User Manual Midi Security Kit PRO FullHD 1080P TX-51

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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 electrical shock caused by improper handling or installation.

2 . Transportation security

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

3 . Installation

Keep upwards. Handle with care.

Do not apply power to the DVR before completing installation.

Do not place objects on the DVR

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 DVR 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.

6. Accessories

Be sure to use all the accessories recommended by manufacturer. Before installation, 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, make sure you are using the same model!

This device complies with the requirements of the standards referred to the Directive **R&TTE 1999/5/EC**. The Declaration of Conformity you find here: **www.technaxx.de/** (in bar at the bottom "Konformitätserklärung"). Before using the device the first time, read the user manual carefully.

Service phone No. for technical support: 01805 012643 (14 cent/minute from German fixed-line and 42 cent/minute from mobile networks). Free Email: support@technaxx.de

If you drill a hole in the wall, please make sure that power cables, electrical cords and/or pipelines are not damaged. When using the supplied mounting material, we do not take the liability for a professional installation. You are entirely responsible to ensure that the mounting material is suitable for the particular masonry, and that the installation is done properly. When working at higher altitudes, there is danger of falling! Therefore, use suitable safeguards.

Security and Disposal Hints for Batteries: Hold children off batteries. When a child swallowed a battery go to a doctors place or bring the child into a hospital promptly! Look for the right polarity (+) and (-) of batteries! Always change all batteries. Never use old and new batteries or batteries of different types together. Never short, open, deform or load up batteries! Risk of injury! Never throw batteries into fire! Risk of explosion!



Hints for Environment Protection: Packages materials are raw materials and can be recycled. Do not disposal old devices or batteries into the domestic waste. **Cleaning:** Protect the device from contamination and pollution (use a clean drapery). Avoid using rough, coarse-grained materials/solvents/other aggressive cleaner. Wipe the cleaned device. **Important Notice:** Should battery fluid leak from a battery, wipe the batterycase with a soft cloth dry. **Distributor:** Technaxx Deutschland GmbH & Co.KG, Kruppstr. 105, 60388 Frankfurt a.M., Germany

1 FEATURES AND SPECIFICATIONS

1.1 Overview

This series product is an excellent digital monitor product designed for security field. It adopts embedded Linux OS to maintain reliable operation. It is easy to use and can realize surveillance function after some simple setups. It has various functions such as record, playback, monitor at the same time and can guarantee audio video synchronization. This series product has advanced technology and strong network data transmission function.

This series device adopts embedded design to achieve high security and reliability. It can work in the local end, and at the same time, when connecting it to the professional surveillance software (PSS), it can connect to security network to realize strong network and remote monitor function. It can realize HD monitor without changing current cable layout

This series product can be widely used in various areas such as banking, telecommunication, electric power, interrogation, transportation, intelligent resident zone, factory, warehouse, resources, and water conservancy.

1.2 Features

- **Real-time monitor:** It has analog output port, VGA port and HDMI port. You can use monitor or displayer to realize surveillance function. System supports VGA/HDMI output at the same time.
- **Storage function:** Special data format to guarantee data security and can avoid vicious data modification.
- **Compression format:** Support multiple-channel audio and video. An independent hardware decodes the audio and video signal from each channel to maintain video and audio synchronization.
- **Backup function:** Support backup operation via USB port (such as flash disk, portable HDD, burner). Client-end user can download the file to local HDD to backup via network.
- **Record playback function:** 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.
- **Network operation:** Support network remote real-time monitor, remote record search and remote PTZ control.
- Alarm activation function: Several relay alarm outputs to realize alarm activation and onsite light control. The alarm input port and output has the protection circuit to guarantee device safety.
- **Communication port:** RS485 port can realize alarm input and PTZ control.

RS232 port can connect to keyboard to realize central control, and can also connect to PC COM to upgrade system and realize maintenance, and matrix control. Standard Ethernet port can realize network access function.

- **PTZ control:** Support PTZ decoder via RS485. Support various decode protocols to allow the PTZ to control the speed dome.
- Intelligent operation: Mouse operation function, in the menu, support copy and paste setup function
- **UpnP:** It is to establish the mapping relationship between the LAN and the WAN via the UPnP protocol.

Slight function differences may be found due to different series.

1.3 Specifications

1.3.1 Midi Security Kit PRO FullHD1080P TX-51

	Parameters	
System	Main Processor	Industrial embedded micro controller
	OS	Embedded LINUX
Video Parameters	Video Encode Standard	H.264
	Encode Resolution	1080P /720P/D1/HD1/2CIF/CIF/QCIF
	Video Frame Rate	PAL:1~25f/s; NTSC: 1~30f/s
	Video Frame Rate	2048Kbps-6144Kbps,
		For 1080P: default setup is 4Mbps, max supports 6Mbps
	Bit Stream Type	Video stream/composite stream
	Dual-Stream	Support
Audio Parameters	Encode Standard	G.711A/G.711U/PCM
	Audio Sampling Rate	8KHz, 16Bit
	Audio Bit Rate	64Kbps
Video Port	Analog Video Input	4-channel, BNC port
	Network Video Input	N/A
	Video Output	1-channel VGA output,
		1-channel HDMI output (of the same video source),
		HDMI/ VGA video output at the same time.
	Loop Output	N/A
	Matrix Output	N/A
Audio Port	Audio Input	N/A
	Audio Output	N/A

	Parameters	
	Bidirectional Talk Input	N/A
Record	Record Mode	Schedule record/manual record/MD record/Alarm record
	Record Playback	Max 4-channel playback
	Backup Mode	HDD, burner, USB device, network backup
Alarm	Alarm Input	N/A
	Alarm Output	N/A
HDD	HDD Port	1 SATA port, does not support eSATA port
	One HDD Space	4T
Coomunication	Network	1 RJ45 port, 100Mbps Ethernet port
	Communication	N/A
	USB	2 USB ports
Others	Power	DC12V
	Power Consuption	≤20W (With power adapeter, no HDD)
	Working Temperature	-10 -+55
	Working Humidity	10%~90%
	Dimensions	SMART 1U case, 270mm (W) ×205mm (D) ×41mm (H)
	Weight	1.25KG(No HDD)
	Installation Mode	Desk

2 Overview and Controls

This section provides information about front panel and rear panel. When you install this series DVR for the first time, refer to this part first.

2.1 Front Panel

There is no button on the front panel of the Smart Box. There is no need to introduce the front panel.

2.1.1 Midi Security Kit PRO FullHD1080P TX-51

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





Refer to the following sheet for front panel button information.

SN	Name	Function
1	HDD status indictor light	The red light becomes on when HDD is abnormal.
2	Power indicator light	The red light becomes on when the power connection is OK.
3	Network status indicator light	The red light becomes on when the network connection is abnormal.

2.2 Rear Panel

2.2.1 Midi Security Kit PRO FullHD1080P TX-51

The rear panel of Midi Security Kit Pro TX-51 is shown as below. See Figure 2-2.

Refer to the following sheet for detailed information.



When connect the Ethernet port, use crossover cable to connect the PC and use the straight cable to connect to the switcher or router.

2.3 Connection Sample

2.3.1 Midi Security Kit PRO FullHD1080P TX-51

Refer to the following sheet for detailed information.



2.4 Remote Control (for all 3 receivers the same)

The remote control interface is shown as in Figure 2-9.

Note: remote control is not our standard accessory and it is not included in the accessory bag.



Figure 2-9

Remote Contol Functions

Serial Number	Name	Function
1	Power button	Click it to boot up or shut down the device.
2	Address	Click it to input device number, so that you can control it.
3	Forward	Various forward speeds and normal speed playback.
4	Slow play	Multiple slow play speeds or normal playback.
5	Next record	In playback mode, playback the next video.
6	Previous record	In playback mode, playback the previous video.
7	Play/Pause	In pause mode, click this button to realize normal playback.
		In normal playback click this button to pause playback.
		In real-time monitor mode, click this button to enter video search menu.
8	Reverse/pause	Reverse playback pause mode, click this button to realize normal playback.
		In reverse playback click this button to pause playback.
9	Cancel	Go back to previous menu or cancel current operation (close upper interface or control)
10	Record	Start or stop record manually
		In record interface, working with the direction buttons to select the record channel.
		Click this button for at least 1.5 seconds, system can go to the Manual Record interface.
11	Direction keys	Switch current activated control, go to left or right.
		In playback mode, click up/down button to switch playback channel. In 1-window playback mode, click left/right button to control playback speed
		Aux function(such as switch the PTZ menu, enable/disable reuse button)
12	Confirm /menu	go to default button

	key	go to the menu
13	Multiple- window switch	Switch between multiple-window and one-window.
14	Auxiliary key	In 1-ch monitor mode: pop up assistant function: PTZ control and Video color. Switch the PTZ control menu in PTZ control interface.
		In motion detection interface, working with direction keys to complete setup.
		In text mode, click it to delete character.
15	0-9 number key	Input password, channel or switch channel.
		Shift is the button to switch the input method.

2.5 Mouse Control (via the remote control)

Left	click	System pops up password input dialogue box if you have not logged in.	
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 corresponding button on the panel you can input numeral/English character (small/capitalized). Here ← 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 × y z ←
	A B C D E F G In numeral input mode: _ stands for clear and ← stands for deleting the previous numeral. O P Q R S T ⊥ U V W × Y Z ←
	When input special sign, you can click corresponding numeral in the front panel to input. For example, click numeral 1 you can input"/", or you can click the numeral in the on-screen keyboard directly.
	1 / 2 : 3 . 4 ? 5 - 6 _ 7 @ 8 # 9 % 0 & ∟ ←
Double left click mouse	Implement special control operation such as double click one item in the file list to playback the video.
	In multiple-window mode, double left click one channel to view in full-window
	Double left click current video again to go back to previous multiple-window mode.

Right click 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 selecte channel. If you are in multiple-window mode, system automatically switches to the current selecter of the current							
	View 1 View 4 ♥ PTZ ♥ Color Setting ♥ Manual 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 Installation and Connections

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

3.1 Check Unpacked DVR

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

Check the items in accordance with the list. Finally you can remove the protective film of the DVR.

3.2 About Front Panel and Rear Panel

The model label in the front panel is very important; check according to your purchase order.

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

3.3 HDD Installation

You can refer to the Appendix for recommended HDD brand. Use HDD of 7200rpm or higher.

Follow the instructions below to install hard disk.

All the figurers listed below are for reference only. Slight difference may be found on the front or rear panel.

3.3.1 Midi Security Kit PRO FullHD1080P TX-51

The series DVR has one SATA HDD.

and then turn the screws in

firmly.



1. Loosen the screws of the upper cover and side panel.	2. Fix four screws in the HDD (Turn just three rounds).	3. Place the HDD in accordance with the four holes in the bottom.
4. Turn the device upside down	5. Fix the HDD firmly.	6. Connect the HDD cable and

power cable.



7. Put the cover in accordance with the clip and then place the upper cover back.

8. Secure the screws in the rear panel and the side panel.

Important:

- You can connect the HDD data cable and the power cable first and then fix the HDD in the device.
- Pay attention to the front cover. It adopts the vertical sliding design. You need to push the clip first and then put down.

Important: You can connect the HDD data cable and the power cable first and then fix the HDD in the device. Pay attention to the front cover. It adopts the vertical sliding design. You need to push the clip first and then put down.

3.4 Connecting Power Supply

Check input voltage and device power button match or not.

We recommend you use UPS to guarantee steady operation, DVR life span, and other peripheral equipments operation such as cameras.

3.5 Connecting Video Input and Output Devices

3.5.1 Connecting Video Input

The video input interface is BNC. The input video format includes: PAL/NTSC BNC (1.0V_{P-} $_{\rm P},~75\Omega.)$

The video signal should comply with your national standards. The input video signal shall have high SNR, low distortion; low interference, natural color and suitable lightness.

Guarantee the stability and reliability of the camera signal:

The camera shall be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc. The camera and the DVR should have the same grounding to ensure the normal operation of the camera.

Guarantee stability and reliability of the transmission line

Use high quality, sound shielded BNC. Select suitable BNC model according to the transmission distance. If the distance is too long, you should use twisted pair cable, and you can add video compensation devices or use optical fiber to ensure video quality. You should keep the video signal away from the strong electromagnetic interference, especially the high tension current.

Keep connection lugs in well contact

The signal line and shielded wire should be fixed firmly and in well connection. Avoid dry joint, lap welding and oxidation.

3.5.2 Connecting Video Output

Video output includes a BNC(PAL/NTSC1.0V_{P-P}, 75 Ω) output ,a VGA output and HDMI output. System supports BNC, VGA and HDMI output at the same time.

When you are using pc-type monitor to replace the monitor, pay attention to the following points:
To defer aging, do not allow the pc monitor to run for a long time.

- Regular demagnetization will keep device maintain proper status.
- Keep it away from strong electromagnetic interference devices.

Using TV as video output device is not a reliable substitution method. You also need to reduce the working hour and control the interference from power supply and other devices. The low quality TV may result in device damage.

3.6 Connecting Audio Input & Output, Bidirectional Audio

3.6.1 Audio Input

These series products audio input port adopt BNC port. Due to high impedance of audio input, use active sound pick-up. Audio transmission is similar to video transmission. Try to avoid interference, dry joint, loose contact and it shall be away from high tension current.

3.6.2 Audio Output

The audio output signal parameter is usually over 200mv 1K Ω (BNC or RCA). It can directly connect to low impedance earphone, active sound box or amplifier-drive audio output device. If the sound box and the pick-up cannot be separated spatially, it is easy to arouse squeaking. In this case you can adopt the following measures:

- Use better sound pick-up with better directing property.
- Reduce the volume of the sound box.
- Using more sound-absorbing materials in decoration can reduce voice echo and improve acoustics environment.
- Adjust the layout to reduce happening of the squeaking.

3.7 Alarm Input and Output Connection

Read the followings before connecting.

1. Alarm input

- a. 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 DVRs or you are connecting one DVR and one other device, 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. Use the co contactor to realize the connection between the alarm output port and the load.

3. How to connect PTZ decoder

a. Ensure the decoder has the same grounding with DVR, otherwise you may not control the PTZ. Shielded twisted wire is recommended and the shielded layer is used to connect to the grounding.

b. Avoid high voltage. Ensure proper wiring and some thunder protection measures.

c. For too long signal wires, 120Ω should be parallel connected between A, B lines on the far end to reduce reflection and guarantee the signal quality.

d. "485 A, B" of DVR cannot parallel connect with "485 port" of other device.

e. The voltage between of A,B lines of the decoder should be less than 5v.

4. Make sure the front-end device has soundly earthed.

Improper grounding may result in chip damage.

3.7.1 Alarm Output Port

- Provide external power to external alarm device.
- To avoid overloading, read the following relay parameters sheet carefully.
- RS485 A/B cable is for the A/B cable of the PTZ decoder.
- T+,T-,R+,R- are four-wire double duplex RS485 port.
 T+ T-: output wire, R+ R-: input wire

Model:	JRC-27F	
Material of the touch	Silver	
Rating	Rated switch capacity	30VDC 2A, 125VAC 1A
	Maximum switch power	125VA 160W
	Maximum switch voltage	250VAC, 220VDC
	Maximum switch currency	1A
Insulation	Between touches with same polarity	1000VAC 1minute
	Between touches with different polarity	1000VAC 1minute
	Between touch and winding	1000VAC 1minute
Surge voltage	Between touches with same polarity	1500V (10×160us)
Length of open time	3ms max	

Relay Specification

Length of close time	3ms max	
Longevity	Mechanical	50×106 times (3Hz)
	Electrical	200×103 times (0.5Hz)
Temperature	-40 ~+70	

3.8 Other Interfaces

There are still other interfaces on the DVR, such as USB port.

4 Overview of Navigation and Controls

4.1 Boot up and Shutdown

4.1.1 Boot up

Before the boot up, make sure:

• The rated input voltage matches the device power on-off button. 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.

Follow the steps listed below to boot up the device.

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

4.1.2 Shutdown

Note

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

There are three ways for you to log out.

a) Main menu (**RECOMMENDED**)

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

Click OK button, you can see device shuts down.

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

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

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

4.1.3 Auto Resume after Power Failure

The system can automatically backup video and resume previous working status after power failure.

4.1.4 Replace Button Battery

Make sure to use the same battery model if possible.

We recommend replace battery regularly (such as one-year) to guarantee system time accuracy.

Note:

Before replacement, save the system setup, otherwise, you may lose the data completely!

4.2 Startup Wizard

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

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

Tips: Check the box Startup button here, system goes to startup wizard again when it boots up the next time.

Cancel	the	Startup	button,	system	goes	to tl	he lo	gin	interface	directly	when	it boots	up	the	next
time.															



Click Cancel button or Next Step button, system goes to login interface. See Figure 4-2.

System consists of four accounts:

- Username: admin. Password: admin. (administrator, local and network)
- Username: 888888. Password: 888888. (administrator, local only)
- Username: 666666. 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 (8888888) Password (
OK Cancel	Figure 4-2

Note:

For security reason, 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 4-3.

For detailed information, refer to chapter 4.10.5.1.

GENE	RAL	
General Date&Time Holiday		
Device No 8		
Video Standard (PAL)		
Pack Duration 60 min		
Realtime Play (5)min		
Auto Logout (10)min		
Navigation Bar		
Mouse Speed Slow Fast		
		Арріу
	Pre Step Next Step	Cancel

Click Next button, you can go to network interface. See Figure 4-4.

For detailed information, refer to chapter 4.9.3.

	NETWORK	
IP Version	(IPv4)	
MAC Address	(90:02:A9:BA:37:38)	
Mode	O STATIC O DHCP	
IP Address	10 . 18 . 116 . 190	
Subnet Mask		
Default Gateway		
Preferred DNS		
Alternate DNS		
мти		
U		
Default	Pre Step Next Step Cancel	
		Figure

Click Next button, you can go to Schedule interface. See Figure 4-5.

For detailed information, refer to chapter 4.10.4.1.1.



Click Finish button, system pops up a dialogue box. Click the OK button, the startup wizard is complete. See Figure 4-6.

Message		
	_	
OK		D ' 4
	OK	OK

4.3 Manual Record

4.3.1 Live Viewing

After you logged in, the system is in live viewing mode. You can see system date, time, channel name and window No. 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, refer to the display settings (Main Menu->Camera->CAM name).

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

<u>Tips</u>

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

Preview Control

The preview control function has the following features.

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

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

Preview control interface

Move you mouse to the top centre of the video of current channel, you can see system pops up the preview control interface. See Figure 4-7 and Figure 4-8. If your mouse stays in this area for more than 6 seconds and has no operation, the control bar automatically hides.



1) Realtime playback

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

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 multiplechannel.

There are two ways for you to zoom in.

Drag the mouse to select a zone, you can view an interface show as Figure 4-9.



Figure 4-9

 Put the middle button at the centre of the zone you want to zoom in, and move the mouse, you can view an interface shown as in Figure 4-10.



Figure 4-10

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

3) Manual record function

It is to backup the video of current channel to the USB device. System can not backup the video of multiple-channel at the same time.

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

4) Manual Snapshot

Click Level to snapshot 1-5 times. The snapshot file is saved on the USB device or HDD. You can go to the Search interface (chapter 4.8.1) to view.

5) Mute (For analog channel only)

Click to mute. Click again to enable audio function when preview.

Note this function is for one-window mode only or the max-size window of the 8-window mode.

6) Bidirectional talk (For digital channel only)

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

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

Click Zagain, you can cancel bidirectional talk and the bidirectional talk buttons of other digital channels become as Q.

7) Remote device (For digital channel only)

Shortcut menu. Click it to go to the remote device interface to add/delete remote device or view its corresponding information. Refer to chapter 4.10.1.1.1 for detailed information.

4.4 Right-Click Menu

On the preview interface, right click mouse, you can view menu interface shown as in Figure 4-11.

Tips

After you go to the corresponding interface, right click mouse to go back to the upper-level.



4.4.1 Window Switch

System supports 1/4-window. You can select from the dropdown list. See Figure 4-12.



Figure 4-12

4.4.2 PTZ Control

The PTZ setup is shown as in See Figure 4-13.

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 e and of the zoom, focus and iris to zoom in/out, definition and brightness.

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



In the middle of the eight direction arrows, there is a 3D intelligent positioning key. See Figure 4-14. Make sure your protocol supports this function and you need to use mouse to control.

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



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

In Figure 4-13, click to open the menu, you can set preset, tour, pattern, scan and etc. See Figure 4-15.



Refer to the following sheet for detailed information.

Note the above interface may vary due to different protocols. The button is grey and can not be selected once the current function is null. Right click mouse or click the ESC button at the front panel to go back to the Figure 4-13.

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

4.4.2.1 PTZ Function Setup

Click, you can go to the following interface to set preset, tour, pattern, and scan. See Figure 4-16.



Preset Setup

In Figure 4-16, click preset button and use eight direction arrows to adjust camera to the proper position. The interface is shown as in Figure 4-17.

Click Set button and then input preset number. Click Set button to save current preset.

	F	ντz	
Preset	Tour	Pattern	Border
		Preset	1
		C Si Del P	et) reset

Tour Setup

In Figure 4-16, click tour button.

Input tour value and preset No. Click Add preset button to add current preset to the tour. See Figure 4-18.

Tips

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



Figure 4-18

Pattern Setup

In Figure 4-16, click Pattern button and input pattern number.

Click Begin button to start direction operation. Or you can go back to Figure 4-13 to operate zoom/focus/iris/direction operation.

In Figure 4-16, click End button.

	F	Ϋ́Z	
Preset	Tour	Pattern	Border
		Pattern	1
		Er	gin) nd

Scan Setup

In Figure 4-16, 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.



In Figure 4-15, input Scan value and then click 🖼 to call a tour. Click again 🖾 to stop call.

Rotate

In Figure 4-15, click 🔁 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



system goes to the following interface. The options here are defined by the protocol. Click The aux number is corresponding to the aux on-off button of the decoder. See Figure 4-21.

	AUX	
Direct Aux		
NONE	On	Off
Aux Num		
1	On	Off

4.4.3 Color

Here you can set hue, brightness, contrast, saturation, gain, white level, color mode and etc. See Figure 4-22.

4-21

Time Period Effective Time 🖌	(Time Period 1 ▼) (00 : 00 - 24 : 00
Sharpness 🔺	8
Chroma 🔫	5 0
Brightness 🔅	5 0
Contrast 🌒	_ 50
Saturation 🏼 🎽	_ 50
Color mode EQ	····· · · · · · · · · · · · · · · · ·
Position	 8 8
Customized	Default OK Cancel Figure 4-2

Refer to the following sheet for detailed information.

Item	Note
Period	There are two periods in one day. You can set different sharpness, brightness, and contrast setup for different periods.
Effective Time	Check the box here to enable this function and then set period time.
Sharpness	The value here is to adjust the edge of the video. The value ranges from 0 to 100. The larger the value is, the clear the edge is and vice versa. Note there is noise if the value here is too high. The default value is 50 and the recommended value ranges from 40 to 60.
Brightness	It is to adjust monitor window bright. The value ranges from 0 to 100. The default value is 50.
	The larger the number, the bright the video is. When you input the value here, the bright section and the dark section of the video will be adjusted accordingly. You can use this function when the whole video is too dark or too bright. Note the video may become hazy if the value is too high. The recommended value ranges from 40 to 60.
Contrast	It is to adjust monitor window contrast. The value ranges from 0 to 100. The default value is 50. The larger the number, the higher the contrast is. You can use this function when the whole video bright is OK but the contrast is not proper. 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, 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. Note the video may not be attractive if the value is too low. The recommended value ranges from 40 to 60.
Color mode	It includes several modes such as standard, color, bright, gentle. Select a color mode, the sharpness, brightness, contrast and etc can automatically switch to corresponding setup.
EQ	Click reset button, device can automatically adjust to the best display effect.

Item	Note
Position	It is to adjust the image position on the screen.
Customized	Click it to set customized color mode.

4.4.4 Search

Refer to chapter 4.8.1 for detailed information.

4.4.5 Manual Record

Refer to chapter 4.10.4.3.1 for detailed information.

4.5 Navigation Bar

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

The navigation bar is shown as below. See Figure 4-23.



Figure 4-23

4.5.1 Main Menu

Click button to go to the main menu interface.

4.5.2 Output Screen

Select corresponding window-split mode and output channels.

4.5.3 Favorites

Click *Click*, system pops up the favorites schemes. Click one item, you can view saved favorite channel split mode and channel number. See Figure 4-24.

Note, right now the favorite scheme name after the window split mode.



4.5.6 Color

Click button System goes to the color interface. refer to chapter 4.4.3.

4.5.7 Search

Click button Keystem goes to search interface. Refer to chapter 4.8.1

4.5.8 Alarm Status

Click button (1), system goes to alarm status interface. It is to view device status and channel status. Refer to chapter 4.10.3.

4.5.9 Channel Info

Click button system goes to the channel information setup interface. It is to view information of the corresponding channel. See Figure 4-25.

		_							
Channel	Motion	Video Loss	Tampering	Record Statu	s Record Mode	Resolution	Frame Rate	Bit Rate(K	
1	0	A	0		Regular	1280*720	25	56	
	Ö	Ā	(Ö)		Regular	1280*720	25	58	
	0	Ā	0		Regular	1280*720	25	58	
	0		. 🔍		Regular	1280"720	25	57	
4				10.0					
Refresh									
Renest	2								Figure 2

4.5.10 Remote Device

Click system goes to an interface for you to view remote device information. Refer to chapter 4.10.1.1

4.5.11 Network

Click , system goes to the network interface. It is to set network IP address, default gateway and etc. Refer to chapter 4.10.2.

4.5.12 HDD Manager

Click System goes to the HDD manager interface. It is to view and manage HDD information. Refer to chapter 4.10.4.2.
4.5.13 USB Manager

Click , system goes to the USB Manager interface. It is to view USB information, backup and update. Refer to chapter 4.8.2, chapter 4.9.4, chapter 4.10.5.7, and chapter 4.10.5.9 for detailed information.

4.6 USB Device Auto Pop-up

After you inserted the USB device, system can auto detect it and pop up the following dialogue box. It allows you to conveniently backup file, log, configuration or update system. See Figure 4-26. Refer to chapter 4.8.2, chapter 4.9.4, chapter 4.10.5.7, and chapter 4.10.5.9 for detailed information.



4.7 Main Menu

The main menu interface is shown as below. See Figure 4-27.



4.8 Operation

4.8.1 Search

Click search button in the main menu, search interface is shown as below. See Figure 4-28.

Usually there are three file types: R: Regular recording file. A: External alarm recording file.

M: Motion detection recording file



Figure 4-28

Refer to the following sheet for more information.

SN	Name	Function
1	Display window	 Here is to display the searched picture or file. Support 1/4/8-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, connect the corresponding peripheral device. You can view all record files of the root directory of the peripheral device. Click the Browse button; you can select the file you want to play. Important Redundancy HDD does not support picture backup function, but it
		supports picture playback function. You can select to play from redundancy HDD if there are pictures on the redundancy HDD.
3	Calendar	 The blue highlighted date means there is picture or file. Otherwise, there is no picture or file. In any play mode, click the date you want to see, you can see the corresponding record file trace in the time bar.
4	Playback mode and channel selection pane.	 ●Playback mode: 1/4/9. (It may vary due to different series.) ◇ In 1-window playback mode: you can select 1-16 channels. ◇ In 4-window playback mode: you can select 4 channels according to your requirement. ◇ In 9-window playback mode, you can switch between 1-8 and 9-16 channels. ●The time bar will change once you modify the playback mode or the channel option.
5	Card number search	The card number search interface is shown as below. Here you can view card number/field setup bar. You cam implement advanced search.

6	Mark file list button	Click it channe product	to go to mark file list interface. You can view all mark information of current I by time. Refer to chapter 4.8.1.3 for detailed information. Note only the t of this icon supports mark function.
7	File list switch button	 Double The fi The s mouse the EN You c File t record. Event of the second sec	le click it, you can view the picture/record file list of current day. le list is to display the first channel of the record file. system can display max 128 files in one time. Use the ◀ and ▶ or the to view the file. Select one item, and then double click the mouse or click TER button to playback. can input the period in the following interface to begin accurate search. ype: R—regular record; A—external alarm record; M—Motion detect file. Click the file you want to lock and click the button to lock. The file sked will not be overwritten. ch locked file: Click the button to view the locked file. n: Click button, system goes back to the calendar and channel setup ce.
		►/ II	 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
8	Playback control	•	Backward play In normal play mode, left click the button, the file begins backward play. Click it again to pause current play. In backward play mode, click ►/ II to restore normal play.
	pane.	◄ / ▶	In playback mode, click it to play the next or the previous section. You can click continuously when you are watching the files from the same channel. In normal play mode, when you pause current play, you can click ◀ and ▶ to begin frame by frame playback. In frame by frame playback mode, click ►/II to restore normal playback.
)	Slow play
			In playback mode, click it to realize various slow play modes such as slow play 1, slow play 2, and etc.
		••	Fast forward
			In playback mode, click to realize various fast play modes such as fast

		play 1,fast play 2 and etc.
		Note: The actual play speed has relationship with the software version.
		Smart search
		The volume of the playback
		Click the snapshot button in the full-screen mode, the system can snapshot 1 picture.
		System supports custom snap picture saved path. 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.
		Note this function is for some series product only. Make sure there is a mark button in the playback control pane.
		You can refer to chapter 4.8.1.3 for detailed information.
0	Time have	 It is to display the record type and its period in current search criteria. In 4-window playback mode, there are corresponding four time bars. In other playback mode, there is only one time bar. Use the mouse to click one point of the color zone in the time bar, system begins
9	nme bar	 The time bar is beginning with 0 o'clock when you are setting the configuration. The time bar zooms in the period of the current playback time when you are playing the file.
		• The green color stands for the regular record file. The red color stands for the external alarm record file. The yellow stands for the motion detect record file.
10	Time bar	•The option includes: 24H, 12H, 1H and 30M. The smaller the unit, the larger the zoom rate. You can accurately set the time in the time bar to playback the record.
10	unit	•The time bar is beginning with 0 o'clock when you are setting the configuration. The time bar zooms in the period of the current playback time when you are playing the file.
11	Backup	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 Start button to begin the backup operation. The record file(s) will be saved in the specified folder.
		 Check the file again you can cancel current selection. System max supports to display 32 files from one channel. After you clip on record file, click Backup button you can save it. For one device, if there is a backup in process, you can not start a new backup operation.
12	Clip	 It is to edit the file. 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 y see Click E You cope Note: Sys You in t 	you set, you can click Clip button again to edit the second period. You can e the slide bar restore its previous position. Backup button after clip, you can save current contents in a new file. can clip for one channel or multiple-channel. The multiple-channel click eration is similar with the one-channel operation. Stem max supports 1024 files backup at the same time. u can not operate clip operation if there is any file has been checked the file list.
13	Record type	In any p	lay mode, the time bar will change once you modify the search type.
Othe	r Functions		
14	Smart sear	ch	 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. Refer to chapter 4.8.1.1 Smart Search for detailed operation.
15	Other synchroniza switch to when playb	channel ation o play back	When playing the file, click the number button, system can switch to the same period of the corresponding channel to play.
16	Digital zoo	m	When the system is in full-screen playback mode, left click the mouse in the screen. Drag your mouse in the screen to select a section and then left click mouse to realize digital zoom. You can right click mouse to exit.
17	Manually channel playback	switch when	During the file playback process, you can switch to other channel via the dropdown list or rolling the mouse. This function is null if there is no record file or system is in smart search process.

4.8.1.1 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. Left click mouse to select smart search zones. See Figure 4-29.



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

Important

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

4.8.1.2 Accurate playback by time

Select records from one day, click the list, you can go to the file list interface. You can input time at the top right corner to search records by time. See image on the left side of the Figure 4-30 For

example, input time 11:00.00 and then click Search button , you can view all the record files after 11:00.00 (The records includes current time.). See image on the right side of the Figure 4-30 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.



4.8.1.3 Mark Playback

Make sure your purchased device support this function. You can use this function only if you can see the mark playback icon on the Search interface (Figure 4-28).

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

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

4-31. Figure 4-31

• Playback Mark

During 1-window playback mode, click mark file list button in Figure 4-28, you can go to mark file list interface. Double click one mark file, you can begin playback from the mark time.

• Play before mark time

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

Note

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

Mark Manager

Click the mark manager button on the Search interface (Figure 4-28); you can go to Mark Manager interface. See Figure 4-32. System can manage all the record mark information of current channel by default. You can view all mark information of current channel by time.



Modify

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

• Delete

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

Note

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

4.8.2 Backup

DVR support CD-RW, DVD burner, USB device backup, network download and eSATA. Here we introduce USB, eSATA backup. You can refer to Chapter 5 Web Operation for network download backup operation.

Click backup button, you can see an interface is shown as in Figure 4-33. Here is for you to view devices information.

You can view backup device name and its total space and free space. The device includes CD-RW, DVD burner, USB device, flash disk, eSATA backup.

	ВАСКИР		
Device Nan (sdc1(USB DISK)))			Browse)
0.00 KB(Space Needed) 13.78 GB/15.00	GB(Free/Total)		
Type 🛛 🖌			
Start Time 🔇 2013 - 10 - 18 00 : 00 : 00) Record CH (1		
End Time 🚯 2013 - 10 - 18 12 : 11 : 34) File Format(DAV	- Add	Remove
0 Channel Type Start Time	End Time	Size(KB)	
			(Start)

Select backup device and then set channel, file start time and end time.

Click add button, system begins search. All matched files are listed below. System automatically calculates the capacity needed and remained. See Figure 4-35.

					BACKUP			
Daviaa	Nie	6						
Device	Nai							rowse
1.26 GE	3(Sp	ace	e Needed)	13.78 GB/15.00 (GB(Free/Total)			
Туре		A	·)				
Start Ti	me		2013 - 10 - 1	10 00:00:00	Record CH	_		
The states			2010 10					
	me		2013 - 10 -	18 12 · 11 · 34			Rad	Remove
43	~	Ch	annel Type	Start Time	End Time	Size(KB)		^
1	\checkmark	1	R	13-10-14 22:00:00	13-10-14 23:00:00	48176		
2	\checkmark	1	R	13-10-14 23:00:00	13-10-15 00:00:00	48037		
3	\checkmark	1	R	13-10-15 00:00:00	13-10-15 00:28:50	22528		
4	\checkmark	1	R	13-10-15 00:28:50	13-10-15 01:00:00	24668	×.	
5	\leq	1	R	13-10-15 01:00:00	13-10-15 02:00:00	46815	1	
6	\leq	1	R	13-10-15 02:00:00	13-10-15 03:00:00	47802		
7	\leq	1	R	13-10-15 03:00:00	13-10-15 04:00:00	47566		
8	\leq	1	R	13-10-15 04:00:00	13-10-15 05:00:00	47468		
9	\leq	1	R	13-10-15 05:00:00	13-10-15 06:00:00	47358		
10	\leq	1	R	13-10-15 06:00:00	13-10-15 07:00:00	47773		
11	\leq	1	R	13-10-15 07:00:00	13-10-15 08:00:00	47229		
12	\leq	1	R	13-10-15 08:00:00	13-10-15 09:00:00	47865		
13	\leq	1	R	13-10-15 09:00:00	13-10-15 09:03:02	2780		
<u>1</u> /		1	B	12 10 15 00.05.55	12 10 15 00.57.27	10060		
							((Start)

System only backup files with a $\sqrt{}$ before channel name. You can use **Fn** or cancel button to delete $\sqrt{}$ after file serial number.

Click Start button, system begins copy. At the same time, the backup button becomes stop button. You can view the remaining time and process bar at the left bottom. See Figure 4-35.

уре	0	All 🔽						
tart Tir	ne 🤇	2013 - 10 - 1	00:00:00) Record CH(1			
nd Tir	ne 🔇	2013 - 10 - 1	8 12:11:34) File Format (DAV	$\overline{}$	Add	Remove
43		hannel Type	Start Time	End Time		Size(KB	i)	
1	1	R	13-10-14 22:00:00	13-10-14 2	3:00:00	48176		
2	✓ 1	R	13-10-14 23:00:00	13-10-15 0	0:00:00	48037		
3	✓ 1	R	13-10-15 00:00:00	13-10-15 0	0:28:50	22528		
4	✓ 1	R	13-10-15 00:28:50	13-10-15 0	1:00:00	24668		
5	✓ 1	R	13-10-15 01:00:00	13-10-15 0	2:00:00	46815		
6	1	R	13-10-15 02:00:00	13-10-15 0	3:00:00	47802		
7	1	R	13-10-15 03:00:00	13-10-15 0	4:00:00	47566		
8	1	R	13-10-15 04:00:00	13-10-15 0	5:00:00	47468		
9	1	R	13-10-15 05:00:00	13-10-15 0	6:00:00	47358		
10	1	R	13-10-15 06:00:00	13-10-15 0	7:00:00	47773		
11	1	R	13-10-15 07:00:00	13-10-15 0	8:00:00	47229		
12	1	R	13-10-15 08:00:00	13-10-15 0	9:00:00	47865		
13	1	R	13-10-15 09:00:00	13-10-15 0	9:03:02	2780		
1/	E1	P	12 10 15 00-05-55	12 10 15 0	0.57.22	10060		
				*				Stop

Figure 4-35

When the system completes backup, you can see a dialogue box prompting successful backup.

• File format: Click the file format; you can see there are two options: DAV/ASF.

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.

Tips: During backup process, you can click ESC to exit current interface for other operation. The system will not terminate backup process.

Note: When you click stop button during the burning process, the stop function becomes activated immediately. For example, if there are ten files, when you click stop system just backup five files, system only save the previous 5 files in the device (But you can view ten file names).

4.8.3 Shut Down

In Figure 4-27, select Shut Down, you can go to the following interface. See

Figure 4-36.

There are three options: Shutdown/logout/reboot. See

For the user who does not have the shut down right, input corresponding password to shut down.



4.9 Information

It is for you to view sysem info, event info, and network info and log info.

4.9.1 System Info

Here is for you to view system information. There are total four items: HDD (hard disk information), record, BPS (data stream statistics), version. See Figure 4-37.

SYSTEM EVENT INETWORK LOG HDD SATA 1 BPS VERSION
HDD SATA 1 RECORD O BPS O VERSION
1* Type Total Space Free Space Status S.M.A.R.T.
All - 232.79 GB 0.00 MB

4.9.1.1 HDD Information

Here is to list hard disk type, total space, free space, video start time and status. See Figure 4-38.

- SATA: 1 here means system max supports 1 HDD. means current HDD is normal. X means there is error. means there is no HDD. If disk is damaged, system shows as "?".Remove the broken hard disk before you add a new one.
- SN: You can view the HDD amount the device connected to. * means the second HDD is current working HDD.
- Type: The corresponding HDD properties.
- Total space: The HDD total capacity.
- Free space: The HDD free capacity.
- Status: HDD can work properly or not.
- SMART: Display HDD information. See Figure 4-38.

			INFO			
SYSTEM		ब 📑	NETWORK	🚺 LOG		
HDD RECORD BPS VERSION						
		Type	Total Space	Free Space	Status	SMART.
	All	1.00	232.79 GB	0.00 MB		
-				_	-	

Double click one HDD information; you can see the HDD SMART information. See Figure 4-39.

Port						
Modle:	ST2000VX000-1CU164					
Serial No.	W1E54HJW					
Status	Error					
Describe:						
Smart ID	Attribute	Threshold	Value	Worst	Status	-
1	Read Error Rate	6	120	99	OK	
	Spin Up Time			96	OK	
	Start/Stop Count		100	100	OK	
	Reallocated Sector Count		100	100		
	Seek Error Rate					
	Power On Hours Count			100		
	Spin-up Retry Count		100			
	Power On/Off Count		100	100		
184	Unkown Attribute	99	100	100		
	Reported Uncorrect		100	100	OK	
188	Unkown Attribute		100	100		
189	High Fly Writes		96	96		
190	Airllow Temperature Cel				Error	
	G-Sense Error Rate		100	100		
	Power-Off Retract Cycle		100	100		
-400-						

4.9.1.2 Record Info

It is to view record start time and end time. See Figure 4-40.

		INFO		
SYSTEM	📆 EVENT		🕼 LOG	
HDD				
RECORD	SATA 1			
200110	0			
822				
ERSION				
		Start Time	End Time	
	All	2013-11-08 04:37:15	2014-02-17 08:51:06	
	1*	2013-11-08 12:49:16	2013-11-08 13:13:51	
		2013-11-11 12:06:30	2013-11-11 15:39:03	
		2013-11-13 15:03:58	2013-11-13 15:41:37	
		2013-11-13 15:36:06	2013-11-15 16:27:23	
		2013-11-28 08:59:11	2013-11-28 13:16:51	
		2013-12-11 13:56:28	2013-12-11 14:28:28	
		2013-12-26 13:42:32	2013-12-27 17:45:00	
		2013-12-30 11:26:09	2013-12-30 14:56:27	
		2013-12-30 14:55:10	2013-12-31 16:38:10	
		2014-01-02 08:32:45	2014-01-02 14:41:07	
		2014-01-07 10:02:52	2014-01-07 17:28:59	
		2014-01-10 09:06:00	2014-01-10 16:34:34	
		2014-01-13 10:49:06	2014-01-13 14:35:40	

4.9.1.3 BPS Here is for you to view current video data stream (KB/s), resolution and etc. See



Figure 4-41.

Figure 4-41

4.9.1.4 Version

Here is for you to view some version information such as version number, built date, serial number and etc. See Figure 4-42.



4.9.2 Event

It is to display device status and channel status. See Figure 4-43.

		INFO
SYSTEM		
EVENT	Device Status No HDD HDD Error HDD No Space Net Disconnect IP Conflict MAC Conflict	Device(NIC No.:1,HDD No.:1)
	Channel Status Video Loss Tampering Motion Refresh	Channel(CH:4)

4.9.3 Network

4.9.3.1 Online Users

Here is for you to manage online users. See Figure 4-44.

You can disconnect one user or block one user if you have proper system right. Max disconnection setup is 65535 seconds.

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

		INFO		
SYSTEM			LOG	
ONLINE USERS	User News		lle e el e sús Tire e	Dia di tan
LOAD	admin	10.15.6.144	2013-10-21 03:26:05 PM	
TEST				
]
	Block for (60) s		

4.9.3.2 Network Load

Network load is shown as in Figure 4-45. 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.



4.9.3.3 Network Test

Network test interface is shown as in Figure 4-46.

- Destination IP: Input valid IPV4 address or 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: 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 where a state of the right panel to begin Sniffer. Click the grey stop button to stop. 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. 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	📆 EVENT		🐚 LOG		
ONLINE USERS LOAD TEST	Network Test Destination IP Test Result			Test	
	Network Sniffer	Packet Backup			
	Device Name Address	(sdc1(USB DISK)	Refresh) Browse	
	Name	IP	Sniffer Packet Size	Sniffer Packet Backup	
		10.15.6.145	0KB	1 0	
_		_	_	_	

4.9.4 Log

Here is for you to view system log file. System lists the following information. See Figure 4-47.

Log types include system operation, configuration operation, data management, alarm event, record operation, account manager, log clear, file operation and etc. It optimized reboot log. There are only three types: normal reboot, abnormal reboot and protection reboot. $0x02 \\ 0x03 \\ 0x04$ is included in the protection reboot type.

- Start time/end time: Select start time and end time, then click search button. You can view the log files in a list. System max displays 100 logs in one page. It can max save 1024 log files. Use page up/down button on the interface or the front panel to view more.
- Backup: Select a folder you want to save; you can click the backup button to save the log files. After the backup, you can see there is a folder named Log_time on the backup path. Double click the folder, you can see the log file
- Details: Click the Details button or double click the log item, you can view the detailed information. See Figure 4-48. Here you can use rolling bar to view information, or you can use Page up/Page down to view other log information.

INFO
🕞 SYSTEM 🕋 EVENT 🖗 NETWORK 👔 LOG
LOG
Type (All)
Start Time 2013 - 11 - 24 00 : 00 : 00
End Time (2013 - 11 - 25 00 : 00 : 00) (Details) (Search)
78 Log Time Event
67 2013-11-24 02:00:24 User logaed out<8888888>
68 2013-11-24 02:09:24 User logged in<8888888>
69 2013-11-24 02:10:04 User logged in<10.15.6.141>
70 2013-11-24 02:23:44 User logged out<10.15.6.141>
71 2013-11-24 02:30:44 User logged out<888888>
72 2013-11-24 04:00:04 User logged in<10.15.5.154>
73 2013-11-24 04:00:04 User lagged bir(10.15.3.1942
75 2013-11-24 04:00:04 User logged in<10:15:5:154>
76 2013-11-24 05:40:24 User logged out<10.15.5.154>
77 2013-11-24 05:40:24 User logged out<10.15.5.154>
78 2013-11-24 08:00:04 User logged in<888888>
(Backup) (Clear)
🚽 1/1 🕨 🛛 Jump To 🚹 (GO)

Select an item on the list and then click the Details button or double click the log item, you can view the detailed information such as log time, log type, log user, IP address and etc. See Figure 4-48.

_	Detailed Information		
Log Time	2013-10-21 13:46:04		
_од Туре	User Management>User logged out		
P Address User	10.18.116.89 admin		
Previous Next		OK	

4.10 Setting

It is for you to set camera, network, event, storage, system and etc.

4.10.1 Camera

Here you can set audio/video property, camera property and channel name, channel type.

4.10.1.1 Remote Device (For digital channel only)

Note: You can see this interface after you set IP channel in chapter 4.10.1.3.5. System supports ONVIF standard protocol.

4.10.1.1.1 Remote Device

In the main menu, from Camera ->Remote, you can go to an interface shown as in Figure 4-49. Here you can add/delete remote device and view its corresponding information.

- IP search: Click it to search IP address. It includes device IP address, port, device name, manufacturer, type. Use your mouse to click the item name, you can refresh display order. Click IP address, system displays IP address from small to large. Click IP address again, you can see icon, system displays IP address from large to small. You can click other items to view information conveniently.
- Add: Click it to connect to the selected device and add it to the Added device list. Support Batch add.

You can see the corresponding dialogue box if all digital-channel has connected to the front-end.

System can not add new device if the device you want to add has the same IP and TCP port as the device in the list.

- Show filter: You can use it to display the specified devices from the added device.
- Edit: Click button is or double click a device in the list, you can change channel setup.

- Delete: Select one device in the Added device list and then click it remove.
- Status: Means connection is OK and Means connection failed.
- Delete; Select a device on the Added device list, click Delete button, system disconnect device first and then remove its name from the list.
- Manual add: Click it to add the IPC manually. The port number is 37777. The default user name is admin and password is admin.

SETTING	
式 CAMERA 🚁 NETWORK 📷 EVENT 🔤 STORAGE 🛃 SYSTEM	
REMOTE Remote Status Firmware Upgrade	
IMAGE	
ENCODE 0 Edit IP Address Port Type MAC Address	M
CAM NAME	
CHANNEL TYPE	
(IP Search) Add Show Filter	
Added Device	
Channel Edit Delete Status IP Address Port Device	Name
🔲 12 🌽 🗴 🧕 172.8.1.47 37777 PZC2FS	014000
Delete Manual Add Import Export	
ОК	Apply)

Click the Manual Add button; you can go to the following interface. See Figure 4-50.

Channel number: The dropdown list here displays unconnected channel number. You can go to Figure 4-49 to set remote channel connection.

Note:

- This series product supports the IPC from many popular manufactures such as Sony, Hitachi, Axis, Samsung, Dynacolor, Arecont, Onvif and Dahua.
- System default IP address is 192.168.0.0 if you do not input IP address. System will not add current IP address.
- You can not add two or more devices in the Manual Add interface (Figure 4-50). Click O K button, system connects to the corresponding front-end device of current channel on the interface.

	Manual Add
Channel	(25
Manufacturer	Private
IP Address	(192.168.0.0
TCP Port	37777
User	admin
Password	••••
Remote Channe	1
Decoder Buffer	(280)msec
	OK Cancel

4.10.1.1.2 Channel Status

Here you can view the IPC status of the corresponding channel such as motion detect, video loss, tampering, alarm and etc. See Figure 4-51.

 IPC st alarm Conne Refres 	tatus : Front-end does not support. Front-end supports. event from current front-end. ection status : Connection succeeded. Connection failed. sh: Click it to get latest front-end channel status.	3
CAMERA		
REMOTE	Remote Status Firmware Upgrade	
IMAGE ENCODE	Device Status	
CAM NAME	Channel Status IP Address MD Video Loss Tampering Alarm In 1	
CHANNEL TYPE	11 0 172.8.1.116 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Refresh	

4.10.1.1.3 Firmware

It is to view channel, IP address, manufacturer, type, system version, SN, video input, audio input, and etc. See Figure 4-52.

CAMERA REMOTE REMOTE Remote Status Firmware Upgrade Channel IP Address Manufacturer Type System Version 10 172.8.1.17 Private 3.200 000000(11 172.8.1.116 Private 2.608 PA0E 12 172.8.1.16 Private IPC-HFW3300 2.212 PZC2
REMOTE Remote Status Firmware Upgrade IMAGE ENCODE Channel IP Address Manufacturer Type System Version CAM NAME 10 172.8.1.17 Private 3.200 000000(CHANNEL TYPE 11 172.8.1.16 Private 2.608 PA0E 12 172.8.1.47 Private IPC-HFW3300 2.212 PZC2I Image: Channel IP Address Manufacturer Type System Version 10 10 12.8.1.47 CHANNEL TYPE 12 172.8.1.47 Private IPC-HFW3300 2.2.12 PZC2I Image: Channel IP Address Image: Channel IP Address Image: Channel IP Address Image: Channel IP Address Image: Channel IP Address Image: Channel IP Address Image: Channel IP Address Image: Channel IP Address Image: Channel IP Address Image: Channel IP Address Image: Channel IP Address Image: Channel IP Address Image: Channel IP Address Image: Channel IP Address Image: Channel IP Address Image: Channel IP Addr
ENCODE CAM NAME CHANNEL TYPE CHANNEL TYPE

4.10.1.1.4 Remote Upgrade

It is to update the camera. From main menu->setting->camera->remote, the interface is shown as below. See Figure 4-53. 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 Start upgrade button to update. You can see the corresponding dialogue once the upgrade is finish.

			SETTING				
CAMERA	T NETWORK	ting t	EVENT	🔁 s	TORAGE	SYSTEM	
REMOTE	Remote	Status	Firmw	are	Upgrade		
IMAGE ENCODE	Update File					B	rowse
	Device(0/3)					Туре	None -
	Channel 10 11 12 4	Status	IP Address 172.8.1.17 172.8.1.116 172.8.1.47	Port 37777 37777 37777	Manufacturer Private Private Private	Type IPC-HFW3300	Syster 3 2 2 2 Upgrade

4.10.1.2 Camera

For analog channel, the camera interface is shown as in Figure 4-54. For digital channel, the camera interface is shown as in Figure 4-55.

- Channel: Select a channel from the dropdown list.
- Saturation: It is to adjust monitor window saturation. The value ranges from 0 to 100. The default value is 50. The larger the number, the strong the color is. This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For the grey part of the video, the distortion may occur if the white balance is not accurate. 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. 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. 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.
- Sharpness: The value here is to adjust the edge of the video. The value ranges from 0 to 100. The larger the value is, the clear the edge is and vice versa. Note there is noise if the value here is too high. The default value is 50 and the recommended value ranges from 40 to 60.
- Mirror: It is to switch video up and bottom limit. This function is disabled by default.
- Flip: It is to switch video left and right limit. This function is disabled by default.
- BLC:It includes several options: BLC/WDR/HLC/OFF.
- BLC: The device auto exposures according to the environments situation so that the darkest area of the video is cleared

- WDR: For the WDR scene, this function can lower the high bright section and enhance the brightness of the low bright section. So that you can view these two sections clearly at the same time. The value ranges from 1 to 100. When you switch the camera from no-WDR mode to the WDR mode, system may lose several seconds record video.
- HLC: After you enabled HLC function, the device can lower the brightness of the brightest section according to the HLC control level. It can reduce the area of the halo and lower the brightness of the whole video.
- ♦ OFF: It is to disable the BLC function. Note this function is disabled by default.
- Profile: It is to set the white balance mode. It has effect on the general hue of the video. This function is on by default. You can select the different scene mode such as auto, sunny, cloudy, home, office, night, disable and etc to adjust the video to the best quality.
- ♦ Auto: The auto white balance is on. System can auto compensate the color temperature to make sure the vide color is proper.
- Sunny: The threshold of the white balance is in the sunny mode.
- ♦ Night: The threshold of the white balance is in the night mode.
- Customized: You can set the gain of the red/blue channel. The value reneges from 0 to 100.
- Day/night. It is to set device color and the B/W mode switch. The default setup is auto.
- ♦ Color: Device outputs the color video.
- Auto: Device auto select to output the color or the B/W video according to the device feature (The general bright of the video or there is IR light or not.)
- ♦ B/W: The device outputs the black and white video.
- ♦ Sensor: It is to set when there is peripheral connected IR light.
- Image enhancement: It is to enhance video quality. The larger the value is, the clearer the video is. But the noise may become large too.
- 2D NR: It is to process the noise of the single image. The video may become soft after process. The larger the value is, the better the effect is.
- 3D NR: it is to process the multiple-frame (at least two frames). It is to use the frame information between the following two frames to reduce noise. The larger the value is, the better the effect is.

		SETTING			
CAMERA		T EVENT	STORAGE	SYSTEM	
IMAGE ENCODE CAM NAME CHANNEL TYPE	Channel Time Period Efective Time Saturation Brighiness Contrast Chroma Sharpness Image Enhan 20 NR 3D Denoise	1 Time Period 1	00		
	Default		Save	Cancel Apply	

Figure 4-54

		SETTING			
		EVENT 🛃		SYSTEM	
REMOTE IMAGE ENCODE	Channel	31	Config Files(Day	
CHANNEL TYPE	Iris Mirror Flip	Enable O Disable Enable Disable No Flip	Saturation Brightness Contrast Sharpness		
	3D Denoise Light Scene Mode	Enable O Disable Close Auto			
	Day & Light	Auto 🔹	Save	Cancel	Apply

4.10.1.3 Encode

It is to set video bit stream, picture bit stream, video overlay parameter and etc.

4.10.1.3.1 Video

Video setting includes the following items. See Figure 4-56.

- Channel: Select the channel you want.
- Type: 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 and MJPEG.
- Resolution: System supports various resolutions, you can select from the dropdown list. Note the option may vary due to different series.
- Frame rate: It ranges from 1f/s to 25f/s in NTSC mode and 1f/s to 30f/s in PAL mode.
- Bit rate type: System supports two types: CBR and VBR. In VBR mode, you can set video quality.
- Quality: There are six levels ranging from 1 to 6. The sixth level has the highest image quality.
- Video/audio: You can enable or disable the video/audio.
- Audio format: Select from the dropdown list. There are three options: G711a/G711u/PCM
- Audio source: Select from the dropdown list. There are two options: normal/HDCVI. For normal mode, the audio signal is from the Audio In port. For HDCVI mode, the audio signal is from the coaxial cable of the camera.

	SETTING	
CAMERA	TWORK 🔂 EVENT	STORAGE 🛃 SYSTEM
IMAGE	Encode Snapshot Over	lay
ENCODE CAM NAME	Channel (1)	
CHANNLE TYPE	Type Regular 🔻	Sub Stream1
	Compression (H.264) Resolution (720P)	(H.264)
	Frame Rate(FPS) 25	6
	Bit Rate Type	CBR
	I Frame Interval	(1S •
	Bit Rate(Kb/S) 2048	(<u>160</u>)
	Reference Bit Rate 1536-4096Kb/S	40-256Kb/S
	Audio Format G711a	
	Default Copy	Save Cancel Apply

4.10.1.3.2 Snapshot

Here you can set snapshot mode, picture size, quality and frequency. See Figure 4-57.

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

	SETTING
CAMERA	TNETWORK 📷 EVENT STORAGE 🛃 SYSTEM
IMAGE ENCODE	Encode Snapshot Overlay
CAM NAME CHANNLE TYPE	Manual Snap Channel 1 Mode Regular Image Size CIF Image Quality 4 Interval 1S Default Copy OK Cancel

4.10.1.3.3 Overlay

Overlay interface is shown as in Figure 4-58.

- Cover area: Here is for you to set cover area. You can drag you mouse to set proper section size. In one channel video, system max supports 4 zones in one channel.
- Preview/monitor: privacy mask has two types. Preview and Monitor. Preview means the privacy mask zone can not be viewed by user when system is in preview status. Monitor means the privacy mask zone can not be view by the user when system is in monitor status.
- Time display: You can select system displays time or not when you playback. 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. Click set button and then drag the title to the corresponding position in the screen.
- Copy: After you complete the setup, you can click Copy button to copy current setup to other channel(s). You can see an interface is shown as in Figure 4-59. You can see current channel number is grey. Check the number to select the channel or you can check the box ALL. Click the OK button in Figure 4-59 and Figure 4-58 respectively to complete the setup.

Hiahliaht ice	on 🔳 to	select the cor	respond	ing function.	
		SETTING		9	
CAMERA		To EVENT	STORAGE	SYSTEM	
IMAGE	Encode	Snapshot Overlay			
ENCODE CAM NAME	Channel	(1)			
CHANNLE TYPE	Cover-Area	Preview Monitor	Setup		
	Time Display Channel Display	✓ Monitor y ✓ Monitor	Setup Setup		
	Default	Сору	Save	Cancel Apply	
	_		_		Figure 4-58
		Сору	_		
AII 1	234				
		OK	Cancel		
			ouncer		Figure 4-59

4.10.1.3.4 Channel Name

It is to modify channel name. It max supports 31-character. See Figure 4-60.

	_	SETTING		
CAMERA		TR EVENT		SYSTEM
IMAGE	Cause	(0)		(21112)
ENCODE	CAM 1		CAM 2	
CAM NAME	CAM 3	CAM 3	CAM 4	(CAM 4
CHANNLE TYPE				
		•	1/1 🕨	
	Default		Save	Cancel Apply

4.10.1.3.5 Channel Type

It is to set channel type. It supports coaxial/UTP. See Figure 4-61.

	_	SETTIN	G		
CAMERA		Ta EVENT	STORAGE	SYSTEM	
REMOTE IMAGE ENCODE CAM NAME CHANNEL TYPE	Channel 1 2 3 4 			P 	pply)

4.10.2 Network

4.10.2.1 TCP/IP The interface is shown as in Figure 4-62

- 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. 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. 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.

The following MTU value is for reference only.

- 1500: Ethernet information packet max value and it is also the default value. It is the typical setup when there is no PPPoE or VPN. It is the default setup of some router, switch or the network adapter.
- ♦ 1492: Recommend value for PPPoE.
- ♦ 1468: Recommend value for DHCP.
- Preferred DNS server: DNS server IP address.
- Alternate DNS server: DNS server alternate address.
- Transfer mode: Here you can select the priority between fluency/video qualities.
- LAN download: System can process the downloaded data first if you enable this function. The download speed is 1.5X or 2.0X of the normal speed.
- LAN download: System can process the downloaded data first if you enable this function. The download speed is 1.5X or 2.0X of the normal speed.

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

SETTING	
CAMERA 👘 NETWORK 📷 EVENT 🖳 STORAGE 📑 SYSTEM	
PIP NNECTION NNECTION A NAC Address 60.02:A9:BA:37:38 Mode • STATIC O DHCP IP Address 10 15 6 144 Subnet Mask 255 255 0 0 Pofault Gateway 10 15 0 1 Alternate DNS 10 1 2 80 Alternate DNS 10 1 2 81 MTU 1500 MP Default Default Default Save Cancel Apply	NY

4.10.2.2 Connection

The connection setup interface is shown as in Figure 4-63.

- 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. Make sure the port values here do not conflict.

		SETTIN	G		_
		EVENT		SYSTEM	
TCP/IP CONNECTION WIFI 3G PPPoE DDNS IP FILTER EMAIL FTP UPnP SNMP MULTICAST REGISTER ALARM CENTRE	Max Connection TCP Port UDP Port HTTP Port HTTPS Port RTSP Port	(128 (37777 (37778) (80 (443) (554)	(0 -128) (1025 - 65535) (1025 - 65535) (1 - 65535) (128 - 65535) (128 - 65535)		
	Default		Save	Cancel A	pply

4.10.2.3 WIFI

The WIFI interface is shown as below. See Figure 4-64.

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

• WIFI working status: Here you can view current connection status. Note:

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

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

4.10.2.4 3G

3G setup interfaces is shown as below. See Figure 4-65.

Refer to the following contents for the parameter information.

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

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

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

			SETTIN	IG 💦				
To CAN	IERA	TNETWORK	To EVENT	STORAGE	SYSTEM			
	CTION	No signal						1
3G PPPol : DDNS IP FIL E EMAII FTP UPnP SNMF MULT C REGIS T	ER AST ER	Su Network Type APN AUTH Dial Number User Name User Password SG Wireless Net Module State : SIM State -	NOSERVICE NO_AUTH NO_AUTH MO_AUTH More NO_AUTH NO NO NO NO NO NO NO NO NO NO NO NO NO	2 Address - Jubnet Mask -	C Diat			2
	CENTRE	PPP State -	C	efault Gateway -	Cancel	Apply	Figur	3 e 4-65

4.10.2.5 PPPoE

PPPoE interface is shown as in Figure 4-66.

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

4.10.2.6 DDNS Setup

DDNS setup interface is shown as in Figure 4-67.

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, select DDNS type and highlight enable item. Then 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/DVR _DDNS/webtest.htm.) Now you can open DDNSServer web search page.

Note NNDS type includes: CN99 DDNS, NO-IP DDNS, Dahua 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)**.

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

2) Function Introduction

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

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

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

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

Important

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

4.10.2.7 IP Filter

IP filter interface is shown as in Figure 4-68. You can add IP in the following list. The list supports max 64 IP addresses. System supports valid address of IPv4 and IPv6. 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 DVR.

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

- Enable: Highlight the box here, you can check the trusted site function and blocked sites function. You can not see these two modes if the Enable button is grey.
- Type: You can select trusted site and blacklist from the dropdown list. You can view the IP address on the following column.
- Start address/end address: Select one type from the dropdown list, you can input IP address in the start address and end address. Now you can click Add IP address or Add IP section to add.
 - a) For the newly added IP address, it is in enable status by default. Remove the $\sqrt{}$ before the item, and then current item is not in the list.
 - b) System max supports 64 items.
 - c) Address column supports IPv4 or IPv6 format. If it is IPv6 address, system can optimize it. For example, system can optimize aa:0000: 00: 00aa: 00aa: 00aa: 00aa: 00aa as aa:: aa: aa: aa: aa: aa: aa: aa.
 - d) System automatically removes space if there is any space before or after the newly added IP address.
 - e) System only checks start address if you add IP address. System check start address and end address if you add IP section and the end address shall be larger than the start address.
 - f) System may check newly added IP address exists or not. System does not add if input IP address does not exist.
- Delete: Click it to remove specified item.
- Edit: Click it to edit start address and end address. See Figure 4-69. 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.

	SETTING
5 CAMERA	
TCP/IP CONNECTION	Enable Trusted Sites Blocked Sites
WIFI 3G PPPoE	Type Trusted Sites Start Address (Add IP Address) End Address (Add IP Segment)
DDNS IP FILTER EMAIL	Start Address End Address Edit Delete
FTP UPnP SNMP	
MULTICAST REGISTER ALARM CENTRE	
	Default OK Cancel Apply
_	Figure 4
	Edit
Start Addre	ss 10.15.6.140 123
End Addre	ss (10.15.6.145
	OK Cancel Figure 4-69

4.10.2.8 Email

The email interface is shown as below. See Figure 4-70.

- SMTP server: Input your email SMTP server IP here.
- Port: Input corresponding port value here.
- User name: Input the user name to login the sender email box.
- Password: Input the corresponding password here.
- Sender: Input sender email box here.
- Title: Input email subject here. System support English character and Arabic number. Max 32-digit.
- Receiver: 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: 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: 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.

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
To CAMERA TO EVENT STORAGE SYSTEM
TCP/IP Enable CONNECTION Enable WIFI SMTP Server 3G Anonymous PPPoE User Name DDNS IP FILTER Receiver
EMAIL Sender FTP Subject UPnP Attachment SNMP Encrypt Type MULTICAST Event Interval REGISTER Health Enable ALARM CENTRE Interval
Default Test OK Cancel Apply

4.10.2.9 FTP

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

Install Ser-U FTP SERVER first. From "start" -> "program" -> Serv-U FTP Server -> Serv-U Administrator. Now you can set user password and FTP folder. Note you need to grant write right to FTP upload user. See Figure 4-71.

Serv-U Administrator - << Local Server	>>	_ 🗆 🗙
Serv-U Administrator - << Local Server	>>	UL/DL Rati
	Add Delete Edit	ectories: Inherit
Image: Server SN_[System Administrator]	Apply Restore Down: 0.000 KBos (10: 0.000 kBos 3 of 32767 Sockets 0 (0)	Licerc 0 Yferc
Concerberror 22 [Dystein Munimistrator]		

You can use a PC or FTP login tool to test setup is right or not. For example, you can login user ZHY to H140H140H140HTU<u>FTP://10.10.7.7UT</u>H and then test it can modify or delete folder or not. See Figure 4-72.

Interne	t Explorer		
? >	To log on to t	nis FTP server, type a user name and password.	
×	FTP server:	10.10.7.7	
	<u>U</u> ser name:		
	Password:		
	After you log	on, you can add this server to your Favorites and return to it easily.	
	Log on and	nymousły	
		Log On Cancel	
			Figure 4-7

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

FTP interface is shown as in Figure 4-73.

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	PNETWORK 🙀 EVENT 🛃 STORAGE 🙀 SYSTEM	
TCP/IP CONNECTION	Enable	
WIFI 3G	Server IP 0 . 0 Port 21 User Name	
PPPoE DDNS	Password Anonymous	
IP FILTER EMAIL	Image Upload Interval (2s	
FTP		
SNMP	Channel (1) Weekday (Sun) Alarm Motion Regular	
MULTICAST	Time Period 1 (00:00 - 24:00)	
ALARM CENTRE		
	(Default) (Test) (OK) (Cancel) (Apply)	
		Figure 4-73

4.10.2.10 UPnP

The UPNP protocol is to establish a mapping relationship between the LAN and the WAN. Input the router IP address in the LAN in Figure 4-62. See Figure 4-74.

- 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 DVR.
- Add to the list: Click it to add the mapping relationship.
- Delete: Click it to remove one mapping item.

Double click one item; you can change the corresponding mapping information. See Figure 4-75.

Important:

When you are setting the router external port, 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, make sure the internal port and external port are the same to guarantee the proper data transmission.

		SETTING	G			
	TWORK	EVENT	STOF	RAGE	SYSTEM	1
TCP/IP CONNECTION WIFI 3G PPPoE DDNS IP FILTER	PAT UPnP Status S Router LAN IP WAN IP PAT Table 7 Service 1 2 HTT	Enable Disab uccess 10 . 15 . 7 0 . 0 . 0 Name	le . 165 . 0 Protocol TCP	Int.Port 80	Ext.Port 80	
EMAIL FTP UPnP SNMP MULTICAST REGISTER ALARM CENTRE	2 V TCP 3 V UDP 4 RTSI 5 RTSI 6 SNM 7 HTTI Default	Add Delete		ок 37777 37778 554 554 161 443 ОК	Cancel App	ply

	PORT INFO	_
Service Name	ТСР	
Protocol	TCP	
Int.Port	37777	
Ext.Port	(37777	
	OK Cancel	

4.10.2.11 SNMP

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

		SETTING			
		To EVENT	STORAGE	SYSTEM	
TCP/IP CONNECTION					
3G	SNMP Port				
DDNS	Read-Community Write-Community	public private			
IP FILTER	Trap Address				
FTP					
UPnP SNMP					
MULTICAST					
ALARM CENTRE					
	Default		Save	Cancel	
	Deladir				

You can set in the following interface. See Figure 4-76.

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, DVR-SNMP-MIB) to connect to the device. You can get the device corresponding configuration information after successfully connection.

Follow the steps listed below to configure.

- In Figure 4-76, 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. Set the corresponding version for your future reference.
- Open the tree list on the MG-SOFT MIB Browser; you can get the device configuration. Here you can see the device has how many video channels, audio channels, application version and etc.

Note

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

4.10.2.12 Multicast

Multicast setup interface is shown as in Figure 4-77.

Here you can set a multiple cast group. 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
-224.0.0.224.0.0.255

-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.

Note multiple cast function applies to special series only.

4.10.2.13 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 DVR 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.

Follow the steps listed below to use this function.

Set proxy server address, port, and sub-device name at the device-end. Enable the auto register function, the device can auto register to the proxy server.

1) The setup interface is shown as in Figure 4-78.

Important

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

		SETTING			
N CAMERA	TRANETWORK	To EVENT		SYSTEM	
TCP/IP CONNECTION WIFI 3G PPPoE DDNS IP FILTER EMAIL FTP UPnP SNMP MULTICAST REGISTER ALARM CENTRE	Enable No. 1 Server IP (0.0.0. Port (8000) ID (0)				
	Default		Save	Cancel	Apply

2) The proxy server software developed from the SDK. Open the software and input the global setup. 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. Do not input default port number such as the TCP port in the mapping port number. The device ID here shall be the same with the ID you input in Figure 4-78. Click Add button to complete the setup.

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

Important

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

4.10.2.14 Alarm Centre

This interface is reserved for you to develop. See Figure 4-79.



4.10.2.15 P2P

The P2P interface is shown as in Figure 4-80.

You can use you cell phone to scan the QR to add the device via the client on the cell phone. For detailed information, refer to the P2P operation manual included in the resources CD.



Figure 4-80

4.10.3 Event

4.10.3.1 Detect

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

- The video loss has no detection region and sensitivity setup and tampering has no detection region setup.
- You can see motion detect icon if current channel has enabled motion detect alarm.
- You can drag you mouse to set motion detect region. Click OK button to save current region setup. Right click mouse to exit current interface.
- For digital channel, the detect function refers to support detection function of the frontend and support local activation function. The front-end can get enable/disable status, sensitivity and region setup. You can get corresponding prompt if front-end can not get the above information. You can change front-end setup if it can get.

4.10.3.1.1 Motion Detect

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

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

- Event type: From the dropdown list you can select motion detection type.
- Channel: Select a channel from the dropdown list to set motion detect function.
- Enable: Check the box here to enable motion detect function.
- Region: Click select button, the interface is shown as in Figure 4-82. Here you can set motion detection zone. There are four zones for you to set. 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, 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 antidither 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 antidither time if system detects the local alarm again. The screen prompt, alarm upload, email and etc will not be activated. For example, if you set the anti-dither time as 10 second, you can see the each activation may last 10s if the local alarm is activated. During the process, if system detects another local alarm signal at the fifth second, the buzzer, tour, PTZ activation, snapshot, record channel will begin another 10s while the screen prompt, alarm upload, email will not be activated again. After 10s, if system detects another alarm signal, it can generate an alarm since the anti-dither time is out.
- Period: Click set button, you can see an interface is shown as in Figure 4-84. Here you can set motion detect period. System only enables motion detect operation in the specified periods. It is not for video loss or the tampering. There are two ways for you to set periods. Note system only supports <u>6 periods</u> in one day.
- ♦ In Figure 4-84, Select icon of several dates, all checked items can be edited together.

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

♦ In Figure 4-84. Click button after one date or a holiday, you can see an interface shown as in Figure 4-85. There are four record types: regular, motion detection (MD), Alarm, MD & alarm.

- Alarm output: when an alarm occurs, system enables peripheral alarm devices.
- Latch: when motion detection complete, system auto delays detecting for a specified time. The value ranges from 1-300(Unit: second)
- Show message: System can pop up a message to alarm you in the local host screen if you enabled this function.
- Alarm upload: System can upload the alarm signal to the network (including alarm centre) if you enabled current function.
- Send email: System can send out email to alert you when an alarm occurs.
- Record channel: System auto activates motion detection channel(s) to record once an alarm occurs. Make sure you have set MD record in Schedule interface(Main Menu->Setting->Schedule) and schedule record in manual record interface(Main Menu->Advanced->Manual Record)
- PTZ activation: Here you can set PTZ movement when an alarm occurs. Such as go to preset, tour & pattern when there is an alarm. Click "select" button, you can see an interface is shown as in Figure 4-83.
- Record Delay: System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
- Tour: Here you can enable tour function when alarm occurs. System one-window tour.
- Snapshot: You can enable this function to snapshoot image when a motion detect alarm occurs.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when alarm occurs.
- Test: Click it to test current motion detect setup (do not need to save). Click Select button after Region, you can set motion detect area.

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

Note:

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

In Figure 4-82, you can left click mouse and then drag it to set a region for motion detection. Click Fn to switch between arm/withdraw motion detection. After setting, click enter button to exit.

SETTING
📆 CAMERA 🛛 👼 NETWORK 🛛 😹 EVENT 🛛 🛃 SYSTEM
DETECT Motion Detect Video Loss Tampering
ABNORMALITY Channel (1 Region Setup)
Period (Setup) Anti-dither (5)s
Alarm Out 123 Latch 10 s
Show Message 🛛 Alarm Upload 🖉 Send Email
✓Record Channel 1234
✓PTZ Activation Setup Delay 10 s
✓Tour 1234
Snapshot 1234
Buzzer
Default Copy Test Save Cancel Apply



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

4.10.3.1.2 Video Loss

In Figure 4-81, select video loss from the type list. You can see the interface is shown as in Figure 4-86. This function allows you to be informed when video loss phenomenon occurred. You can enable alarm output channel and then enable show message function.

Tips:

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

		SETTING		
SAMERA	TWORK	D EVENT	STORAGE 🛃 SYSTEM	
DETECT ALARM ABNORMALITY ALARM OUTPUT	Motion Detect Channel Enable	/ideo Loss Tamp	pering	
	Period ✔Alarm Out ✔Show Messag ✔Record Chann	Setup 123 e Alarm Upload el 1234	Latch (10s ✔Send Email	
	 ✓ PTZ Activation ✓ Tour ✓ Snapshot ✓ Buzzer 	Setup 1234 1234	Delay (10s	
	Default C	ору	Save Cancel Apply	

Refer to chapter 4.10.3.1.1 motion detection for detailed information.

4.10.3.1.3 Tampering

When someone viciously masks the lens, or the output video is in one-color due to the environments light change, the system can alert you to guarantee video continuity. Tampering interface is shown as in Figure 4-87. 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.

Refer to chapter 4.10.3.1.1 motion detection for detailed information.

Note:

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

	SETTING
CAMERA	TRANSPORT REVENT
DETECT	Motion Detect Video Loss Tampering
ALARM ABNORMALITY	Channel (1
ALARM OUTPUT	Enable 🗹 Sensitivity 🔇 🕤
	Period Setup
	✓Alarm Out 123 Latch 10 s
	Show Message 🖌 Alarm Upload 🗍 Send Email
	✓Record Channel 1234
	PTZ Activation Setup Delay 10 s
	✓Tour 1234
	Snapshot 1234
	✓Buzzer
	(Default) (Copy) (Save) (Cancel) (Apply)

4.10.3.2 Alarm

Before operation, make sure you have properly connected alarm devices such as buzzer.

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

For analog channel, the interface is shown as in Figure 4-88 and Figure 4-89.

For digital channel, there are four alarm types. See Figure 4-88 to Figure 4-91.

- 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 HDVR.
- IPC offline alarm: Once you select this item, system can generate an alarm when the frontend IPC disconnects with the local HDVR. The alarm can activate record, PTZ, snap and etc. The alarm can last until the IPC and the HDVR 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.

- Alarm in: Here is for you to select channel number.
- Type: normal open or normal close.
- PTZ activation: Here you can set PTZ movement when alarm occurs. Such as go to preset, tour& pattern when there is an alarm. Click "select" button, you can see an interface is shown as in Figure 4-92.
- Period: Click set button, you can see an interface is shown as in Figure 4-93. 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.
 - ♦ In Figure 4-93, Select icon of several dates, all checked items can be edited

together. Now the icon is shown as <u>S</u>. Click to delete a record type from one period.

- ♦ In Figure 4-93. Click button after one date or a holiday, you can see an interface shown as in Figure 4-94. There are four record types: regular, motion detection (MD), Alarm, MD & alarm.
- Anti-dither: Here you can set anti-dither time. 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.
- Show message: System can pop up a message to alarm you in the local host screen if you enabled this function.
- Alarm upload: System can upload the alarm signal to the network (including alarm centre) if you enabled current function.
- Send email: System can send out email to alert you when alarm occurs.
- Record channel: you can select proper channel to record alarm video (Multiple choices). At the same time you need to set alarm record in schedule interface (Main Menu->Setting->Schedule) and select schedule record in manual record interface (Main Menu->Advance->Manual Record).
- Latch: Here is for you to set proper delay duration. Value ranges from 10 to 300 seconds. System automatically delays specified seconds in turning off alarm and activated output after external alarm cancelled.
- Tour: Here you can enable tour function when alarm occurs. System supports 1/8-window tour. 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: System can snapshoot corresponding channel when an alarm occurs. Note the activation snapshot has the higher priority than schedule snapshot. If you have enabled these two types at the same time, system can activate the activation snapshot when alarm occurs, and otherwise system just operates the schedule snapshot.

• Buzzer: Highlight the icon to enable this function. The buzzer beeps when alarm occurs. Note, network alarm means the alarm signal from the TCP/IP. You can use NET SDK to activate network alarm. Comparing with the local alarm, there is no type, anti-dither, alarm upload function.

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



	SETTING
CAMERA	😿 NETWORK 🙀 EVENT 🍡 STORAGE 📮 SYSTEM
DETECT	Local Alarm Net Alarm IPC Ext Alarm IPC Offline
	Channel (4
ALARM OUTPUT	Enable 🗹
	Alama Cut [10] Latak (10
	Show Message
	Record Channel 1234
	PTZ Activation Setup Delay 10 s
	Snapshot 1234
	Monssel.
	Default Copy Save Cancel Apply
	Figure 4-91
	-
	PTZ Activation
CAM 1 (None 💽 0 CAM 2 (None 🔽 0
CAM 3 (None 🔽 0 CAM 4 (None 🔽 0
	OK Cancel
	Figure 4-92
	Setup
	2 4 6 8 10 12 14 16 18 20 22 24
• Mon	(Setup)
n Tue	Setup
o Thu	(Setup)
o Fri	(Setup)
🗆 Sat	Seup
Default	OK Cancel 5: 4 0.2
	Figure 4-93
	Time Period
Current Date: Con	
Period 1 (00 : 00 2	
Period 2 00 :00 +2	
Period 4 (00 : 00 - 2	
Period 5 (00 : 00 · 2) Period 5 (00 : 00 · 2)	
Сору	
	Figure 4-94

4.10.3.3 Abnormality

There are two types: HDD/Network.

- ♦ HDD: HDD error, no disk, no space. See Figure 4-95 and Figure 4-96.
- ♦ Network: Disconnection, IP conflict, MAC conflict. See Figure 4-97.
- Alarm output: Select alarm activation output port (multiple choices).
- Less than: System can alarm you when the HDD space is less than the threshold you set here (For HDD no space type only).
- Latch: Here you can set corresponding delaying time. The value ranges from 1s-300s. System automatically delays specified seconds in turning off alarm and activated output after external alarm cancelled.
- Show message: system can pop up the message in the local screen to alert you when alarm occurs.
- Alarm upload: System can upload the alarm signal to the network (including alarm centre) if you enabled current function. For disconnection event, IP conflict event and MAC conflict event, this function is null.
- Send email: System can send out email to alert you when alarm occurs.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when an alarm occurs.





		SETTIN	G		
R CAMERA		EVENT	STORAGE	SYSTEM	
DETECT	HDD	Network			
ABNORMALITY	Event Type	(Net Disconne)	•		
ALARM OUTPUT	Enable				- 1
	🖌 Alarm Out	123	Latch (10	s	
	Show Messa	ge nal M ØØØØ	Send Email		
			Delay (10	s	
			_		- 1
			Save	Cancel Apply	

4.10.3.4 Alarm Output

Here is for you to set proper alarm output such as schedule, manual.

Highlight icon to select the corresponding alarm output. After all the setups click OK button, system goes back to the previous menu. See Figure 4-98.

		JETHING	
		EVENT	STORAGE 🛃 SYSTEM
DETECT ALARM ABNORMALITY ALARM OUTPUT	Alarm Type Schedule Manual Stop Status Alarm Release	AII 1 2 3 ○ ● ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
		_	

4.10.4 Storage

It is to set HDD management, storage parameters, set record plan and record control.

4.10.4.1 Schedule

It is for you to set record plan and snapshot plan.

4.10.4.1.1 Record

Note: You need to have proper rights to implement the following operations. Make sure the HDDs have been properly installed.

After the system booted up, it is in default 24-hour regular mode. You can set record type and time in schedule interface.

In the main menu, from Setting->Storage->Schedule, you can go to schedule menu. See Figure 4-102.

Note you need to go to main menu->Setting->System->General->Holiday to set holiday date first, otherwise, there is no holiday setup item.

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

edited together. Now the icon is shown as

- ♦ ▲ Click it to delete a record type from one period.
- Record Type: 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. Note you need to go to the General interface (Main Menu->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. You can highlight Redundancy button to activate this function. Note, before enable this function, set at least one HDD as redundant. (Main menu->Setting->Storage->HDD Manager). Note this function is null if there is only one HDD.



 Period setup: Click button after one date or a holiday, you can see an interface shown as in Figure 4-103. There are four record types: regular, motion detection (MD), Alarm, MD & alarm.

Following the steps listed below to draw the period manually.

♦ Select a channel you want to set. See Figure 4-99.



Figure 4-99

♦ Set record type. See Figure 4-100.



Figure 4-100

♦ Draw manually to set record period. There are six periods in one day. See Figure 4-101.

Channel	(1	D				
• All	Regular 0 2 4	— MD 6 8	✔Alarm 10 12 14	M D&Alarm 16 18 20	22 24	
👁 Sun						\$
👁 Mon						\$
👁 Tue						\$
🗢 Wed						\$
🖸 Thu						\$
🗢 Fri						\$
🗢 Sat						\$
Holid	ay					\$
Defaul	t Copy	\supset		OK Car	ncel Ap	ply

Highlight icon to select the corresponding function. After completing all the setups click save button, system goes back to the previous menu. There are color bars for your reference. Green color stands for regular recording, yellow color stands for motion detection and red color stands for alarm recording. The white means the MD and alarm record is valid. Once you have set to record when the MD and alarm occurs, system will not record neither motion detect occurs nor the alarm occurs.



	Time Perio	d		
Current Date: Sun				
Period 1 (00:00 - 24:00) 🦲 Regular	O MD	Alarm	MD&Alarm
Period 2 00 :00 · 24: 00	Regular	□ MD	Alarm	MD&Alarm
Period 3 00 :00 - 24 : 00) 🗌 Regular		Alarm	MD&Alarm
Period 4 (00 : 00 - 24: 00) Regular	MD	Alarm	MD&Alarm
Period 5 00 :00 - 24: 00) Regular		Alarm	MD&Alarm
Period 6 00 :00 - 24: 00) Regular	D MD	Alarm	MD&Alarm
Сору				
	ue 🛛 Wed 🗋 Thu ()Fri 🗍 Sat		

Figure 4-103

4.10.4.1.1.1 Quick Setup

Copy function allows you to copy one channel setup to another. After setting in channel 1, click Copy button, you can go to interface Figure 4-104. 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.





Redundancy function allows you to memorize record file in several disks. When there is file damage occurred in one disk, there is a spare one in the other disk. You can use this function to maintain data reliability and safety.

- In the main menu, from Setting->Storage-> Schedule, you can highlight redundancy button to enable this function.
- In the main menu, from Main menu->Setting->Storage->HDD Manager, you can set one or more disk(s) as redundant. You can select from the dropdown list. System auto overwrites old files once hard disk is full.

Note only read/write disk or read-only disk can backup file and support file search function, so you need to set at least one read-write disk otherwise you can not record video.

Note

About redundancy setup:

- If current channel is not recording, current setup gets activated when the channel begin recording the next time.
- If current channel is recording now, current setup will get activated right away, the current file will be packet and form a file, then system begins recording as you have just set.

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

Playback or search in the redundant disk.

There are two ways for you to playback or search in the redundant disk.

- Set redundant disk(s) as read-only disk or read-write disk (Main menu->Setting->Storage->HDD Manager)). System needs to reboot to get setup activated. Now you can search or playback file in redundant disk.
- Dismantle the disk and play it in another PC.
 - 4.10.4.1.2 Snapshot

4.10.4.1.2.1 Schedule Snapshot

- On the preview interface, right click mouse and then select Manual->Record, or in the main menu, from Setting->Storage->Record, check the box to enable snapshot function of corresponding channels. See Figure 4-105.
- In main menu, from Setting->Camera->Encode->Snapshot interface, here you can input snapshot mode as regular, size, quality and frequency. See Figure 4-106.
- In main menu, from Setting->Camera->Encode->Schedule interface, enable snapshot function. See Figure 4-107.

Refer to the following figures for detailed information.



	SETTING	
S CAMERA	network 📷 event 📴 storage 🖳 system	
IMAGE	Encode Snapshot Overlay	
ENCODE CAM NAME	Manual Snap (1) /Time	
CHANNLE TYPE	Channel (1	
	Mode Regular •	
	Image Size	
		inguic 4 100
<u>k</u>	SETTING	
CAMERA	TNETWORK THE EVENT	
SCHEDULE	Record Snapshot	
HDD MANAGE	Channe 1 PreRecord 4	
	Regular MD Alarm MD&Alarm	
	All 0 2 4 6 8 10 12 14 16 18 20 22 24	
	□ All 0 2 4 5 8 10 12 14 16 18 20 22 24 □ Sun	
	□ All 0 2 4 6 8 10 12 14 16 18 20 22 24 □ Sun 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	All • Regular • MD • All • 2 • 4 • 6 8 10 12 14 15 18 20 22 24 • • Sun • Mon • • • • • • • • • • • • • • • •	
	All • MD • Alarm • MD & Alarm • MD & Alarm • MD & Alarm • MD & Alarm • Sun • Sun • Mon • Tue • Wed • Wed • Thu • Thu • Thu • Thu • Mon • Mon	
	All • MB gular • MD • M	
	All • Regular MD • Alarm • MD • MD • Alarm • MD • MD • Alarm • M • M • M • MD • M • M • MD • MD • MD • M • M • M • M • MD • M • M • M • M • M • M • M • M • M • M • M	
	All • Regular MD • Alarm MD&Alarm 0 2 4 6 8 10 12 14 16 18 20 22 24 O Sun • Mon • Mon • Mon	
	All 0 2 4 6 8 10 12 14 15 18 20 22 24 O Sun 0 2 4 6 8 10 12 14 15 18 20 22 24 O Sun 0 0 1	
	All 0 2 4 6 8 10 12 14 15 18 20 22 24 O Sun Image: Constraint of the second	
	All 0 2 4 6 8 10 12 14 15 18 20 22 24 o Sun 0 2 4 6 8 10 12 14 15 18 20 22 24 o Sun 0 0 12 14 15 18 20 22 24 o Mon 0	

4.10.4.1.2.2 Trigger Snapshot

Follow the steps listed below to enable the activation snapshot function. After you enabled this function, system can snapshot when the corresponding alarm occurred.

- In main menu, from Setting->Camera->Encode->Snapshot interface, here you can input snapshot mode as trigger, size, quality and frequency. See Figure 4-108.
- In main menu, from Setting->Event->Detect, enable snapshot function for specified channels (Figure 4-109).

	SETTING	
CAMERA	🗃 NETWORK 📷 EVENT 🧏 STORAGE 🛃 SYSTEM	
IMAGE	Encode Snapshot Overlay	
ENCODE CAM NAME	Manual Snap (1) · /Time	
CHANNLE TYPE	Channel (1	
	Mode (Trigger -	
	Image Size (CIF)	
	Interval (15)	
	Default Copy OK Cancel Apply	
		Figure 4-108
		-
	SETTING	
SCAMERA	😿NETWORK 📷 EVENT 💽 STORAGE 🔄 SYSTEM	
DETECT	Motion Detect Video Loss Tampering	
ABNORMALITY	Channel (1)	
	Enable	
	Region Setup	
	Period (Setup) Anti-dither (5)s	
	Show Message Alarm Upload Send Email	
	Record Channel 1234	
	PTZ Activation (Setup) Delay (10)s	
	ଔରnapshot ୩ଅଔୟ	
	Buzzer	
	(Default) (Copy) (Test) (Save) (Cancel) (Apply)	
		Eigure 4 100
		∎ Fluule 4-109

4.10.4.1.2.3 Priority

Note the activation snapshot has the higher priority than schedule snapshot. If you have enabled these two types at the same time, system can activate the activation snapshot when alarm occurs, and otherwise system just operates the schedule snapshot.

4.10.4.1.2.4 Image FTP

In the main menu, from Setting->Network->FTP, you can set FTP server information. Enable FTP function and then click save button. See Figure 4-110.

Boot up corresponding FTP server.

Enable schedule snapshot (Chapter 4.10.4.1.2.1) or activation snapshot (Chapter 4.10.4.1.2.2) first, now system can upload the image file to the FTP server.

	NETWORK	
🌀 CAMERA	👼 NETWORK 🛛 👼 EVENT 🛛 💁 STORAGE 🛛 🛃 SYSTEM	
TCP/IP CONNECTION	Enable	
WIFI 3G PPPoE DDNS	Server IP 0 0 0 Port 21 User Name	
IP FILTER EMAIL	Image Upload Interval (2 sec.	
FTP UPnP	Channei 1	Input the corresponding information here, if you just
SNMP MULTICAST	Weekday Thu Alarm Motion Regular Time Period 1 00 : 00 - 24 : 00 Image: Compare the second se	upload the image FTP.
ALARM CENTRE REGISTER	Time Period 2 (00 : 00 - 24 : 00)	
	Default Test OK Cancel	Apply
		Figure 4-110

4.10.4.2 HDD Manager

Here is for you to view and implement hard disk management. See Figure 4-111. You can see current HDD type, status, capacity and etc. The operation includes format HDD, and change HDD property (read and write/read-only/redundancy).

		SETTIN	G			
		D EVENT	ъзто	RAGE	SYSTEM	
SCHEDULE HDD MANAGE RECORD	SATA 1 O					
	Device Name SATA-1	Type Read-Write	Status • Normal	Free Spa 0.00 MB/	ace/Total Space 232.79 GB	
	Refresh F	ormat	C	ОК	Cancel Ar	oply

4.10.4.3 Record 4.10.4.3.1 Record Control



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

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

- Right click mouse and then select Manual->Record.
- In the main menu, from Setting->Storage->Record.

• In live viewing mode, click record button in the front panel or record button in the remote control.

System supports main stream and sub stream. There are three statuses: schedule/manual/stop. See Figure 4-112. Highlight icon " \bigcirc " to select corresponding channel.

- Manual: The highest priority. After manual setup, all selected channels will begin ordinary recording.
- Schedule: Channel records as you have set in recording setup (Main Menu->Setting->System->>Schedule)
- Stop: Current channel stops recording.
- All: Check All button after the corresponding status to enable/disable all-channel schedule/manual record or enable/disable all channels to stop record.

CAMERA Image: Storage Stystem Schedule Main Stream All 1 2 3 4 HDD MANAGE Schedule O O O O O O RECORD Manual O O O O O O Stop O O O Stop Stop O O Stop Stop Stop O O Stop Stop O O Stop Stop Stop O O Stop Stop O O Stop Stop O O O Stop O O O O O O Stop O				SETTING			
Schedule Hod Manage Record Main Stream All 1 2 3 4 Schedule O OOOO Stop O OOOO Stop O OOOO Manual O OOOO Stop O OOOO			F	EVENT	STORAGE	SYSTEM	_
HDD MANAGE RECORD Schedule Sc	SCHEDULE	Main Stream	All	1 2 3 4			
RECORD Manual 0 <td< td=""><td>HDD MANAGE</td><td>Schedule</td><td>0</td><td></td><td></td><td></td><td></td></td<>	HDD MANAGE	Schedule	0				
Stop 0	RECORD	Manual	0	0000			
Sub Stream Schedule O O O O Manual O O O O Stop O O O O O Stop O O O O O Shapshot Open O O O O O Stop O O O O O OK Cancel Apply		Stop	0	0000			
Schedule O O O O Manual O O O O Stop O O • • • Snapshot Open • • • • • • Stop O O O O O OK Cancel Apply		Sub Stream					
Manual O O O O Stop O O O O Snapshot Open O O O O O Stop O O O O O OK Cancel Apply		Schedule	0	0000			
Stop O O O O O O O O O O O O O O O O O O O		Manual	0	0000			
Snapshot Open • • • • • • Stop • • • • • OK Cancel Apply		Stop	0	$\circ \bullet \bullet \bullet$			
Open • • • • • Stop • • • • • OK Cancel Apply		Snapshot					
Stop 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Open	•				
OK Cancel Apply		Stop	0	0000			
OK Cancel Apply							
OK Cancel Apply							
OK Cancel Apply							
					ОК	Cancel Apr	oly)
			_	_			

4.10.4.3.2 Snapshot Operation

Check the corresponding box to enable/disable schedule snapshot function. See Figure 4-113.



Tips

You can check All button after the corresponding status to enable/disable all-channel snapshot function.

4.10.4.4 HDD Detect

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

There are two detect types:

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

4.10.4.4.1 Manual Detect

The manual detect interface is shown as below. See Figure 4-114.

Select detect type and HDD. Click start detect to begin. You can view the corresponding detect information. See Figure 4-115.





4.10.4.4.2 Detect Report

After the detect operation, you can go to the detect report to view corresponding information.

The detect report interface is shown as below. See Figure 4-116.

		SETTIN	G			
STAMERA	葥 NETWORK	To EVENT	STORAGE	SYS-	TEM	
SCHEDULE HDD MANAGE	Manual Detect	Detect Report				
RECORD	1 HDD Port	No. Detect Type	Start Time	Capacity	Error Viev	w
HDD DETECT			2014-05-13 16:35:09	1863.02 GB		

Figure 4-116

Click the item you can see the detailed information such as detect result. See Figure 4-117.



4.10.5 System

4.10.5.1 General

4.10.5.1.1 Device

General setting includes the following items. See Figure 4-118.

- Device ID: Input a corresponding device name here.
- Device No: Here you can set device number.
- 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.
- Vodeo mode: It is to set max decode mode of the analog signal. There are two options: 960H/D1. Note this item is only valid when all channels are analog modes only.
- 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.
- Real-time playback: 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.
- 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.

CAMERA TNETWORK EVENT STORAGE SYSTEM
GENERAL General Date&Time Holiday DISPLAY DISPLAY DISPLAY DISPLAY
FIZ Device No. 8 ATMPOS Device No. 8 ACCOUNT Language ENGLISH AUTO MAINTAIN Video Standard PAL IMP/EXP HDD Full Overwrite DEFAULT Pack Duration 60 UPGRADE Realtime Play 5 Mouse Speed Slow Fast
(Default) OK Cancel Apply

4.10.5.1.2 Date and Time The interface is shown as in Figure 4-119.

-

- Date format: There are three types: YYYYY-MM-DD: MM-DD-YYYYY or DD-MM-YYYY.
- Date separator: There are three denotations to separate date: dot, beeline and solidus.
 DST: Here you can set DST time and date. Here you can set start time and end time
- DST: Here you can set DST time and date. Here you can set start time and end time by setting corresponding week setup or by setting corresponding date setup.
- NTP: It is to set NTP server information.

		SETTING			
CAMERA		EVENT	STORAGE	SYSTEM	
GENERAL DISPLAY PTZ ATM.POS ACCOUNT AUTO MAINTAIN IMP.EXP DEFAULT UPGRADE	General Date Format Date Separato System Time OST DST Type Start Time End Time	Date&Time Holic (YYYY MM DC) Tim 2014 · 02 · 17 08 Day of Week O Date Jan Cast Jan Tat	tay le Format (24-HOUR 44: 16 GMT	+08:00 + Save	
	NTP Server IP Port Interval	(time.windows.com (123 (60	Manual Updat	e Cancel Apply	
					Figure 4-1

4.10.5.1.3 Holiday

Holiday setup interface is shown as in Figure 4-120. Click Add new holiday button, you can input new holiday information. See Figure 4-121. Here you can set holiday name, repeat mode and start/end time.

Note

- When you enable Holiday settings and schedule setup at the same time, holiday setting has the priority. If the selected day is a holiday, then system records as you set in holiday setting. If it is not a holiday, system records as you set in Schedule interface. Note
- Note, there is no year setup on the holiday setup. For example, if you set 30th Oct, 2012 as a holiday, then the date of 30th Oct in each year will be set as a holiday.

	SETTING
SAMERA	TINETWORK TIME EVENT STORAGE SYSTEM
GENERAL DISPLAY	General Date&Time Holiday
PTZ	1 Status Name
ATMPOS ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	1 Open • NATIONAL DAY



4.10.5.2 Display

It is to set display, TV adjust, tour, zero-channel encode, and preview favorites information.

4.10.5.2.1 Display

Display setup interface is shown as below. See Figure 4-122.

- Transparency: Here is for you to adjust transparency. The value ranges from 128 to 255.
- Channel name: Here is for you to modify channel name. System max support 25-digit (The value may vary due to different series). Note all your modification here only applies to DVR local end. You need to open web or client end to refresh channel name.
- Time display: You can select to display time or not when system is playback.
- Channel display: You can select to channel name or not when system is playback.
- Resolution: There are four options: 1920×1080, 1280×1024(default),1280×720,1024×768. Note the system needs to reboot to activate current setup.
- Image enhance: Check the box; you can optimize the margin of the preview video.
- Preview denoise: It is to reduce the video noise and make it clearer. You can set denoise level. The higher the level is, the clearer the video is.

Highlight icon 📕 to select the corresponding function.

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

	_	SETTIN	G		
CAMERA	T NETWORK	THE EVENT	STORAGE	SYSTEM	
GENERAL DISPLAY PTZ ATM/POS ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	Display GUI Transparency [Time Display [Resolution 12	Tour Zero (0% 0% 2 9 80x1024 •	Channel Favorites Channel Display 🔗 Image Enhance <table-cell></table-cell>		
	Default		Save	Cancel Apply	
					Figu

4.10.5.2.2 Tour

Here you can activate tour function. Click Setup button, you can see an interface shown as in Figure 4-123

- Enable tour: Highlight box here to enable this function.
- Interval: System supports 1/8-window tour. Input proper interval value here. The value ranges from 5-120 seconds. It is for schedule tour/alarm/motion detect tour.
- Split: You can select window split mode from the dropdown list.
- Channel group: It is to display all channel groups on current split mode. You can edit and delete a channel group here. Double click an item in the list; you can edit its channel group setup. Right now system max supports 32.
- Add: Under specified window split mode, click it to add channel group.
- Delete: Click it to remove selected channel group.
- Move up: Click it to move current selected channel up.
- Move down: Click it to move current selected channel down.
- Default: Click it to restore default setup.

Tips:

- Use mouse or Shift button to switch 🖸 and 🙆 button to enable /disable tour. 🖸 means the tour funciton is enabled and 🙆 meas tour funciton is disabled.
- On the navigation bar, click is or to enable/disable tour function.

		SETTING	
CAMERA		THE EVENT	
GENERAL DISPLAY PTZ ATM/POS ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE		EVENT STORAGE SYSTEM Tour Zero Channel Favorites Interval 5 View 1 Ochannel Group Channel Group Delete Mover un Mover un Mover forwing	
	Default	OK Cancel Apply	
			Figure 4-12

4.10.5.2.3 Zero-channel Encoding

Click zero-channel encoding button, you can go to the following interface. See Figure 4-124. Here you can enable and set zero-channel encoding function so that you can view several video sources at one channel.

- Enable: This function is disabled by default. Check the box here to enable this function so that you can control the zero-channel encoding function at the WEB.
- Compression: System default setup is H.264. You can set according to device capability.
- Resolution: The resolution value may vary due to different device capabilities. Select from the dropdown list.
- Frame rate: The frame rate value may vary due to different device capabilities. Select from the dropdown list.
- Bit Rate: The bit rate value may vary due to different device capabilities and frame rate setups. Select from the dropdown list.
- Save: Click the Save button to save current setup. If this function is disabled, you can not
 operate zero-channel encoding function at the WEB, the video is black or null even you
 operate when the function is disabled. After you enabled this function, login the Web and you

can select zero-channel encoding mode at the right corner of the interface . Select a mode; you can view the local preview video.

4.10.5.2.4 Favorites

It is for you to set and save favorites preview setup. You can select different window display modes and then select corresponding channel(s). Note for one mode, one channel can only be selected once. See Figure 4-125.

- Set channels: Click it you get channel setup information of current preview interface. For example. If you window split mode is 4 and channel setup includes channel 1/2/3/4, you can see 4 from the split dropdown list and then see channel 1/2/3/4 at the middle of the interface.
- Get channels: Click it to activate current setup. You can see current setup effect on the screen right now.
- Default: it is to restore factory default setup. For example, 1-window mode, it is to display channel 1 and 4-window mode, it is display channel 1/2/3/4.
- Save: Click it to save current setup to Favorites folder. Otherwise, you can not find current setup in the Favorites.

		SETTI	NG		- 22
CAMERA	NETWORK	To EVENT	STORAGE	SYSTEM	
GENERAL	Display	Tour Zero	Channel Favorites		
DISPLAY	Split (View 4	Ð	Get	channels) (Set chann	nels)
ATM/POS ACCOUNT AUTO MAINTAIN IMP/EXP DEFAULT UPGRADE	1 (CAM1	3 2 CAM 2	3 (CAM 3	9 4 (CAM 4)
	Default		ОК	Cancel Ap	oply

On the navigation bar, you can see the Favorites shortcut menu. You can select from the dropdown list. Click View 1, you can see the channel(s) you saved on the Favorites folder. See Figure 4-126.

Organize Favorites View 1 View 4	
	T 😌 😌 🔍 🕰 🚍 🖀 🖬 👘

Figure 4-126

4.10.5.3 PTZ

The pan/tilt/zoom setup includes the following items. Select channel first. See Figure 4-127.

- PTZ type: There are two options: local/remote. Select remote if you are connecting to the network PTZ. See Figure 4-128.
- Control mode: You can select control mode from the dropdown list. There are two options: Serial/HDCVI. For HDCVI series product, select HDCVI. The control signal is sent to the PTZ via the coaxial cable. For the serial mode, the control signal is sent to the PTZ via the RS485 port.
- Protocol: Select corresponding protocols such as PELCOD.
- Address: input corresponding PTZ address.
- Baud rate: Select baud rate. Data bit: Select data bit.
- Stop bit: Select stop bit. Parity: There are three choices: none/odd/even.

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



4.10.5.4 ATM/POS

The ATM/POS function is for financial areas. It includes Sniffer, information analysis and title overlay function. The Sniffer mode is network.

The network type interface is shown as below. See Figure 4-129.

Here we take the ATM/POS protocol to continue.

There are two types: with or without the protocol according to client's requirements.

With the protocol

For ATM/POS with the protocol, you just need to set the source IP, destination IP (sometimes you need to input corresponding port number).





Without the protocol

For the ATM/POS without the protocol, the interface is shown as in Figure 4-130. Source IP refers to host IP address that sends out information (usually it is the device host.)

Destination IP refers to other systems that receive information. Usually you do not need to set source port and target port. There are total four groups IP. The record channel applies to one group (optional) only. Six frame ID groups verification can guarantee information validity and legal.





4.10.5.5 Account

Here is for you to implement account management. See Figure 4-131 and Figure 4-132. Here you can:

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

For account management note:

- For the user account name and the user group, the string max length is 6-byte. The backspace in front of or at the back of the string is invalid. There can be backspace in the middle. The string includes the valid character, letter, number, underline, subtraction sign, and dot.
- The default user amount is 64 and the default group amount is 20. System account adopts two-level management: group and user. No limit to group or user amount.
- For group or user management, there are two levels: admin and user.
- The user name and group name can consist of eight bytes. One name can only be used once. There are four default users: admin/888888/6666666 and hidden user "default". Except user 6666, other users have administrator right.
- Hidden user "default" is for system interior use only and can not be deleted. When there is no login user, hidden user "default" automatically login. You can set some rights such as monitor for this user so that you can view some channel view without login.
- One user should belong to one group. User right can not exceed group right.
- About reusable function: this function allows multiple users use the same account to login.
- About user account and MAC. When you add a new user, you can input the MAC address of current user. Only the user of the same MAC address can access the device remotely.(MAC address is for the device of the same LAN.) If you leave MAC address item in blank when you add a new user, the user of any MAC address can access the device remotely. You can set or change MAC address when you add or modify a user. The MAC address function is also valid for PSS login. Note current function does not support IPV6.

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

ERAL User Group LAY 4 User Name Group Name Modity Delete Status MAC Ac 1 88888 admin × X Login Local 2 666666 user × Normal 3 admin admin × Login Net 4 delault user × Delault User EXP AULT RADE	CAMERA	NETW	ORK 7	EVENT	l 🔓 S	TORAG	e 📑 🦣 sys	TEM
4 User Name Group Name Modify Delete Status MAC Ad uPOS 1 858888 admin X Login Local 2 666666 user X Normal 3 admin admin X Login Net 0 MAINTAIN 4 default user X Default User EXP Aulut Adde Adde Adde Adde Adde	ENERAL SPLAY	Us	er Gr	oup				
IPOS 1 888883 admin × Login Local OUNT 2 66666 user × Normal OUNT 3 admin admin × Login Net O MAINTAIN 4 default user × Default User EXP AULT RADE	z	4	User Name	Group Name	Modify	Delete	Status	MAC Ad
IPUS 2 666666 user / X Normal OUNT 3 admin admin / X Login Net 4 default user X Default User EXP AULT RADE	11000		888888	admin	1		Login Local	
OUNT 3 admin admin / X Login Net O MAINTAIN 4 default user / X Default User EXP AULT RADE	npus	2	666666	user	1		Normal	
o MAINTAIN 4 default user 2 x DefaultUser EXP AULT RADE	DUNT	3	admin	admin	1		Login Net	
	EXP AULT RADE	10						
		Add	Jser					
(Add User)								
(Add User)								



		6	SETTI	٩G		-	-19
5 CAMERA	NETWO	DRK		2	STORAGE	SYSTEM	
GENERAL DISPLAY	Use	er Gr	oup				
PTZ ATM POS ACCOUNT AUTO MAINTAIN IMPIEXP DEFAULT UPGRADE	Add Gr	Group Nam admin user	e Modily	Delete X X	Memo administrator user group	group	

4.10.5.5.1 Add/Modify Group

Click add group button in Figure 4-132, the interface is shown as below. See Figure 4-133.

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

There are total 98 rights such as control panel, shut down, real-time monitor, playback, record, record file backup, PTZ, user account, system information view, alarm input/output setup, system setup, log view, clear log, upgrade system, control device and etc.

The modify group interface is similar to the Figure 4-133.



4.10.5.5.2 Add/Modify User

Click add user button in Figure 4-131, the interface is shown as in Figure 4-134.

Input the user name, password; select the group it belongs to from the dropdown list.

Then you can check the corresponding rights for current user.

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

The modify user interface is similar to Figure 4-134.

		Add User	
User Name (Password (Memo (Group (admin		Reusable Conlim Password User MAC	
Authority System	Playback Mo	anitor	
	SYSTEM	DISCONNECT USER 🕅 DEFAULT&UPGRADE	
PTZ COLOR		MANUAL CONTROL BACKUP EVENT ONETWORK	
CAMERA	CLEAR LOG	s Shutdown	
	_	Save Cancel	
		Figure	4-134

When you create a new user, you can input the corresponding MAC address of current user. If you leave this item in blank, any MAC address user can share this user account to login. Note system needs to check the validity of MAC. Only the 12-digit 0-f format address can pass the validity verification. System only saves small character even you input capitalized one. You can see the corresponding prompt if there is any illegal input.

4.10.5.6 Auto Maintain

Here you can set auto-reboot time and auto-delete old files setup. You can set to delete the files for the specified days. See Figure 4-135. You can select proper setup from dropdown list.

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



Figure 4-135

4.10.5.7 Config Backup

The configuration file backup interface is shown as below. See Figure 4-136.

This function allows you to import/export system configuration. You can use this function when there are several devices need the same setup.

- Export: 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, click Refresh button to view the newly added device.



4.10.5.8 Default

Click default icon, system pops up a dialogue box. You can highlight I to restore default factory setup. See Figure 4-137.

- Camera
- Network
- Event
- Storage
- System

Highlight icon 📕 to select the corresponding function.

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

Warning!

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



Figure 4-137

4.10.5.9 Update

Here is for you to view hardware features, software version, built date, release SN information and etc. You can also update system here. See Figure 4-138.

• Start: Insert the USB device that have the update file to the device and then click the Start button to begin the update.

Important: Make sure the upgrade file name shall be update.bin.



5 WEB OPERATION

Slightly difference may be found in the interface due to different series.

5.1 Network Connection

Before web client operation, check the following items:

- Network connection is right
- DVR and PC network setup is right. Refer to network setup(main menu->Setting->Network)
- Use order ping ***.***.***(* DVR IP address) to check connection is OK or not. Usually the return TTL value should be less than 255.
- Current series product supports various browsers such as Safari, fire fox browser, Google browser. Device supports multiple-channel monitor, PTZ control, DVR parameter setup on the Apple PC.

5.2 Login

Open IE and input DVR address in the address column. For example, if your DVR IP is 10.10.3.16, then input http:// 10.10.3.16 in IE address column.

System pops up warning information to ask you whether install control or not. Click Install button. See Figure 5-1.

Please ins	tall controls
Install	Cancel

Figure 5-1

After installation, the interface is shown as below. See Figure 5-2.

Input your user name and password.

Default factory name is admin and password is admin.

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


5.3 LAN Mode

For the LAN mode, after you logged in, you can see the main window. See Figure 5-3.



This main window can be divided into the following sections.

- Section 1: there are six function buttons: Live (chapter 5.4), playback (chapter 5.9) setup (chapter 5.8), info (chapter 5.8.6), alarm (chapter 5.10), and logout (chapter 0).
- Section 2: There are channel number and one button: Start all. Start all button is to enable/disable all-channel real-time monitor. Click it the button becomes yellow. See Figure 5-4.

```
Close All Figure 5-4
```

Refer to Figure 5-5 for main stream and extra stream switch information.



• Section 3: Start dialogue 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. After you enable the bidirectional talk, the Start talk button becomes End Talk button and it becomes yellow. See Figure 5-6.

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.



• Section 4: Instant record button. Click it, the button becomes yellow and system begins manual record. See Figure 5-7. Click it again, system restores previous record mode.

A Instant Record

Figure 5-7

• Section 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 5-8.

Open			? 🗙	
Look jn: [Desktop	* 📾 + 💽	•	
My Docum My Compu My Compu My Netwo Access IBI Access IBI AcL Doub BEarthLink :	ients iter rk Places M le-Click to Start Internet 30 Days Free	Norton AntiVirus ThinkVantage Technologies Wireless Manager 2008_04_08 1 CCF09042008_00000	🔁 n10C	
< File <u>n</u> ame:			> <u>O</u> pen	
Files of <u>t</u> ype:	Record files (*.*)		Cancel	

- Section 6: From the left to the right ,you can see video quality/fluency/ full screen/1window/4-window/6-window/8-window/9-window/13-window/16-window/20-window/25window/36-window.. You can set video fluency and real-time feature priority.
- Section 7: PTZ operation panel. Refer to chapter 5.5 for detailed information.
- Section 8: Image setup and alarm setup. Refer to chapter 5.6 for detailed information.
- Section 9: From left to right, it is to set video quality, video latency, full screen, 1-window, 4window.
- Section 10: Zero-channel encoding. This function allows you to view several-channel in one window. It supports 1/4-channel mode. Go to chapter 4.10.5.2.3 to enable zero-channel encoding function first.

5.4 Live

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 (10.15.6.144), channel number (1), network monitor bit stream (61Kbps) and stream type: M (Main stream)/S (Sub stream). See Figure 5-9.





Figure 5-9

On the top right corer, there are six unction buttons. See Figure 5-10.



Figure 5-10

- 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 snapshoot important video. All images are memorized in system client folder PictureDownload (default).
- 4: Audio :Turn on or off audio.(It has no relationship with system audio setup)
- 5: Close video.

5.5 PTZ

Before PTZ operation, make sure you have properly set PTZ protocol. (Refer to chapter 0).

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.

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.
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.

Parameter	Function
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	 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.



5.6 Image

Select one monitor channel video and then click Image button in section 8, the interface is shown as

Figure 5-12.

5.6.1 Image

Here you can adjust its brightness, contrast, hue and saturation. (Current channel border becomes green). Or you can click Reset button to restore system default setup.



Figure 5-12

5.7 WAN Login

In WAN mode, after you logged in, the interface is shown as below. See Figure 5-13.



Refer to the following contents for LAN and WAN login difference.

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

2) You can select different channels and different monitor modes at the bottom of the interface. See Figure 5-14.



Important

The window display mode and the channel number are by default. For example, for the 16channel, 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. Note the synchronization effect still depends on your network environments.
- For bandwidth consideration, system can not support monitor and playback at the same time. System auto closes monitor or playback interface when you are searching setup in the configuration interface. It is to enhance search speed.

5.8 Setup

5.8.1 Camera

5.8.1.1 Remote Device

Remote device interface is shown as below. See Figure 5-15.

mote Device								
No	ID Ad	drago	Dert		Davise ID	Hopufact	uror	Time
1	10.15	15.82	8086		Device ID	Onvif	ulei	Type
2 🗆	10.15	5.88	8091			Onvif		l l l l l l l l l l l l l l l l l l l
3 🗆	10.15	.6.169	8093			Onvif		
4	10.15	.6.218	80			Onvif		
5	10.15	6.247	80			Onvif		
6	10.15	.6.252	80			Onvif		
7	10.15	5.6.85	8093			Onvif		
8	10.15	5.6.86	8090			Onvif		
wice Search	Add						Display Filter	Null
Channel I	Modify Delete	Status	IP Address	Port	Device ID	Remote Channel	Manufacturer	Туре
17	2 🗢		10.15.6.99	37777	YZC3CW20700015	1	Private	IPC-HFW5100
19	2 🗢		10.15.6.218	37777	YZC3FW08600043	1	Private	IPC-HDBW5100
21	2 🗢		10.15.6.169	40009	PZB1KN00800001	1	Private	SD6X83-HN
Delete	Manual Add	Refresh						
andar Add								
Channel	18		~					
Manufacturer	Private		~					
IP Address	192.168	.0.0						
TCP Port	37777		(1~65535)					
User Name	Juni							
00011101110	admin							

Figure 5-16

Refer to the following sheet for log parameter information.

Cancel

ms (80~480)

Remote Channel No. 1 Decode Buffer 28

_

280 Save

Parameter	Function
Device search	Click Device search button, you can view the searched device information on the list. It includes device IP address, port, device name, manufacturer and type.
Add	Select a device in the list and then click Add button, system can connect the device automatically and add it to the Added device list. Or you can double click one item in the list to add a device.
Modify	Click 🖄 or any device in the Added device list, you can change the corresponding channel setup.
Delete	Click O , you can delete the remote connection of the corresponding channel.
Connection status	 Connection succeeded. 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 5-16. 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. 							

5.8.1.2 Conditions

Here you can view device property information. The setups become valid immediately after you set. See Figure 5-17 (analog channel) and Figure 5-18 (digital channel).

Conditions								
		2014-09-03 15:34:04	Channel 1		-			
			Period 🔽 00	: 00 - 24 : 00		00 : 00 - 24	: 00	
			Saturation 🖀 —	-0-50	, _	-0-	- 50	
			Brightness 🙀	-0 50) —	-0-	50	
			Contrast D	-0 50		-0-	50	
			Chroma 🌘 —	-0 50		-0-	50	
			Sharpness 🖬 - 🖯 -	1	-0)	— 1	
			Gain 🗹 🛁	-0-50		-0-	— 50	
			White Level 🗌 Low	~		ow	~	
			Color Mode	~			~	
CAM 1			Image Enhance	-0-48	. —	_0	— 48	
			2D NR	-0-42	2 -	_0	— 42	
			3D Denoise —	14	ı —(]	— 14	
Customized	Default	Cancel						
								Figure 5-17
								inguic 5 17
Conditions								1
-	1	2014-(8-08 16:24:64	Channel 31	¥				
7			Config Files Day	~				
A Contraction of the local data			Iris 💿 Enable 🤇) Disable S	Saturation	* 0	50	
		To Barrow	Mirror 🔿 Enable 🤅	Disable B	rightness	÷0	50	
Allowing and	L. John				Contrast	00	50	
				SI	harpness	0	50	
(s)	• -	Contractor statement of	3D Denoise Enable) Disable				
	1 march	- 20	Flip No Flip	×				
		-	Scene Mode Auto	×				
Campal 3	K	ALCON	Day & Light Auto	~				
Default	Save Re	rresh						E:
								Figure 5-18

Parameter	Function
Channel	Select a channel from the dropdown list.

Period		It divides one day (24 hours) to two periods. You can see different hue, brightness, and contrast for different periods.				
Hue		It is to adjust monitor video brightness and darkness level. The default value is 50.				
		The bigger the value is, the large the contrast between the bright and dark section is and vice versa.				
Brightne	SS	It is to adjust monitor window brightness. The default value is 50.				
The larger the number is , the bright the video is. Whe input the value here, the bright section and the dark sec the video will be adjusted accordingly. You can us function when the whole video is too dark or too bright. No video may become hazy if the value is too high. The ranges from 0 to 100.The recommended value ranges fr to 60.						
Contrast	t	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. 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.				
Saturatio	on	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. 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		It includes several modes such as standard, color. You can select corresponding color mode here, you can see hue, brightness, and contrast and etc will adjust accordingly.				
Auto Iris		It is to enable/disable auto iris function.				
Flip		It is to switch video up and bottom limit. This function is disabled by default.				
Mirror		It is to switch video left and right limit. This function is disabled by default.				
BLC	BLC	The device auto exposures according to the environments situation so that the darkest area of the video is cleared				

Mode	WDR	For the WDR scene, this function can lower the high bright section and enhance the brightness of the 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. Note this function is disabled by default.			
Profile		It is to set the white balance mode. It has effect on the general hue of the video. This function is on by default.			
		You can select the different scene mode such as auto, sunny, cloudy, home, office, night, disable and etc to adjust the video to the best quality.			
		• Auto: The auto white balance is on. System can auto compensate the color temperature to make sure the vide color is proper.			
		• Sunny: The threshold of the white balance is in the sunny mode.			
		 Night: The threshold of the white balance is in the night mode. 			
		• Customized: You can set the gain of the red/blue channel. The value reneges from 0 to 100.			
Day/Night		It is to set device color and the B/W mode switch. The default setup is auto.			
		Color: Device outputs the color video.			
		 Auto: Device auto select to output the color or the B/W video according to the device feature (The general bright of the video or there is IR light or not.) 			
		• B/W: The device outputs the black and white video.			
		• Sensor: It is to set when there is peripheral connected IR light.			

5.8.1.3 Encode

5.8.1.3.1 Encode

The encode interface is shown as below. See Figure 5-19.

Frankla	Openahat	Quadau	Dath	_	
Encode	Snapshot	Overlay	Path		
Channel	1	-			
Main Stream			Sub Stream		
Code-Stream Type	Regular	M	Video Enable		
Compression	H.264	M	Compression	H.264	M
Resolution	720P	×	Resolution	CIF	M
Frame Rate(FPS)	25	M	Frame Rate(FPS)	6	M
Bit Rate Type	CBR	M	Bit Rate Type	CBR	M
Bit Rate	2048	Kb/S	Bit Rate	160	Kb/S
Reference Bit Rate	0-0Kb/S		Reference Bit Rate	0-0Kb/S	
I Frame Interval	1 Second	×	I Frame Interval	1 Second	M
Audio Enable			Audio Enable		
Audio Encode	G711a	<u>×</u>	Audio Encode	G711a	M
Audio Source	NORMAL	×	Audio Source	NORMAL	M
Vatermark Enable			Watermark String		
	Сору	Save	Refresh Def	fault	

Parameter	Function				
Channel	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	System supports various resolutions, you can select from the dropdown list. The main stream supports 1080P/720P/960H/D1/HD1/2CIF/CIF/QCIF; the extra stream supports CIF/QCIF. Note the option may vary due to different series.				
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. 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.				

Audio source	Select from the dropdown list. There are two options: Normal/HDCVI. In the normal mode, the audio signal comes from the Audio In. In the HDCVI mode, the audio signal comes from the coaxial cable of the camera.
Watermark enable	This function allows you to verify the video is tampered or not. Here you can select watermark bit stream, watermark mode and watermark character. Default character is DigitalCCTV. The max length is 85-digit. The character can only include number, character and underline.

5.8.1.3.2 Snapshot

The snapshot interface is shown as in Figure 5-20.



Refer to the following sheet for detailed information.

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

5.8.1.3.3 Video Overlay

The video overlay interface is shown as in Figure 5-21.

Encode	Snapshot	Overlay	Path
	2013-	10-24 17:00:05	Channel 1
			Cover-Area
			Preview Monitor
			Channel Display Setup
			Time Display Setup
CAM 1			
Сору	Save R	efresh Default	

Refer to the following sheet for detailed information.

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

5.8.1.3.4 Path

The storage path interface is shown as in Figure 5-22.

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

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

Click the Save button to save current setup.

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

5.8.1.4 Channel Name

Here you can set channel name. See Figure 5-23.

Channel Name		
Channel 1 CAM 1	Channel 2 CAM 2 Channel 3 CAM 3 Channel 4 CAM 4	
	Save Refresh Default	
		Fig

5.8.2 Network 5.8.2.1 TCP/IP

The TCP/IP interface is shown as in Figure 5-24.

TCP/IP		
Mode	⊙ STATIC ○ DHCP	
MAC Address	90;02;a9;ba;37;38	
MTU	1500	
IP Version	IPv4	
IP Address	10 . 15 . 6 . 144	
Subnet Mask	255 . 255 . 0 . 0	
Default Gateway	10 , 15 , 0 , 1	
Preferred DNS	10 . 1 . 2 . 80	
Alternate DNS	10 , 1 , 2 , 81	
LAN Download		
	Save Refresh Default	
		Figure

Parameter	Function
Mode	 There are two modes: static mode and the DHCP mode. The IP/submask/gateway are null when you select the DHCP mode to auto search the IP. If you select the static mode, you need to set the IP/submask/gateway manually. If you select the DHCP mode, you can view the IP/submask/gateway from the DHCP. If you switch from the DHCP mode to the static mode, you need to reset the IP parameters. Besides, IP/submask/gateway and DHCP are read-only when the PPPoE dial is OK.
Mac Address	It is to display host Mac address.
IP Version	It is to select IP version. IPV4 or IPV6. You can access the IP address of these two versions.
IP Address	Use the keyboard to input the corresponding number to modify the IP address and then set the corresponding subnet mask and the default gateway.
Preferred DNS	DNS IP address.
Alternate DNS	Alternate DNS IP address.

For the IP addread alternate DNS, the	ess of IPv6 version, default gateway, preferred DNS and e 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 this function. The download speed is 1.5X or 2.0X of the normal speed.

5.8.2.2 P2P

The P2P interface is shown as in Figure 5-25.

You can scan the QR code to login the dveice in the WAN. Refer to P2P operation manual included in the resources CD for detailed information.

TCP/IP	P2P		
Enable			
Status	Not Connected	141	
	Save	Refresh	
			Eigure 5-25

5.8.2.3 Connection

The connection interface is shown as in Figure 5-26.



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

5.8.2.4 WIFI Note this function is for the device of WIFI module.

The WIFI interface is shown as in Figure 5-27.

WIFI					
WIFI Auto Connect				Search SSID	
SSID List		A			
	5310	Conned mode	Authorize Mode	Signal Intensity	
				× .	
WIFI Working Info					
Current Hotspot					
Subnet Mask					
Default Gateway					
Save	Refresh				
					F :
					Figure :

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

5.8.2.5 3G 5.8.2.5.1 CDMA/GPRS

The CDMA/GPRS interface is shown as in Figure 5-28.

DMA/GPR\$ Setup	Mobile Setup	
WLAN Type	No Service	Enable
APN		Dial/SMS Activate
AUTH	PAP	
Dial No.		
User Name		
Password		
Pulse Interval		Second
WLAN Status		
IP Address		
Wireless Signal	Search	
	Save	Refresh Default

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

you close the extra stream monitor.

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

5.8.2.5.2 Mobile

The mobile setup interface is shown as in Figure 5-29.

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

Check send SMS box and then input the phone number in the receiver column. Click is to add one receiver. Repeat the above steps you can add more phones. Select a phone number and

then click 🛄, you can delete it. Click OK button to complete the setup.

CDMA/GPRS Setup	Mobile Setup		i
Send SMS	SMS Activate	Tel Activate	
Receiver	+ Sender	+ Caller +	
	-		
Title DVR Message	e		
	Save Refresh	Default	

5.8.2.6 PPPoE

The PPPoE interface is shown as in Figure 5-30.

Input the PPPoE user name and password you get from the IPS (internet service provider) and enable PPPoE function. 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.

Note, you need to use previous IP address in the LAN to login the device. 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		
UserName		
Password		
IP Address	0.0.0	
	0.0.0	
	Save Refresh Default	
		Fi

5.8.2.7 DDNS

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

The DDNS is to set to connect the various servers so that you can access the system via the server. 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.

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

Figure 5-31

DDNS	
Cookie	
DDNS Type	Dahua DDNS 🛛
Server IP	www.quickddns.com
Domain Mode	 Default O Custom Name
Domain Name	9002A9BA3738 .quickddns.com Test
Email	(Optional)Please input email address.
	Save Refresh Default

Refer to the following sheet for detailed information.

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

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

2) Function Introduction

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

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

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

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

Important

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

5.8.2.8 IP filter

The IP filter interface is shown as in Figure 5-32.

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

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

IP Filter			
Enable	Trusted Sites O Blocked Sites		
Trusted Sit	Blocked Sites		
	IP Address	Edit	Delete
			<u>^</u>
			<u>~</u>
Add			
Add			
Save	Refresh Default		

5.8.2.9 Email

The email interface is shown as in Figure 5-33.

Email		
Email		
Enable		
SMTP Server	123 58 178 201	
Port	25	
Anonymous	**	
Liser Name		
Deserved	Vorigijangi z 1	
Password	*****	
Sender	dongqiang721@126.com	
Encrypt Type	NONE	
Subject	DVR ALERT	
Receiver	+	
	dongqiang0721@126.com	
Interval	130 Second (0~3600)	
Health Enable	60 Minute (30~1440)	
	Email Test	
	Save Refresh Default	
		1
		Figure 5-33

Parameter	Function
Enable	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.
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. 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	Check the box here to enable this function.

Parameter		Function
Update per (interval)	riod	This function allows the system to send out the test email to check the connection is OK or not. 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 a email once to test the connection is OK or not .Before the email test, save the email setup information.

5.8.2.10 FTP

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

It is to set FTP IP, port and etc for remote storage.

Refer to chapter 4.10.2.9 for detailed information.

FTP	
 Enable 	
Server IP	10 . 18 . 116 . 89 -
Port	21 *
User Name	dq
Password	•••••
Remote Directory	
File Length	65535 M
Image Upload Inte	rval 2 Second
Channel	1 •
Weekday	Thursday 💌
Time Period 1	00 : 00 - 24 : 00 🗌 Alarm 🕑 MD 🗌 Regular
Time Period 2	00 : 00 - 24 : 00 Alarm MD Regular
	FTP Test
	Save Refresh Default

5.8.2.11 UPnP

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

Here you can also add, modify or remove UPnP item. See Figure 5-35.

- 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". Click OK to begin installation.
- Enable UPnP from the Web. If your UPnP is enabled in the Windows OS, the DVR can auto detect it via the "My Network Places"

'nΡ							
	💽 Enable 🔘 (Disable					
IS							
IP	0.0.	0.0					
IP	0.0.	0.0					
Port Mapping	List						
No.		Service Name	Protocol	Internal Port	External Port	Modify	Delete
1		HTTP	TCP	80	80	2	•
2		TCP	TCP	37777	37777	2	•
3	V	UDP	UDP	37778	37778	2	•
4		RTSP	UDP	554	554	2	•
5	V	RTSP	TCP	554	554	2	•
6	v	SNMP	UDP	161	161	2	•
7	v	HTTPS	TCP	443	443	2	•
Add]						
Save	Refresh	Default					

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

5.8.2.12 SNMP

The SNMP interface is shown as in Figure 5-36.

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

Figure 5-36

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

5.8.2.13 Multicast

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

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 (224.0.0239.255.255)
Port	36666 (1~65500)
	Save Refresh Default

5.8.2.14 Auto Register

The auto register interface is shown as below. See Figure 5-38.

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 DVR 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.

Follow the steps listed below to use this function.

Set proxy server address, port, and sub-device name at the device-end. Enable the auto register function, the device can auto register to the proxy server.

Auto Register		
Enable		
Server IP	0.0.0.0	
Port	8000	
Sub-device ID	0	
	Save Refresh Default	

5.8.2.15 Alarm Centre

The alarm centre interface is shown as below. See Figure 5-39.

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

Before you use alarm centre, 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	Private 💌
Server IP	10 . 1 . 0 . 2
Port	1
Selfreport Time	Everyday 💽 at 08:00
	Save Refresh Default

5.8.2.16 HTTPS

In this interface, you can set to make sure the PC can successfully login via the HTTPS. It is to guarantee communication data security. The reliable and stable technology can secure the user information security and device safety. See Figure 5-40.

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 Certifi	cate Download Root Certificate		
Create Server Certain			
			Figure 5

5.8.2.16.1 Create Server Certificate

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

In Figure 5-40, click Create Server Certificate button, input country name, state name and etc. Click Create button. See Figure 5-41.

Note

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

Create Server Certif	icate	×
Country	AU	
State		
Locatity		
Oragnization		
Oragnization Unit		
IP or Domain Name	10.10.6.238	
	Create Cancel	
		Figure

You can see the corresponding prompt. See Figure 5-42. Now the server certificate is successfully created.

HTTPS	
Create Server Certificate Download Root Certificate	
Create Succeed	Figure 5-42

5.8.2.16.2 Download root certificate

In Figure 5-40, click Download Root Certificate button, system pops up a dialogue box. See Figure 5-43.



Click Open button, you can go to the following interface. See Figure 5-44.

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 by: Product Root CA		
Valid from 2013-6-18 to 2023-6-16		
Install Certificate	ent	
	ж	Figure 5-44

Click Install certificate button, you can go to certificate wizard. See Figure 5-45.



Click Next button to continue. Now you can select a location for the certificate. See Figure 5-46.

Certificate I	mport Wizard 🔀	
Certificato Certific	e Store ate stores are system areas where certificates are kept.	
Windov	vs can automatically select a certificate store, or you can specify a location for	
۲	Automatically select the certificate store based on the type of certificate	
0	Place all certificates in the following store	
	Certificate store:	
	Browse	
	< <u>Back</u> <u>Next</u> Cancel	Figure 5-16
		i igule 3-40

Click Next button, you can see the certificate import process is complete. See Figure 5-47.

Certificate Import Wizard	×	
	Completing the Certificate Import Wizard You have successfully completed the Certificate Import wizard.	
	You have specified the following settings: Certificate Store Selected Automatically determined by t Content Certificate	
	< Back Finish Cancel	Figure 5-47

Click Finish button, you can see system pops up a security warning dialogue box. See Figure 5-48.



Click Yes button, system pops up the following dialogue box, you can see the certificate download is complete. See Figure 5-49.



5.8.2.16.3 View and set HTTPS port

From Setup->Network->Connection, you can see the following interface. See Figure 5-50.

You can see HTTPS default value is 443.

Connection		
Max Connection	128	(0~128)
TCP Port	37777	(200~65535)
UDP Port	37778	(200~65535)
HTTP Port	80	(1~65535)
HTTPS Port	443	(128~65535)
RTSP Port	554	(128~65535)
RTSP Format	rtsp:// <user name="">:<passw< td=""><td>ord>@<ip address="">:<port>/cam/realmonitor?channel=1&subtype=0</port></ip></td></passw<></user>	ord>@ <ip address="">:<port>/cam/realmonitor?channel=1&subtype=0</port></ip>
	channel: Channel, 1-32; sub	ype: Code-Stream Type, Main Stream 0, Sub Stream 1.
	Save	fresh Default

5.8.2.16.4 Login

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

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

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

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

5.8.3 Event 5.8.3.1 Video detect 5.8.3.1.1 Motion Detect

The motion detect interface is shown as in Figure 5-51.

Motion Detect	Video Loss	Tampering			
	VIGCO 2033	rampening			
Enable	1	*			
Period	Setup				
Anti-dither	5 Secon	d(0-600)			
Region	Setup				
Desert Channel					
Record Channel					
Delay	10 Secon	d(10-300)			
PTZ Activation	Setup				
✓ Tour	1 2 3 4				
Snapshot	1 2 3 4				
Show Message	🗌 Send Email 🗹 A	larm Upload 🔲 Buzzer 🛛	Message		
	Сору	Save Ref	resh Default		
				_	

Thu	ırsday 🛛 🗠		Сору		
	00 : 00]-	24 : 00	16	
	00 : 00	-	24 : 00		
	00 : 00	-	24 : 00		
	00 : 00	-	24 : 00		
	00 ; 00]-	24 : 00		
	00 : 00	-	24 : 00		



Getup				×
	2013-10-24 17	7 09 22	Region	
			Zone Name Region1 Sensitivity 0 80 Threshold 0 0	
CAM 1			Save Cancel	
Clear Delete				Figure 5-5
PTZ Activation			×	
Channel 1	None	v	0	
Channel 2	None	~	0	
Channel 3	None	~	0	
Channel 4	None	~	0	
	Save	Cancel		
	Cave	Cancer		
				Figure 5-54

Parameter	Function
Enable	You need to check the box to enable motion detection function. Select a channel from the dropdown list.
Period	Motion detection function becomes activated in the specified periods. See Figure 5-52. There are six periods in one day. Draw a circle to enable corresponding period.
	Click OK button, system goes back to motion detection interface, click save button to exit.
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 5s to 600s.
Sensitivity	There are six levels. The sixth level has the highest sensitivity.
Region	If you select motion detection type, you can click this button to set motion detection zone. The interface is shown as in Figure 5-53. Here you can set motion detection zone. There are four zones for you to set. 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, click ENTER

Parameter	Function
	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. Note you need to set motion detect record period and go to Storage-> Schedule to set current channel as schedule record.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Alarm out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when an alarm occurs.
Latch	System can delay the alarm output for specified time after an alarm ended. The value ranges from 1s to 300s.
Show 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 check the box here to enable this function. System begins 1-wiindow or multiple-window tour display among the channel(s) you set to record when an alarm occurs.
PTZ Activation	Here you can set PTZ movement when alarm occurs. Such as go to preset X. See Figure 5-54.

5.8.3.1.2 Video Loss

The video loss interface is shown as in Figure 5-55.

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

Note video loss does not support anti-dither, sensitivity, region setup. For rest setups, refer to chapter

5.8.3.1.1 motion detect for detailed information.

Motion Detect	Video Loss Tampering
Enable	1
Period	Setup
Record Channel	1234
Delay	10 Second(10-300)
PTZ Activation	Setup
✓ Tour	1 2 3 4
Snapshot	1 2 3 4
Show Message	🗋 Send Email 🗹 Alarm Upload 📋 Buzzer 📄 Message
	Copy Save Refresh Default

5.8.3.1.3 Tampering

The tampering interface is shown as in Figure 5-56.

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

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



5.8.3.2 Alarm

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

5.8.3.2.1 Local Alarm

The local alarm interface is shown as in Figure 5-57. It refers to alarm from the local device.

Local Alarm	Net Alarm
Enable	1 Alarm name 1
Period	Setup
Anti-dither	5 Second (5-600) Type Normal Open
Record Channel	1 2 3 4
Delay	10 Second (10-300)
Alarm Out	
PTZ Activation	10 Second (1-300)
✓ Tour	1 2 3 4
Snapshot	
Show Message	🗌 Send Email 🗹 Alarm Upload 📄 Buzzer 📄 Message
	Copy Save Refresh Default
	Figure 5-5
Setup	×
	Thursday Copy
5	☑ 00 : 00 - 24 : 00
E	00 : 00 - 24 : 00
C	00 : 00 - 24 : 00
E	00 : 00 - 24 : 00
i i	00 : 00 - 24 : 00
	Save Cancel
	Figure 5-58
PT7 Activat	ion 🛛
112 40010	
Channe	el 1 None 🔽 0
Channe	al 2 None 🛛
Ohanaa	
Channe	
Channe	el 4 None 0
Γ	Save
L	Gaiter
	Figure 5-59

Parameter	Function
Enable	You need to check the box to enable this function. Select a channel from the dropdown list.
Period	This function becomes activated in the specified periods.

Parameter	Function
	There are six periods in one day. 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, 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. Note you need to set alarm record period and go to Storage-> Schedule to set current channel as schedule record.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Alarm out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when an alarm occurs.
Latch	System can delay the alarm output for specified time after an alarm ended. The value ranges from 1s to 300s.
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 check the box here to enable this function. System begins 1-wiindow or multiple-window tour display among the channel(s) you set to record when an alarm occurs.
PTZ Activation	Here you can set PTZ movement when alarm occurs. Such as go to preset X.

5.8.3.2.2 Net Alarm

The network alarm interface is shown as in Figure 5-60.

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

Local Alarm	Net Alarm	
Enable	1 Alarm name 1	
Period	Setup	
Record Channel	1 2 3 4	
Delay	10 Second (10-300)	
Alarm Out	1 2 3	
Latch	10 Second (1-300)	
PTZ Activation	Setup	
🗌 Tour	1 2 3 4	
Snapshot	1 2 3 4	
Show Message	🗌 Send Email 🔲 Buzzer 🔲 Message	
	Copy Save Refresh Default	

5.8.3.3 Abnormality

It includes two types: No disk, disk error, disk no space, net disconnection, IP conflict and MAC conflict. See Figure 5-61 and Figure 5-62.

HDD Error	Network Error	
Error Type	No HDD	
Enable		
Show Message	🗌 Send Email 🗹 Alarm Upload 🔲 Buzzer 🔲 Message	
	Save Refresh	
		Figure 5-61
HDD Error	Network Error	
Error Type	Net Disconnect	
Enable		
Show Message	Send Email 🔲 Buzzer 🔲 Message	
Record Channel	1234	
Delay	10 Second(10-300)	
	Save Refresh	
		Figure 5-62

Parameter	Function
Event Type	The abnormal events include: No disk, disk error, disk no space, net disconnection, IP conflict and MAC conflict.
	You can set one or more items here.
	Less than: You can set the minimum percentage value here (For disk not space only). The device can alarm when capacity is not sufficient.
	You need to draw a circle to enable this function.
Enable	Check the box here to enable selected function.
Alarm Out	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.

Parameter	Function
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.

5.8.4 Storage 5.8.4.1 Schedule

In this interfaces, you can add or remove the schedule record/snapshot setup. See Figure 5-63.

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

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

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



	X
Channel 2	
Channel 4	
Cancel	
	Channel 2 Channel 4 Cancel

Figure 5-65

Refer to the following sheet for detailed information.

Parameter	Function	
Channel	Select a channel from the dropdown list.	
Pre-record	Input pre-record time here. The value ranges from 0 to 30.	
Redundancy	Check the box here to enable redundancy function. 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 (Sunday to Saturday)	Click the Setup button, you can set record period. See Figure 5-64. 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. Click Save button and then exit.	
Setup (Holiday)	Click the Setup button, you can set record period. See Figure 5-64. There are six periods in one day. If you check Holiday box, current channel shall record as your holiday setup here.	
Сору	Copy function allows you to copy one channel setup to another. After setting in channel, click Copy button, you can go to interface Figure 5-65. 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.	

5.8.4.2 Local Storage

The local interface is shown as in Figure 5-66. Here you can see HDD information. You can also operate the read-only, read-write, redundancy (if there are more than on HDD) and format operation.
Device Name HDD Operation Type Status Free Space/Total Space Start Time/End Time HDD 1 Set as read-write HDD 💌 Read-Write Normal 0GB / 232.79GB 2013-11-08 04:37:53 / 2014-02-17 08:59:08 🛆
HDD 1 Set as read-write HDD 💌 Read-Write Normal 0GB / 232.79GB 2013-11-08 04:37:53 / 2014-02-17 08:59:08 🛆
Save Refresh Format

5.8.4.3 Record

The interface is shown as in Figure 5-67.

Record			
Main Stream	All 1 2 3 4		
Schedule	$\odot \odot \odot \odot \odot$		
Manual	00000		
Stop	00000		
Sub Stream			
Schedule	00000		
Manual	00000		
Stop	$\odot \odot \odot \odot \odot$		
Snapshot			
Open	$\odot \odot \odot \odot \odot$		
Stop	00000		
	Save Refrech		
	Jave Keitesii		

Refer to the following sheet for detailed information.

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.				

5.8.5 Setting 5.8.5.1 General

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

5.8.5.1.1 General

The general interface is shown as in Figure 5-68.

General	Date&Time	Holiday	i .		
Device ID	HCVR				
Device No.	8				
Language	ENGLISH	~			
Video Standard	PAL	×			
HDD Full	Overwrite	×			
Pack Duration	60	Minute			
Auto Logout	10	Minute (0-60)			
Startup Wizard					
Navigation Bar					
	Save	Refresh Def	ault		

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. Note the device needs to reboot to get the modification activated.
Video Standard	This is to display video standard such as PAL.
HDD full	Here is for you to select working mode when hard disk is full. There are two options: stop recording or rewrite. If current working HDD is overwritten or the current HDD is full while the next HDD is no empty, then system stops recording, If the current HDD is full and then next HDD is not empty, then system overwrites the previous files.
Pack duration	Here is for you to specify record duration. The value ranges from 1 to 120 minutes. Default value is 60 minutes.

5.8.5.1.2 Date and time

The date and time interface is shown as in Figure 5-69

General	Date& Time	Holiday			
Date Format	YYYY MM DD	M			
Time Format	24-HOUR	×			
Time Zone	GMT+08:00	×			
System Time	2013 - 11 - 24	11 : 04 : 18	Sync PC		
DST					
DST Type	O Date O Day of Wee	ek.			
Start Time	Jan 💌 Last We	eek 💌 Sunday	• 00 : 00		
End Time	Jan 💌 The 1st	Weel Monday	M 00 : 00		
NTP					
Server	time.windows.com	Manual Update			
Port	123	(1~65535)			
Interval	60	Minute(0~65535)			
	Save	Refresh De	lau II		

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.

5.8.5.1.3 Holiday Setup Holiday setup interface is shown as in Figure 5-70.

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

General	Date&Time	Holiday				
						Add
No.	Status	Holiday Name	Date	Period	Edit	Delete
1 0	Dpen 💌	National Day	11.24	1 day(s)	1	• •
						y.
Save	Refresh					

5.8.5.2 Display

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

5.8.5.2.1 Display

Here you can set background color and transparency level. See Figure 5-71.

Display	Tour	Zero Channel	
Resolution	1280*1024		
Transparency	Θ(+ 0%	
Time Display			
Channel Display			
Image Enhance			
	Save	Refresh Default	

Refer to the following sheet for detailed information.

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

5.8.5.2.2 Tour

The tour interface is shown as in Figure 5-72. Here you can set tour interval, split mode, motion detect tour and alarm tour mode.

Display	Tour	Zero Channel		
Enable Tour				
Interval	5	Second(5-120)		
Split	View 1	~		
	4 V Channel Gro	oup 🛆 🛨		
	1 🗹 1			
	2 🗹 2	*		
	3 🗹 3	*		
	4 🗹 4			
	<			
Motion Tour Type	View 1			
	Save	Refresh Def	ult	
			Figure	s-7 ع

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-window according to device channel amount.
Motion tour/Alarm tour	Here you can set motion detect tour/alarm tour window mode. System supports 1/8-window now.

5.8.5.2.3Zero Channel

The zero-channel interface is shown as in Figure 5-73. Here you can enable zero-channel function and set corresponding information.

Display	Tour	Zero Channel		
Enchio				
	H 264			
Resolution	CIF			
Frame Rate	25			
Bit Rate	1024	Kb/S		
	Save	Refresh Def	uit	

Refer to the following sheet for detailed information.

Parameter	Function
Enable	Check the box here to enable zero-channel function.
Compression	System supports H.264.
Resolution	Select from the dropdown list. System supports D1/CIF/QCIF and etc.
Frame rate	Select from the dropdown list. The value ranges from 1-25(PAL) or 1-30(NTSC).
Bit rate	Select from the dropdown list.

5.8.5.3 PTZ

The PTZ interface is shown as in Figure 5-74.

Before setup, 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		
Ch	annel	1	Ŧ
PT2	Z Туре	Local	~
Cor	ntrol Mode	Serial	~
Pro	otocol	PELCOD	~
Ado	dress	1	
Bau	ud Rate	9600	~
Dat	ta Bit	8	~
Sto	p Bit	1	~
Par	rity	None	~
		Сору	Save

Refer to the following sheet for detailed information.

Parameter	Function
Channel	Select speed dome connected channel.
PTZ type	There are two options: local/remote.
Control mode	You can select control mode from the dropdown list. There are two options: Serial/HDCVI. For HDCVI series product, select HDCVI. The control signal is sent to the PTZ via the coaxial cable. For the serial mode, the control signal is sent to the PTZ via the RS485 port.
Protocol	Select corresponding protocol from the dropdown list.
Address	Set corresponding dome address. Default value is 1. 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. set according to the speed dome dial switch setup.
Stop bit	Default setup is 1. Set according to the speed dome dial switch setup.
Parity	Default setup is none. Set according to the speed dome dial switch setup.

5.8.5.4 ATM/POS

The ATM/POS function is for financial areas. It includes Sniffer, information analysis and title overlay function. The Sniffer mode is network.

The network type interface is shown as below. See Figure 5-75.

Here we take the ATM/POS protocol to continue.

There are two types: with or without the protocol according to client's requirements.

With the protocol

For ATM/POS with the protocol, you just need to set the source IP, destination IP (sometimes you need to input corresponding port number).

Net						
urrent Sniffer Mode	is NET					
rotocol	ATM/POS					
verlay Mode	Preview Encode					
verlay Position	Top Left 💌					
niffer Group	Sniffer Group1					
ource IP	0.0.0.0	Source Port	0			
estination IP	0 . 0 . 0 . 0	Destination Port	0			
verlay Channel	1 2 3 4					
	Start Position	Length	Value			
Key Words1	1	0		() ()		
Key Words2	1	0		0		
Key Words3	1	0		0		
Key Words4	1	0		0		
Key Words5	1	0		@		
Key Words6	1	0		0	v	
Save	Refresh					

Without the protocol

For the ATM/POS without the protocol, the interface is shown as in Figure 5-76.

Source IP refers to host IP address that sends out information (usually it is the device host.)

Destination IP refers to other systems that receive information.

Usually you do not need to set source port and target port.

There are total four groups IP. The record channel applies to one group (optional) only.

Six frame ID groups verification can guarantee information validity and legal.

Current Sniffer Mode is NET Protocol POS Overtay Channel 1 2 3 4 Overtay Mode Y Preview Y Encode Overtay Position Top Left Source IP 0 . 0 . 0 . 0 Source Port 0 Destination IP 0 . 0 . 0 . 0 Destination Port 0 Save Refresh	Net					
Protocol POS Overlay Channel 1 2 3 4 Overlay Mode Image: Preview image: Pr	Current Sniffer Mod	e is NET				
Overlay Channel 1 2 3 4 Overlay Mode Y Preview Encode Overlay Position Top Left Image: Comparison of the comparison of t	Protocol	POS 💌				
Overlay Mode ✓ Preview ✓ Encode Overlay Position Top Left ✓ Source IP 0 . 0 .	Overlay Channel	1 2 3 4				
Overlay Position Top Left Source IP 0 0 0 Destination IP 0 0 0 Save Refresh	Overlay Mode	✓ Preview ✓ Encode				
Source IP 0 0 0 Source Port 0 Destination IP 0 0 0 Destination Port 0 Save Refresh	Overlay Position	Top Left 💌				
Destination IP 0 0 0 Destination Port 0 Save Refresh <	Source IP	0.0.0.0	Source Port	0		
Save Refresh	Destination IP	0.0.0.0	Destination Port	0		
	Save	Refresh				

5.8.5.5 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.

5.8.5.5.1 User name

In this interface you can add/remove user and modify user name. See Figure 5-77.

User	Gro	up					
SN	User Name	Group Name	User MAC	Memo	Modify	Delete	
1	666666	user		666666 user's account	2	•	Ľ
2	admin	admin		admin 's account	2	•	
3	default	user		default account	2	•	
4	uu	admin			2	•	
5	888888	admin		admin(888) 's account	2	•	
Authority							
Disconnect							
Deal fire He	-it)	-104 Deel Hare 11-	-ika-Okasaa 100 - Daal Jima Maaika-O			



Add user: It is to add a name to group and set the user rights. See Figure 5-78.

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.

Note the user rights shall not exceed the group right setup.

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

Add User				E
User Name				
Reusable				
Password				
Confirm Password				
Group	admin	~		
User MAC	: :			
Memo				
Authority				
System Manager	Playback	Monitor		
ZAII				
Account	System	Disconnect user	Default&Update	
PTZ Control	System Info	Manual Control	File Backup	
Color Setting	Storage	Event	Network	
	Clear Log	Shutdown		
	Save	Cancel		

Figure 5-78

Modify user

It is to modify the user property, belonging group, password and rights. See Figure 5-79.

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. Click the OK button to save.

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.

∕lodify User				
User Name	uu	~		
User Name	uu			
Reusable				
Memo				
Group	admin			
User MAC			3	
Modify Passwor	d			
Authority				
System Manage	er Playt	ack I	Jonitor	
AII				<u>~</u>
Account	System	Disconnect	Default&Update	
PTZ Control	System Info	Manual Control	File Backup	
Color Setting	Storage	Event	Network	
	Clear Log	Shutdown		
. L				
	Save	Cancel		
				Figur

5.8.5.5.2 Group

The group management interface can add/remove group, modify group password and etc.

Account Use Gro administrator gro user group 0 user 2 Authority Manual Control File Backup Shutdown Storage PTZ Control Account System System Info CAMERA Clear Log Default&Update Network Add Group Figure 5-80

The interface is shown as in Figure 5-80.

Add group: It is to add group and set its corresponding rights. See Figure 5-81.

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.

dd Group				×
Group Name Memo Authority				
System Mana <u>c</u>	ger Playt	back	Monitor	
AAII Account PTZ Control Color Setting CAMERA	✓System ✓System Info ✓Storage ✓Clear Log	 ✓Disconnect ✓Manual Control ✓Event ✓Shutdown 	Default&Update File Backup Network	
	Save	Cancel		Eigure 5

Modify group

Click the modify group button, you can see an interface is shown as in Figure 5-82.

/lodify Group				×
Group Name	user	~		
Group Name	user			
Memo	user group			
Authority				
System Manager	Playt	back	Monitor	
Account [PTZ Control [Color Setting [CAMERA [System System Info Storage Clear Log	Disconnect	Default&Update	
	Save	Cancel		<u> </u>

Here you can modify group information such as remarks and rights.

5.8.5.6 Auto maintain

The auto maintain interface is shown as in Figure 5-83.

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 V 30	Days ago
Manual Reboot	
Save Refresh	

5.8.5.7 Import/Export

The interface is shown as in Figure 5-84.

Import&Export		
Config Import Config E	port	
	F	igure 5-84

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.

5.8.5.8 Default

The default setup interface is shown as in Figure 5-85.

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

Default				
II All				
 Camera Set 	Network	Event		
Storage	System			
Set Default				

5.8.5.9 Upgrade

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

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

<u>Important</u>

Improper upgrade program may result in device malfunction!

Upgrade		
Select Firmware File	Browse Upgrade	

5.8.6 Info 5.8.6.1 Version

The version interface is shown as in Figure 5-87.

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



5.8.6.2 Log

Here you can view system log. See Figure 5-88.

1 2013-10-24 (9 11 04) Uwe rupped in 2 2013-59-24 (9 11 04) Uwe rupped in 3 2013-59-24 (9 22 24) Uwer rupped in 4 2013-10-24 (9 22 24) Uwer rupped in 5 me
2 2311.5502410.1503 Uner hagen n 3 2311.5502410.2223 UNer hagen n 4 23111.5502410.2229 Base
3 2013-554 00 2228 User Ingges m e 2013-154 00 2229 Bae
4 2913-15-24 0922-29 Save
5 2953-59-24 09 41 98 User logged out
8 2013-50-24.09 41.08 Uniter ingged out
7 2013-10-24 08 57 08 User togged aut
8 2013-55-24 10.04 08 User toppert in
· · · · · · · · · · · · · · · · · · ·

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.

Parameter	Function	
Clear	You can click this button to delete all displayed log files. system does not support clear by type.	Note
Backup	You can click this button to backup log files to current PC.	

5.8.6.3 Online User

The online user interface is shown as in Figure 5-89.

Online User					
No.	User Name	Group Name	IP Address	User Login Time	
1	admin	admin	10.15.9.152	2013-10-24 04:31:33 PM	~
2	admin	admin	10.15.9.152	2013-10-24 04:21:12 PM	
3	admin	admin	10.15.6.145	2013-10-24 04:50:01 PM	
Refresh					

5.9 Playback

Click Playback button, you can see an interface is shown as in Figure 5-90.



5.9.1 Search Record

Set record type, record date, window display mode and channel name.

Select Date

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

• Window Split

Select window split mode. Click ²² to display in full screen. Click ESC button to exit. See Figure 5-91.



Figure 5-91

- Select Channel
- $1{\sim}4$ means main stream and A1 ${\sim}$ A4 means sub stream.
- Select Record Type

Check the corresponding box to select record type. See Figure 5-92.



5.9.2 File List

Click File list button, you can see the corresponding files in the list. See Figure 5-93.



5.9.3 Playback

Select a file you want to play and then click Play button, system can begin playback. You can select to playback in full-screen. Note for one channel, system can not playback and download at the same time. You can use the playback control bar to implement various operations such as play, pause, stop, slow play, fast play and etc. See Figure 5-94.

WFR SERVICE										
	Live	Ріаураск	Alarm	Setup	Into	Logout				
		2014-02	⊕ × ⊴17.09.35.03			20	⊚ × 14-02-17 09:51:11	00 : 00	: 00	۹
							11 00 00 00		3 4	
								Start Time	Туре	
								08:34:59		
								08:40:03		
CAM 1			CA	M 2						
			⊛×				€×			
		2014-02	17 08:48:17			20	14-02-17 08 40:06			
								l ⊲ 1/1 ⊳ ⊳ i Ju	mp To 📘 📄	
								Start Time:		
								End Time: File Size:		
								V More	▼ Downloa	ad
									← Back	
			C/	AM 4						
	s 🔊 1x –		•					0: 00: 00 ~ 23:	59: 59	D
0 1 2			8 9 10							24
2			(163.32 (163.32 (148:17							
4			6:40:05							D
Play			🗹 All 🗹 Regu	ılar 📕 🗹 MD 📕	🗹 Alarm 📕 🔽 🤇	Card 🔲 🔍 🔍			Q	

Figure 5-94

5.9.4 Download

Select the file(s) you want to download and then click download button, you can see an interface shown as in Figure 5-95. The Download button becomes Stop button and there is a process bar for your reference. Go to you default file saved path to view the files.



5.9.5 Load more

It is for you to search record or picture. You can select record channel, record type and record time to download. Or you can use watermark function to verify file.

5.9.5.1 Download By File

Select channel, record type, bit stream type and then input start time and end time. Click Search button, the download by file interface is shown as in Figure 5-96.

All Start Time 2014 - 02 - 14 00 · 00 · 00 Search rps All Recards End Time 2014 - 02 - 17 23 · 59 · 59 Search it Stream Type Main Sub Main Sub End Time 2014 - 02 - 17 23 · 59 · 59 Search It Stream Type Main Sub File Stop End Time End Time File Type Dit Stream Type Channel 1 2014 - 02 - 17 0 / 83 - 59 2014 - 02 - 17 0 / 83 - 15 Regular Main Stream 1
pe All Records ≤ End Time 2014 - 02 - 17 23 : 59 : 59 1 Stream Type Main Sub ≤ No. File State Etaut Time End Time File Type Did Stream Type Channel 1 2014-02-17 08.3-459 2014-02-17 08.9-15 Regular Man Stream 1
No. File Size Start Time End Time File Tige Dit Stream Type Channel 1 2044KB 2014-02-17 09.39.15 Regular Main Stream 1
1 2048/8 2014-02-17 08.34.59 2014-02-17 08.39.15 Regular Main Stream 1
0 004500 0044 00 47 00 40 00 47 00 40 00 10 00 0
Li 2 8310kB 2014-02-17.0840.03 2014-02-17.08.59.08 Kegular Ikan Seeam 1
3 384KB 2014-02-17 08:34:59 2014-02-17 08:39:15 Regular Main Stream 2
4 8585KB 2014-02-17 08 40:03 2014-02-17 08 59:08 Regular Main Stream 2
5 2048KB 2014-02-17 08.34.59 2014-02-17 08.39.15 Regular Main Stream 3
6 0623KB 2014-02-17 08-40:03 2014-02-17 08:59:08 Regular Main Stream 3
T 384KB 2014-02-17 08:34:59 2014-02-17 08:39:15 Regular Main Stream 4
8 8546KB 2014-02-17 08:40.03 2014-02-17 08:59:08 Regular Main Stream 4

Check the file(s) you want to download and there are two options for you to save the file(s).

Download to local

Click Download to local, system pops up the following interface for you to set record format and saved path.See Figure 5-97.

			×	
Record Format	DAV			
Save Path	C:\RecordDownload\		Browse	
	ОК	Cancel		

You can click OK to download and view the download process. After the download operation, you can see corresponding dialog box.

Download to USB

Connect the corresponding p peripheral device, and then click Download to USB button, you can see the following interface. See Figure 5-98.

nnal I	All M All Records	Start Time End Time	2014 - 02 - 14 2014 - 02 - 17	00 00 00 23 59 59	Search			
Steam Type	Main Sub 💌		20112002					
	No.	File Size	Start Time	End Time	File Type	Bit Stream Type	Channel	
	1	2046KB	2014-02-17 08:34:59	2014-02-17 08:39:15	Regular	Main Stream	1	
	2	\$316KB	2014-02-17 08:40:03	2014-02-17 08:59:08	Regular	Main Stream	1	
	3	284KB	2014-02-17 08:34:59	2014-02-17 08:39:15	Regular	Main Stream	2	
	4	8585KB	2014-02-17 08 40:03	2014-02-17 08 59:08	Regular	Main Stream	2	
	5	2048KB	2014-02-17 08:34:59	2014-02-17 08:39.15	Regular	Main Stream	2	
	6	8623KB	2014-02-17 06:40:03	2014-02-17 08:59:08	Regular	Main Stream	3	
	7	384KB	2014-02-17 08:34:59	2014-02-17 08 39 15	Regular	Main Stream	4	
	2/	A.F. 1.F. 1.M.	AA44 AA 27 AB 18 AB	2014.02.17.02.52.00	Bernine	Main Cheam		
ownload to Loc	cal Doenload to I	2540,00	2014-02-17 08:40:02	201932-0-0622-06	nayora	H 4 1/	1 🕨 🕅 Jump To 1	
ownload to Loc kup device ad	en (USB DISK)	Search	Backup type DAV	•	rayou	H 4 1	1 🕨 🖬 Jump To 1	
ownicad to Loc kup device ad Start Backup	est(USB DISK) 💌 [Search	Backup type DAV	M	Total Space(KB)	нан рекли Н 4 1/ Ст	1 E E Jump To 1	
tup device ad Start Backup Sdart Sackup	et (USB DISK) 💌 🛛	Search Search DISK	Backup type DAV	M Free Space(x8) 13092928	Total Space(K2) 15136816	NG 4 1/	1 H Jump To 1	

Select Backup device and backup type first and then click Start backup button.

After the download operation, you can see corresponding dialogue box.

5.9.5.2 Download by Time

Select channel, bit stream type, start time and end time.

Click Download to Local button, you can see download by time interface is shown as in Figure 5-99.

	Playback Alarm	Setup	Info	Logout	
Download by File Download by Time	Watermark				
Channel 1 St Bit Stream Type Main Stream 🖌 Er	art Time 2014 - 02 - Id Time 2014 - 02 -	14 00 : 00 : 00 17 23 : 59 : 59			
Download to Local					
	Record Format DAV	/		Browne	
	Sans Fail	OK	Cancel	La conse	
Back					
1					

Figure 5-99

Set record format and saved path, you can click OK to download and view the download process. After the download operation, you can see corresponding dialog box.

5.9.5.3 Watermark

Watermark interface is shown as In Figure 5-100. Select a file and then click Verify button to see the file has been tampered with or not

ED							
D SERVICE	Live	Playback	Alarm	Setup	Info	Logout	
ownload by File	Download by Time	Waterma	rk				
Local File							
C:\record\root\Centre	e platform			Verify			
Watermark Info	j						
Natarmark Davised lat							
watermark Revised Inf	U						
No.	Malfund	tion type	Waterm	ark Time			
1	1401	mar					
					_		
Back							

5.10 Alarm

Click alarm function, you can see an interface is shown as Figure 5-101.

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

WEB SERVICE	Live	Playback	Alarm	Setup	Info	Logout		
Alarm Type Motion Detect HDD Error HDD Full Operation Prompt Alarm Sound Sound Path	Tampering Video Loss	ed	No.		Time		Alarm Type	Alarm Channel

Figure 5-101

Refer to the following sheet for detailed information.

Туре	Parameter	Function					
Alarm Type	Video loss	System alarms when video loss occurs.					
J F F	Motion detection	System alarms when motion detection alarm occurs.					
	Tampering	System alarms when camera is viciously masking.					
	Disk full	System alarms when disk is full.					
	Disk error	System alarms when disk error occurs.					
	External alarm	Alarm input device sends out alarm.					
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 Sound	Play alarm sound	System sends out alarm sound when an alarm occurs. You can specify as you wish.					
	Sound path	Here you can specify alarm sound file.					

5.11 Log out

Click log out button, system goes back to log in interface. See Figure 5-102.

You need to input user name and password to login again.



5.12 Un-install Web Control

You can use web un-install tool "uninstall web.bat" to un-install web control.

Note, before you un-installation, close all web pages, otherwise the un-installation might result in error.

6 Professional Surveillance System

Besides Web, you can use our Smart PSS to login the device.

For detailed information, refer to Smart PSS user's manual.

7 FAQ

1. DVR can not boot up properly.

There are following possibilities:

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

2. DVR often automatically shuts down or stops running.

There are following possibilities:

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

3. System can not detect hard disk.

There are following possibilities:

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

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

There are following possibilities:

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

5. Real-time video color is distorted.

There are following possibilities:

- When using BNC output, NTSC and PAL setup is not correct. The real-time video becomes black and white.
- DVR and monitor resistance is not compatible.

- Video transmission is too long or degrading is too huge.
- DVR color or brightness setup is not correct.

6. Can not search local records.

There are following possibilities:

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

7. Video is distorted when searching local records.

There are following possibilities:

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

8. There is no audio when monitor.

There are following possibilities:

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

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

There are following possibilities:

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

10. Time display is not correct.

There are following possibilities:

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

11. DVR can not control PTZ.

There are following possibilities:

- Front panel PTZ error
- PTZ decoder setup, connection or installation is not correct.
- Cable connection is not correct.
- PTZ setup is not correct.
- PTZ decoder and DVR protocol is not compatible.
- PTZ decoder and DVR address is not compatible.
- When there are several decoders, add 120 Ohm between the PTZ decoder A/B cables furthest end to delete the reverberation or impedance matching. Otherwise the PTZ control is not stable.
- The distance is too far.

12. Motion detection function does not work.

There are following possibilities:

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

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

There are following possibilities:

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

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

There are following possibilities:

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

15. Network connection is not stable.

There are following possibilities:

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

16. Burn error /USB back error.

There are following possibilities:

- Burner and DVR are in the same data cable.
- System uses too much CPU resources. Stop record first and then begin backup.
- Data amount exceeds backup device capacity. It may result in burner error.
- Backup device is not compatible.
- Backup device is damaged.

17. Keyboard can not control DVR.

There are following possibilities:

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

18. Alarm signal can not been disarmed.

There are following possibilities:

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

19. Alarm function is null.

There are following possibilities:

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

21. Record storage period is not enough.

There are following possibilities:

 Camera quality is too low. Lens is dirty. Camera is installed against the light. Camera aperture setup is not correct.

- HDD capacity is not enough.
- HDD is damaged.

22. Can not playback the downloaded file.

There are following possibilities:

- There is no media player.
- No DXB8.1 or higher graphic acceleration software.
- There is no DivX503Bundle.exe control when you play the file transformed to AVI via media player.
- No DivX503Bundle.exe or ffdshow-2004 1012 .exe in Windows XP OS.

23. Forgot local menu operation password or network password

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

24. When I login via HTTPS, a dialogue says the certificate for this website is for other address.

Follow chapter 5.8.2.16.1 to create server certificate.

25. When I login via HTTPS, a dialogue says the certificate is not trusted.

Follow chapter 5.8.2.16.2 to download root certificate.

26. When I login via HTTPS, a dialogue says the certificate has expired or is not valid yet.

Make sure your PC time is the same as the device time.

Daily Maintenance

- Use the brush to clean the board, socket connector and the chassis regularly.
- The device shall be soundly earthed in case there is audio/video disturbance. Keep the device away from the static voltage or induced voltage.
- Unplug the power cable before you remove the audio/video signal cable, RS232 or RS485 cable.
- Do not connect the TV to the local video output port (VOUT). It may result in video output circuit.
- Always shut down the device properly. Use the shutdown function in the menu, or you can
 press the power button in the rear pane for at least three seconds to shut down the device.
 Otherwise it may result in HDD malfunction.
- Make sure the device is away from the direct sunlight or other heating sources. Keep the sound ventilation.
- Check and maintain the device regularly.

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