-write, redundancy (if there are more than one HDD) and format operation.

HDD MANAGE								
Device Name	9	Physical Position	_	HDD Opera	ation	Status	Free Space/Total Space	_
sda		host_1		Read-Write	~	Normal	0GB/930.47GB	<u>^</u>
								~
ОК	Refresh	Format						

Figure 4-75

4.8.4.3 Record Control

From main menu->Setup->Storage->Record, the interface is shown as in Figure 4-76.

Record												
Main Stream	All	1	2	3	4	5	6	7	8	9	10	
Auto	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	
Manual	0	0	0	0	0	0	0	0	0	0	0	
Stop	0	0	0	0	0	0	0	0	0	0	0	
Sub Stream												
Auto	0	0	0	0	0	0	0	0	0	0	0	
Manual	0	0	0	0	0	0	0	0	0	0	0	
Stop	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	
Snapshot												
Open	0	0	0	0	0	0	0	0	0	0	0	
Stop	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	
						_				_		
		_	Ok	(Re	efres	h			

Figure 4-76

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/ stop all	Check the corresponding All button, you can enable or disable all channels record.

4.8.4.4 Advanced

4.8.4.4.1HDD

From main menu->Setup->Storage->Advanced->HDD, the HDD interface is shown as below. See Figure 4-77. Here you can set HDD group.

HDD	Main Stream	Sub Stream	Snapshot		
		-			
	HDD			HDD Group	
	sda			1	<u>^</u>
					~
ОК	Refresh				

Figure 4-77

4.8.4.4.2 Main Stream

From main menu->Setup->Storage->Advanced->Main stream, the main stream interface is shown as in Figure 4-78. Here you can set corresponding HDD group to save main stream.

Channel	HDD Group	Channel	HDD 0	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	~
OK	Refresh	Сору								

Figure 4-78

4.8.4.4.3Sub Stream

From main menu->Setup->Storage->Advanced->Sub stream, the sub stream interface is shown as in Figure 4-79.

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

		_	-							1100	
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	~
ОК	Refre	sh	Сору								

Figure 4-79

4.8.4.4.4 Snapshot

From main menu->Setup->Storage->Advanced->Snapshot, the snapshot interface is shown as in Figure 4-80. 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	~	Channel 30	1	~	Channel 31	1	~	Channel 32	1	~	
												-
OK	Refr	esh	Сору									

Figure 4-80

4.8.4.5 RAID Manager

Important

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

4.8.4.5.1 RAID Config

From main menu->Setup->Storage->RAID->RAID config, you can go to the following interface. See Figure 4-81.

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 4-81.

RAID	RAID In	fo H	HOTSPARE			
Physical Position	Host	M	Raid Type	RAID5	HDD Number (3~16)	
	Name	Capacity	Туре		Disk members	
	1	930.51GB	General HDD		-	<u>~</u>
						✓
Create RAID	Create Manually	Refresh	_			

Figure 4-81

4.8.4.5.2RAID Info

From main menu->Setup->Storage->RAID->RAID info, you can go to the following interface. See Figure 4-81. Here you can vie corresponding RAID information.

RAID	RAID Info	H	IOTSPARE			
Physical Position	Host	~				
No. Name	Capacity	Туре	Disk members	Hotspare	Status	Delete
						✓
Refresh						

Figure 4-82

4.8.4.5.3Hotspare disks

From main menu->Setup->Storage->RAID->Hotspare, you can see an interface shown as in Figure 4-83. 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.

RAID	RA	ID Info	HOTSPARE				
Physical Position	Host	~					
No.	Name	Capacity	Туре	Raid name	Edit	Delete	
1	1	930.51GB	General HDD	-	2	-	<u>~</u>
							~
Refresh							

Figure 4-83

4.8.4.6 iSCSI

From main menu->Setup->Storage->iSCSI, you can see an interface shown as in Figure 4-84. Here you can set corresponding HDD group to save main stream.

ISCSI SETTI	NG							
Server IP A User Nam Password Path	e		Anonyn		3260 Set Path	(3260~65535)		
ISCS	SI Targets							
	No.	Status	IP Address	Port	User Name		Path	Delete
								<
Ad		Refresh	Default					

Figure 4-84

Check the box to enable iSCSI function and then input iSCSI server IP address and port. The default port number is 3260.

Click Set path button, system pops up the path setup dialogue box. Please select the connected path and then click OK button. See Figure 4-85.

Each path here stands for an iSCSI share disk. The path is already generated when it was created on the server.

Set Path		X
No.	Path	
1	iqn.2013-04.com.20140107193119.ess5016s:cc	
2	iqn.2013-04.com.20140107193059.ess5016s:bb	
3	iqn.2013-04.com.20140107193045.ess5016s:aa	
4	iqn.2013-04.com.20140107172245.ess5016s:iscsi3	
5	iqn.2013-04.com.20140107165856.ess5016s:iscsi	
		Y
	OK Cancel	



Input user name and password to set iSCSI path access right. There are two situations:

- When you set the iSCSI server, you have set corresponding user name or password for a path. In this situation, you need to input user name or password to login.
- When you set the iSCSI server, you have not set the corresponding access right. In this situation, you can check the anonymous button or input customized user name.

Click add button, now you have added an iSCSI server. Click OK button, the setup is finish. The interface is shown as in Figure 4-86.

Note:

- If you have not input a user name/password, or check the anonymous button, system pops up a dialogue box to prompt you that system is going to add anonymously. In this situation, once the iSCSI path has the access setup, you may not connect to the iSCSI server.
- Since the connection may take a while, please wait a moment and then click refresh button, once the status is shown as offline after you added.

IS	CSI					
🕶 Ena	ble					
erver IF	Address	172.12.5.75	Port	3260	(3260~65535)	
ser Na	me		Anonymous			
asswo	rd					
ath		iqn.2013-04.com.1234568523	5985.ess3116x:dahau	Set Path		
15	SC SI Targets					
No.	Status	IP Address	Port	User Name	Path	Delete
1	connected	172.12.5.75	3260		iqn.2013-04.com.12345685236985.ess3116	
					x:dahau iqn.2013-04.com.12345685236985.ess3116	-
2	connected	172.12.5.75	3260		xmama	8
3	connected	172.12.5.75	3260		iqn.2013-04.com.12345685236985.ess3116	8
3	connected	172.12.5.75	3200		xbaba	
4	connected	172.12.5.75	3260		iqn.2013-04.com.12345685236985.ess3116	8
					x:syl ign.2013-04.com.12345685236985.ess3116	
5	connected	172.12.5.75	3260		X:Syj	8
A	Add					_
S	ave	Refresh Defau	It			

Figure 4-86

4.8.5 Setting

4.8.5.1 General

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

4.8.5.1.1 General

From main menu->Setup->System->General->General, the general interface is shown as in Figure 4-87.

General	Date&Time	Holiday		
Device Name	NVR			
Device No.	8			
Language	ENGLISH	~		
Video Standard	PAL	~		
HDD Full	Overwrite	~		
Pack Duration	60	min.		
Auto Logout	10	min. (0-60)		
Startup Wizard				
Navigation Bar				
IPC Time Sync	24	h		
	ОК	Refresh	Default	

Figure 4-87

Please refer to the following sheet for detailed information.

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.

4.8.5.1.2 Date and time

From main menu->Setup->System->General->Date and time, the date and time interface is shown as in Figure 4-88

General	Date&Time	Holiday
Date Format	YYYY MM DD	
Time Format	24-HOUR	
Date Separator	-	
Time Zone	GMT+08:00	×
System Time	2014 - 07 - 03	11 : 20 : 18 Sync PC
DST		
DST Type	💿 Date 🔿 Week	
Begin Time	2000 - 01 - 01	00 : 00
End Time	2000 - 01 - 01	00 : 00
NTP		
Server	time.windows.com	Manual Update
Port	123	(1~65535)
Interval	60	min. (0~65535)
	ОК	Refresh Default

Figure 4-88

Please refer to the following sheet for detailed information.

Parameter	Function
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.

4.8.5.1.3 Holiday Setup

From main menu->Setup->System->General->Holiday, holiday setup interface is shown as in Figure 4-89.

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

	Genera		Date&Time	Holiday					
	No.	Status	Holiday Name	Dat		eriod	Repeat Mode	Edit	Delete
	INO.	Status	Holiday Name	Dat	e Pt	enod	Repeat Mode	Eall	
									√
[Add Holida	avs							
	OK		Refresh Defa	ult					

Figure 4-89

4.8.5.2 Display

Display interface includes GUI, Tour.

4.8.5.2.1 Display

From main menu->Setup->System->Display->Display, here you can set background color and transparency level. See Figure 4-90.

Display	Tour
Screen Mode	VGA+HDMI1
Screen Enable	Screen Num1 🔲 Screen Num2
Screen Num	Screen 1(VGA) Resolution 1280*1024
Time Display	
Channel Display	
Image Enhance	
IVS Rule	
	OK Refresh Default

Figure 4-90

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	Check the box; you can optimize the margin of the preview video.			

enhance			

4.8.5.2.2Tour

From main menu->Setup->System->Display->Tour, the tour interface is shown as in Figure 4-91. Here you can set tour interval, split mode, motion detect tour and alarm tour mode.

Display	Tour
Screen Num	VGA
Enable	
Interval	5 sec.(5-120)
Window Split	View 1
	128 🔽 Channel Group 🔄 🛨
	1 🗹 1
	2 🗹 2
	3 🗹 3 😺
	4 🗸 4
	5 🔽 5
	6 🔽 6
Video Detect	View 1
Alarm	View 1
	OK Refresh Default

Figure 4-91

Please refer to the following sheet for detailed information.

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.

4.8.5.3 RS232

From main menu->Setup->System->RS232, the RS232 interface is shown as in Figure 4-92.

R\$232			
Function	Console	~	
Baud Rate	115200	~	
Data Bit	8	~	
Stop Bit		~	
Parity	None	~	
	ОК	Refresh	Default

Figure 4-92

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.	

4.8.5.4 PTZ

The PTZ interface is shown as in Figure 4-93 (local type) and Figure 4-94 (remote type).

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 DVR A (B) line.

Click Save button after you complete setup, you can go back to the monitor interface to control speed dome.

PTZ	
Channel	1 •
PTZ Type	
Protocol	NONE
Address	1
Baud Rate	9600
Data Bit	8
Stop Bit	1
Parity	None
	Copy Save Refresh Default
	Copy Save Refresh Default

Figure 4-93

PTZ						
Channel	22	*				
PTZ Type	Remote	~				
	Сору	Save	Refresh	Default		

Figure 4-94

Please refer to the following sheet for detailed information.

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 9600.
Data Bit	Default setup is 8. Please set according to the speed dome dial switch setup.
Stop bit	Default setup is 1. Please set according to the speed dome dial switch setup.
Parity	Default setup is none. Please set according to the speed dome dial switch setup.

4.8.5.5 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.

4.8.5.5.1User name

From main menu->Setup->System->Account, you can go to the account interface. In this interface you can add/remove user and modify user name. See Figure 4-95.

User	Group				
SN	User	Group Name	Memo	Modify	Delete
1	888888	admin	admin(888888) 's account	2	•
2	666666	user	666666 user's account	2	•
3	admin	admin	admin 's account	2	•
4	default	user	default account	2	•
Add User					

Figure 4-95

Add user: It is to add a name to group and set the user rights. See Figure 4-96.

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				1	×
User					
Reusable					
Password					
Confirm Password					
Group	admin		~		
Memo					
Authority					
System	Playba	ck	Real-time Monito	r	1
✓PTZ ✓SY ✓STORAGE ✓EV	STEM STEM INFO ENT IUTDOWN		NNECT USER AL CONTROL ORK	DEFAULT ✓FILE BACKUP ✓CAMERA	
	ОК		Cancel		

Figure 4-96

It is to modify the user property, belonging group, password and rights. See Figure 4-97.

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.

Modify User		×
User	666666	
User	666666	
Reusable		
Group	user 💌	
Memo	666666 user's account	
Modify Password		
Old Password		
New Password		
Confirm Password		
Authority		
System	Playback Real-time Mo	nitor
		DEFAULT
	TEM INFO MANUAL CONTROL	FILE BACKUP
	NETWORK	CAMERA
CLAER LOG SH	JTDOWN	
	OK Cancel	

Figure 4-97

4.8.5.5.2Group

The group management interface can add/remove group, modify group password and etc. The interface is shown as in Figure 4-98.

Group Name	Mama		
	Memo	Modify	Delete
admin	administrator group	2	•
user	user group	1	•

Add group: It is to add group and set its corresponding rights. See Figure 4-99.

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	
AII ACCOUNT PTZ STORAGE CLAER LOG	SYSTEM DISCONNECT USER DEFAULT SYSTEM INFO MANUAL CONTROL FILE BACKUP EVENT NETWORK CAMERA SHUTDOWN SHUTDOWN	
	OK Cancel	

Figure 4-99

Modify group

Click the modify group button, you can see an interface is shown as in Figure 4-100. Here you can modify group information such as remarks and rights.

Modify Group			×
Group Name Group Name	user user		
Memo	user group		
Authority System	Playback	Real-time Moni	tor
✓PTZ ✓SY STORAGE EV	STEM INFO	DISCONNECT USER MANUAL CONTROL NETWORK	DEFAULT I FILE BACKUP CAMERA
	ок	Cancel	

Figure 4-100

From main menu->Setup->System->Auto maintain, the auto maintain interface is shown as in Figure 4-101.

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	Tuesday 💽	02:00	
Auto Delete Old Files	Customized	23	Days Ago
	Reboot		
	ОК	Refresh	

Figure 4-101

4.8.5.7 Import/Export

From main menu->Setup->System->Import/export, the interface is shown as in Figure 4-102.

Import&Export	
Import Config File	Browse Config Import
Config Export]

Figure 4-102

Please refer to the following sheet for detailed information.

Parameter	Function
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.

4.8.5.8 Default

From main menu->Setup->System->Default, the default setup interface is shown as in Figure 4-103. Here you can select Network/Event/Storage/Setting/Camera. Or you can check the All box to select all items.

Default		
II All		
CAMERA	NETWORK	EVENT
STORAGE	SYSTEM	
Default		

Figure 4-103

4.8.5.9 Upgrade

From main menu->Setup->System->upgrade, the upgrade interface is shown as in Figure 4-104.

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	

Figure 4-104

4.8.6 Cluster Service

The Cluster service is a system component used to control activities on a single node. When one or several device(s) are malfunction, it can switch to the slave device to replace the work accordingly. There are two standards when the master device is malfunction: 1) Device is offline. 2) Device storage is damaged.

Please go to the **WEB of the slave device** to set the cluster setup of the master device and slave device .

4.8.6.1 Master Device

From main menu->Setup->Cluster service->Master device, you can go to the following interface. See Figure 4-105.

In this interface, you can add several master devices manually. After you enable the cluster function, you can view device IP, work status. Click operation button, you can view the connection log of the main device. See Figure 4-105.

Manual Add Master Device Name	IP Address	Status	Operation	Delete	
NVR1	172.11.3.28	Working	Q	•	

Figure 4-105

Click Manual add, the interface is shown as below. See Figure 4-106.

Manual Add		×
Master Device Name		
IP Address		
Port	37777	(1~65535)
User Name	admin	
Password	•••••	
	Yes No	

Figure 4-106

Click Click cover the second cover the s

nformation			
Event Time	Event Name	Event Reason	
2014-06-23 18:25:54	Device login		

Figure 4-107

4.8.6.2 Slave Device

When you add the first slave device, the default IP is the device IP address that logins in the WEB. From main menu->Setup->Cluster service->Slave device, you can go to the following interface. See Figure 4-108. You can refer to Chapter 4.8.6.1 to set.

	IP Address	Replace IP	Status	Operation	Delete
NVR2	172.11.2.233	-	DCS Working Device+Free	Q.	•

Figure 4-108

After you added master device and slave device, you need to enable cluster function. Otherwise, cluster function is null. Please refer to chapter 4.8.6.4.

4.8.6.3 Record Transfer

From main menu->Setup->Cluster service->Record transfer, you can go to the record transfer interface.

When the master device is malfunction and can not record, system can use slave device to record instead. You can use this function to forward the record files on the slave device to the main device.

After the master device is malfunction, the slave device becomes active and status is used.

After the master device becomes active again, there is a *button* on the left side of the master device

🔍 . 💉 is the resume button.



If you want to switch the slave device to the main device, please click ^{see} button manually to resume the main device. You can see the following prompt. See Figure 4-109.

MAST						
	Manual Add					
	Master Device Name	IP Address	Status	Operation	Delete	
	NVR1	172.11.3.28	Working	Q.	•	~
						-

Figure 4-109

After the master device becomes active again, system can forward the record files on the slave device to the master device.

4.8.6.4 Cluster control

From main menu->Setup->Cluster service->Cluster control, you can go to the cluster control interface. It is to enable/disable cluster. See Figure 4-110.

CLUSTER CONTROL	
Start Cluster	Delete Cluster

Figure 4-110

You can see the corresponding prompt if you successfully enabled cluster service.

4.8.6.5 DCS Log

From main menu->Setup->Cluster service->DCS log, you can go to the DCS log interface. The DCS log interface is shown as in Figure 4-111. Here you can search and view the DCS log.

DCS LOG								
Begin Time	1		00 : 00 : 00	End Time	2014 - 07 - 0	00 : 00 :	00	
Search]	Record Time 2	2014-07-03 00:00:0	0 2014-07-04 00:00:00				
	No.			Time			Event	
DCS Log Informa	ation							
								и Со То 1 — [6
								Go To 1

Figure 4-111

4.9 Info

From main menu->Info, you can go to the following interface.

4.9.1 Version

From main menu->Info->Version, the version interface is shown as in Figure 4-112.

Here you can view record channel, alarm input/output information, software version, release date and etc. **Please note the following information for reference only.**

VERSION	
Record Channel:	128
Alarm In:	16
Alarm Out:	8
SN:	123456789
System Version:	3.210.0000.0, Build Date: 2014-06-25

Figure 4-112

4.9.2 Log

From main menu->Info->Log, here you can view system log. See Figure 4-113.

Start Time 2014 Type All	- 07 - 03 00 : 00 : 00 End Time 2014 - 0	
Type All	2014 - 0	7 - 04 00 : 00 : 00
	Search Matched 1686 logs Record Time 2014	4-07-03 11:46:41 2014-07-03 00:04:44
No.	Time	Event
1	2014-07-03 11:46:41	Motion Detect
2	2014-07-03 11:46:36	Motion Detect
3	2014-07-03 11:46:24	Motion Detect
4	2014-07-03 11:46:13	Motion Detect
5	2014-07-03 11:46:12	Motion Detect
6	2014-07-03 11:46:05	Motion Detect
7	2014-07-03 11:46:02	Motion Detect
8	2014-07-03 11:46:01	Motion Detect
· · · ·		···· = · ·

Figure 4-113

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.			

4.9.3 Online User

From main menu->Info->online users, the online user interface is shown as in Figure 4-114. You can view current online user name. You can click Refresh button to view the latest information.

No.	User Name	Group Name	IP Address	User Login Time	
1	admin	admin	10.15.6.140	2014-07-03 09:30:12	
2	admin	admin	10.15.6.200	2014-07-03 10:50:31	
3	admin	admin	10.15.6.244	2014-07-01 19:25:05	
4	admin	admin	10.15.6.188	2014-07-03 10:55:17	
5	admin	admin	10.15.6.188	2014-07-03 10:55:17	

Figure 4-114

4.9.4 HDD

From main menu->Info->HDD, the HDD interface is shown as in Figure 4-115. Here you can view HDD information.

HDD						
Device Name	Physical Position	Status	Free Space/Total Space	S.M.A.R.T.	Path	
sda	host_1	Normal	0GB/930.51GB		-	<u>~</u>
HDD Time						v
Refresh						

Figure 4-115

4.10 Playback

Click Playback button, you can see an interface is shown as in Figure 4-116.

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

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

	PLAYBACK ALARM	SETUP INFO LOGOUT	
Ô	€ ×	6	• • •
Ô	@×	6	
			00: 00: 00 - 22: 23: 33: 33 00: 00: 00 - 23 18 19 20 21 22 23 24

Figure 4-116

Then please click File list button, you can see the corresponding files in the list. See Figure 4-117.





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 4-118.





Select the file(s) you want to download and then click download button, you can see an interface shown as in Figure 4-119. 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.

	00 : 00 :	00 Q
1	2	3 4
	Start Time	Туре
	00:00:00	R
	01:00:00	R
	02:00:00	R
V		R
	04:00:00	R
	04:32:03	R
×	06:00:00	R
Z	07:00:00	R
	08:00:00	R
	09:00:00	R
	10:00:00	R
	11:00:00	R
<	1111	
 ⊲ 1/	1 🕨 🍽 Go T	o 1 🖻
Start Ti	me:03:00:00	
End Tin	ne:04:00:00	
File Siz	e:1839872(H	KB)
<u>▼</u>	More	▼ Stop(0%)
E	Lock	Locked Info
		← Back

Figure 4-119

Load more

Click More button in Figure 4-119, you can see an interface shown as in Figure 4-120. It is for you to search record or picture. You can select record channel, record type and record time to download. There are two download types. The download by file interface is shown as in Figure 4-120 and the download by time interface is shown as in Figure 4-121.

	All Records 💌 Main Sub 💌	End Time	2014 - 07 - 03 23	: 59 : 59	Search		
	No.	File Size:	Start Time	End Time	File Type	Bit Stream Type	Channel
	1	3513472KB	2014-07-01 00:00:00	2014-07-01 01:00:00	Regular	Main Stream	2
	2	3645312KB	2014-07-01 01:00:00	2014-07-01 02:00:00	Regular	Main Stream	2
	3	2432KB	2014-07-01 02:00:00	2014-07-01 02:00:02	Regular	Main Stream	2
	4	333312KB	2014-07-01 02:02:00	2014-07-01 02:07:58	Regular	Main Stream	2
	5	1471232KB	2014-07-01 02:08:31	2014-07-01 03:00:00	Regular	Main Stream	2
	6	1712512KB	2014-07-01 03:00:00	2014-07-01 04:00:00	Regular	Main Stream	2
	7	1741184KB	2014-07-01 04:00:00	2014-07-01 05:00:00	Regular	Main Stream	2
	8	1831680KB	2014-07-01 05:00:00	2014-07-01 06:00:00	Regular	Main Stream	2
Down To Local	Down To USB					M 4	1/3 🕨 🍽 Go To 🚹
Back							

Figure 4-120

Download By File Download B	By Time Water	ermark
Channel 1 Bit Stream Type Main Stream Down To Local	Start Time	2014 - 07 - 03 00 : 00 23 : 59 : 59
Back		

Figure 4-121

Watermark

Watermark interface is shown as in Figure 4-122. Please select a file and then click Verify button to see the file has been tampered with or not

ownload by File	Download by Time	Watermark	<u></u>			
Local File						
F.\ftp\10.10.5.189\2	013-08-22\DVR_ch3main_20	130822173000_201	30822173140 Ver	ify		
/atermark Info						
/atermark Revised Infi	þ					
No.	Malfunction t	уре	Watermark Time			
1	Normal			~		
Back						

Figure 4-122

4.11 Alarm

Click alarm function, you can see an interface is shown as Figure 4-123.

Here you can set device alarm type and alarm sound setup (Please make sure you have enabled audio function of corresponding alarm events.).

		No.	Time	Alarm Type	Channel
Alarm Type					
Motion Detect	External Alarm				
Tampering	HDD Error				
🗌 Video Loss	HDD Full				
Intelligentized Detect	AUDIO DETECT				
Operation					
Message					
Alarm Sound					
Play Alarm Sound					
Sound Path	Select				
		l			

Figure 4-123

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.						
	Alarm input device sends out alarm.							

Туре	Parameter	Function					
	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.					

4.12 Log out

Click log out button, system goes back to log in interface. See Figure 4-124. You need to input user name and password to login again.

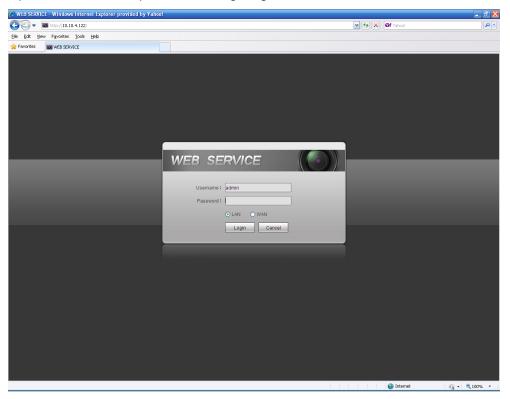


Figure 4-124

4.13 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.

5 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)**.

$$q_T = \sum_{i=1}^c m_i \, \star a\% \tag{4}$$

In the formula: a% means alarm occurrence rate

6 Appendix B Toxic or Hazardous Materials or Elements

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

Note

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

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

Note

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