

Network Audio/Video Encoder

User Manual (V1.1.0)

UD.6L0202D1098A01

Hikvision® Network Digital Video Server User's Manual

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Regulatory information FCC information

FCC compliance: This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement

CE

This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Low Voltage Directive 2006/95/EC, the EMC Directive 2004/108/EC, the RoHS Directive 2011/65/EU.



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2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

Preventive and Cautionary Tips

Before connecting and operating your Encoder, please be advised of the following tips:

- Ensure unit is installed in a well-ventilated, dust-free environment.
- Keep all liquids away from the Encoder.
- Please check the power supply to avoid the damage caused by voltage mismatch.
- Please make sure the Encoder work in the allowed range of temperature and humidity.
- Please keep the device horizontal and avoid the installation under severe vibration environment.
- The dust board will cause a short circuit after damping; Please dedust regularly for the board, connector, chassis fan with brush.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.

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Chapter 1 Introduction

1.1 Description

Developed on the basis of the latest encoding technology, DS-6700 Series Audio/Video Encoder Server allows the analog signal to be digitized and then stored in hard disk or transmitted via network, capable of encoding at up to $WD1(PAL: 960 \times 576, NTSC: 960 \times 480)$ or 4CIF resolution.

Adopting the latest embedded processor, DS-6700 Series Audio/Video Encoder provides more powerful capabilities in audio/video encoding; data storage via SATA or network disk; various network protocols are supported; and code downloaded in FLASH ensures high stability and reliability of system performance.

1.2 Models

According to the different resolution, connection to HDD and channel numbers, the DS-6700 Series Encoder Server can be classified into the following models:

- DS-6701HFI, DS-6704HFI, DS-6708HFI, DS-6716HFI
- DS-6701HWI, DS-6704HWI, DS-6708HWI, DS-6716HWI
- DS-6701HFI-SATA, DS-6704HFI-SATA, DS-6708HFI-SATA, DS-6716HFI-SATA
- DS-6701HWI-SATA, DS-6704HWI-SATA, DS-6708HWI-SATA, DS-6716HWI-SATA

Description:

- DS-6700HFI Series: 1/4/8/16 video inputs; support up to 4CIF resolution; 1 microSD card can be connected to DS-6701/6704HFI for local recording.
- DS-6700HFI-SATA Series: 1/4/8/16 video inputs; support up to 4CIF resolution; 1 SATA HDD can be connected with up to 4TB capacity for local recording.
- DS-6700HWI Series: 1/4/8/16 video inputs; support up to WD1 resolution, with 4CIF, 2CIF, CIF and QCIF selectable; 1 microSD card can be connected to DS-6701/6704HWI for local recording.
- **DS-6700HWI-SATA Series:** 1/4/8/16 video inputs; support up to WD1 resolution, with 4CIF, 2CIF, CIF and QCIF selectable; 1 SATA HDD can be connected with up to 4TB capacity for local recording.

1.3 Features

Encoding

- Support H.264/MPEG4/MPEG2/MJPEG encoding standards.
- Support encoding video at up to 4CIF resolution for DS-6700HFI (-SATA) models and up to WD1 resolution for DS-6700HWI (-SATA) models.
- Dual stream encoding.
- Either compound streams encoding or video stream encoding selectable; audio and video synchronization during compound streams encoding.

Network

- One 10M/100Mbps adaptive Ethernet interface (PoE) for DS-6701/6704HFI/HWI models.
- One 10M/100M/1000Mbps adaptive Ethernet interface for DS-6708/6716HFI/HWI and DS-6701/6704/6708/6716HFI/HWI-SATA models.
- Accessible by multiple web browsers: IE, FireFox, Chrome and Safari.
- Remote web browser access by HTTPS ensures high security.
- Netfilter builds internet firewalls based on packet filtering.
- QoS protocol enhances the data transmission performance.
- Support SNMPv1/v2c/v3 simple network management protocol.
- mDNS-based Apple's Bonjour protocol enables automatic discovery of devices.
- Support email notifications, FTP upload and alarms upload by SOCKS v4/v5 proxy server.
- Zero configuration networking (Zeroconfig) enables the device to automatically obtain the IPv4 link-local IP addresses (range: 169.254.1.0~169.254.255).
- Auto/Manual port mapping by UPnPTM.
- Support PSIA, ONVIF, HIKCGI and GENETEC protocols.
- Support SADP software to automatically search and discover the online devices in local network area.
- Automatically get IP address by DHCP protocol.
- RTSP/RTP standard stream media protocol allows user to live view by unicast.
- Multicast address for live view of multiple cameras through network.
- Two-way audio and single-directional broadcasting.
- Transmission via RS-232 and RS-485 transparent channel.
 Note: DS-6701HFI/HWI model provides no RS-232 interface.
- Access to Internet by PPPoE method, and support Peanut Hull, DynDNS, HiDDNS, etc.
- Set time by NTP.
- Connectable with network HDD in NAS, IPSAN mode.
- Send email by SMTP protocol, and support attachment of captured JPEG image and SSL encryption.
- Remote JPEG image capturing with user-defined image resolution and quality.

PTZ Control

• Support Multiple PTZ Protocols

Different channels can be configured with protocol type, RS-485 address, baud rate, data bit, stop bit, even & odd parity, stream control method, etc.; and remote configuration of presets, patrols and patterns.

• Digital Zooming (with Speed Dome)

When connected with Hikvision speed dome, digital zooming can be realized by clicking on the image through client software.

• PTZ linkage

Relay input alarm can be responded with PTZ linkage actions, e.g., callup of predefined presets, patrols or patterns.

Alarm

• Relay Alarm Input

Either NO mode or NC mode can be set.

Four different alarm arming periods are configurable.

Capabilities of triggering corresponding alarm handling methods, relay alarm output, buzzer alarm, upload to control center, PTZ linkage, presets/patrols/patterns callup, etc.

• Relay Alarm Output

Relay alarm output can be connected with alarm devices for alarm handling within arming period.

Exceptions

• Exception Alarm Handling

Exception alarms include network disconnect alarm, IP address conflict alarm, illegal access alarm, etc.; multiple alarm handling methods are supported, relay alarm output, buzzer alarm, upload to center, etc.

• Exception Reboot

Software watchdog capability: for inspecting important threads and system resources of device; in case of exceptions detected, the device will be automatically rebooted.

Firmware watchdog: for inspecting the firmware of device; in case of exceptions in system task scheduling, the device will be automatically rebooted.

Logs

The system logs can be classified into the operation logs, alarm logs, exception logs and information logs. User may search and view all recorded system logs by date or type, as well as export the logs to the text format over network.

Note: Hard disk/network disk/microSD card must be connected before log operation.

Chapter 2 Structure

2.1 Front Panel

DS-6701HWI/HFI:

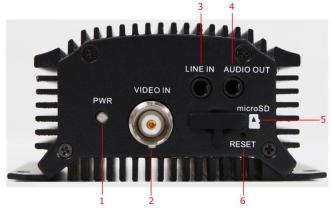


Figure 2.1 Front Panel of DS-6701HWI/HFI

	Item	Description
	Item	Description
1	POWER LED	Light in red when the device is powered on; light in orange
	Indicator	when the SD card is inserted.
2	VIDEO IN	BNC connector for video input.
3	LINE IN	3.5mm interface for two-way audio input or audio input;
		connect to audio input device or active pick-up, microphone,
		etc.
4	AUDIO OUT	3.5mm interface; connect to audio output device, e.g.,
		loudspeaker, etc.
5	microSD	microSD interface for data storage.
6	Reset	Restore the factory default settings by holding the RESET
		button for more than 15 seconds after power is turned on.

Table 2.1 Front Panel of DS-6701HWI/HFI

DS-6704HWI/HFI:

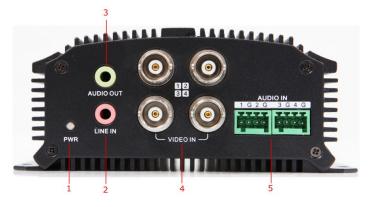


Figure 2.2 Front Panel of DS-6704HWI/HFI

	Item	Description
1	POWER LED	Light in red when the device is powered on; light in orange
	Indicator	when the SD card is inserted.
2	LINE IN	3.5mm two-way audio input interface; connect to active
		pick-up, microphone, etc.
3	AUDIO OUT	3.5mm interface; connect to audio output device, e.g.,
		loudspeaker, etc.
4	VIDEO IN	BNC interface for video input.
5	AUDIO IN	Line input interface for audio input.

Table 2.2 Front Panel of DS-6704HWI/HFI

DS-6708/6716 and DS-6701/6704/6708/6716-SATA:



Figure 2.3 Front Panel of DS-6708 and DS-6701/6704/6708-SATA



Figure 2.4 Front Panel of DS-6716 and DS-6716-SATA

	Indicator	Description	
1	POWER	Lights in red when the device is powered on.	
2	STATUS	Lights in red when data is being read from or written to HDD.	
		Valid for DS-6708HWI/HFI-SATA model only.	
3	Tx/Rx	1. Does not light when the network is not connected;	
		2. Blinks in green when the data is transmitting / receiving;	
		3. Blinks at higher frequency when the data for transmitting /	
		receiving is larger.	

|--|

2.2 Rear Panel

DS-6701HWI/HFI:

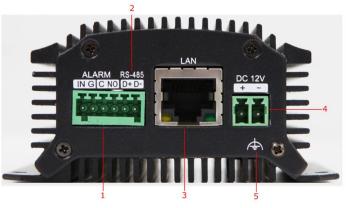


Figure 2.5 Rear Panel of DS-6701HWI/HFI

	Item	Description	
1	ALARM IN	Relay alarm input/output.	
	/OUT	<i>Note:</i> The alarm output terminal provides no JP2 pin.	
2	RS-485	RS-485 serial interface; connect to pan/tilt unit, speed dome, etc.	
3	LAN	10M/100Mbps adaptive Ethernet interface (PoE).	
		The right LED indicator lights in green when the network cable is	
		connected, and the left LED indicator blinks in orange when data	
		is transmitting / receiving.	
4	DC12V	12V DC power supply.	
5	GND	Grounding	

Table 2.4 Rear Panel of DS-6701HWI/HFI

DS-6704HWI/HFI:

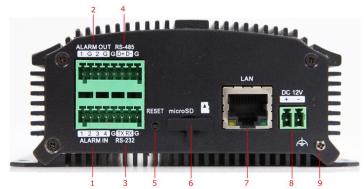


Figure 2.6 Rear Panel of DS-6704HWI/HFI

		Table 2.5 Rear Panel of DS-6704HWI/HFI
	Item	Description
1	ALARM IN	Relay alarm input.
2	ALARM OUT	Relay alarm output.
3	RS-232	Serial interface for configuration of device's parameters or used as
		transparent channel.
4	RS-485	RS-485 serial interface; connect to pan/tilt unit, speed dome, etc.
5	RESET	Restore the factory default settings by holding the <i>RESET</i> button for
		more than 15 seconds after the device is turned on.
6	microSD	microSD interface for data storage.
7	LAN	10M/100Mbps adaptive Ethernet interface (PoE).
		The right LED indicator lights in green when the network cable is
		connected, and the left LED indicator blinks in orange when data is
		transmitting / receiving.
8	DC12V	12V DC power supply.
9	GND	Grounding

Table 2.5 Rear Panel of DS-6704HWI/HFI

Note: The DS-6701HWI/HFI and DS-6704HWI/HFI models provide no beeper.

DS-6708HWI/HFI (-SATA):



Note: DS-6701/6704 HWI-SATA and DS-6701/6704 HFI-SATA models provide 1/4 video input and 1/4 audio input interfaces on the rear panel.

	Item	Description	
1	VIDEO IN	BNC connectors for video input.	
2	LINE IN	3.5mm two-way audio input interface; connect to active pick-up, microphone, etc.	
3	AUDIO OUT	3.5mm audio output interface; connect to audio output device, e.g., loudspeaker, etc.	
4	AUDIO IN	Line input interface for audio input.	
5	LAN	10M/100/1000Mbps adaptive Ethernet interface.	
6	RESET	Restore the factory default settings by holding the <i>RESET</i> button for more than 15 seconds after the device is turned on.	
7	RS-232, RS-485	RS-232 serial interface for configuration of device's parameters or used as transparent channel; RS-485 serial interface for connection to pan/tilt unit, speed dome, etc.	
8	ALARM IN	Relay alarm input.	
9	ALARM OUT	Relay alarm output.	
10	DC12V	12V DC power supply.	
11	GND	Grounding	

Table 2.6 Rear Panel of DS-6708HWI/HFI (-SATA)

DS-6716HWI / HFI (-SATA):

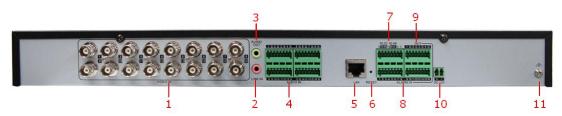


Figure 2.8 Rear Panel of DS-6716HWI/HFI (-SATA)

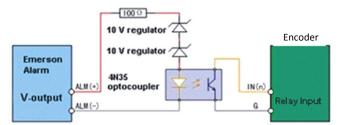
Table 2.7 Rear Panel of DS-6716HWI/HFI (-SATA)

	Item	Description	
1	VIDEO IN	BNC connectors for video input.	
2	LINE IN	3.5mm two-way audio interface; connect to active pick-up, microphone, etc.	
3	AUDIO OUT	3.5mm audio output interface; connect to audio output device, e.g., loudspeaker, etc.	
4	AUDIO IN	Line input interface for audio input.	
5	LAN	10M/100/1000Mbps adaptive Ethernet interface.	
6	RESET	Restore the factory default settings by holding the <i>RESET</i> button for more than 15 seconds after power is turned on.	
7	RS-232, RS-485	RS-232 serial interface for configuration of device's parameters or used as transparent channel; RS-485 serial interface for connection to pan/tilt unit, speed dome, etc.	
8	ALARM IN	Relay alarm input.	
9	ALARM OUT	Relay alarm output.	
10	DC12V	12V DC power supply.	
11	GND	Grounding	

2.3 Alarm Connections

2.3.1 Alarm Input Connections

DS-6700 supports the open/close relay input as the alarm input mode. For the alarm input signal not in open/close relay signal mode, please follow the connections shown as below: Alarm input connections for Emerson Alarm:



Note: The relay input port of the Encoder should be set to NC mode.

Figure 2.9 Alarm Input Connections for Emerson Alarm

Alarm input connections for Normal Alarm:

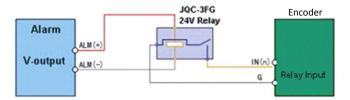


Figure 2.10 Alarm Input Connections for Normal Alarm

2.3.2 Alarm Output Connections

DS-6700 supports the open/close relay input as the alarm output mode. The alarm input can be selected to *NO* or *NC*. Different alarm output connection methods are applied to the AC or DC load. Please refer to the following diagram:



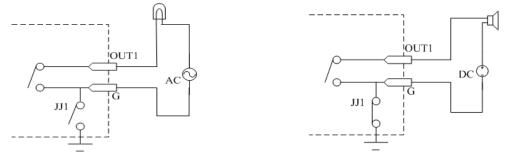


Figure 2.11 Alarm Output Connections

Note: The DS-6701HWI/HFI has no JJ1 relay.

Please note the different connections of JJ1 shown above.

For DC load, JJ1can be safely used both in *NC* and *NO* methods, and it is recommended to use within the limit of 12V/1A. For external AC input, JJ1 must be open. The motherboard provides two jumpers, each corresponding to one alarm output. And both of two jumpers are factory set to be connected.

Chapter 3 Network Parameters Configuration

Purpose:

If you don't know the IP address of the decoder and this is not the first time you use the decoder, you can use SADP (IP finder) software or the Serial port tools to find out the IP address of the decoder and to configure the IP address or other network parameters of it. It is recommended to change the default IP address for the first time to use it.

This chapter aims to tell the procedures of using the SADP software to find and configure the IP address and other parameters of the device.

Note:

For the first-time user, the default user name of DS-6700 is *admin*, and password is *12345*. And the default IP address is 192.0.0.64.

3.1 Searching Active Devices Online

• Search online devices automatically

Click APT-SADP to run the SADP software and it will automatically search the online devices every 15

seconds from the subnet where your computer locates. It displays the total number and information of the searched devices in the **Online Devices** interface. Device information including the device type, IP address, port number, gateway, etc. will be displayed.

Q,					SADP		_ o ×
۰ 🔍	nline Devices	👔 About					
💶 Th	e total devices nu	mber: <mark>5</mark>				Refresh >>	Modify Network parameters
ID 001 002 003 004 005	Device Type DS-9018HFI-ST DS-6704HWI DS-20D8163F-E PCNVR DS-6601HFH	172.6.23.67	Port 8000 8000 8000 8000 8000	Soft Vision V2.3.0build 121206 V1.0.0build 121204 V4.0.1build 120508 V1.2.1build 120503 V1.0.2build 120928	0.0.0.0 172.6.23.1 0.0.0.0	Serial Number DS-9016HFI-ST1620111128BE DS-6704HW0020121130ARF DS-2C08153F-E0120120303E DS-NVR-V120B20120503-047 DS-6601HFH0120120906CCV	IP Address: Port Subnet Mask: Gateway: IPv6 Address: IPv6 Gateway: IPv6 Gateway: IPv6 Prefix Length: Device Serial: Password Modify ↓ Password to modify the network parmeters. Reset Default Password Serial code Comeback.
							Tips:Serial Number is produced by device serial and start time.
•						•	

Figure 3.1 Search Online Device by SADP

Note: Device can be searched and displayed in the list in 15 seconds after it goes online; it will be removed from the list in 45 seconds after it goes offline.

• Search online devices manually

You can also click Refresh to refresh the online device list manually. The newly searched devices will be

added to the list.

Note: You can click \bigtriangleup or \bigtriangledown on each column heading to order the information; you can click \bowtie to expand the device table and hide the network parameter panel on the right side, or click \backsim to show the network parameter panel.

3.2 Modifying Network Parameters

Steps:

- 1. Select the device to be modified in the device list and the network parameters of the device will be displayed in the **Modify Network Parameters** panel on the right side.
- 2. Edit the modifiable network parameters, e.g., IP address, port number and gateway.
- 3. Enter the password of the admin account of the device in the **Password** field and click **Modify** to save the changes.

					SADP			_ 0
anned.	nline Devices	7 About				@ Refresh >>	Modify Network pa	ramatere
ID 🛆 001 002 003	Device Type DS-9016HFI-ST DS-6704HWI DS-2CD8153F-E	IPv4 Address 172.6.23.125 172.6.23.67 172.6.23.176	Port 8000 8000 8000	Soft Vision V2.3.0build 121206 V1.0.0build 121204 V4.0.1build 120508	0.0.0.0	Serial Number DS-9016HFI-ST1620111128BE DS-6704HWI0020121130AARF DS-2CD8153F-E0120120303E	IP Address: Port: Subnet Mask:	172.6.21.67 8000 255.255.255.0
004	PCNVR DS-6601HFH	172.6.23.101 172.6.23.100	8000 8000	V1.2.1build 120503 V1.0.2build 120928	0.0.0.0	DS-NVR-V120B20120503-047 DS-6601HFH0120120906CCV	Gateway: IPv6 Address: IPv6 Gateway: IPv6 Prefix Length: Device Serial;	172.6.21.1 fe80::8ee7:48ff.fe0a.fc8a :: 64 DS-6704HW0020121130
							••••• Tips:Input pass parmeters.	word to modify the network
							Reset Default Pas	Ssword
							Tips:Serial Nun serial and start	nber is produced by device time.
4						4		

Figure 3.2 Modify Network Parameters

Chapter 4 Access to DS-6700 by Client Software

The DS-6700 Series Audio/Video Encoder can be accessed by iVMS-4200 client software (provided in attached CD). Please refer to the *User Manual of iVMS-4200 Client Software* for more information.

The computer which runs the iVMS-4200 client software should meet the following requirements:

Operating System: Microsoft Windows 2000 or higher

CPU: Intel Pentium IV 3.0 GHz or higher

RAM: 1G or higher

Display: 1024×768 resolution or higher

4.1 Starting iVMS-4200 Client Software

Install the iVMS-4200 software on your PC according to the prompts. For the first time to use the iVMS-4200 software, you need to register a super user for login.

Register Administrator						
Please create a super user before proceeding.						
Super User:						
Password:						
Confirm:						
	Enable Auto-login					
	Register Cancel					

Enter the super user name, password and confirm the password in the dialog box and click **Register**. Then, you can log in as the super user.

Note: Enter, Space, and TAB keys are invalid for the user name and password. The password cannot be empty, and it should not be less than six characters and can't be copied and pasted.

4.2 Accessing to DS-6700

Click Start \rightarrow All Programs \rightarrow iVMS-4200 Client to start the client software. After successful login, you can enter the following main interface of the client software.

Figure 4.1 Register User

4.2.1 Adding Device

Steps:

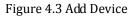
1. Click Control Panel>Device Management to enter the Device Management page:

File	System View To	ol Help		iVMS-4200		≜ - □ ×
Contr	rol Panel 🏻 🚔	Device Management				CPU Network
🔂 Add	Modify	📅 Delete	P Remote Configuration	Show Online Devices	Search	
Nickname	∇ IP	Serial No.				

Figure 4.2 Device Management Page

2. Click the **Add** button to enter the Add Device dialog box:

Add Device 🗙						
Private Domain Mode						
Nickname:	Encoder					
Address:	172.6.23.67					
Port:	8000					
User Name:						
Password:						
🔽 Export To Group						
Show Online Devices	Add Cancel					



3. Edit a nickname for the device and then input the IP address, port number (default: 8000), login User Name (default: *admin*) and Password (default: *12345*) of the device.

Note: If you check the Private Domain Mode checkbox, you can add the device by **IP server** or **HiDDNS**. You can also click the **Show online devices** icon to search the online devices. All the online devices will show in the list. Click to select the online device you want to add, and then click **Select Device** to enter the Add Device dialog box. Enter the nickname and login user name and password.

			s	how Online	e Devices		ĺ
Index	Added	Device Type	IP	Port	Serial No.	Device Information	
001	No	DS-9016HFI-ST	172.6.23.125	8000	DS-9016HFI-ST162	MAC Address:	8c-e7-48-0a-fc-8a
002	No	DS-6704HWI	172.6.23.67	8000	DS-6704HWI00201	Software Version:	V1.0.0build 121204
003	No	DS-6601HFH	172.6.23.100	8000	DS-6601HFH01201	Device Serial No.:	
004	No	DS-2CD8153F-E	172.6.23.176	8000	DS-2CD8153F-E01	DS-6704HWI0020	121130AARR4134912
						Network Information IP Address: Subnet Mask: Port: Please Input Admin	172.6.23.67 255.255.255.0 8000
4					Þ	Recover Default Pa	Restore
		Refre	sh Every 15s			Select Device	Exit

Figure 4.4 Search Online Devices

- 4. Click **Add** to add the device.
- 5. The successfully added device (s) will be displayed on the device list.

File System View Tool	Help iVMS-4200	
🛒 Control Panel 🔤 🕻	ovice Management	11:01:06 CPU 11:01:02 CPU 11:00 CPU 11:
🕒 Add 📝 Modify	Tolete & Remote Configuration Show	v Online Devices Search
Nickname 🗸 IP	Serial No.	
Encoder 172.6.23.67	DS-6704HWI0020121130AARR413491266WC	
1		

Figure 4.5 List of Added Devices

4.2.2 Starting Live View

Click **Control Panel > Main View** to enter the Live View page:

User Manual of DS-6700 Series Audio/Video Encoder

File System Viev	v Tool	Help		iVMS-4200			≜ - □ ×
Control Panel	🥳 c	amera Settings	🖳 Main View 🔭	Minport Camera		09:55:04 2012-11-22	CPU Network
Search	Q						nen en
9000	~	at the second second	Telland				
= 72-SH	~						
6700 Encoder	~						
6700 Encoder_Camera	01						
6700 Encoder_Camera	02		R 🛆 🗏 🍸				
6700 Encoder_Camera	03						
6700 Encoder_Camera	04						
6700 Encoder_Camera	05						
6700 Encoder_Camera	06						
6700 Encoder_Camera	07						
6700 Encoder_Camera	08	•					
6700 Encoder_Camera	09						
6700 Encoder_Camera	10						
6700 Encoder_Camera	11						
6700 Encoder_Camera	12						
6700 Encoder_Camera	13						
6700 Encoder_Camera	14						
6700 Encoder_Camera	15						
6700 Encoder_Camera	16						
🛃 All File(s)							
Picture	•						
Nov 22 Thu 2012			X 🔐 🤇) 🔯 🚳 🔶	• → • • •		
Alarm Event		🔹 Video Loss De	etection Start				× 🗆 🖈

Figure 4.6 Start Live View

You can click the buttons on the toolbar to operate in the live view mode, e.g., capture picture, start/stop recording, two-way audio, PTZ control (with PTZ camera connected to the encoder), digital zoom, open/close audio, play back video files, etc.

Note: Please refer to the User Manual of iVMS-4200 Client Software for the detailed information.

Chapter 5 Access to DS-6700 by WEB Browser

The DS-6700 can also be accessed by WEB Browser for configuration and operation. The supported WEB browsers include: Internet Explorer 6/7/8/9, Firefox 3.5 and above, Chrome 8 and above, Safari 5.0.2 and above, Windows XP SP1 and above (32-bit).

Before you start:

- Before access, you need to configure the network settings of device according to *Chapter 3*.
- Connect the device to the LAN, and prepare a PC connected to the same LAN with the device.
- The factory default username of the device is *admin* and the password is 12345.
- The factory default IP address of the device is 192.0.0.64.

5.1 Installing Web Components

Steps:

1. Open WEB browser, input the IP address of DS-6700 (e.g., http://192.0.0.64) and then press the **Enter** key on PC. The system then will display the login interface.

Note: When the HTTPS feature is enabled, the system will use the HTTPS login mode (e.g., https://192.0.0.64) by default when you input the IP address. You can also input http://IP address/index.asp (e.g., http://192.0.0.64/index.asp) if you want to use HTTP mode to log into the device.



Figure 5.1 Login Page

Input the user name (default: admin) and password (default: 12345) to log into the system.

- 2. On the main page of DS-6700, you need to download and install the plug-in.
 - (1) Click on the live view panel by following the hints on the screen.

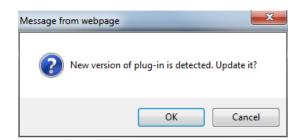


Figure 5.2 Download and Install Plug-in

(2) Click **Run** or **Save** on the pop-up warning message box.

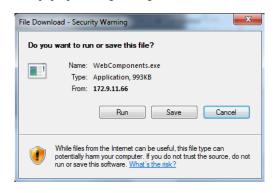


Figure 5.3 Run Web Components

(3) Click **Next** on the pop-up Setup dialog box.

Setup - Web Components		
	Click Next to continue, or Cancel to exit Setup.	
	Next >	Cancel
F	igure 5.4 Click Next	

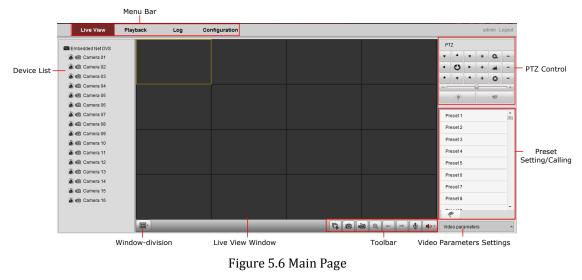
(4) When the installation completes, click **Finish** to finish the installation of Web Components.

Setup - Web Components	
Installing Please wait while Setup installs Web Components on your computer.	S
Extracting files C:\Program Files\Web Components\NetStream.dll	
	Cancel

Figure 5.5 Install the Web Components

5.2 Main Page

After successful login, you will enter the main page automatically.



Description of the live view page:

Menu Bar: Enter the Live View, Playback, Log and Configuration page respectively.

Device List: Display the connected encoder and its channels.

Window-division: 1/4-division display mode.

Live Video Window: Display the live video of the current camera.

Toolbar: Realize functions in live view mode, e.g., live view, capture, recording, audio on/off, two-way audio, etc.

PTZ Control: Realize PTZ control of the camera (supports PTZ function), and the lighter and wiper control.

Preset Setting/Calling: Set and call the preset for the camera (supports PTZ function).

Video Parameters Settings: Configure the brightness, contrast, hue and saturation of the live video.

Chapter 6 Live View

Live view shows you the video image getting from the connected camera in real time. After successful login, the system will enter the live view page automatically.

6.1 Starting Live View

Steps:

- 1. In the live view window, select a playing window by clicking the mouse.
- 2. Double click a camera from the device list to start the live view.



Figure 6.1 Start Live View

3. You can click the **button** on the toolbar to start the live view of all cameras on the device list.

Refer to the following table for the description of buttons on the live view window:

Table 6.1 Description of Toolbar

Icon	Description
	Select the window-division mode.
	Start/Stop live view
D	Capture pictures in live view mode
è 5	Manually start/stop recording
Q	Enable e-PTZ
+	Previous page

+	Next page
(1) - (1)	Audio on/off
[U] [U]	Start/Stop two-way audio

Note: Before using two-way audio function or recording with audio, please select the **Stream Type** to **Video & Audio** on *Section 8.2 Configuring Video Settings*.

Full-screen Mode

You can double click on the live video to switch to the full-screen view mode. To switch back to the normal mode, double click on the live video again.

Please refer to the following section for more information:

- 1. Capturing pictures on Section 6.2 Capturing Picture. .
- 2. Configuring recording on *Chapter 9 Record/Capture* Settings.
- 3. Setting the image quality of live view on Section 7.1 Local Configuration.
- 4. Setting the saving path for the recorded video files and captured pictures on Section 7.1 Local Configuration.
- 5. Setting the OSD text on live video on Section 8.1 Configuring OSD Settings.

6.2 Capturing Picture

In live view mode, click the **button** on the toolbar to capture the live pictures.

When the picture is captured, the following pop-up message box will appear at the lower right corner.

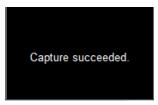


Figure 6.2 Picture Capture Succeeded

Notes:

- 1. The saving path for the captured pictures can be set at the **Configuration > Local Configuration** page.
- 2. The image is saved as a JPEG file on your computer.

6.3 Operating PTZ Control

Before you start:

- 1. Make sure the encoder is connected with the camera/dome which supports PTZ function. Connect the R+ and R- terminals of the pan/tilt unit or speed dome to RS-485 D+ and RS-485 D- terminals of the DS-6700 respectively.
- The baud rate, PTZ control and address configured in the RS-485 Settings interface (Remote Configuration > Serial Port Settings > 485 Serial Port), as shown in Figure 6.3, must be the same with the parameters of the connected pan/tilt unit or speed dome.

RS-485 Settings	
Channel No.	Analog Camera1
Baud Rate	9600 👻
Data Bit	8 🗸
Stop Bit	1 🔹
Parity	None 👻
Flow Ctrl	None -
PTZ Protocol	HIKVISION -
PTZ Address	0

Figure 6.3 RS-485 Settings

6.3.1 Operating PTZ Movement

In live view mode, you can use the PTZ control buttons to realize pan/tilt/zoom control of the camera lens. There are 8 directional buttons (up, down, left, right, upper left, upper right, bottom left, bottom right) on the display window when the mouse is located in the relative positions.

Click on the directional buttons to control the pan/tilt movement.

			()	
• •	-	+	0	
ں ا	•	+	-	-
•	-	+	٩	-
PTZ				

Figure 6.4 PTZ Control Panel

Click the zoom/iris/focus buttons to realize lens control.

Refer to the following table for description of PTZ control buttons:

Table 6.2 Description of PTZ Control Buttons

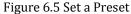
Button	Description			
+ 0	Zoom in/out			
- 44 +	Focus near/far			
+ 🖸 -	Iris open/close			
·••	Light			
A /r	Wiper			
- @ +	Adjust speed of pan/tilt movement			

6.3.2 Setting / Calling a Preset

Setting a Preset:

1. In live view mode, select a preset number from the preset list.

Preset 1	+	Ľ	Ê
Preset 2			
Preset 3			
Preset 4			
Preset 5			
Preset 6			
Preset 7			
Preset 8			
Preset 9			Ŧ



- 2. Use the PTZ control buttons to move the lens in the desired position. You can use any of the following commands:
 - Pan the camera to the right or left.
 - Tilt the camera up or down.
 - Zoom in or out.
 - Refocus the lens.

3. Click the *icon* to finish the setting of current preset.

Note: Up to 256 presets are configurable depending on the PTZ protocol applied.

Calling a Preset:

This feature enables the camera to point to a specified preset scene when an event takes place.

For the pre-defined preset, you can call it at any time to the desired preset scene.

In live view mode, select a predefined preset from the list and click the **view** icon to call a preset.

Preset 1	+	Ľ	Ê
Preset 2			
Preset 3			
Preset 4			
Preset 5			
Preset 6			
Preset 7			
Preset 8			
Preset 9			
۴			

Figure 6.6 Call a Preset

Linking to Alarm:

The preset can also be used to link to the alarm input when there is alarm event occurring.

PTZ Linking		
PTZ Linking	A1	•
Preset No.:	1	 Enable
Patrol No.:	1	- Enable
Pattern No.:	1	- Enable

Figure 6.7 PTZ Linking

Please refer to *Chapter 8.4 Configuring and Handling Alarms* for the PTZ Linking settings (Remote Configuration>Alarm Settings>Alarm Input>Linkage Method).

6.4 Configuring Video Parameters

Purpose:

You can configure the video parameters, including the brightness, contrast, saturation and hue. *Steps:*

1. In the live view interface, click the

Video parameters button on the bottom right corner to spread the Video

Parameters Setting interface:

Video parameters v
 standard indoor outdoor dimLight
Brightness
Contrast 128
Saturation 136
Hue 128
Sharpness 3
deNoising
😝 Default

Figure 6.8 Video Parameters Settings

- 2. Select the mode according to different light conditions. Four modes are selectable:
 - Standard: in general lighting conditions (default).
 - Indoor: the image is relatively smoother.
 - Outdoor: the image is relatively clearer and sharper. The degree of contrast and saturation is high.
 - **Dim Light:** the image is smoother than the other three modes.
- 3. Move the slider to set the brightness, contrast, saturation and hue to 0~255. The default value is 128 for the brightness, contrast and hue is 128 and 136 for the saturation.

4. Move the slider to set the sharpness to 0~15 and the denoising level to 0~3. The default value is 3 for the sharpness and 1 for the denoising level.

Note: You can click the *Constant Constant Con*

Chapter 7 Device Configuration

7.1 Local Configuration

Click Configuration > Local Configuration to enter the Local Configuration interface.

Local Configuration			
Protocol	TCP	•	
Stream Type	Main Stream	•	
Image Size	Auto-fill	•	
Record File Size	512M	•	
Live View Performance	Balanced	•	
Save record files to	C:\Web\RecordFiles		Brows
Save snapshots in live view to	C:\Web\CaptureFiles		Brows
Save snapshots when playback to	C:\Web\PlaybackPics		Brows
Save clips to	C:\Web\PlaybackFiles		Brows
Save downloaded files to	C:\Web\DownloadFiles		Brows
Save			

Figure 7.1 Local Configuration

Configure the following settings:

Protocol Type: Set the protocol type of stream transmission to TCP or UDP.

- UDP: provides more real-time audio and video streams.
- **TCP:** ensures complete deliver of streaming data and better video quality, yet its real-time effect is not so good.

Stream Type: Select the stream type to main stream or sub stream used for live view by Web browser. Please refer to *Section 8.2 Configuring Video Settings* for the parameters settings of the main stream and sub stream respectively.

Image Size: Select the window-division view mode to 4:3, 16:9 or Auto-fill.

Record File Size: Select the size of packed video files during manual recording to 256M, 512M or 1G.

Live View Performance: Set the live viewing performance to Least Delay, Balanced (delay and fluency) or Best Fluency.

Save record files to: Set the saving path for the manually recorded video files.

Save snapshots in live view to: Set the saving path for the manually captured pictures in live view mode.

Save snapshots when playback to: Set the saving path for the captured pictures in playback mode.

Save clips to: Set the saving path for the clipped video files in playback mode.

Save downloaded files to: Set the saving path for the downloaded video files or pictures.

Note: You can click the Browse button to change the directory for saving the video files and pictures.

7.2 Configuring Time Settings

Steps:

1. Click Remote Configuration > Device Parameters > Time Settings to enter the Time Settings interface:

Time Settings	
Time Zone	(GMT+08:00) Beijing, Urumqi, Singapore 🔹
NTP	
Server Address	
NTP Port	
Interval	min.
Manual Time Sync.	
Manual Time Sync.	
Device Time	2012-11-16T10:41:24
Set Time	2012-11-16T10:40:50 🔤 🔲 Sync. with computer time
Save	
	Figure 7.2 Time Settings

2. Select the Time Zone.

Select the Time Zone that is closest to the device's location from the drop-down menu.

Time Settings		
Time Zone	(GMT+08:00) Beijing, Urumqi, Singapore	•

Figure 7.3 Time Zone Settings

3. Configure the time synchronization by NTP server or by manually.

• Configuring Time Sync by NTP Server

A Network Time Protocol (NTP) Server can be configured on your device to ensure the accuracy of system date/time.

If the device is connected to a Dynamic Host Configuration Protocol (DHCP) network that has time server properties configured, the camera will synchronize automatically with the time server.

Enable the NTP function by checking the checkbox, and configure the following settings:

NTP Server: IP address of NTP server.

NTP Port: Port of NTP server.

Interval: The time interval between the two synchronizing actions with NTP server. It can be set from 1 to 10080 minutes.

NTP		
NTP		
NTP Server:	210.72.145.44	
NTP Port:	123	
Interval:	60	min.

Figure 7.4 Time Sync by NTP Server

Note: If the device is connected to a public network, you should use a NTP server that has a time synchronization function, such as the server at the National Time Center (IP Address: 210.72.145.44). If the device is set up in a more customized network, NTP software can be used to establish a NTP server used for time synchronization.

• Configuring Time Synchronization by Manually

Enable the **Manual Time Sync** function and then click the \square icon to set the system time from the pop-up calendar. You can click the icon to quickly select the time.

			4		Jul		2013		▶ ₩
			Sun	Mon	Tue	Wed	Thu	Fri	Sat
			30	1	2	3	4	5	6
			7	8	9	10	11	12	13
			14	15	16	17	18	19	20
Manual Time Sync.			21	22	23	24	25	26	27
Manual Time Sync.			28	29	30	31	1	2	3
			4	5	6	7	8	9	10
Device Time	2013-07-02T17:59:02		Т	ime	17 :	33 :	31	•	
Set Time	2013-07-02T17:33:31	Sync. with computer time	Ð						ок

Figure 7.5 Time Sync by Manually

You can also check the checkbox of Sync. with computer time to synchronize the time with the local PC.

4. Click the **Save** button to save the settings.

7.3 Network Settings

7.3.1 Configuring TCP/IP Settings

Network settings must be properly configured before you operate device over network.

Steps:

1. Click Remote Configuration > Network Settings > TCP/IP to enter the TCP/IP Settings interface:

TCP/IP		
NIC Settings		
NIC Type	Auto 👻	
IPv4 Address	172.9.11.51	DHCP
IPv4 Subnet Mask	255.255.255.0	
IPv4 Default Gateway	172.9.11.1	
IPv6 Address	fe80::240:3cff:fe3d:f79b	
IPv6 Default Gateway		
Mac Address	00:40:3c:3d:f7:9b	
MTU	1500	Byte
DNS Server		
Preferred DNS Server	10.1.7.88	
Alternate DNS Server		
Save		

Figure 7.6 TCP/IP Settings

2. Configure the NIC settings, including the NIC Type, IPv4 Address, IPv4 Subnet Mask, IPv4 Default Gateway, and MTU settings.

Note: The valid value range of MTU is 500 ~ 1500.

- 3. If the DHCP server is available, you can click the checkbox of DHCP to automatically obtain an IP address and other network settings from that server.
- 4. If the DNS server settings are required for some applications (e.g., sending email), you should properly configure the Preferred DNS Server and Alternate DNS Sever here.

DNS Server:	
Preferred DNS Server:	192.0.0.50
Alternate DNS Server:	192.0.0.200

Figure 7.7 DNS Server Settings

5. Click the **Save** button to save the above settings.

7.3.2 Configuring Port Settings

Purpose:

You can set the port No. of the encoder, e.g., HTTP port, RTSP port and HTTPS port.

Steps:

1. Click **Remote Configuration > Network Settings > Port** to enter the Port Settings interface:

Port	
HTTP Port	80
RTSP Port	554
HTTPS Port	443
Save	

Figure 7.8 Port Settings

2. Set the HTTP port, RTSP port and HTTPS port of the camera.

HTTP Port: The default port number is 80.

RTSP Port: The default port number is 554.

HTTPS Port: The default port number is 443.

3. Click **Save** to save the settings.

Note: It will ask you to reboot the device to activate the settings.

7.3.3 Configuring DDNS Settings

If your device is set to use PPPoE as its default network connection, you may set Dynamic DNS (DDNS) to be used for network access.

Prior registration with your DDNS Provider is required before configuring the system to use DDNS.

Steps:

1. Click the **Remote Configuration > Network Settings > DDNS Settings** to enter the DDNS Settings interface:

DDNS	
Enable DDNS	
DDNS Type	DynDNS -
Server Address	
Domain	
User Name	
Password	
Confirm	
Save	



- 2. Check the Enable DDNS checkbox to enable this feature.
- Select DDNS Type. Four different DDNS types are selectable: IPServer, DynDNS, PeanutHull and HiDDNS.
 - DynDNS:
 - (1) Enter Server Address for DynDNS (e.g., members.dyndns.org).
 - (2) In the Device Domain Name text field, enter the domain obtained from the DynDNS website.
 - (3) Enter the User Name and Password registered in the DynDNS website.
 - (4) Click Save to save the settings.

DDNS	
Enable DDNS	
DDNS Type	DynDNS -
Server Address	members.dyndns.org
Domain	123.dyndns.com
User Name	123
Password	•••••
Confirm	•••••
Save	

Figure 7.10 DynDNS Settings

- IPServer:
- (1) Enter Server Address for IPServer.
- (2) Click Save to save the settings.

Note: For the IP Server, You have to apply a static IP, subnet mask, gateway and primary DNS from the ISP. The **Server IP** should be entered with the static IP address of the PC that runs IPServer software.

Enable DDNS	
DDNS Type:	IPServer
Server IP:	212.15.10.211

• PeanutHull:

- (1) Enter User Name and Password obtained from the PeanutHull website.
- (2) Click Save to save the settings.

0	
DDNS	
Enable DDNS	
DDNS Type	PeanutHull -
Server Address	
Domain	
User Name	123.gicp.net
Password	•••••
Confirm	•••••
Save	

Figure 7.12 PeanutHull Settings

• HiDDNS:

- (1) Enter the Server Address of the HiDDNS server: www.hik-online.com.
- (2) Enter the **Domain** name of the device. You can register the alias of the device domain name in the HiDDNS server first and then enter the alias to the domain name in the encoder; you can also enter the domain name directly on the encoder to create a new one.

Note: If a new alias of the device domain name is defined in the encoder, it will replace the old one registered on the server.

(3) Click Save to save the settings.

•	
DDNS	
Enable DDNS	
DDNS Type	HIDDNS
Server Address	www.hik-online.com
Domain	
User Name	
Password	
Confirm	
Save	

Figure 7.13 HiDDNS Settings

Figure 7.11 IPServer Settings

7.3.4 Configuring PPPoE Settings

Your device also allows access by Point-to-Point Protocol over Ethernet (PPPoE).

Steps:

1. Click the **Remote Configuration > Network Settings > PPPoE Settings** to enter the PPPoE settings interface:

PPPoE	
Enable PPPoE	
Dynamic IP	0.0.0.0
User Name	01
Password	•••••
Confirm	•••••
Save	



- 2. Check the **PPPoE** checkbox to enable this feature.
- 3. Enter User Name, Password, and Confirm Password for PPPoE access.

Note: The User Name and Password should be assigned by your ISP.

4. Click the **Save** button to save and exit.

7.3.5 Configuring Email Settings

Purpose:

The device can be configured to send an Email notification to all designated receivers if an alarm event is detected, e.g., motion detection event, video loss, tamper-proof, etc.

Before you start

- 1. Before configuring the Email settings, the device must be connected to a local area network (LAN) that maintains an SMTP mail server. The network must also be connected to either an intranet or the Internet depending on the location of the e-mail accounts to which you want to send notification.
- 2. Please configure the DNS Server settings under **Remote Settings>Network Settings>TCP/IP** before using the Email function.

Steps:

- Enter the Basic Network Settings (Remote Configuration > Network Settings > TCP/IP) to set the IPv4 Address, IPv4 Subnet Mask, IPv4 Default Gateway and the Preferred DNS Server.
- 2. Click the **Remote Configuration > Network Settings > Email** to enter the Email settings interface:

Email		
Authentication		
User Name		
Password		
Confirm		
SMTP Server		
SMTP Port	33	Enable SSL
Interval	5s	 Attached Image
Sender		
Sender's Address		
Choose Receiver	Receiver1	•
Receiver		
Receiver's Address		
Save		
F	igure 7.15 Email Settings (1	.)

3. Configure the following Email settings:

Authentication (optional): If your mail server requires authentication, check this checkbox to use authentication to log in to this server and enter the login User Name and Password.

SMTP Server: The SMTP Server IP address or host name (e.g., smtp.263xmail.com).

SMTP Port: The SMTP port. The default TCP/IP port used for SMTP is 25.

• Enable SSL: Click the checkbox to enable SSL if required by the SMTP server. When the SSL is enabled, the default TCP/IP port used for SMTP is 465.

Interval: The interval refers to the time between two actions of sending attached pictures.

• Attached Image: Check the checkbox of Attached Image if you want to send email with attached alarm images.

Sender: The name of sender.

Sender's Address: The Email address of sender.

Choose Receiver: Select the receiver to which the Email is sent. Up to 3 receivers can be configured.

Receiver: The name of user to be notified.

Receiver's Address: The Email address of user to be notified.

E				
Email				
Authentication				
User Name				
Password				
Confirm				
Comm				
SMTP Server	126.smtp.com	۱		
SMTP Port	25			Enable SSL
	-			
Interval	5s		-	Attached Image
Sender	test01			
Sender's Address	test01@126.c	om		
Sender's Address		un		
Choose Receiver	Receiver1		•	
Receiver	test02			
Receiver's Address	test02@163.c	om		
Save				
			(0)	

Figure 7.16 Email Settings (2)

4. Click Save to save the Email settings.

Please refer to the following sections for more information:

Configure alarm linking methods with Send Email on Section 8.4.1 Configuring Motion Detection, Section 8.4.2 Configuring External Alarm Input, Section 8.4.3 Configuring Video Loss Alarm, Section 8.4.4 Configuring Tamper-proof Alarm and Section 8.4.5 Handling Exception.

7.3.6 Adding Network Disk

For DS-6700HWI/HFI models, you must configure the network disk before operating the recording, playback or log searching. For other models with SATA disks connected, the configuration of network disk is selectable.

Before you start:

- 1. The network storage device is available within the network and is properly connected.
- 2. The network storage device is configured with NAS or IP SAN mode (please refer to the User Manual of IP SAN/NAS).

Steps:

Click **Remote Configuration > Network Settings >NetHDD** to enter the NetHDD settings interface. 1.

NetHDD			
HDD No.	Server Address	File Path	Туре
1	172.10.35.210	/dvr/ljy1	NAS 🔻
2			NAS -
3			NAS -
4			NAS 🔻
5			NAS -
6			NAS -
7			NAS -
8			NAS 🔻
Save			

Figure 7.17 Network Disk Settings

- 2. Enter the IP address of the Network Storage System and File Path in the text filed.
- 3. Select the type of Network Storage System to IP SAN or NAS.

NAS Mode: Enter the IP address of the storage device, and the default file path is /*dvr/share*, in which the *share* name is user-defined during creating the DVR of the network storage.

IP SAN mode: Enter the IP address of the storage device, and the default file path is

iqn.2004-05.storos.t-service ID, in which the *service ID* is user-defined during creating the iSCSI volume of the network storage.

- 4. Click the **Save** button to add the configured network disk.
- 5. Initialize the added network disk.
- Click Remote Configuration > HDD Management to enter the HDD settings menu, on which you can view the capacity, free space, status, type and property of the added network disk.
- (2) If the status of the network disk is **Uninitialized**, select the disk from the list by checking the checkbox and click the **Init** button to start initializing the disk.
- (3) When the initialization is complete, the status of disk will become Normal.

HDD Management						
HDD No.	Capacity	Free space	Status	Туре	Property	
HDD17	19.50GB	0.00GB	Normal	NAS	R/W	
HDD No. HDD17 V Property R/W V Set						
HDD Initialization						
Select All Format					Format	

Figure 7.18 Initial Disk

6. Set the property of the added network disk.

Select the HDD No., and select the property from the drop-down menu to R/W, Read-only or Redundancy.



Figure 7.19 Set HDD Property

Notes:

- 1. Please refer to the User Manual of IP SAN/NAS for the creation of File Path in the network management.
- 2. Up to 8 NAS disks or IP SAN disk can be connected to the DS-6700.

7.3.7 Configuring SNMP Settings

Simple Network Management Protocol (SNMP) is an Internet-standard protocol for managing devices on IP networks. You can use SNMP to get camera status, parameters and alarm related information.

Before you start:

Before setting the SNMP, please download the SNMP software and manage to receive the device information via SNMP port. By setting the Trap Address, the device can send the alarm event and exception messages to the surveillance center.

Note: The SNMP version you select should be the same as that of the SNMP software.

Steps:

- 1. Click **Remote Configuration > Network Settings >SNMP** to enter the SNMP settings interface.
- Check the checkbox to enable SNMP v1 or SNMP v2c, and configure the read SNMP community (default: public), write SNMP community (default: private), tap address (default: empty) and trap port (default: 162). You can also enable both SNMP v1 and SNMP v2c.

SNMP	
Enable SNMPv1	
Enable SNMP v2c	
Read SNMP Community	public
Write SNMP Community	private
Trap Address	
Trap Port	162

- When the SNMPv3 is enabled, you can configure the read username (default: public). *Note*: By default settings, the SNMPv1, SNMP v2c and SNMPv3 are disabled.
- 4. Select the security level to "no auth, no priv", "auth, no priv", "no auth, priv" or "auth, priv".

Figure 7.20 SNMP Settings (1)

Enable SNMPv3	
Read UserName	public
Security Level	auth, priv 👻
Authentication Algorithm	● MD5 ○ SHA
Authentication Password	•••••
Private-key Algorithm	● DES ○ AES
Private-key password	•••••
Write UserName	private
Security Level	auth, priv 👻
Authentication Algorithm	● MD5 ○ SHA
Authentication Password	•••••
Private-key Algorithm	● DES ○ AES
Private-key password	•••••
SNMP Port	161
Save	
Figure 7.21 S	NMP Settings (2)

5. (1) When the security level is set to "**auth, priv**", you can configure the Authentication Algorithm and Private-key Algorithm parameters.

(2) When the security level is set to "**no auth, no priv**", you cannot configure the Authentication Algorithm and Private-key Algorithm parameters.

- 6. Set the SNMP port (default: 161).
- 7. Click **Save** to save the above settings.

7.3.8 Configuring QoS Settings

Purpose:

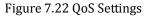
QoS (Quality of Service) can help solve the network delay and network congestion by configuring the priority of data sending. The use of a QoS-aware network can prioritize traffic and thus allow critical flows to be served before flows with lesser priority.

The encoder can mark the data packets for video/audio, event/alarm and management network traffics with different DSCP values which identify different priority levels of data sending.

Steps:

1. Click **Remote Configuration > Network Settings > QoS** to enter the QoS settings interface:

QoS	
Enable QoS	
Video/Audio DSCP	0
Event/Alarm DSCP	0
Management DSCP	0
Save	



- 2. Check the checkbox to enable the QoS function.
- 3. Enter the DSCP (Differentiated Services Codepoint) value for the video/audio, event/alarm and management traffic. This value is used to mark the traffic's IP header. The DSCP value defines the priority level for the specified type of traffic, for example, how much bandwidth to reserve for it.

The valid value range of the DSCP is 0-63. The higher DSCP value indicates higher priority level.

4. Click **Save** to save the settings.

Note: It will ask you to reboot the device to activate the settings.

7.3.9 Configuring FTP Settings

Purpose:

The captured pictures can be uploaded to FTP server.

Steps:

1. Click **Remote Configuration > Network Settings > FTP** to enter the FTP Settings interface:

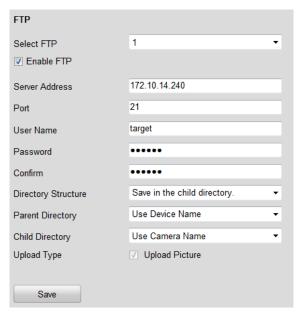


Figure 7.23 FTP Settings

- 2. Check the checkbox of **Enable FTP**.
- Configure the FTP settings, including server address, port, user name, password, directory and upload type.
 Directory: In the Directory Structure field, you can select the root directory, parent directory and child

directory. When the parent directory is selected, you have the option to use the Device Name, Device Number or Device IP for the name of the directory; and when the Child Directory is selected, you can use the Camera Name or Camera No. as the name of the directory.

Upload type: To enable uploading the captured picture to the FTP server.

4. Click **Save** to save the settings.

Note: If you want to upload the captured pictures to FTP server, you have to enable the event-triggered snapshot on **Snapshot** page. For detailed information, please refer to *Section 8.3*.

7.3.10 Configuring SOCKS Settings

Purpose:

SOCKet Secure (SOCKS) is an Internet protocol that routes network packets between a client and server through a proxy server. This feature is useful if the encoder is located on a local network behind a firewall, and Email notifications, FTP uploads, alarms, and such need to be sent to a destination outside the local network (such as the Internet). The SOCKS4 and SOCKS5 are supported, of which the SOCKS5 additionally provides authentication so only authorized users may access a server.

Steps:

1. Click Remote Configuration > Network Settings > SOCKS to enter the SOCKS Settings interface:

SOCKS		
Enable SOCKS		
Server	172.9.11.61	
Server Port	1080	
Server Type	SOCKS5 -	
User Name		
Password		
Confirm		
Local networks (/) to separate ip address a	nd network mask, example:192.168.	Use semicolon(;) to separate local networks, use slash 1.2/255.255.255.0;192.168.1.3/255.255.255.0
Save		

Figure 7.24 SOCKS Settings

2. Configure the following settings:

Server: Enter the address of the SOCKS server.

Server Port: Enter the port of the SOCKS server (default: 1080).

Server Type: Select the server type to SOCKS4 or SOCKS5. When you select SOCKS5, you can enable the user authentication on the server and then enter the login user name and password here.

Local networks: Define the local network segment which does not need to use SOCKS proxy server. You can enter multiple network addresses and use the semicolon (;) to separate them, e.g., 10.0.0/255.0.0.0; 172.16.0.0/255.240.0.0.

3. Click **Save** to save the settings.

7.3.11 Configuring UPnPTM Settings

Purpose:

UPnPTM can permit the device seamlessly discover the presence of other network devices on the network and establish functional network services for data sharing, communications, etc. If you want to use the UPnPTM function to enable the fast connection of the device to the WAN via a router, you should configure the UPnPTM parameters of the device.

Before you start:

If you want to enable the UPnPTM function of the device, you must enable the UPnPTM function of the router to which your device is connected. When the network working mode of the device is set as multi-address, the Default Route of the device should be in the same network segment as that of the LAN IP address of the router. *Steps:*

- 1. Click **Remote Configuration > Network Settings > NAT** to enter the NAT settings interface.
- 2. Check the checkbox to enable the $UPnP^{TM}$ function.
- 3. Select the Port Mapping Mode to Auto or Manual.

When you select Auto, the mapping ports can be automatically assigned by the router.

When you select Manual, you should continue Step4 to edit the mapping ports.

NAT					
☑ Enable UPnP™					
ort Mapping Mode	Auto				
Port Mapping					
ITTP Port	80				
DK Port	8000				
	554				
TSP Port	0.04				
ITTPS Port	443				
ITTPS Port					
TTPS Port		External Port	Router LAN IP	Router WAN IP	Status
ITTPS Port	443	External Port 80	Router LAN IP 192.168.1.1	Router WAN IP 172.6.21.31	Status Valid
ITTPS Port Port Status Protocol Name	443 Enable				100000000000000000000000000000000000000
ITTPS Port Port Status Protocol Name HTTP	443 Enable Yes	80	192.168.1.1	172.6.21.31	Valid

Figure 7.25 UPnP[™] Settings-Auto

4. Configure the HTTP Port (for access by WEB browser), SDK Port Mapping (for access by client software), RTSP Port and HTTPS Port respectively.

Notes:

- 1) You can use the default port No., or change it according to actual requirements.
- 2) The Ports indicate the port No. for mapping in the router.
- 5. Click **Save** to save the settings.

After port mapping is successful, you can view the status of the port mapping on the Port Status area.

AT					
Enable UPnP™					
ort Mapping Mode	Manua	l	~		
ort Mapping					
TTP Port	85				
DK Port	8000				
TSP Port	554				
TTPS Port	443				
TTPS Port	443				
	443 Enable	External Port	Router LAN IP	Router WAN IP	Status
Port Status		External Port 85	Router LAN IP 192.168.1.1	Router WAN IP 172.6.21.31	Status Valid
ort Status Protocol Name	Enable				
Protocol Name HTTP	Enable Yes	85	192.168.1.1	172.6.21.31	Valid

Figure 7.26 UPnP[™] Settings-Manual

7.3.12 Configuring HTTPS Settings

Purpose:

HTTPS (Hyper Text Transfer Protocol Secure) ensures the data transferred is encrypted using Secure Socket Layer (SSL) or Transport Layer Security (TLS). HTTPS provides authentication of the web site and associated web server that one is communicating with and create a secure channel over an insecure network. HTTPS URLs begin with "https://" and use port 443 by default.

Steps:

- 1. Click **Remote Configuration > Network Settings > HTTPS** to enter the HTTPS settings interface.
- 2. Create the self-signed certificate or authorized certificate.

HTTPS			
Enable HTTPS (Please n	nake sure that the certificate is already installed)		
Create			
Create Create S	elf-signed Certificate		
Create Create C	ertificate Request		
Install Signed Certificate			
Certificate Path		Browse	Upload
Created Request			
Created Request		Delete	Download
Installed Certificate			
Installed Certificate		Delete	
Save			

Figure	7.27	HTTPS	Settings
--------	------	-------	----------

Task1: Create the self-signed certificate

(1) Click the **Create** button to create the following dialog box.

Country	CN	* example:CN
Hostname/IP	172.6.23.67	*
Validity	200	Day* range :1-5000
Password]
State or province]
Locality]
Organization]
Organizational Unit]
Email]
		OK Cancel

Figure 7.28 Create Self-signed Certificate

- (2) Enter the country, host name/IP, validity and other information.
- (3) Click **OK** to save the settings.

Task2: Create the authorized certificate

- (1) Click the **Create** button to create the certificate request.
- (2) Download the certificate request and submit it to the trusted certificate authority for signature.
- (3) After receiving the signed valid certificate, import the certificate to the device.
- 3. When you have successfully created and installed the certificate, check the checkbox to enable the HTTPS function.

Note:

After the HTTPS feature is enabled, the system will use the HTTPS login mode by default when you input the IP address (e.g., https://192.0.0.64). You can also input <u>http://IP address/index.asp</u> (e.g., http://192.0.0.64/index.asp) if you want to use HTTP mode to log into the device.

7.3.13 Configuring Bonjour Settings

Purpose:

Bonjour is enabled by default, and the video encoder can be automatically detected by operating systems and clients that support this protocol.

Before you start:

Make sure you have installed the Bonjour plug-in on your PC before enabling the Bonjour function. *Steps:*

1. Click **Remote Configuration > Network Settings > Bonjour** to enter the Bonjour settings interface.

Bonjour	
Enable Bonjour	
Friendly Name	DS-6704HF-SATA-00000000
Save	

Figure 7.29 Bonjour Settings

- 2. Check the checkbox to enable the Bonjour function.
- Edit the name of device. The name is shown when the device is detected by the system.
 Note: Only the letters, numbers and "-" can be contained in the name.
- 4. Click **Save** to save the settings.

7.3.14 Configuring IP Address Filter

Purpose:

You can allow or forbid access by specified IP addresses to the encoder by enabling IP Address Filter.

Up to 256 IP address can be added to the list (allowed/forbidden) by Web Browser.

Steps:

1. Click **Remote Configuration > Network Settings > IP Address Filter** to enter the IP address filter settings interface.

IP Address Filter					
Enable IP Address	e Filtor				
Enable IP Addres	s Filler				
IP Address Filter Typ	be	Forbidden	*		
Add	Modif	fy Delete	Clear		
No.	IP				
		ne "Forbidden" filtering addresses list, and be			
please make sure t	the IP a	ddress you are using	has been adde	d to the IP addresse	
else the network ac	cessi	from this IP address n	ay be disconne	ected.	
Save					

Figure 7.30 IP Address Filter Settings

- 2. Check the checkbox of Enable IP Address Filter.
- 3. Select the filter type of IP address to Allowed or Forbidden.
- 4. Click the **Add** button to add the IP address to be allowed or forbidden.

Figure 7.31 Add IP Address

- 5. Click the **Add** button to add the IP address to be allowed or forbidden.
- *Note:* Up to 256 IP address can be added to the list (allowed/forbidden) by Web Browser.
- 6. Click **Save** to save the settings.

7.3.15 Configuring Multicast Address

Purpose:

The multicast address can be configured to realize live view for more than the maximum number of cameras through network.

A multicast address spans the Class-D IP range of 224.0.0.0 to 239.255.255.255. It is recommended to use the IP address ranging from 239.252.0.0 to 239.255.255.255.

Steps:

1. Click **Remote Configuration > Network Settings > Advanced** to enter the multicast address settings interface.

Advanced	
Multicast Address	
Save	
Save	

Figure 7.32 Multicast Address Settings

- 2. Enter the multicast address in the text filed.
- 3. Click **Save** to save the settings.

Chapter 8 Camera Settings

8.1 Configuring OSD Settings

8.1.1 Configuring Display Settings

Purpose:

You can customize the camera name and time on the screen.

Steps:

1. Click the **Remote Configuration >Camera Settings > Display Settings** to enter the Display Settings interface:

Display Settings				
Channel No.	Analog Camera1 🔹			
Camera Name	Camera 01	(cannot copy)		
Live View		- OSD Settings		
		Display Name		
		Display Date		
		Display Week		
		Time Format	24-hour	•
		Date Format	YYYY-MM-DD	-
		Display Mode	Not transparent & Not flashing	•
Copy to Camera Select All A1 A2 A3 A4 A5 Save	A6 A7 A8 A9 A10 A11	A12 A13 A14 A15 A1	6	*

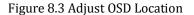
- Figure 8.1 Display Settings
- 2. Select the camera from the drop-down list.
- 3. Edit the camera name in the text field of Camera Name.

Camera Name:

Camera 01

- 4. Select the display of camera name, date or week by checking the checkboxes if required.
- 5. Set the time format, date format and OSD display mode by selecting option from the drop-down list.
- 6. On the preview image, you can adjust the OSD location on the screen by moving the text frame.





7. If you want to copy the display settings of the current camera to other cameras, spread the **Copy to Camera** panel and select the camera(s) to copy, or click **Select All** to select all cameras.



Figure 8.4 Copy to Camera

8. Click **Save** to validate the above settings.

8.1.2 Configuring Text Overlay

Steps:

- Click the Remote Configuration >Camera Settings > Text Overlay Settings to enter the Text Overlay Settings interface.
- 2. Select the camera from the drop-down list.
- 3. Edit the user-defined text content.

Click the checkbox in the text box below and then input the characters. Up to 8 character strings can be edited.

- 4. Click Save, and the edited text is shown on the image.
- 5. On the preview image, you can adjust the Text location on the screen by moving the text frame.

Text Overlay			
Channel No.	Analog Camera1 👻		
Live View		Text Overlay Settings	
Highway A			Highway A
		2	
		3	
		4	
		5	
		6	
		7	
		8	
Loop In			
100			

Figure 8.5 Text Overlay Settings

6. If you want to copy the text overlay settings of the current camera to other cameras, spread the **Copy to Camera** panel and select the camera(s) to copy, or click **Select All** to select all cameras.



Figure 8.6 Text Overlay Settings

7. Click Save to activate the above settings.

8.2 Configuring Video Settings

Steps:

1. Click Remote Configuration > Camera Settings >Video Settings to enter the Video Settings interface:

Video Settings	
Channel No.	Analog Camera1
Stream Type	Main Stream(Normal)
Video Type	Video&Audio
Resolution	960*576
Bitrate Type	Variable
Video Quality	Medium
Frame Rate	25 🔹
Max. Bitrate	2048 Kbps
I Frame Interval	100
Video Encoding	H.264 💌
Copy to Camera	*
Select All	
A1 A2 A3	A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16
Save	

Figure 8.7 Video Settings

- 2. Select the camera from the drop-down list to configure.
- 3. Select the Stream Type of the camera to Main Stream (Normal), Main Stream (Event) or Sub Stream. The main stream is usually for recording and live viewing with good bandwidth, and the sub stream can be used for live viewing when the bandwidth is low. Refer to the *Chapter 7.1 Local Configuration* on changing the main stream to sub stream for live viewing.
- 4. You can customize the following parameters for the selected Main Stream or Sub Stream:

Video Type: Select the video type to video stream, or video & audio composite stream. The audio signal will be recorded only when the **Video Type** is **Video & Audio**.

Resolution: Select the resolution of the video input.

Bitrate Type: Select the bitrate type to constant or variable.

Video Quality: When bitrate type is selected to Variable, 6 levels of video quality can be configured.

Frame Rate: Set the frame rate to 1~30 fps.

The frame rate used to describe the frequency at which a video stream is updated is measured in frames per second (fps). A higher frame rate is advantageous when there is movement in the video stream, as it maintains image quality throughout.

Max. Bitrate: Set the Max. bitrate to 32~8192 Kbps.

I Frame Interval: Set the I frame interval to 1~ 400 (frames). The higher value results in lower video quality.

Video Encoding: Select the video encoding standard to H.264, MPEG2, MPEG4 or MJPEG.

Note: When the MJPEG video encoding standard is selected, the frame rate can be set to 1~15fps and the max. bitrate is not configurable.

5. If you want to copy the display settings of the current camera to other cameras, spread the Copy to Camera

panel and select the camera(s) to copy, or click Select All to select all cameras.

Copy to Camera Select All A1 A2 A3	A 4	A5	A6	A7	A8	A9	A10 A11	A 12	A13 A14 A15 A16	
		F	igur	e 8 8	R Co	nv to	o Camer	а		

6. Click **Save** to save the above settings.

8.3 Configuring Snapshot Settings

Purpose:

You can configure the scheduled snapshot and event-triggered snapshot. The captured picture can be stored in the HDD, SD card (if supported) or the netHDD. You can also upload the event-triggered snapshots to a FTP server. *Steps:*

1. Click **Remote Configuration > Camera Settings > Snapshot** to enter the Snapshot settings interface:

Snapshot		
Channel No.	Analog Camera1	•
Timing		
Format	JPEG	•
Resolution	960*576	•
Quality	Medium	•
Interval	1	second
Event-Triggered		
Format	JPEG	•
Resolution	960*576	•
Quality	High	•
Interval	5	second
Copy to Camera		
	A6 A7 A8 A9 A10 A11	A12 A13 A14 A15 A16
Save		

Figure 8.9 Snapshot Settings

- 2. Select the channel No. from which the pictures to be captured.
- 3. Configure the timing snapshot and the event-triggered snapshot parameters, including the format, resolution, quality and the interval between two snapshots.
- 4. Select the channel (s) you want to copy the same settings if needed.
- 5. Click **Save** to save the settings.

Notes:

- 1. The timing snapshots are stored in HDD, SD card (if supported) or netHDD. The event-triggered snapshots can be uploaded to FTP.
- 2. You should check the Upload to FTP checkbox in Motion Detection Settings or Alarm Input

interface. Please refer to *Step 3* in *Section 8.4.1* Configuring Motion Detection or Step 4 in Section 8.4.2 Configuring External Alarm Input.

3. Please refer to Section 7.3.9 Configuring FTP Settings for more details to configure FTP parameters.

8.4 Configuring and Handling Alarms

Purpose:

This section explains how to configure the network camera to respond to alarm events, including Motion Detection, External Alarm Input, Video Loss, Tamper-proof and Exception. And the alarm events can trigger the alarm actions, such as Notify Surveillance Center, Send Email and Trigger Alarm Output.

8.4.1 Configuring Motion Detection

Motion detection is a feature which can alert the personnel and record the video for the motion occurred in the surveillance scene.

Steps:

1. Set the Motion Detection Area

Steps:

- Click Remote Configuration> Camera Settings> Motion Detection to enter the motion detection settings interface.
- (2) Select the camera to configure the motion detection.
- (3) Check the checkbox of Enable Motion Detection.



Figure 8.10 Motion Detection Settings

(4) Click the

Draw Area button. Draw motion detection area by clicking and dragging the mouse in

the live video image.

<i>Note:</i> You are allowed to draw 8 motion detection areas in the same image.
(5) Click the Stop Drawing button to finish drawing.
You can click the Clear All button to clear all areas.
(6) Move the slide bar Sensitivity: to set the sensitivity of the camera.
Area Settings Arming Schedule Linkage Method
Image: Save Image: Save <t< td=""></t<>

Figure 8.11 Motion Detection-Area Settings

(7) Click **Save** button to save the settings.

2. Set the Arming Schedule for Motion Detection

Steps:

(1) Click the **Arming Time** tab.

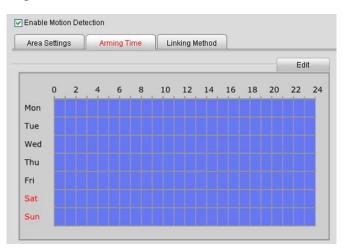


Figure 8.12 Motion Detection-Arming Time Settings

(2) Click the **Edit** button to edit the arming schedule.

Mon	Tue	Wed	Thu	Fri	Sat	Sun	Holiday
	Period		Start	Time		End Time	
	1		00 :	00	3 <u>16</u>	24:00	<u>*</u>
	2		00 :	00	**	00:00	**
	3		00 :	00	**	00:00	***
	4		00 :	00	迷	00:00	迷
	5		00 :	00	316	00:00	1
	6		00 :	00	26	00:00	1
	7		00 :	00	迷	00:00	迷
	8		00 :	00	**	00:00	1
	K Select All	Thu 🗆 Fri 🗖	Sat 🗌 Sun 📄 H	loliday Co	ру		

Figure 8.13 Motion Detection-Edit Arming Schedule

Notes:

1. The time of each segment can't be overlapped. Up to 8 segments can be configured for each day.

2. The **Holiday** option is available in the Schedule dropdown list when you have enabled holiday schedule in **Holiday settings**.

(3) Choose the day you want to set the arming schedule.

(4) Click the 🔛 button to set the time period for the arming schedule.

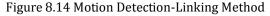
- (5) After you set the arming schedule, you can copy the schedule to other days.(Optional)
- (6) Click **OK** button to save the settings.

3. Set the Alarm Actions Taken for Motion Detection

Purpose:

You can specify the alarm type when an event is triggered.

Motion Detection	
Channel No.	Analog Camera1 -
Enable Motion Detection	
Area Settings	Arming Schedule Linkage Method
Normal Linkage	
E Full Screen Monitoring	Audible Warning Votify Surveillance Center Send Email Upload to FTP
Trigger Alarm Output Sele	ct All
A->1 A->2	
Trigger Channel Select All	
A1 A2 A3 A4	
Save	



Steps:

- (1) Click the Linkage Method tab to enter the setting interface.
- (2) Select the alarming linkage method(s) including Audible Warning, Notify Surveillance Center, Send Email and Upload to FTP.

• Audible Warning

Trigger an audible beep when an alarm is detected.

Note: The DS-6701/6704HWI and DS-6701/6704HFI models provide no audio beep.

• Notify Surveillance Center

Send an exception or alarm signal to remote alarm host when an event occurs. The alarm host refers to the PC installed with Remote Client.

• Send Email

Send an email with alarm information to a user or users when an event occurs.

Note: To send the Email when an event occurs, you need to go to the network setting interface to set the related parameters. Refer to *Section7.3.5 Configuring Email Settings*.

• Upload to FTP

Capture the image when an alarm is triggered and upload the picture to a FTP server.

(3) Select the channel you want to trigger an external alarm output when a motion detection event occurs.

Trigger Alarm Output V Select All

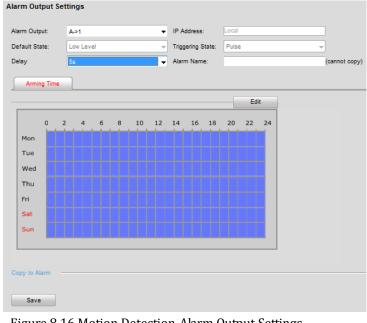
```
▼A->1 ▼A->2 ▼A->3 ▼A->4
```

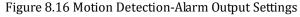
Figure 8.15 Motion Detection-Trigger Alarm Output

Note: To trigger an external alarm output when an event occurs, you need to go to the Alarm Output Settings interface to set the related parameters.

1) Click Remote Configuration> Alarm Settings> Alarm Output to enter the Alarm Output

Settings interface.





- 2) Select one alarm output channel in the **Alarm Output** drop-down list.
- 3) The Delay time can be set to 5sec, 10sec, 30sec, 1min, 2min, 5min, 10min or Manual. The

Delay refers to the time duration that the alarm output remains in effect after alarm occurs.

Note: If you choose **Manual**, you need to manually disable the alarm output.

4) Click **Edit** to enter the **Edit Schedule Time** interface. The time schedule configuration is the same as the Setting of the Arming Schedule for Motion Detection. Refer to *Step 2 Set the Arming Schedule for Motion Detection* in *Section 8.4.1 Configuring Motion Detection*.

larm Output S	Gettings			
arm Output:	A->1	V IP Address:	Local	
efault State:	Low Level	Triggering State:	Pulse	~
elay	5s	🖌 Alarm Name:		(cannot cop)
Arming Time				
			Edit	
0 2	2 4 6 8 10 1	2 14 16 18	20 22 24	
Mon				
Tue				
Wed				
Thu				
Fri				
Sat				
Sun				

Figure 8.17 Motion Detection-Alarm Output Settings

- 5) Return to the Alarm Output Settings interface and click **Save** to save the settings.
- (4) Select the channel you want to trigger recording when a motion detection event occurs.

 Trigger Channel
 Select All

 VA1
 A2
 A3
 A4
 A5
 A6
 A7
 A8
 A9
 A10
 A11
 A12
 A13
 A14
 A15
 A16

Figure 8.18 Motion Detection-Alarm Linked Recording

(5) Click Save to save the settings of linking method motion detection.

8.4.2 Configuring External Alarm Input

Steps:

- 1. Click Remote Configuration> Alarm Settings> Alarm Input to enter the Alarm Settings interface.
- Choose the alarm input number and the Alarm Type. The alarm type can be NO (Normally Open) and NC (Normally Closed).

larm Ir	nput N	lo.	A	<-1									•	•	IP	Ad	dres	s		L	.00	al								
larm T	ype		N	0									•	2	Ala	arm	Na	me		C	01								(canno	t copy
Armi	ng So	he	dule		Γ	Lir	nkaç	ge l	Vlet	hod																				
																					-		E	dit						
	0		2		L		6		8	1	10	1	12		14		16	1	8	2	20	:	22	:	24	1				
Mon		E	E	E	E	E	E	Ē	E	ł	÷	÷	E	E	E	E	i i	1	÷	ł	÷	E	E	li	1	L				
Tue	1	t	t	İ	Ť	T	t	t	ł	Ť	Ť	ł	Ē	Ē	l	t	t	÷	÷	÷	÷	T	t	l	1	L				
Wed	Ē	İ	İ	İ	İ	Ē	Ē	t	İ	Ť	Ť	ł	Ì	Ť	İ	İ	İ	÷	Ì	Ì	ł	İ	t	İ		L				
Thu		İ	İ	İ	İ	i	İ	t	i	÷	İ	1	ł	İ	i	i	i	ł	÷	ł	-	i	İ	i		L				
Fri		İ	İ	ł	İ	İ	Ė	İ	ł	÷	÷	ł	÷	İ	ł	İ	İ	÷	÷	÷	1	İ	İ	İ		L				
Sat		l	l	ł	ł		l	ľ	ł	ł	ł	1	ł	ł	ł	ł		ł	ł	ł	-					L				
Sun	1	i	i	ł	İ	İ	İ	İ	ł	÷	÷	1	÷	i	1	i	ł	÷	÷	÷	1	i	İ	1		L				
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		L				
					_									_																
opy to		n																												
A<-1 A<-13	_A<-								5	A	-6	PA	<-7	-	A<	-8 [A	c-9	A	<-1	0	A	<-1	1 🛛	A	-12	2			
						_																								
Sa	ve																													

- 3. Set the arming schedule for the alarm input. Refer to *Step 2 Set the Arming Schedule for Motion Detection* in *Section 8.4.1 Configuring Motion Detection*.
- 4. Click the Linkage Method tab to set the actions taken for the alarm input. Refer to *Step 3 Set the Alarm Actions Taken for Motion Detection* in *Section 8.4.1 Configuring Motion Detection*.

Arming Schedul	e Linkage Method
Normal Linkage	
E Full Screen Monit	oring ♥ Audible Warning ♥ Notify Surveillance Center ♥ Send Emai(♥ Upload to FTP
Trigger Alarm Output	Select All
▼A->1 ▼A->2 ▼A	>3 🗹 A->4
Trigger Channe 🔲 S	ielect All
A1 A2 A3	A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16
PTZ Linking	
PTZ Linking	A1 🔻
Preset No.	1 Enable
Patrol No.	1 🔽 Enable
Pattern No.	1 Enable
Consulta Alterna	
Copy to Alarm Select All A<-1 A<-2 A A<-13 A<-14	<-3
Save	
F	igure 8.20 Alarm Input Settings-Linking Method

^{5.} You can also choose the PTZ linking for the alarm input if your camera is installed with a pan/tilt unit.

- (1) Choose the PTZ Linking channel.
- (2) Check the relative checkbox to enable Preset Calling, Patrol Calling or Pattern Calling.
- 6. You can copy your settings to other alarm inputs.
- 7. Click **Save** to save the settings.

8.4.3 Configuring Video Loss Alarm

Steps:

1. Click **Remote Configuration> Camera Settings> Video Loss** to enter the video loss alarm setting interface.

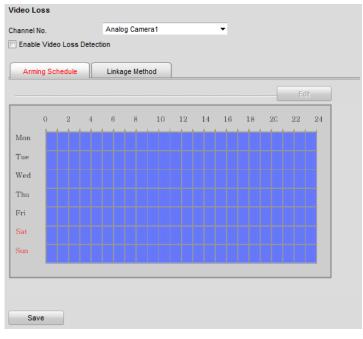


Figure 8.21 Video Loss Alarm Settings

- 2. Select the camera to configure the video loss alarm.
- 3. Check the checkbox of **Enable Video Loss**.

4. Click **Edit** to edit the arming schedule for video loss detection. The arming schedule configuration is the same as the Setting of the Arming Schedule for Motion Detection. Please refer to *Step 2* **Set the Arming Schedule for Motion Detection** in *Section 8.4.1 Configuring Motion Detection*.

5. Click the **Linkage Method** tab to set the actions taken for the video loss alarm. Please refer to *Step 3* **Set the Alarm Actions Taken for Motion Detection** in *Section 8.4.1 Configuring Motion Detection*.

8.4.4 Configuring Tamper-proof Alarm

Purpose:

If you enable this function, an alarm will be triggered when the image of camera is tampered with.

Steps:

1. Click **Remote Configuration> Camera Settings> Tamper-proof** to enter the Tamper-proof Settings interface.

2. Select the camera to configure the tamper-proof detection alarm.



Figure 8.22 Tamper-proof Alarm Settings

3. Click checkbox of **Enable Tamper-proof**.

4. Set the tamper-Proof area. Please refer to Step 1 Set the Motion Detection Area in Chapter 8.3.1.

5. Click **Edit** to edit the arming schedule for tamper-proof. The arming schedule configuration is the same as the Setting of the Arming Schedule for Motion Detection. Please refer to *Step 2 Set the Arming Schedule for Motion Detection* in *Section 8.4.1 Configuring Motion Detection*.

6. Click the Linkage Method tab to set the actions taken for the tamper-proof alarm. Please refer to *Step 3* Set the Alarm Actions Taken for Motion Detection in *Section 8.4.1 Configuring Motion Detection*.

8.4.5 Handling Exception

The exception type can be HDD full, HDD error, network disconnected, IP address conflict, illegal access, video standard mismatch, video signal exception, record/capture exception and video resolution mismatch.

Note: When the selected resolution under **Remote Configuration > Camera Settings >Video Settings** and the actual video input resolution are mismatched, the exception alarm will occur. Please refer to *Section 8.2 Configuring Video Settings*.

Steps:

1. Click **Remote Configuration> Exception** to enter the Exception Settings interface.

2. Check the checkbox to set the actions taken for the Exception alarm. Please refer to *Step 3 Set the Alarm Actions Taken for Motion Detection* in *Section 8.4.1 Configuring Motion Detection*.

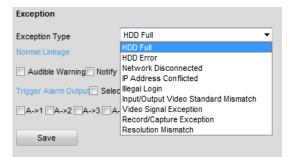


Figure 8.23 Handling Exceptions

3. Click **Save** to save the settings.

8.5 Configuring Privacy Mask

Purpose:

Privacy Mask enables you to cover certain areas on the video of the channel to prevent your privacy from live viewing and recording.

Steps:

- 1. Click **Configuration>Remote Configuration>Camera Settings>Privacy Mask** to enter the privacy mask settings interface.
- 2. Select the camera to configure privacy mask.
- 3. Check the checkbox of Enable Privacy Mask to enable this function.

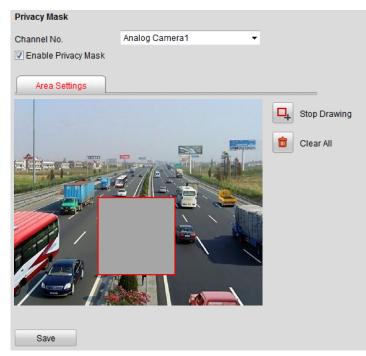


Figure 8.24 Privacy Mask Settings

- 4. Click the Draw Area button.
- 5. Draw the mask area by clicking and dragging the mouse in the live video image.

Note: Up to 4 privacy mask areas can be configured.

6. When finishing the area setting, click the Stop Drawing button to finish drawing.

💼 Clear All

button to clear all of the areas you set without saving it.

7. Click **Save** to save the settings.

You can click the

8.6 Configuring RS-232/485 Settings

8.6.1 RS-232 Settings

Note: The DS-6701HWI-HFI models provide no RS-232 serial port.

Purpose:

The RS-232 serial port can be used for the configuration by the serial port management tools.

Steps:

1. Click Remote Configuration> Serial Port Settings> 232 Serial Port to enter RS-232 port setting interface:

RS-232 Settings		
Baud Rate	115200 -	ł
Data Bit	8 🔻	·
Stop Bit	1 🔹	•
Parity	None 🔻	·
Flow Ctrl	None 🔻	•
Usage	Console 🔻	•
Save		

Figure 8.25 RS-232 Port Settings

Note: If you want to connect the encoder by the RS-232 port, the parameters of the RS-232 should be exactly the same with the parameters you configured here.

2. Click **Save** to save the settings.

8.6.2 RS-485 Settings

Purpose:

The RS-485 serial port is used to control the PTZ of the camera. The configuring of the PTZ parameters should be done before you control the PTZ unit.

Steps:

1. Click Remote Configuration> Serial Port Settings> 485 Serial Port to enter RS-485 port setting interface:

RS-485 Settings		
Channel No.	Analog Camera1	•
Baud Rate	9600	•
Data Bit	8	•
Stop Bit	1	•
Parity	None	•
Flow Ctrl	None	•
PTZ Protocol	HIKVISION	•
PTZ Address	0	
Copy to Camera		
Select All	5 🗛 🗛 🗛 🗛 🗛 🗛	A11 A12 A13 A14 A15 A16
Save		

Figure 8.26 RS-485 Port Settings

2. Set the RS-485 parameters.

By default, the Baud Rate is set as 9600, the Data Bit as 8, the Stop Bit as 1 and the Parity and Flow Control as None.

Note: The Baud Rate, Address and PTZ Protocol parameters should be exactly the same as the parameters of the connected PTZ camera.

3. Click **Save** to save the settings.

Chapter 9 Record/Capture Settings

Before you start

Make sure the Encoder is connected with HDD (for DS-6700HWI/HFI-SATA) or network disk, and the HDD or network disk has been initialized for the first time to use.

Two record/capture types can be configured: Manual and Scheduled. The following section introduces the configuration of scheduled record/capture.

9.1 Configuring Holiday Settings

Purpose:

You may want to have different plan for recording on holiday. Follow the steps to configure the record schedule on holiday.

Steps:

 Click Remote Configuration> Camera Settings> Holiday Settings to enter holiday settings interface. Holiday Settings

) The pe	riods of holiday cann	ot be overlapped	i.			
No.	Holiday Name	Status	Start Date	End Date	Edit	
1	Holiday1	Disable	1.Jan	1.Jan	I	
2	Holiday2	Disable	1.Jan	1.Jan		
3	Holiday3	Disable	1.Jan	1.Jan		
4	Holiday4	Disable	1.Jan	1.Jan		-
5	Holiday5	Disable	1.Jan	1.Jan		
6	Holiday6	Disable	1.Jan	1.Jan		
7	Holiday7	Disable	1.Jan	1.Jan		
8	Holiday8	Disable	1.Jan	1.Jan		
9	Holiday9	Disable	1.Jan	1.Jan		
10	Holiday10	Disable	1.Jan	1.Jan		
11	Holiday11	Disable	1.Jan	1.Jan		
12	Holiday12	Disable	1.Jan	1.Jan		
13	Holiday13	Disable	1.Jan	1.Jan		
14	Holiday14	Disable	1.Jan	1.Jan		
15	Holiday15	Disable	1.Jan	1.Jan		

Figure 9.1 Holiday Settings

Select an item from the list and click / to edit the holiday.
 (1) Edit the holiday name.

(2) Check the checkbox to enable holiday.

- (3) Select the holiday type from the dropdown list to by month, by week or by date.
- (4) Set the start and end date.

(5) Click **OK** to save the settings and back to the Holiday Settings interface.

Edit Holiday					
Holiday Name	Holiday1				
Enable Holiday					
Туре	By Month			•	
Start Date	Sep	•	1	-	
End Date	Dec	-	28	•	
				ОК	Cancel

Figure 9.2 Edit Holiday

- 3. You can check the finished holiday settings on the list.
- 4. Repeat the same steps to edit other holidays. Up to 32 holidays can be configured.

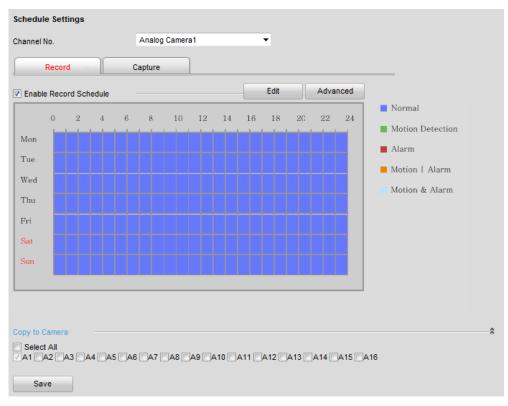
No.	Holiday Name	Status	Start Date	End Date	Edit	•
1	Holiday1	Enable	1.Sep	28.Dec	1	
2	Holiday2	Disable	1.Jan	1.Jan	1	
3	Holiday3	Disable	1.Jan	1.Jan	1	

Note: The **Holiday** option is available in the Schedule dropdown list when you have enabled holiday schedule in **Holiday settings**.

9.2 Configuring Scheduled Record/Capture

Steps:

- 1. Click **Remote Configuration> Camera Settings> Schedule Settings** to enter record schedule settings interface.
- 2. Select the camera to configure the record / capture schedule.
- 3. Click the **Record** or **Capture** tab.
- 4. Check the checkbox of **Enable Record Schedule** or **Enable Capture Schedule** to enable the record/capture schedule.





- 5. Click **Edit** to enter the Edit Schedule interface.
- 6. Choose the day in a week to configure scheduled record/capture.

Period	Start Time		End Time		Record	Туре
1	00:00	8 1 6	24:00	3 8	Normal	-
2	00:00	216	00:00	<u>.</u>	Normal	~
3	00:00	216	00:00	**	Normal	-
4	00:00	250	00:00		Normal	-
5	00:00	*	00:00	*	Normal	-
6	00:00	3	00:00	*	Normal	-
7	00:00		00:00	**	Normal	-
8	00:00		00:00		Normal	-
opy to Week Select	i 🗌 Sat 🔲 Sun	Сору				



- 1) Configure All Day or Customized period record/capture:
 - If you want to configure the all-day record/capture, please check the **All Day** checkbox.
 - If you want to record/capture in different time sections, check the Customize checkbox. Set the Start

Time and End Time of each period.

Note: The time of each period can't be overlapped. Up to 8 periods can be configured.

- Select a Record Type or Capture Type. The record/capture type can be Normal, Motion, Alarm, Motion & Alarm, and Motion | Alarm.
 - Normal

If you select **Normal**, the video will be recorded / captured automatically according to the time of the schedule.

• Record/Capture Triggered by Motion Detection

If you select **Motion**, the video will be recorded / captured when the motion is detected.

Besides configuring the record/capture schedule, you have to set the motion detection area and check the checkbox of **Trigger Channel** on the **Linkage Method** of **Motion Detection** settings interface. Refer to the *Step 1 Set the Motion Detection Area* in the *Section 8.4.1 Configuring Motion Detection*.

• Record/Capture Triggered by Alarm

If you select Alarm, the video will be recorded / captured when the alarm is triggered.

Besides configuring the record / capture schedule, you have to set the **Alarm Type** and check the checkbox of **Trigger Channel** on the **Linkage Method** of **Alarm Input Settings** interface.

• Record/Capture Triggered by Motion & Alarm

If you select **Motion & Alarm**, the video will be recorded / captured when the motion and alarm are triggered at the same time.

Besides configuring the record/capture schedule, you have to configure the settings on the **Motion Detection** and **Alarm Input Settings** interfaces.

• Record/Capture Triggered by Motion | Alarm

If you select **Motion** | **Alarm**, the video will be recorded/captured when the alarm is triggered or the motion is detected.

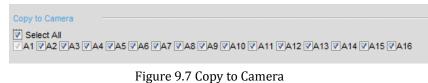
Besides configuring the record/capture schedule, you have to configure the settings on the **Motion Detection** and **Alarm Input Settings** interfaces.

- 3) Check the checkbox of **Select All** and click **Copy** to copy settings of this day to the whole week. You can also check any of the checkboxes before the date and click **Copy**.
- 4) Click **OK** to save the settings and exit the **Edit Schedule** interface.
- 7. Click Advanced to configure advanced record parameters.
 - Pre-Record: The Pre-Record time can be configured as No Pre-Record, 5 s, 10 s, 15 s, 20 s, 25 s or 30 s.
 - Post Record: The Post Record time can be configured as 5 s, 10 s, 30 s, 1 min, 2 min, 5 min or 10 min.

Advanced			
Pre-record	5s	▼	
Post-record	5s	•	
Redundant Record	No	•	
Overwrite	Yes	•	
Record Audio	Yes	•	
Expired Time	0	Day	
		OK Cance	;



8. If you want to copy the display settings of the current camera to other cameras, spread the **Copy to Camera** panel and select the camera(s) to copy, or click **Select All** to select all cameras.



9. Click **Save** to validate the above settings.

Chapter 10 Playback

Purpose:

The recorded video files can be remotely played back through the WEB browser.

Steps:

1. Click **Playback** on the menu bar to enter playback interface:



Figure 10.1 Playback Page

- 2. Click the camera from the device list for playback.
- 3. Select the date from the calendar and click **Search**.

41 4		Nov 2012							
Sun	Mon	Tue	14 15	Thu	Fri	Sat			
28	29		31	1	2	3			
4	5	6	7	8	9	10			
11	12	13	14	15	16	17			
18	19	20	21	23	24				
25	26	27	28	29	30	1			
2									
		0	Sea	rch					

Figure 10.2 Select Date for Search

4. Click the **Play** button to play the video file searched on the current date.

Live View	Playback	Log	Config	uration															;	admin	Log	out
Embedded Net DVS				EST	a manyota												annel atus: 1)					
Camera 02	le fe ile			and the	- A BAR											-	(Nov	2	012	•	• ••
Camera 03	Description of the local division		=/	- 2													Mon					
Camera 04			131	È	- 14											28	29	30 6	31	1		3 10
Camera 05			18													11	12	13	14			17
Camera 06			ALC: T													18	19	20	21	_		24
Camera 07		12.														25	26	27	28	29	30	1
Camera 08																2	3	4	>	0	1	8
Camera 09																		a	Sear	ch		
Camera 10																						
Camera 11																						
Camera 12																						
Camera 13																						
Camera 14																						
Camera 15						11		-	•			-	O	£	*	0	0.	00	. 00		+	
Camera 16													-1	- 1					•	L CARDO		
	4.00	05:00	00:00	07:00	08:00		20 09:00	12-11-	22 09:	56:20	44-00		10:00		13:00		44.00			:00	Θ	0
	4:00	05:00	06:00	07:00	08:00		09:00		10:00		11:00		12:00		13:00		14:00		18	:00		
									-					1	Comman	d 🗖	Sched	ule I	Ala	m 🗆	Man	ual

Figure 10.3 Playback Page

5. Use the buttons on the toolbar to operate in playback mode

			••	*	Þ	· · · · · · · · · · · · · · · · · · ·	
--	--	--	----	---	---	---------------------------------------	--

Figure 10.4 Playback Toolbar

Button	Operation	Button	Operation
	Select window-division mode) II	Play/Pause
	Stop playing	••	Slow forward
*	Fast forward	Þ	Play by single frame
	Stop all channels from playing		Capture pictures in playback mode
.	Download video files	*/*	Start/Stop clipping video files
	Audio on/off		

Table 10.1 Description of Toolbar

6. You can also drag the progress bar with the mouse to locate the exact playback point. You can also input the time and click button to locate the playback point.





The color of the video on the progress bar stands for the different video types .

Command Schedule Alarm Manual
Figure 10.6 Progress Bar

Chapter 11 Managing User Accounts

Click Remote Configuration>Remote Configuration>User Management to enter the User Information

interface:

Ad	d	Modify Delete
No.	User Name	e Level
1	admin	Administrator

Figure 11.1 User Information Interface

.

The **admin** user is allowed to create normal users. And up to 31 users can be created.

11.1 Adding a User

Steps:

- 1. Click Add to enter the Add user interface.
- 2. Input the User Name and Password, and confirm the password.
- 3. Select the Level to Operator or User.

Add user			
User Name	test01	Password	•••••
Level	Operator -	Confirm	•••••
Basic Permi	ssion Camera Configurat	ion	
Local: Configura	tion		Remote: Configuration
🔲 Local: Upgra	de/Format		Remote: Parameters Settings
Local: Shutdo	own/Reboot		Remote: Log Search / Interrogate Working Status
🔲 Local: Param	neters Settings		🔲 Remote: Upgrade / Format
V Local: Log Se	earch		🗹 Remote: Two-way Audio
			🔲 Remote: Shutdown / Reboot
			Remote: Notify Surveillance Center / Trigger Alarm Output
			Remote: Video Output Control
			Remote: Serial Port Control
ОК	Back		

Figure 11.2 Add a User

Different user level is given with different permissions:

• **Operator:** The *Operator* user level has permission of Local Log Search in Local Configuration, Remote Log Search and Two-way Audio in Remote Configuration and all operating permission in Camera Configuration.

- User: The Guest user has permission of Local Log Search in Local Configuration, Remote Log Search in Remote Configuration and only has the local/remote playback in the Camera Configuration.
- 4. Configure the user permissions for the created user account, including the Basic Permission and Camera Operation.
- 5. Click **OK** to finish the user addition.

11.2 Modifying a User

Steps:

1. Select a user account from the list on the User Information interface to be modified.

er Info	rmation		
Ad	4 b	lodify Delete	
No.	User Name	Level	
1	admin	Administrator	
2	test01	Operator	
3	test02	User	

Figure 11.3 Select a User

2. Click Modify to enter the setting interface.

Modify user			
User Name	test01	Password	•••••
Level	Operator -	Confirm	•••••
Basic Perm	ission Camera Configurat	ion	
Local: Configura	ation		Remote: Configuration
🔽 Local: Upgra	de/Format		Remote: Parameters Settings
🔽 Local: Shutd	own/Reboot		Remote: Log Search / Interrogate Working Status
🔽 Local: Param	neters Settings		🔽 Remote: Upgrade / Format
V Local: Log S	earch		Remote: Two-way Audio
			Remote: Shutdown / Reboot
			Remote: Notify Surveillance Center / Trigger Alarm Output
			Remote: Video Output Control
			Remote: Serial Port Control
ОК	Back		

Figure 11.4 Modify a User

- 3. Modify the User Name, Password and then select User type.
- 4. Configure the user permission for the user, including the Basic Permission and Camera Operation.
- 5. Click **OK** to finish the user modification.

Note: You need the admin password to modify the admin user.

11.3 Deleting a User

Steps:

- 1. Select a user account from the list on the User Information interface to be deleted.
- 2. Click **Delete**, and the information box will pop up:

3. Click **OK** to delete the selected user account.

Chapter 12 Log Search and Maintenance

12.1 Log Search

Purpose

The operation, alarm, exception and information of the device can be stored in log files, which can be viewed and exported at any time.

Before you start

The Log function can be realized only when the Encoder is connected with HDD (for DS-6700HWI/HFI-SATA) or network disk. And make sure the HDD or network disk has been initialized for the first time to use. Please refer to Section 7.3.6 Adding Network Disk for details.

Steps:

- Click Log on the menu bar to enter the Log interface. 1.
- 2. Set the log search conditions to refine your search, including the Major Type, Minor Type, Start Time and End Time.
- 3. Click the **Search** button to start searching log files.
- 4. The matched log files will be displayed on the list shown below.

Note: Up to 100 log files can be displayed each time.

	Live View Pl	ayback	Log Configuration	on				admin Lo
	Time	Major Type	Minor Type	Channel No.	Local/Remote User	Remote Host IP		Search Log
1	2012-11-28 08:27:06	Information	NetHDD Information			0.0.0.0		-
2	2012-11-28 08:27:06	Operation	Remote: Set NetHDD		admin	172.9.11.41		
3	2012-11-28 08:27:07	Operation	Remote: Get Parameters		admin	172.9.11.41		Major Type
ŧ.	2012-11-28 08:27:07	Operation	Remote: Get Parameters		admin	172.9.11.41	=	All Types
5	2012-11-28 08:27:07	Operation	Remote: Get Parameters		admin	172.9.11.41		Minor Type
6	2012-11-28 08:27:07	Operation	Remote: Get Parameters		admin	172.9.11.41		All Types
7	2012-11-28 08:27:10	Operation	Remote: Get Parameters		admin	172.9.11.41	ш	
3	2012-11-28 08:27:10	Operation	Remote: Get Parameters		admin	172.9.11.41		Start Time
9	2012-11-28 08:27:10	Operation	Remote: Get Parameters		admin	172.9.11.41		2012-11-28 00:00:00
0	2012-11-28 08:27:11	Operation	Remote: Get Parameters		admin	172.9.11.41		End Time
1	2012-11-28 08:27:14	Operation	Remote: Get Parameters		admin	172.9.11.41		2012-11-28 23:59:59
2	2012-11-28 08:27:14	Operation	Remote: Get Parameters		admin	172.9.11.41		2012-11-20 23:39:39
3	2012-11-28 08:28:24	Alarm	Start Motion Detection	A4		0.0.0.0		
4	2012-11-28 08:28:24	Information	Start Recording	A1		0.0.0.0		O. Search
5	2012-11-28 08:28:24	Information	Start Recording	A2		0.0.0.0		
6	2012-11-28 08:28:24	Information	Start Recording	A3		0.0.0.0		-
7	2012-11-28 08:28:24	Information	Start Recording	A4		0.0.0.0		🖬 Save Log
в	2012-11-28 08:28:24	Information	Start Recording	A5		0.0.0.0		
9	2012-11-28 08:28:25	Information	Start Recording	A6		0.0.0.0		
D	2012-11-28 08:28:25	Information	Start Recording	A7		0.0.0.0		
1	2012-11-28 08:28:25	Information	Start Recording	A8		0.0.0.0		
2	2012-11-28 08:28:25	Information	Start Recording	A9		0.0.0.0		
3	2012-11-28 08:28:25	Information	Start Recording	A10		0.0.0.0		
4	2012-11-28 08:28:25	Information	Start Recording	A11		0.0.0.0		
5	2012-11-28 08:28:26	Information	Start Recording	A12		0.0.0.0		
	2012 14 20 00-20-20	In formation	Start Deparding	A 4 9		0000		

Figure 12.1 Log Search Interface

5.

You can click the Bave Log button to save the searched log files to local directory.

12.2 Viewing Device Information

Click **Remote Configuration > Device Parameters > Device Information** to enter the Device Information interface of the encoder:

Basic Information	
Device Name	Embedded Net DVS
Device No.	255
Model	DS-6716HW
Serial No.	DS-6716HW0020121108BBRR201211083WC
Firmware Version	V1.0.0 build 121108
Encoding Version	V1.0 build 121108
Number of Channels	16
Number of HDDs	1
Number of Alarm Input	16
Number of Alarm Output	4
Save	
]	Figure 12.2 Device Information

You can edit the Device Name and Device No., and view the device information, including Model, Serial No., Firmware/Encode Version, Number of Channels, Number of HDDs, and Number of Alarm Input / Output.

12.3 Maintenance

Click Remote Configuration >Maintenance to enter the Maintenance interface of the encoder:

laintenance	
leboot	
Reboot Reboot the device.	
befault second second second second second second second second second second second second second second second	
Restore Reset all the parameters, except the IP parameters and user information, to the default settings.	
Default Restore all parameters to default settings.	
nport Config. File	
config File Browse Import	
tatus	
xport Config. File	
Export	
lemote Upgrade	
irmware Browse Upgrad	e
tatus	
ote: The upgrading process will be 1 to 10 minutes, please don't disconnect power to the device during the process. The device reboots automatically after upgrading.	
Figure 12.3 Maintenance Page	

12.3.1 Restarting the Device

On the Maintenance> Reboot interface, click Reboot to enter the following message box:

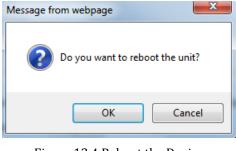


Figure 12.4 Reboot the Device

Click **OK** to reboot the device or **Cancel** to cancel the operation.

12.3.2 Restoring Default Settings

On the **Maintenance> Default** interface, click **Restore or Default** to restore device parameters to the factory settings.

Default

Conduct	
Restore	Reset all the parameters, except the IP parameters and user information, to the default settings.
Default	Restore all parameters to default settings.

Figure 12.5 Restore Default Settings

- By selecting the **Restore** button, the device restores the default settings for the parameters except the IP address, subnet mask, gateway and port.
- By selecting the **Default** button, the device restores the default settings for all parameters.

On the pop-up message box, click **OK** to restore and reboot the device to validate the settings.

Message fro	om webpage
?	Device will reboot automatically after restoring. Continue?
	OK Cancel
	Figure 12.6 Pop-up Message Box

12.3.3 Importing/Exporting Configuration Files

The configuration files of the device can be exported to local device for backup; and the configuration files of one device can be imported to multiple device devices if they are to be configured with the same parameters.

• On the **Maintenance> Import Config File** interface, click **Browse** to select the file from the selected backup device and then click the **Import** button to import a configuration file.

Note: After having finished the import of configuration files, the device will reboot automatically.

• On the **Maintenance**> **Export Config File** interface, click the **Export** button to export configuration files to the selected local backup device.

Import Config. File		
Config File	Browse	Import
Status		
Export Config. File		
Export		

Figure 12.7 Import/Export Config Files

12.3.4 Upgrading the System

On the **Maintenance> Remote Upgrade** interface, click **Browse** to select the local update file and then click **Upgrade** to start remote upgrade.

Remote Upgrade			
Firmware		Browse	Upgrade
Status			
Note: The upgrading process will be 1 to 10 minutes, please don't disconnect power to the device during the process. The device reboots automatically after upgrading.			

Figure 12.8 Remote Upgrade

Chapter 13 FAQ

• Why cannot ping the Encoder?

Please refer to Chapter 3 to configure the device's IP being in the same segment as your PC, and check the cable and switch.

• Why the transparent channel has been set, but the encoder still cannot receive data?

1. Check if RS-232 has been set as transparent channel first.

- 2. Check the connection of encoder.
- Why cannot add encoder with software?
 - 1. Check the encoder IP.
 - 2. Make sure the cable is connected.
 - 3. User name and password of encoder are correct.

• Why cannot control the connected PTZ camera or speed dome through the encoder?

1. Check the RS-485 connection of the device with the PTZ camera or dome.

2. Check whether the PTZ address, protocol and baud rate of the device are set to be the same with the connected camera or speed dome.

• Why cannot view the video image through IE browser?

- 1. Check the network connection.
- 2. Check the user name and password of encoder are entered correctly.
- 3. Check the port of encoder is entered correctly.