

DS-6700HQHI-SATA Series Encoder

User Manual

UD.7L0202D2171A01

User Manual

COPYRIGHT ©2015 Hangzhou Hikvision Digital Technology Co., Ltd.

ALL RIGHTS RESERVED.

Any and all information, including, among others, wordings, pictures, graphs are the properties of Hangzhou Hikvision Digital Technology Co., Ltd. or its subsidiaries (hereinafter referred to be "Hikvision"). This user manual (hereinafter referred to be "the Manual") cannot be reproduced, changed, translated, or distributed, partially or wholly, by any means, without the prior written permission of Hikvision. Unless otherwise stipulated, Hikvision does not make any warranties, guarantees or representations, express or implied, regarding to the Manual.

About this Manual

This Manual is applicable to DS-6700HQHI-SATA Encoder.

The Manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website (<u>http://overseas.hikvision.com/en/</u>). Please use this user manual under the guidance of professionals.

Trademarks Acknowledgement

HIKVISION and other Hikvision's trademarks and logos are the properties of Hikvision in various jurisdictions. Other trademarks and logos mentioned below are the properties of their respective owners.

Legal Disclaimer

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE PRODUCT DESCRIBED, WITH ITS HARDWARE, SOFTWARE AND FIRMWARE, IS PROVIDED "AS IS", WITH ALL FAULTS AND ERRORS, AND HIKVISION MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY, SATISFACTORY QUALITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT OF THIRD PARTY. IN NO EVENT WILL HIKVISION, ITS DIRECTORS, OFFICERS, EMPLOYEES, OR AGENTS BE LIABLE TO YOU FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES, INCLUDING, AMONG OTHERS, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, OR LOSS OF DATA OR DOCUMENTATION, IN CONNECTION WITH THE USE OF THIS PRODUCT, EVEN IF HIKVISION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

REGARDING TO THE PRODUCT WITH INTERNET ACCESS, THE USE OF PRODUCT SHALL BE WHOLLY AT YOUR OWN RISKS. HIKVISION SHALL NOT TAKE ANY RESPONSIBILITES FOR ABNORMAL OPERATION, PRIVACY LEAKAGE OR OTHER DAMAGES RESULTING FROM CYBER ATTACK, HACKER ATTACK, VIRUS INSPECTION, OR OTHER INTERNET SECURITY RISKS; HOWEVER, HIKVISION WILL PROVIDE TIMELY TECHNICAL SUPPORT IF REQUIRED.

SURVEILLANCE LAWS VARY BY JURISDICTION. PLEASE CHECK ALL RELEVANT LAWS IN YOUR JURISDICTION BEFORE USING THIS PRODUCT IN ORDER TO ENSURE THAT YOUR USE CONFORMS THE APPLICABLE LAW. HIKVISION SHALL NOT BE LIABLE IN THE EVENT THAT THIS PRODUCT IS USED WITH ILLEGITIMATE PURPOSES.

IN THE EVENT OF ANY CONFLICTS BETWEEN THIS MANUAL AND THE APPLICABLE LAW, THE LATER PREVAILS.

Regulatory Information

FCC Information

FCC compliance: This equipment has been tested and found to comply with the limits for a Class 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

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 EMC Directive 2004/108/EC, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection

points. For more information see: www.recyclethis.info



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: <u>www.recyclethis.info</u>

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into "Warnings" and "Cautions"

Warnings: Serious injury or death may occur if any of the warnings are neglected.

Cautions: Injury or equipment damage may occur if any of the cautions are neglected.

A		Δ	
Warnings	Follow	these	Cautions Follow these
safeguards	to p	orevent	precautions to prevent
serious inju	ry or deat	h.	potential injury or
			material damage.



Warnings

- · Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.
- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region. Please refer to technical specifications for detailed information.
- Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 100 to 240 VAC, 48VDC or 12 VDC according to the IEC60950-1 standard. Please refer to technical specifications for detailed information.
- Do not connect several devices to one power adapter as adapter overload may cause over-heating or a fire hazard.
- Please make sure that the plug is firmly connected to the power socket.
- If smoke, odor or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.

Preventive and Cautionary Tips

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

- Ensure unit is installed in a well-ventilated, dust-free environment.
- Unit is designed for indoor use only.
- Keep all liquids away from the device.
- Ensure environmental conditions meet factory specifications.
- Ensure unit is properly secured to a rack or shelf. Major shocks or jolts to the unit as a result of dropping it may cause damage to the sensitive electronics within the unit.
- Use the device in conjunction with an UPS if possible.
- Power down the unit before connecting and disconnecting accessories and peripherals.
- A factory recommended HDD should be used for this device.
- 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.

TABLE OF CONTENTS

Product K	ey Features	7
Chapter 1	Introduction	9
1.1	Front Panel	9
1.2	Rear Panel	9
1.3	Alarm Connections	10
	1.3.1 Alarm Input Connections	10
	1.3.2 Alarm Output Connections	10
Chapter 2	Activation and Initial Network Configuration for the Encoder	12
2.1	Setting the Admin Password via Web Browser	12
2.2	Setting Admin Password and Modifying Network Parameters via Client Software	13
Chapter 3	Access to DS-6700HQHI-SATA by WEB Browser	16
3.1	Installing Web Components	16
3.2	Main Page	18
Chapter 4	Live View	19
4.1	Starting Live View	19
	4.1.1 Main/Sub Stream Live View	20
	4.1.2 Full-screen Mode	20
4.2	Capturing the Picture	21
4.3	Operating PTZ Control	21
	4.3.3 Operating PTZ Movement	22
	4.3.4 Setting/Calling a Preset	22
	4.3.5 Setting/Calling a Patrol	24
4.4	Configuring Video Parameters	25
Chapter 5	Device Configuration	27
5.1	Local Configuration	27
5.2	Device Parameters	28
	5.2.1 Configuring Time Settings	28
	5.2.2 Configuring Packet Time of Recording	29
5.3	Network Settings	30
	5.3.1 Configuring TCP/IP Settings	30
	5.3.2 Configuring Port Settings	31
	5.3.3 Configuring DDNS Settings	32
	5.3.4 Configuring PPPoE Settings	34
	5.3.5 Configuring Email Settings	34
	5.3.6 Adding Network Disk	36
	5.3.7 Configuring SNMP Settings	38
	5.3.8 Configuring UPnP TM Settings	39
	5.3.9 Configuring HTTPS Settings	40
	5.3.10 Configuring EZVIZ Cloud P2P	42
	5.3.11 Configuring Multicast Address	42
	5.3.12 Configuring Remote Alarm Host	42
Chapter 6	Camera Settings	44

6.1	Confi	guring OSD Settings	44
	6.1.1	Configuring Display Settings	44
	6.1.2	Configuring Text Overlay	45
6.2	Confi	guring Video Settings	47
6.3	Confi	guring and Handling Alarms	48
	6.3.3	Configuring Motion Detection	48
	6.3.4	Configuring External Alarm Input	54
	6.3.5	Configuring Video Loss Alarm	55
	6.3.6	Configuring Video Tempering Alarm	56
	6.3.7	Handling Exception	57
6.4	Confi	guring Privacy Mask	57
Chapter 7	7	Record Settings	59
7.1	Confi	guring Holiday Settings	59
7.2	Confi	guring Scheduled Record	60
Chapter 8	3	Playback	64
Chapter 8 Chapter 9		Playback Managing User Accounts	
•)	•	66
Chapter 9	Addin	Managing User Accounts	 66 66
Chapter 9 9.1	Addin Modif	g a User	 66 66 67
Chapter 9 9.1 9.2	Addin Modif Deleti	Wanaging User Accounts ug a User Sying a User	 66 66 67 68
Chapter 9 9.1 9.2 9.3 Chapter 1	Addin Modif Deleti	Managing User Accounts g a User ying a User ng a User	66 66 67 68 69
Chapter 9 9.1 9.2 9.3 Chapter 1 10.1	Addin Modif Deleti 0 Log S	Managing User Accounts g a User ying a User ng a User Log Search and Maintenance	66 66 67 68 69
Chapter 9 9.1 9.2 9.3 Chapter 1 10.1 10.2	Addin Modif Deleti 10 Log S Viewi	Managing User Accounts g a User fying a User ng a User Log Search and Maintenance earch	66 66 67 68 69 69 70
Chapter 9 9.1 9.2 9.3 Chapter 1 10.1 10.2	Addin Modif Deleti 0 Log S Viewi Maint	Managing User Accounts ug a User ug a User ng a User ug a User ug a User ug a User ug bearch and Maintenance ug Device Information	66 67 68 69 69 70 70
Chapter 9 9.1 9.2 9.3 Chapter 1 10.1 10.2	Addin Modif Deleti O Log S Viewi Maint 10.3.1	Managing User Accounts ug a User ying a User ng a User Log Search and Maintenance earch ng Device Information enance	66 67 68 69 69 70 70 71
Chapter 9 9.1 9.2 9.3 Chapter 1 10.1 10.2	Addin Modif Deleti 10 Log S Viewi Maint 10.3.1 10.3.2	Managing User Accounts ug a User ug a User ng a User Log Search and Maintenance earch ng Device Information enance Restarting the Device	66 67 68 69 70 70 71
Chapter 9 9.1 9.2 9.3 Chapter 1 10.1 10.2	Addin Modif Deleti Log S Viewi Maint 10.3.2 10.3.3	Managing User Accounts ug a User fying a User ng a User Log Search and Maintenance earch ng Device Information enance Restarting the Device Particular Particular	66 66 67 68 69 70 70 71 71 72
Chapter 9 9.1 9.2 9.3 Chapter 1 10.1 10.2	Addin Modif Deleti 10 Log S Viewi Maint 10.3.1 10.3.2 10.3.3 10.3.4	Managing User Accounts og a User ig a User ing Search and Maintenance Ing Device Information Ing Device Information Ing Restarting the Device Ing Restoring Default Settings Importing/Exporting Configuration Files	66 67 68 69 70 70 71 71 72 72

Product Key Features

General

- Connectable to HD-TVI and analog cameras
- Connectable to the Coaxitron camera/dome with long transmission distance
- Each channel supports dual-stream with up to 1080p resolution
- Independent configuration for each channel, including resolution, frame rate, bit rate, image quality, etc
- Encoding for both video stream and video and audio stream; audio and video synchronization during composite stream encoding
- Watermark technology

Monitoring

- Motion detection, video-tampering detection, video exception alarm, video loss alarm and VCA alarm functions
- Privacy mask
- Several PTZ protocols supported; PTZ preset, patrol and pattern

HDD Management

- Up to 2 SATA hard disks can be connected
- Each disk with a maximum of 6TB storage capacity
- S.M.A.R.T. and bad sector detection
- HDD sleeping function
- HDD property: redundancy, read-only, read/write (R/W)
- HDD group management
- HDD quota management; different capacity can be assigned to different channels

Recording and Playback

- Holiday recording schedule configuration
- Cycle and non-cycle recording modes
- Normal and event video encoding parameters
- Multiple recording types: continuous, alarm, motion, motion | alarm, motion & alarm and VCA
- 8 recording time periods with separated recording types
- Pre-record and post-record for motion detection triggered recording, and pre-record time for schedule and manual recording
- Searching record files by events (alarm input/motion detection)
- Locking and unlocking of record files
- Redundant recording
- Searching and playing back record files by camera number, recording type, start time, end time, etc.
- Smart playback to go through less effective information (only supported by client software)
- Reverse playback

• Supports pause, fast forward, slow forward, skip forward, and skip backward when playback, locating by dragging the mouse on the progress bar

Alarm and Exception

- Configurable arming time of alarm input/output
- Alarm for video loss, motion detection, video tampering, abnormal signal, video input/recording resolution mismatch, illegal login, network disconnected, IP confliction, record exception, HDD error, and HDD full, etc.
- Alarm triggers, audio alarm, notifying surveillance center, sending email and alarm output
- VCA detection alarm (line crossing detection and intrusion detection) is supported by client software
- Support coaxial alarm

Network Functions

- 1 self-adaptive 10M/100M/1000M network interface
- IPv6 is supported
- TCP/IP protocol, PPPoE, DHCP, DNS, DDNS, NTP, SADP, SMTP, SNMP, NFS, iSCSI, UPnP[™] and HTTPS are supported
- Extranet access by HiDDNS
- Support access by EZVIZ Cloud P2P
- TCP, UDP and RTP for unicast
- Auto/Manual port mapping by UPnPTM
- Remote search, playback, download, locking and unlocking the record files, and downloading files broken transfer resume
- Remote parameters setup; remote import/export of device parameters
- Remote viewing of the device status, system logs and alarm status
- Remote keyboard operation
- Remote HDD formatting and program upgrading
- Remote system restart and shutdown
- Alarm and exception information can be sent to the remote host
- Remotely start/stop recording
- Remotely start/stop alarm output
- Remote PTZ control
- Remote JPEG capture
- Two-way audio and voice broadcasting
- Embedded WEB server

Development Scalability

- SDK for Windows and Linux system
- Source code of application software for demo
- Development support and training for application system

Chapter 1 Introduction

1.1 Front Panel

DS-6708HQHI-SATA/DS-6716HQHI-SATA:



Figure 1. 1 DS-6708HQHI-SATA/DS-6716HQHI-SATA Front Panel

	Table 1. 1 Indicator Description		
	Indicator	Description	
1	POWER	Lights in green when the device is powered on.	
2	STATUS	Lights in green when data is being read from or written to	
		HDD.	
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.	

Table 1. 1 Indicator Description

1.2 Rear Panel

DS-6708HQHI-SATA:

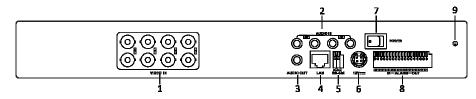


Figure 1. 2 DS-6708HQHI-SATA Rear Panel

DS-6716HQHI-SATA:

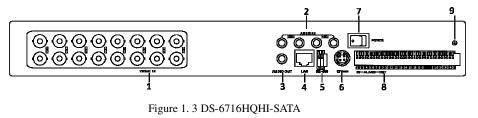


Table	1.2	Interface	Descrip	otion
-------	-----	-----------	---------	-------

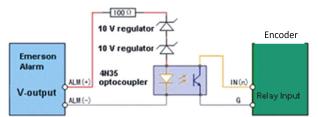
	Description
1	VIDEO IN
2	AUDIO IN, RCA Connector
3	AUDIO OUT, RCA Connector
4	LAN Network Interface
5	RS-485 Serial Interface
6	12 VDC Power Input
7	Power Switch
8	ALARM IN and ALARM OUT
9	GND

1.3 **Alarm Connections**

1.3.1 Alarm Input Connections

DS-6700HQHI-SATA 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 1. 4 Alarm Input Connections for Emerson Alarm

Alarm input connections for Normal Alarm:

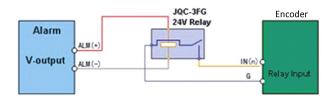


Figure 1.5 Alarm Input Connections for Normal Alarm

1.3.2 Alarm Output Connections

DS-6700HQHI-SATA 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:

Alarm output connections diagram:

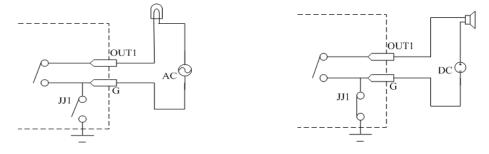


Figure 1. 6 Alarm Output Connections

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 2 Activation and Initial Network Configuration for the Encoder

You are required to activate the encoder first by setting a strong password for it. Activation via Web Browser, Activation via SADP, and Activation via Client Software are all supported.

2.1 Setting the Admin Password via Web Browser

Steps:

- 1. Power on the encoder, and connect the encoder to the network.
- 2. Input the IP address into the address bar of the web browser, and press Enter to enter the activation interface.



The default IP address of the network encoder is 192.0.0.64. You are recommended to change the default IP address after your access.

		English
Activation		
User Name	admin	
Password		
	Valid password range (8-16). You can use a	
	combination of numbers, lowercase, uppercase and special character for your	
	password with at least two kinds of them contained.	
Confirm		
		ок

Figure 2. 1 Activation Interface

3. Create a password and input the password into the password field.

STRONG PASSWORD RECOMMENDED – We highly recommend that you create a strong
password of your own choosing (using 8-16 characters, including upper case letters, lower case letters,
numbers, and special characters) in order to increase the security of your product. And we recommend that
you reset your password regularly, especially in the high security system, resetting the password monthly or
weekly can better protect your product.

4. Confirm the password.

 $\mathbf{\Lambda}$

5. Click **OK** to save the password and enter the live view interface.

2.2 Setting Admin Password and Modifying Network Parameters via Client Software

The client software is versatile video management software for multiple kinds of devices.

Get the client software from the supplied disk or the official website, and install the software according to the prompts. Follow the steps to activate the camera.

Steps:

1. Run the client software and the control panel of the software pops up, as shown in the figure below.

File System View Tool Help	📩 iVMS-4200	kate 🔀 🗱 🏭 09:31:52 🔒 🗕 🗗 🗙
Control Panel 🚔 Device Management		
Operation and Control		
Kain View Viewing tive video, controlling PTZ Parameters.	Searching the record files and Addin	p a.modifing, deleting, and basic fore of E-map.
Maintenance and Management		
Device Hanagement The management of the devices and props: adding dealing and the configuration of the resources.	Configuration of alarm, abnormal	rd Schedule gunt The recording schedule and d parameters.
Account Management Adding, deleting users and assigning the permissions.	Las Casada Casada view and basing	m Configuration gure general parameters.
🙆 👃 🖾 🍁 No e-mail account is configured, and all the sending	perations are stopped.	<i>∳</i> ⊏ *

Figure 2. 2 Control Panel

2. Click the Device Management icon to enter the Device Management interface, as shown in the figure below.

System View Tool Help		📩 ivms-	4200	kate 😨 🗱 🛗 09:34:47 🔒 🗕 🗗
Control Panel 🖉 De	evice Management			
Server 🗃 Group				
📸 Add Group 🛛 🍞 Delete Group	Resources of Group test			
earch	Import Modify	Delete Remote Config VCA	Configura	Filter
l 💼 test	Nickname	≜ ∣IP	Device Serial No.	
Encoding Channel	test_Camera1	10.16.1.93	20141119CCWR490340679B	
Alarm Input	test_A1	10.16.1.93	20141119CCWR490340679B	
	test_A2	10.16.1.93	20141119CCWR490340679B	
	test_A3	10.16.1.93	20141119CCWR490340679B	
	test_A4	10.16.1.93	20141119CCWR490340679B	
	test_A5	10.16.1.93	20141119CCWR490340679B	
	test_A6	10.16.1.93	20141119CCWR490340679B	
	test_A7	10.16.1.93	20141119CCWR490340679B	
			III 📾 🜒 😳	

Figure 2. 3 Control Panel

- 3. Check the device status from the device list, and select an inactive device.
- 4. Click the Activate button to pop up the Activation interface.
- 5. Create a password and input the password in the password field, and confirm the password.

STRONG PASSWORD RECOMMENDED– We highly recommend that you create a strong password of your own choosing (using 8-16 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend that you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

	Activation	,
User Name:	admin	
Password:	•••••	
		Strong
	Valid password range [8-16]. You can use a combination of numbers, lowercase, uppercase and special character for your password with at least two kinds of them contained.	
Confirm New Password:	•••••	
		ncel
	Ok Ca	ncer

Figure 2. 4 Activation Interface (Client Software)

- 6. Click **OK** button to start activation.
- 7. Click the **Modify Netinfo** button to pop up the Network Parameter Modification interface, as shown in the figure below.

	Modify Network Parameter	
Device Information:		
MAC Address:	XX-XX-XX-XX-XX	Сору
Software Version:	Vx.x.xbuild xxxxxx	Сору
Device Serial No.:	XX-XXXXXXXX-XXXXXXXXXXXXXXXXXXXXX	Сору
Network Information:		
Port:	8000	
IPv4(Enable)		
IP address:	192.168.1.64	
Subnet Mask:	255.255.255.0	
Gateway:	192.168.1.64	
IPv6(Disable)		
Password:	•••••	
	OK	Cancel

Figure 2. 5 Modifying the Network Parameters

- 8. Change the device IP address to the same subnet with your computer by either modifying the IP address manually or checking the checkbox of Enable DHCP.
- 9. Input the password to activate your IP address modification.

Chapter 3 Access to DS-6700HQHI-SATA by WEB Browser

The DS-6700HQHI-SATA 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 IP address of the device is 192.0.0.64.

3.1 Installing Web Components

Steps:

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



When the HTTPS feature is enabled, the system uses the HTTPS login mode (e.g., https://192.0.0.64) by default. 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 3. 1 Login Page

Input the user name and the password to log into the system.



In the Login dialog box, if you have entered the wrong password for 7 times for the admin user or 5 times for the

normal user, the current user account will be locked for 30 seconds.

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

Message from webpage	×
New version of	plug-in is detected. Update it?
	OK Cancel

Figure 3. 2 Download and Install Plug-in

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

Do you	want to run or save this file?
	Name: WebComponents.exe Type: Application, 993KB From: 172.9.11.66 Run Save Cancel
۲	While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. <u>What's the risk?</u>

Figure 3. 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

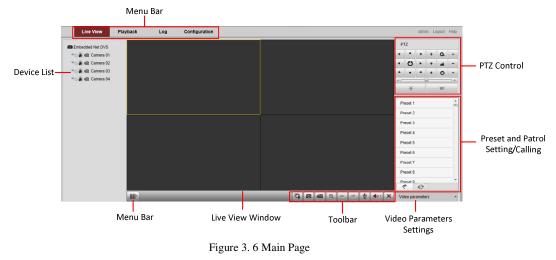
Figure 3. 4 Click Next

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

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

Figure 3. 5 Install the Web Components

3.2 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: 1/4/9/16split screen modes.

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 4 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.

4.1 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 4.1 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 4. 1 Description of Toolbar

Icon	Description
	Select the window-division mode with 1/4/9 split screens available
	Start/Stop live view
	Capture pictures in live view mode
	Manually start/stop recording
•	Enable e-PTZ
ŧ	Previous page

Icon	Description
-	Next page
	Audio on/off
L	Start/Stop two-way audio
	Switch to full-screen live view mode.

NOTE

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

4.1.1 Main/Sub Stream Live View

You can select the main stream or sub stream for live view by clicking the corresponding icon as shown below:

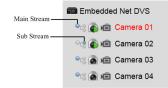


Figure 4. 2 Main Stream/Sub Stream for Live View

The main stream gets higher video quality while the sub stream requires lower bandwidth.

4.1.2 Full-screen Mode

You can click the solution on the toolbar or double click on the live video to switch to the full-screen view mode. To switch back to the normal mode, click the solution or double click on the live video again. Please refer to the following section for more information:

- 1. Capturing pictures on Section Capturing the Picture. .
- 2. Configuring recording on

- 3. Record Settings.
- 4. Setting the image quality of live view on Section Local Configuration.
- 5. Setting the saving path for the recorded video files and captured pictures on Section Local Configuration.
- 6. Setting the OSD text on live video on Section Configuring OSD Settings.

4.2 Capturing the 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.

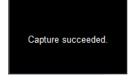


Figure 4. 3 Picture Capture Succeeded



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

4.3 Operating PTZ Control

Before you start:

- 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-6700HQHI-SATA 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 4. 4 RS-485 Settings

4.3.3 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-		
•	•	4	+	0	-
•	C	•	+	-	-
٠		4	+	a	-
PT	Z				

Figure 4. 5 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 4. 2 Description of PTZ Control Buttons

Button	Description
+ Q	Zoom in/out
+ 🔺 -	Focus near/far
+ 0 -	Iris open/close
÷	Light
¶h	Wiper
- @ +	Adjust speed of pan/tilt movement

4.3.4 Setting/Calling a Preset

Setting a Preset:

- 1. In live view mode, click the from the PTZ control area to enter the preset settings interface.
- 2. Select a preset number from the preset list.

Preset 1	+	Ľ) (E)
Preset 2			
Preset 3			-
Preset 4			
Preset 5			
Preset 6			-
Preset 7			-
Preset 8			-
۰ م			

Figure 4.6 Set a Preset

- 3. 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.
- 4. 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			-
]		

Figure 4. 7 Call a Preset

Linking to Alarm:

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

PTZ Linking		
PTZ Linking	A1 -	
Preset No.:	1 -	Enable
Patrol No.:	1 -	Enable
Pattern No.:	1 -	Enable
Figure 4.	8 PTZ Linking	ç

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

4.3.5 Setting/Calling a Patrol

Setting a Patrol:

- 1. In live view mode, click the from the PTZ control area to enter the patrol settings interface.
- 2. Select a patrol number from the patrol list for setting.

Figure 4. 9 Patrol Setting

3. Click the 👘 button to enter the Add Patrol Path interface.

Add Pa	trol Path
Preset:	Preset 1 🔹
Patrol duration	1
Patrol Speed	1
ОК	Cancel

Figure 4. 10 Add Patrol Path

Configure patrol parameters, including the preset No., duration of staying for one preset and speed of patrol.
 Preset: determines the order at which the PTZ will follow while cycling through the patrol.

Patrol Duration: refers to the time span to stay at the corresponding key point. The duration can be set from 1 to 30 sec.

Patrol Speed: defines the speed at which the PTZ will move from one key point to the next. The speed can be set from 1 to 40.



Hold the **backspace** in the keyboard while changing the number in the text fields of Patrol Duration and Patrol Speed.

5. Click **OK** to save the path to the current patrol.



Figure 4. 11 Added Patrol Path

6. Repeat the above step 3 to 5 to add more patrol paths.

You can also click \blacksquare to edit the existing patrol path, or click \blacksquare to delete it.

7. Click \blacksquare to save the patrol settings.

Repeat the above steps to configure other patrols.

Calling a Patrol:

The PTZ camera will move according to the predefined patrol path when you call a patrol.

In live view mode, select a predefined patrol from the list and click the 💷 icon to start calling a patrol, and click

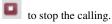




Figure 4. 12 Call a Patrol

4.4 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 para	meters
standard	d 🔘 indoor
outdoor	O dimLight
Brightness	
Contrast	
Saturation	128
Hue	
Sharpness	-Q 1
Denoising	2
~~	Default

Figure 4. 13 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 from 0 to 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 from 0 to 15 and the denoising level from 0 to 3. The default value is 3 for the sharpness, and 1 for the denoising level.



You can click the *Constant* button to restore the default settings.

Chapter 5 Device Configuration

5.1 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 💌	
Auto Start Live View	No	
Highlight Event Area	Disable	
Save record files to	C:\Users	Browse
Save snapshots in live view to	C:\Users	Browse
Save snapshots when playback to	C:\Users	Browse
Save clips to	C:\Users	Browse
Save downloaded files to	C:\Users	Browse
Save		

Figure 5. 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 Configuring Video Settings* for the parameters settings of the main stream and sub stream respectively. **Image Size:** Select the split screen 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 Shortest Delay, Real Time, Balanced or Fluency.

Auto Start Live View: Enable or disable the auto-start of live view once you open the Web browser.

Highlight Event Area: Enable or disable the Highlight Event Area. When this feature is enabled, the motion detection triggered frame for the moving targets in the motion detection area will be highlighted in green color. Please refer to *Chapter 8.4.1 Configuring Motion Detection*.

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.



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

5.2 Device Parameters

5.2.1 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	
O NTP	
Server Address	
NTP Port	123
Interval	60 min.
Manual Time Sync.	
Manual Time Sync.	
Device Time	2015-08-17T15:21:26
Set Time	2015-08-17T15:20:19
Enable DST	
Start Time	Jan 🔻 First 👻 Sun 👻 00 👻
End Time	Jan 🔻 First 🔻 Sun 🔻 02 💌
DST Bias	30min 🔻
Save	

Figure 5. 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	Ŧ

- Figure 5. 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 5. 4 Time Sync by NTP Server



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 Manually

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

					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		8	9	10
Device Time	2013-07-02T17:59:02		T	ime	17 :	33 :	31	*	
Set Time	2013-07-02T17:33:31	Sync. with computer time	Ð						ок

Figure 5. 5 Manual Time Sync

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

• Click the **DST** tab page to enable the DST function and set the date of the DST period.

Enable DST								
Start Time	Jun	•	First	•	Sun	•	00	•
End Time	Aug	•	Last	•	Sun	•	23	•
DST Bias	30min							•
Save								

Figure 5. 6 DST Settings

4. Click the Save button to save the settings.

5.2.2 Configuring Packet Time of Recording

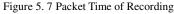
The recorded file is packed in 1G by default. You can also customize the packet time in the advanced settings

page.

Steps:

1. Click Remote Configuration> Device Parameters> Advanced to enter the advanced settings interface.

Advanced	
Enable Overwriting	
Packet Time	min.
Save	



2. Set the packet time of the recorded file.



The packet time can be set from 1 to 300 minutes.

3. Click Save to save the settings.

5.3 Network Settings

5.3.1 Configuring TCP/IP Settings

Network settings must be properly configured before operating 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 5. 8 TCP/IP Settings

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



The valid value range of MTU is 500 to 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 5. 9 DNS Server Settings

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

5.3.2 Configuring Port Settings

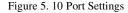
Purpose:

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
Server Port	8000
Save	



2. Set the HTTP port, RTSP port, HTTPS port, and Server Port 8000 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.

Server Port: The default port number is 8000.

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



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

5.3.3 Configuring DDNS Settings

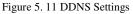
If your device is set to use PPPoE as its default network connection, you may set Dynamic DNS (DDNS) to be used for network access.

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	HIDDNS -
Area	Custom -
Server Address	www.hik-online.com
Domain	
User Name	
Password	
Confirm	
Save	



- 2. Check the Enable DDNS checkbox to enable this feature.
- 3. Select **DDNS Type**. Five different DDNS types are selectable: IPServer, DynDNS, PeanutHull, HiDDNS, and NO-IP.
 - 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 5. 12 DynDNS Settings

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



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

Figure 5. 13 IPServer Settings

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

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

Figure 5. 14 PeanutHull Settings

- HiDDNS:
 - (1) Enter the Server Address of the HiDDNS server: <u>www.hik-online.com</u>.
 - (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.



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		
Inable DDNS		
DDNS Type	HIDDNS	
Server Address	www.hik-online.com	
Domain		
User Name		
Password		
Confirm		
Save		
Figure 5. 15 H	IiDDNS Settings	

5.3.4 Configuring PPPoE Settings

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

Steps:

 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	

Figure 5. 16 PPPoE Settings

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



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

4. Click the Save button to save and exit.

5.3.5 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

- 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.
- 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 Imag	
Sender			
Sender's Address			
Choose Receiver	Receiver1 -		
Receiver			
Receiver's Address			
Save			
Figure 5. 17 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.

Email		
Authentication		
UserName		
Password		
Password		
Confirm		
SMTP Server	126.smtp.com	
SMTP Port	25	Enable SSL
Interval	5s 👻	V Attached Image
Sender	test01	
Sender's Address	test01@126.com	
Choose Receiver	Receiver1 -	
Receiver	test02	
Receiver's Address	test02@163.com	
Save		

Figure 5. 18 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 Configuring Motion Detection, Section Configuring External Alarm Input, Section Configuring Video Loss Alarm, Section Configuring Video Tempering Alarm and Section Handling Exception.

5.3.6 Adding Network Disk

For the 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.
- The network storage device is configured with NAS or IP SAN mode (please refer to the User Manual of IP SAN/NAS).

Steps:

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

NetHDD				NetHDD			
HDD No.	Server Address	File Path	Type	HDD No.	Server Address	File Path	Туре
1			NAS -	1			NAS 💌
2			NAS -	2			IP SAN 🔻
3			NAS 👻	3			IP SAN 👻
4			NAS -	4			IP SAN 👻
5			NAS -	5			IP SAN 👻
6			NAS 👻	6			NAS 👻
7			NAS -	7			NAS 👻
8			NAS -	8			NAS -
	Туре	NAS -			Type IP S	AN -	
	Server Address		Search		Server Address		Search

Figure 5. 19 Search Network Disk

- 2. You can search the available NAS/IP SAN disks in the designated storage sever by entering its IP address.
 - 1) Select the type to NAS or IP SAN, as shown in Figure 5.19.

- 2) Enter the IP address of the designated storage server.
- 3) Click Search and the available NAS or IP SAN disks in this storage server will be listed below.
- Select and double click on the searched NAS or IP SAN disk from the list to add it, as shown in Figure 6.20. You can also manually add the NAS or IP SAN by entering the IP address of the server and file path in the text filed.

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.

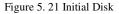
4. Click the **Save** button to add the configured network disk.

etHDD								
HDD No.	Server A	Address		F	ile Path		Тур	e
1	172.10.14.10			/dvr/zp			NAS	-
2	172.10.14.10			iqn.3228-05.std	pros.t-2	_	NAS	Ŧ
3				_			NAS	•
4							NAS	•
5				_		-	NAS	•
6							NAS	•
7	_			_		-	NAS	•
8	_			_			NAS	•
	Туре		IP SA	N	•			
	Server Address		172.10	.14.10		Sear	ch	
	No.			File Pat	h			
	1	iqn.3228-	-05.stor	os.t-2			Ξ	
	2	iqn.3228-	-05.stor	os.t-3				
	3	iqn.3228-	-05.stor	os.t-19				
	4	iqn.3228-	-05.stor	os.t-77				
	5	iqn.3228-	-05.stor	os.t-22			-	
Save								

Figure 5. 20 Network Disk Settings

- 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 No.	Capacity	Free space	Status	Туре	Property
HDD17	0.00GB	0.00GB	Offline	NAS	R/W
HDD18	29.97GB	0.00GB	Uninitialized	NAS	R/W
	N17		DAN		Set
	D17	 Property 	R/W	Ŧ	Set
IDD No. HD	D17	* Property	R/W	•	Set



4) 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.

R/W	•
R/W	
Read-only	
Redundancy	

Figure 5. 22 Set HDD Property



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

5.3.7 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.



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 v2c, and configure the read SNMP community (default: public), write SNMP community (default: private), tap address (default: empty) and trap port (default: 162).

SNMP	
Enable SNMP v2c	
Read SNMP Community	public
Write SNMP Community	private
Trap Address	
Trap Port	162
SNMP Other Settings	
SNMP Port	161
Save	

Figure 5. 23 SNMP Settings (1)

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

5.3.8 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.

TAN				
✓ Enable UPnP™	1			
Port Mapping				
Port Mapping Mode	e Auto	-		
Port Type	External Port	External IP Address	Internal Port	UPnP Status
HTTP	31894	0.0.0.0	80	Valid
RTSP	55277	0.0.0.0	554	Valid
Server Port	43316	0.0.0.0	8000	Valid
		0.0.0.0	443	Valid

Figure 5. 24 UPnPTM Settings-Auto

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



- You can use the default port No., or change it according to actual requirements.
- 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.

NAT ☑ Enable UPnP™					
Port Mapping Mode Port Mapping	Manua	1	•		
HTTP Port	85				
SDK Port	8000				
RTSP Port	554				
HTTPS Port	443				
HTTPS Port Port Status	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
Port Status Protocol Name	Enable				
Port Status Protocol Name HTTP	Enable Yes	85	192.168.1.1	172.6.21.31	Valid

Figure 5. 25 UPnPTM Settings-Manual

5.3.9 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 make sure that the certificate is already installed)		
Create		
Create Create Self-signed Certificate		
Create Create Certificate Request		
Install Signed Certificate		
Certificate Path	Browse	Upload
Created Request		
Created Request	Delete	Download
Installed Certificate		
Installed Certificate	Delete	
Save		

Figure 5. 26 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 5. 27 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.



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 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.

5.3.10 Configuring EZVIZ Cloud P2P

Purpose:

EZVIZ Cloud P2P provides the mobile phone application and as well the service platform page to access and manage your connected DVR, which enables you to get a convenient remote access to the surveillance system. *Steps:*

- 1. Click **Configuration > Network Settings > Platform Access** to enter the EZVIZ Cloud P2P Settings interface.
- 2. The default server address is dev.ezviz7.com. If you want to customize the server, you can enable the **Custom** and enter the server address in the text field.
- 3. Check the Enable checkbox to activate this feature.

5.3.11 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:

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

Advanced	
Alarm Host IP	
Alarm Host Port	0
Multicast Address	239.255.255.20
Enable Telnet	
Save	

Figure 5. 28 Multicast Address Settings

- 5. Enter the multicast address in the text filed.
- Click Save to save the settings.

NOTE

The device will reboot automatically to activate the multicast address settings.

5.3.12 Configuring Remote Alarm Host

Purpose:

With a remote alarm host configured, the device will send the alarm event or exception message to the host when an alarm is triggered. The remote alarm host must have the CMS (Client Management System) software installed. *Steps:*

1. Click **Remote Configuration > Network Settings > Advanced** to enter the alarm host settings interface.

Advanced	
Alarm Host IP	192.0.0.62
Alarm Host Port	7200
Multicast Address	
Enable Telnet	
Save	
Figure 5. 29 Rei	mote Alarm Host

2. Enter Alarm Host IP and Alarm Host Port in the text fields.

The **Alarm Host IP** refers to the IP address of the remote PC on which the CMS (Client Management System) software (e.g., iVMS-4200) is installed, and the **Alarm Host Port** must be the same as the alarm monitoring port configured in the software (default port is 7200). \

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

Chapter 6 Camera Settings

6.1 Configuring OSD Settings

6.1.1 Configuring Display Settings

Purpose:

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

Steps:

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

Display Settings				
Channel No.	Analog Camera1 🔹			
Camera Name	Camera 01			
Live View		OSD Settings		
		Display Name		
		Display Date		
		Display Week		
	John Tethan	Time Format	24-hour	•
		Date Format	MM-DD-YYYY	-
		Display Mode	Not transparent & Not flashing	•
		OSD Size	32*32	•
1 100 18	Camera 01			
Copy to	Save			

Figure 6. 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
Figure 6. 2 Edit	Camera Name

- 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 live view image, you can adjust the OSD location on the screen by moving the text frame.



Figure 6. 3 Adjust OSD Location

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.

Copy to Camera	
Select All	
I⊈A1	
✓A2	
In a start and a start a star	
I A4	
⊠ A5	
⊠ A6	
₩ A7	
₩ A8	
ОК	Cancel

Figure 6. 4 Copy to Camera

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

6.1.2 Configuring Text Overlay

Steps:

- 1. 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		☑1	Highway A
		2	
		3	
		— 4	
		5	
		6	
		7	
		6	
1000 118			
1-0 198			

Figure 6. 5 Text Overlay Settings

 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.

Copy to Camera
Select All
I⊈A1
IØA2
☑A3
Ø A4
▼ A5
☑A6
I ∕A7
8A
OK Cancel

Figure 6. 6 Text Overlay Settings

7. Click **OK** to validate the above settings.

6.2 Configuring Video Settings

Steps:

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

Video Settings			
Channel No.	Analog Camera1	•	
Front-end Resolution	NO VIDEO		
Stream Type	Main Stream(Normal)	Ŧ	
Video Type	Video&Audio	•	
Resolution	1920*1080	•	
Bitrate Type	Constant	•	
Video Quality	Medium	Ŧ	
Frame Rate	30	•	
Max. Bitrate	4096		Kbps
Video Encoding	H.264	Ŧ	
Copy to	Save		

Figure 6. 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 view with good bandwidth, and the sub stream can be used for live view when the bandwidth is low. Refer to the *Chapter Local Configuration* on changing the main stream to sub stream for live view.
- 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 to 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 from 32 to 8192 Kbps.

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

Video Encoding: Select the video encoding standard.



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	
⊠ A4	
₩ A5	
 ₩A6	
₩ A7	
₩ A8	
ОК	Cancel

Figure 6. 8 Copy to Camera

6. Click **OK** to validate the above settings.

6.3 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.

6.3.3 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.

Motion Detection			
Channel No.	Analog Camera1		
Enable Motion Detect	ion		
Enable Dynamic Anal	ysis for Motion		
Area Settings	Arming Schedule	Linkage Metho	d
			Draw Area
	- R3		Clear All
			Sensitivity
Save			

Figure 6. 9 Motion Detection Settings

- (4) You can check the checkbox of Enable Dynamic Analysis for Motion. When this feature is enabled, the motion detection triggered frame (green) for the moving targets in the motion detection area will be displayed on the live video.
- (5) Click the Draw Area button. Draw motion detection area by clicking and dragging the mouse in the live video image.

S-----



By default, the full screen motion detection is configured.

(6) Click the \Box Stop Drawing button to finish drawing.

You can click the Clear All button to clear all areas.

(7) Move the slide bar Sensitivity: Use the camera's sensitivity.

Motion Detection				
Channel No.	Analog Camera1	•		
Enable Motion Detection	tion			
Enable Dynamic Ana	lysis for Motion			
Area Settings	Arming Schedule	Linkage Metho	d	
			□_+	Stop Drawing
	55			Clear All
			Sensitiv	rity
		2		
- 1				
Save				

Figure 6. 10 Motion Detection-Area Settings

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

2. Set the Arming Schedule for Motion Detection *Steps:*

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

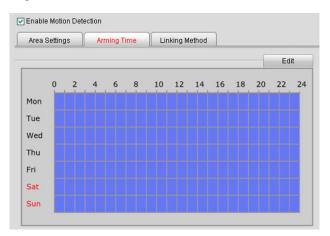


Figure 6. 11 Motion Detection-Arming Time Settings

(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	8	24:00	84
	2		00 :	00		00 : 00	24
	3		00 :	00	6	00 : 00	
	4		00 :	00	100	00 : 00	1
	5		00 :	00	6	00 : 00	
	6		00 :	00		00 : 00	24
	7		00 :	00	6	00 : 00	
	8		00 :	00	e	00 : 00	
	ek Select All	Thu 🗌 Fri 📄 :	Sat 🗌 Sun 📄 H	oliday Copy		OK	Cance
						OK	Cance



- The time of each segment can't be overlapped. Up to 8 segments can be configured for each day.
- 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. A	nalog Camera1 🔹	
Enable Motion Detection		
Area Settings Area	ning Schedule Linkage Me	thod
Normal Linkage	Trigger Alarm Output	Trigger Channel
Eull Screen Monitoring		
🔲 Audible Warning		
Notify Surveillance Cente	r	
Send Email		
Upload to FTP		

Figure 6. 13 Motion Detection-Linking Method

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.

• 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.



To send the Email when an event occurs, you need to go to the network setting interface to set the related parameters. Refer to *Section 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	
A->1	^
A->2	
A->3	
A->4	E
A->5	
A->6	
A->7	
A->8	

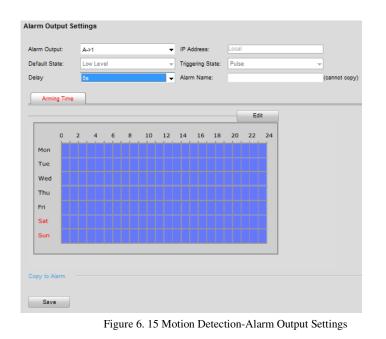
Figure 6. 14 Motion Detection-Trigger Alarm Output



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.



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

2)

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 Configuring Motion Detection*.

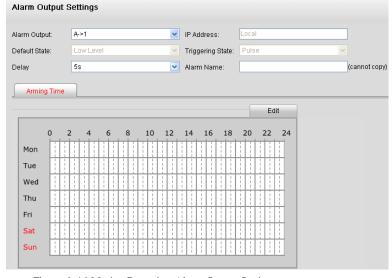


Figure 6. 16 Motion Detection-Alarm Output Settings

- 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.

Select All	
A->3	*
A->4	
A->5	
A->6	
A->7	
A->8	E
A->9	
□A->10	

Figure 6. 17 Motion Detection-Alarm Linked Recording

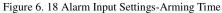
(5) Click **OK** to save the settings of linking method motion detection.

6.3.4 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).





3. Check the checkbox of **Enable** to enable the alarm input.

- 4. Set the arming schedule for the alarm input. Refer to *Step 2 Set the Arming Schedule for Motion Detection* in *Section Configuring Motion Detection*.
- 5. 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 Configuring Motion Detection*.

ormal Linkage	Trigger Alarm Output		Trigger Channel	PTZ Linking
Full Screen Monitoring	A->1	Â	A1	Preset No.
Audible Warning	A->2		A2	1 .
Notify Surveillance Ce	A->3		A3	Patrol No.
Send Email	□A->4	E	A 4	1
	A->5		A5	Pattern No.
	A->6		A6	1
	A->7		A7	
	A->8		A8	
	A->9			
		*		

Figure 6. 19 Alarm Input Settings-Linking Method

- 6. 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.
- 7. You can copy your settings to other alarm inputs.
- 8. Click **Save** to save the settings.

6.3.5 Configuring Video Loss Alarm

Steps:

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

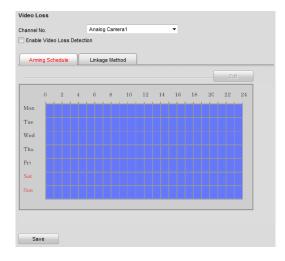


Figure 6. 20 Video Loss Alarm Settings

- 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 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 Configuring Motion Detection*.

6.3.6 Configuring Video Tempering 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> Video Tempering** to enter the Tamper-proof Settings interface.

2. Select the camera to configure the video tampering detection alarm.

Video Tampering					
Channel No.	Analog Camera1	•			
Enable Video Tamper	ing				
Area Settings	Arming Schedule	Linkage Metho	bd		
			Clear All Sensitivity	0	
Save					

Figure 6. 21 Video Tempering Alarm Settings

- 3. Click checkbox of Enable Video Tempering.
- 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 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 Configuring Motion Detection*.

6.3.7 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.



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 Configuring Video Settings*.

Steps:

1. Click **Remote Configuration > Alarm Settings > 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 Configuring Motion Detection*.

Trigger Alarm Output	
□A->1	
□A->2	
■A->3	
□A->4	
A->5	
A->6	
A->7	
□A->8	
A->9	
	Image: A > 1 Image: A > 2 Image: A > 3 Image: A > 4 Image: A > 5 Image: A > 6 Image: A > 7 Image: A > 8

Figure 6. 22 Handling Exceptions

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

6.4 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:

- 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.

Privacy Mask			
Channel No.	Analog Camera1 🔹		
Enable Privacy Mask			
Area Settings			
		□_+	Stop Drawing
			Clear All
Save			

Figure 6. 23 Privacy Mask Settings Interface

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

Up to four privacy mask areas can be configured.

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

You can click the Clear All button to clear all of the areas you set without saving it.

7. Click Save to save the settings

Chapter 7 Record Settings

Before you start

Make sure the Encoder is connected with HDD 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.

7.1 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:

1. 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	
	Holiday1	Disable	1.Jan	1.Jan	, l	
2	Holiday2	Disable	1.Jan	1.Jan		
3	Holiday3	Disable	1.Jan	1.Jan		
4	Holiday4	Disable	1.Jan	1.Jan	1	
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	1	
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 7. 1 Holiday Settings

- 2. 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 7. 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		
2	Holiday2	Disable	1.Jan	1.Jan		
3	Holiday3	Disable	1.Jan	1.Jan		

Figure 9.1 List of Holidays



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

7.2 Configuring Scheduled Record

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** tab.
- 4. Check the checkbox of Enable Record Schedule to enable the record schedule.

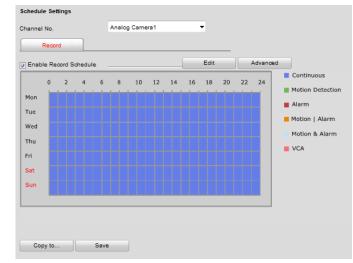


Figure 7. 3 Schedule Settings Interface

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

All Day	Recor	rd Type C	ontinuous	•			
Custom							
Period		Start Time	•	End Time		Reco	rd Type
1		00:00		24:00	*	Continue	ous 👻
2		00:00		00:00	**	Continue	ous 👻
3		00:00		00:00	25	Continue	ous 👻
4		00:00		00:00	**	Continue	ous 👻
5		00:00		00:00	25	Continue	ous 👻
6		00:00		00:00	25	Continue	ous 👻
7		00:00		00:00	***	Continue	ous 👻
8		00:00	3.6	00:00	25	Continue	ous 👻
opy to Week Self		hu 🗍 Fri 🗍 Sat [Sun	Сору		ок	Cancel

Figure 7. 4 Edit Schedule

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



- The time of each period can't be overlapped.
- Up to 8 periods can be configured.
- Select a Record Type. The record type can be Continuous, Motion Detection, Alarm, Motion & Alarm, Motion | Alarm, and VCA.
 - Continuous

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

• Record Triggered by Motion Detection

If you select Motion Detection, the video will be recorded when the motion is detected.

Besides configuring the record 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 Configuring Motion Detection*.

• Record Triggered by Alarm

If you select **Alarm**, the video will be recorded when the alarm is triggered. Besides configuring the record 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 Triggered by Motion & Alarm

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

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

• Record Triggered by Motion | Alarm

If you select **Motion | Alarm**, the video will be recorded 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.

- VCA: line crossing detection and intrusion detection triggered recording.
- 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 30 s, or not limited.
 - 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.
 - **Record Audio:** Enable or disable the audio record.
 - Stream Type: Select the Main Stream and Sub Stream for analog camera recording.
 - **Expired Time:** The expired time is the longest time for a record file to be kept in the HDD, if the deadline is reached, the file will be deleted. You can set the expired time to 0, and then the file will not be deleted. The actual keeping time for the file should be determined by the capacity of the HDD.

Advanced			
Pre-record	5s	•	
Post-record	5s	~	
Stream Type	Main Stream	-	
Record Audio	Yes	•	
Expired Time	0	Day	
	(ок	Cancel

Figure 7. 5 Edit Schedule

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.

Copy to Camera	
Select All	
⊠A1	
A 2	
⊡a3	
A 4	
A5	
⊡A6	
A 7	
AS	
ок	Cancel

Figure 7. 6 Copy to Camera

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

Chapter 8 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 8. 1 Playback Page

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

4 4		Aug	1	2015		▶ ₩
Sun	Mon	Tue	Wed	Thu	Fri	Sat
26			29		31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2		4	5
Q Search						
00 : 00 : 00 +						

Figure 8. 2 Select Date for Search

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

							Ch	annel	No.: 1			
Embedded Net DVR	The first on our of the section		and the second second					atus:				
Camera 01			A state of the sta				- 14	(Aug	20	5	F 1
Camera 02							Sun			Wed T		ni Sa
Camera 03	1						26					1 1
Camera 04							2		4	5 1		8
Camera 05							9		11	12 1		
Camera 06							16 23	17	18 25	19 2 26 2		
Camera 07								31	23	20 2		
Camera 08									٩	. Search	_	
		_		«)» I>		₹ E * • :		• :	00	: 00		÷
	:00 19:00	20:00 21:00	22:00	2015-08-15 00: 23:00 00:00	00:00	02:00 03:00		34:00		05:00		OC

Figure 8. 3 Playback Page

5. Use the **buttons on the t**oolbar to operate in playback mode.

	11	44	44	1.		0	Ŧ	*	40-	
			Contraction of the local division of the loc				1000	Concession of the local division of the loca		

Figure 8. 4 Playback Toolbar

	Table 8. 1 Description of Toolbar										
Button	Operation	Button	Operation								
-	Select window-division mode		Reverse								
	Play/Pause		Stop playing								
••	Slow forward	**	Fast forward								
	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								

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.

09	: 0)0	:	54	
----	-----	----	---	----	--

04;00 05;00 06;00 07;00 08;00 09;00 10;00 11;00 12;00 13;00 14;00 1					2	2014-04-010	9:00:54					$\odot \oplus$
	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:
Command C Schothle Aller Aller												
Command Schedule Alarm Manua									Command	Schedule	Alarm	Manual

Figure 8. 5 Progress Bar

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

🗖 Command 🔲 Schedule 📕 Alarm 🔲 Manual

Figure 8. 6 Progress Bar

Chapter 9 Managing User Accounts

Click **Remote Configuration>Remote Configuration>User Management** to enter the User Information interface:

er Infor	mation		
Add		Modify Delete	
No.	User Name		Level
1	admin		Administrator

Figure 9. 1 User Information Interface

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

9.1 Adding a User

Steps:

- 1. Click Add to enter the Add user interface.
- 2. Edit the User Name.
- 3. Select the Level to Operator or User.
- 4. Set the **Password**, and confirm the same password.

STRONG PASSWORD RECOMMENDED – We highly recommend that you create a strong ord of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. We recommend that you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

Add user		
User Name	Test01	
Level	Operator 💌	
Password	••••••	
Password Strength	Stror	ng
16]. You can use a Confirm		, uppercase and special character for your password with at least two kinds of them contained.
Local: Configuration		Remote: Configuration
CLocal: Upgrade/F	ormat	Remote: Parameters Settings
Local: Shutdown	/Reboot	Remote: Log Search / Interrogate Working Status
Local: Parameter	rs Settings	Remote: Upgrade / Format
V Local: Log Searc	h	☑ Remote: Two-way Audio
		Remote: Shutdown / Reboot
		Remote: Notify Surveillance Center / Trigger Alarm Output
		Remote: Video Output Control
		Remote: Serial Port Control

Figure 9. 2 Add a User

Different user level is given 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.

- 5. Configure the user permissions for the created user account, including the Basic Permission and Camera Operation.
- 6. Click **OK** to finish the user addition.

User Info	ser Information									
Add		Iodify Delete								
No.	User Name	Level								
1	admin	Administrator								
2	Test01	Operator								

Figure 9. 3 User Information

9.2 Modifying a User

Steps:

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

rmation		
1 1	Modify Delete	
User Name		Level
admin		Administrator
test01		Operator
test02		User
	User Name admin test01	d Modify Delete User Name admin test01

Figure 9. 4 Select a User

2. Click **Modify** to enter the modification interface.

Modify user		
User Name	Test01	
Level	Operator	
Password	•••••	
Password Streng	gth	
161 You can use	Valid password range [8-	ercase and special character for your password with at least two kinds of them contained.
Confirm	••••••	si dase and special character for your password with at least two kinds of them contained.
Basic Permis	ssion Camera Configuration	
1		Deresta Conferencia
Local: Configura		Remote: Configuration
Local: Upgrad	de/Format	Remote: Parameters Settings
Local: Shutdo	own/Reboot	Remote: Log Search / Interrogate Working Status
Local: Param	eters Settings	Remote: Upgrade / Format
V Local: Log Se	arch	Remote: Two-way Audio
		Remote: Shutdown / Reboot
		Remote: Notify Surveillance Center / Trigger Alarm Output
		Remote: Video Output Control
		Remote: Serial Port Control

Figure 9. 5 Modify a User

- Modify the User Name, Password and then select User type. You are highly recommended to use the strong password.
- 4. Configure the user permission for the user, including the Basic Permission and Camera Operation.
- 5. Click **OK** to finish the user modification.



You need the admin password to modify the admin user.

9.3 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:

Ad	d N	lodify	Delete		
No.	User Name	Message	from webpage	el lei	
1	admin			strator	
2 test01 3 test02		0	Delete this user?	ator	
				er	
			OK Canc	el	

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

Chapter 10 Log Search and Maintenance

10.1 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 or network disk. And make sure the HDD or network disk has been initialized for the first time to use. Please refer to *Section Adding Network Disk* for details.

Steps:

- 1. Click Log on the menu bar to enter the Log interface.
- 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.



Up to 2000 log files can be displayed each time.

	Live View	Playback	Log Configuratio	on			admin Logi
	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			0.0.00	
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
4	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	Airtypes
8	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
10	2012-11-28 08:27:11	Operation	Remote: Get Parameters		admin	172.9.11.41	End Time
11	2012-11-28 08:27:14	Operation	Remote: Get Parameters		admin	172.9.11.41	2012-11-28 23:59:59
12	2012-11-28 08:27:14	Operation	Remote: Get Parameters		admin	172.9.11.41	2012-11-20 23:33:33
13	2012-11-28 08:28:24	Alarm	Start Motion Detection	A4		0.0.00	
14	2012-11-28 08:28:24	Information	Start Recording	A1		0.0.0	Q Search
15	2012-11-28 08:28:24	Information	Start Recording	A2		0.0.0.0	
16	2012-11-28 08:28:24	Information	Start Recording	A3		0.0.00	F 1
17	2012-11-28 08:28:24	Information	Start Recording	A4		0.0.0.0	🖬 Save Log
18	2012-11-28 08:28:24	Information	Start Recording	A5		0.0.0	
19	2012-11-28 08:28:25	Information	Start Recording	A6		0.0.0.0	
20	2012-11-28 08:28:25	Information	Start Recording	A7		0.0.0.0	
21	2012-11-28 08:28:25	Information	Start Recording	A8		0.0.0.0	
22	2012-11-28 08:28:25	Information	Start Recording	A9		0.0.0.0	
23	2012-11-28 08:28:25	Information	Start Recording	A10		0.0.0.0	
24	2012-11-28 08:28:25	Information	Start Recording	A11		0.0.0	
25	2012-11-28 08:28:26	Information	Start Recording	A12		0.0.0.0	
26	2012 11 20 00-20-26	Information	Start Departing	Total 1054 Iten	ns <u>First Page</u> <u>Prev Page</u> 1/	11 Next Page Last Pag	e

Figure 10. 1 Log Search Interface

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

10.2 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 DVR
Device No.	255
Model	DS-6708HQHI-SATA
Serial No.	DS-6708HQHI-SATA0820150806AAWR533654256WC
Firmware Version	V1.0.0 build 150811
Encoding Version	V5.0 build 150714
Number of Channels	8
Number of HDDs	0
Number of Alarm Input	16
Number of Alarm Output	12
Save	

Figure 10. 2 1 Device Information

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

10.3 Maintenance

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

Maintenance
Reboot
Reboot Reboot the device.
Default
Restore Reset all the parameters, except the IP parameters and user information, to the default settings.
Default Restore all parameters to default settings.
Import Config. File
Config File Browse Import
Status
Export Config. File
Export
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 10. 3 Maintenance Page

10.3.1 Restarting the Device

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



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

10.3.2 Restoring Default Settings

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

Dofe

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

Figure 10. 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.

Aessage fr	om webpage
Device will reboot automatically after restoring. Continue?	
	OK Cancel
	Figure 10. 6 Pop-up Message Box

10.3.3 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 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.



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		
Expert Config File		
Export Config. File		
Export		

Figure 10. 7 Import/Export Config Files

10.3.4 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			
	s will be 1 to 10 minutes, please don't disconnect power to the boots automatically after upgrading.	e device during th	e

Figure 10. 8 Remote Upgrade

Chapter 11 Specification

		Table 11. 1 Specification	1
Model		DS-6708HQHI-SATA	DS-6716HQHI-SATA
	Video Input	8-ch	16-ch
		BNC interface	·
Video/Audio	HDTVI Video	720p/25, 720p/30, 720p/50, 720p	p/60, 1080p/25, 1080p/30, CVBS
Input/Output		4-ch	4-ch
	Audio Input	RCA (2.0 Vp-p, 1 KΩ)	
	Audio Output	1-ch, RCA (Linear, 1 KΩ)	
	Video Compression	H.264	
	Audio Compression	G.711u	
	Frame Rate	1/16 fps to real-time frame rate	
Video/Audio	Video Bitrate	32 Kbps to 10 Mbps	
Encoding	Audio Bitrate	64 Kbps	
U	Stream Type	Video, Video & Audio	
	Main Stream	1080P/720P/WD1/4CIF/VGA/CIF	
	Dual-Stream	Support, sub-stream: WD1/4CIF (12fps), CIF/QVGA/QCIF(real-time)	
	Туре	SATA, NAS, ISCSI, IPSAN	
Storage	Number	2	
0	Capacity	Up to 6 TB for each disk	
	Two-Way Audio Input	t $\frac{1-\text{ch, RCA (2.0 Vp-p, 1 K}\Omega)}{(\text{input)}}$ (using the 1st channel of audio	
External	Network Interface	1, RJ45 10M/100M/1000M self-adaptive Ethernet Interface 1, RS-485; half-duplex	
Interface	Series Interface		
	Alarm in Alarm out	8-ch input, 4-ch output	16-ch input, 4-ch output
	Power Supply	12 VDC	
General	Power Consumption (without HDD)	\leq 30 W	\leq 45 W
	Working Temperature	-10° C to 55° C (14° F to 131° F)	
	Working Humidity	10% to 90%	
	Chassis	380 mm 1U chassis	
	Dimensions Weight (with out	380 mm × 290 mm × 48 mm (14.96" × 11.42" × 1.89")	
	Weight (without HDD)	$\leq 2 \text{ Kg} (4.41 \text{ lb})$	

Table 11. 1 Specification

Chapter 12 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.