

DS-6400HDI-T Series Decoder

USER MANUAL

Version 1.0.0

Hikvision Network Digital Video Recorder User's Manual

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Regulatory Information

FCC Information

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

FCC Conditions

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

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

EU Conformity Statement



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

2002/96/EC (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: www.recyclethis.info.

Description on Laser Specification

The optical disc drive such as DVD Super Multi (Double Layer) Drive 22X that is used in this computer is equipped with laser. The classification label with the following sentence is affixed to the surface of the drive.

CLASS 1 LASER PRODUCT TO IEC60825-1

LASER KLASSE 1

The drive with the above label is certified by the manufacturer that the drive complies with the requirement for laser product on the date of manufacturing pursuant to article 21 of Code of Federal Regulations by the United States of America, Department of Health & Human Services, Food and Drug Administration.

In other countries, the drive is certified to comply with the requirement pursuant to IEC 60825-1 and EN 60825-1 on class 1 laser product.

This computer is equipped with the optical disc drive in the following list according to the model.

Safety Warnings and Cautions

Please pay attention to the following warnings and cautions:



Hazardous Voltage may be present: Special measures and precautions must be taken when using this device. Some potentials (voltages) on the device may present a hazard to the user. This device should only be used by Employees from our company with knowledge and training in working with these types of devices that contain live circuits.



Caution The power supply in this product contains no user-serviceable parts. Refer servicing only to qualified personel.

Power Supply Hazardous Voltage: AC mains voltages are present within the power supply assembly. This device must be connected to a UL approved, completely enclosed power supply, of the proper rated voltage and current. No user serviceable parts inside the power supply.



System Grounding (Earthing): To avoid shock, ensure that all AC wiring is not exposed and that the earth grounding is maintained. Ensure that any equipment to which this device will be attached is also connected to properly wired grounded receptacles and are approved medical devices.



Power Connect and Disconnect: The AC power supply cord is the main disconnect device to mains (AC power). The socket outlet shall be installed near the equipment and shall be readily accessible.

Installation and Maintenance: Do not connect/disconnect any cables to or perform installation/maintenance on this device during an electrical storm.



Power Cord Requirements: The connector that plugs into the wall outlet must be a grounding-type male plug designed for use in your region. It must have certification marks showing certification by an agency in your

region. The connector that plugs into the AC receptacle on the power supply must be an IEC 320, sheet C13, female connector. See the following website for more information <u>http://kropla.com/electric2.htm</u>.



Lithium Battery: This device contains a Lithium Battery. There is a risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries according to the vendor's instructions and in accordance with local environmental regulations. Perchlorate Material: Special handling may apply. See

www.dtsc.ca.gov/hazardouswaste/perchlorate. This notice is required by California Code of Regulations, Title 22, Division 4.5, Chapter 33: Best Management Practices for Perchlorate Materials. This device includes a battery which contains perchlorate material.

Taiwan battery recycling:



Please recycle batteries.



Thermal and Mechanical Injury: Some components such as heat sinks, power regulators, and processors may be hot; care should be taken to avoid contact with these components.

Electro Magnetic Interference: This equipment has not been tested for compliance with emissions limits of FCC and similar international regulations. This device is not, and may not be, offered for sale or lease, or sold, or leased until authorization from the United States FCC or its equivalent in other countries has been obtained. Use of this equipment in a residential location is prohibited. This equipment generates, uses and can radiate radio frequency energy which may result in harmful interference to radio communications. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is required to take measures to eliminate the interference or discontinue the use of this equipment.

Lead Content:



Please recycle this device in a responsible manner. Refer to local environmental regulations for proper recycling; do not dispose of device in unsorted municipal waste.

Preventive and Cautionary Tips

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

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

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CHAPTER 1 Introduction

1.1 Description

Designed for the high-definition video monitoring system, DS-6400HDI-T Series HD Video/Audio Decoder is developed on the basis of TI platform, Linux operating system and Netra processor, ensuring high reliability and stability of system running.

DS-6400HDI-T Series HD Video/Audio Decoder is capable of decoding video at 1080P resolution and outputting decoded video via VGA and HDMI interfaces, and it also supports multiple network protocols and multiple stream transmission mode, thus provides a strong support to the large-scale TV-Wall decoding.



1.2 Features

Decoding images and audio

Private H.264, standard H.264, MJPEG and MPEG4 formats video compression methods are supported;

Support PS, RTP and private customized data encapsulation formats;

PAL and NTSC image standards supported;

Decode at up to 5MP resolution;

G.722, G.711A, G.711U and MPEG2-L2 formats audio compression methods.

High-definition video output via VGA and HDMI. For 6401HD-T decoder, BNC output is also available.

TV Wall montage is supported.

Decoding Capacity

DS-6401HDI is capable of decoding 1 channel video stream at 5MP or 1080P resolution, 2 channels video stream at 720P resolution and 4 channels video stream at 4CIF resolution.

DS-6404HDI is capable of decoding 4 channel video stream at 5MP or 1080P resolution, 8 channels video stream at 720P resolution and 16 channels video stream at 4CIF resolution.

DS-6408HDI is capable of decoding 8 channel video stream at 5MP or 1080P resolution, 16 channels video stream at 720P resolution and 32 channels video stream at 4CIF resolution.

Decoding Mode

Dynamic decoding: log on the remote encoder or remote stream media server to select a channel of video source to acquire video stream, and then decode and output the video for local display.

Cycle decoding: set multiple remote monitoring channels on a decoding channel, and the decoder is capable of performing cycle decoding according to the configured sequence and time. The stream sources can be obtained via remote access to the encoder or stream media server and decoded for

local output. A maximum of 64 channels are allowed for cycle decoding.

Obtain stream from stream media server: The decoder can receive real-time data by access to stream media server, and then decode the video stream and output them on the TV Wall. The private RTSP is adopted as the control protocol, and the TCP/UDP is used for receiving the data stream.

Remote playback of record files: by remote access to the encoding devices with storage capability, and directly obtain the record files from the encoder, and finally decode for local output.

Network

One 10/100/1000Mbps self-adaptive Ethernet interface;

Support TCP, UDP and Multicasting network protocols;

DHCP, NTP, HTTP, RTP and DDNS are supported;

Remote upgrading and maintenance can be done via web browser or client software.

User Administration

A maximum of 32 users can be created by the system, including 1 administrator and 31 users. The user name of the administrator is admin, which cannot be modified, and the password is allowable to be modified by the administrator only; no deletion of the administrator is allowed, and the administrator is authorized to set the operation permissions for other users.

Transparent Channel

The decoder adopts the RS-232/RS-485 serial interface to realize transparent transmission. The data sent remotely to the decoder via network can be transmitted by RS-232/RS-485 interface of decoder without any operation, and the transparent channel of the decoder supports multicast transparent transmission as well, and multiple transparent channels can be established simultaneously.

Two-way audio

The decoder is capable of realizing voice talk with the remote client.

CHAPTER 2

Panel and Connections

2.1 Front Panel

1	2 3	
	OWER & LINK & TARK	
	TITITITI TANA	

	LED Indicator & Interface	Connections
1	PWR	Power LED indicator
2	LINK	Network connection LED indicator
3	RX/TX	Data transmitting/receiving status LED indicator

2.2 Rear Panel



	Interface	Connections
1	VAG 1~ VGA8	VGA decoding output
2	HDMI video output	HDMI decoding output
3	LINE IN/OUT	Two-way audio
4	AUDIO OUT	Audio out, for connection to audio output device, e.g. sound box. R: right channel; L: left channel
5	RS-232 serial interface	Connect to RS-232 devices, e.g., PC, etc.
6	LAN	10/100/1000 Mbps Ethernet interface
7	RS-485 serial interface	Connect to RS-485 devices, e.g., Dome camera, etc.
8	Alarm In	4 alarm inputs
	Alarm Out	4 alarm outputs
9	GND	Grounding
10	Power Switch	Power On/Off Switch
11	Power Supply	Power input interface

CHAPTER 3

Initial Network Parameters Configuration

Purpose:

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

This chapter aims to tell the procedures of using the Hyper Terminal Software to find and configure the IP address and other parameters of the device.

For the operation of the SADP software, please refer to the User Manual of the SADP software.

Note:

For the first-time user, the default user name of DS-6400HDI-T is *admin*, and password is *12345*. And the default IP address is 192.0.0.64.

3.1 Connecting the decoder by Hyper Terminal Tools

Purpose:

By connecting decoder and PC with serial line via RS-232 interface, run the Hyper Terminal application, you can get and modify the network parameters of the decoder with serial commands.

Steps:

1. Run the Hyper Terminal application on your PC

Connection Description	? 🗙
New Connection	
Enter a name and choose an icon for the connection:	
Name:	
нқ	
lcon:	
🂫 😂 🗞 🖳 🚳	8
	>
OK Ca	incel

- 2. Input a name (e.g. HK) and select an icon
- 3. Click **OK** to enter the next dialogue box.

Connect To	? 🛛
🧞 нк	
Enter details for	the phone number that you want to dial:
Country/region:	China (86) 💽
Area code:	025
Phone number:	
Connect using:	СОМ1
	OK Cancel

- 4. Select *COM1* in **Connect using** filed (Please select the COM port according to the real scenario.).
- 5. Click **OK** to enter the **Properties** dialogue box.
- 6. Set port parameters in COM1 Properties dialogue box shown as the following figure.

COM1 Properties	? 🛛
Port Settings	
Bits per second:	115200
Data bits:	8
Parity:	None
Stop bits:	1
Flow control:	None 🗸
	Restore Defaults
0	K Cancel Apply

Bits per second: 115200

Data bits: 8

Parity: None

Stop bits: 1

Flow control: None

 Click Apply and OK after the setup. Press Enter under Hyper Terminal interface. When [root@dvrdvs/]# appears, the connection is established.

🏶 HK - HyperTerminal
File Edit View Call Transfer Help
[root@dvrdvs:/] # [root@dvrdvs:/] #

Disconnecting and saving the connection

When you disconnect the session, the following dialogue box pops out to ask you whether you want to save the session. If you save the session, the name of the session is kept and when the next time you use the Hyper Terminal Tools you can see an icon named with the session you saved.

HyperTerminal 🛛	HyperTerminal 🔀
You are currently connected. Are you sure you want to disconnect now?	Do you want to save the connection named "HK"?
Yes No	Yes No Cancel

3.2 Network Configuration by Hyper Terminal

After the successful connection of the Hyper Terminal, you can get to the operation interface of the hyper terminal interface.



Commands Description:

Commands	Utilities
helpm	Print common commands, show as Figure 3.2.
getIp	Show the current IP address of decoder. Command format: getIp
setIp	Set up IP address of decoder.
	Command format: setIp IP: mask, e.g. setIp 192.168.1.10:255.255.255.0
getGateway	Show current decoder gateway address. Command format: getGateway
setGateway	Set up gateway of the decoder.
	Command format: setGateway Gateway, e.g. setGateway 192.168.1.1

Note:

Press Enter button to execute the command in the Hyper Terminal Tools. And please strickly follow the format of the command lines, otherwise, the command you input is seen as invalid.

🍣 HK - HyperTerminal	
File Edit View Call Transfer Help	
02 00 00	
[root@dvrdvs /] # helpm	iDecode commands usage:
getIp	:get the device's ip
setIp	:set the device's ip e.g:setIp 192.168.1.10:255.255.255.0
getGateway	:get the device's gateway
setGateway	:set the device's gateway
getTime	:get time
setTime	:set time e.g:setTime 2009-4-15:15-30-00
showDevBootTime	:show device boot time
showUserInfo	:show login user info
enableSwWatchdog	:enable soft watchdog
disableSwWatchdog	:disable soft watchdog
=====susten	1 Tnfo====================================
showBootParms	show bootParms info

CHAPTER 4

Decoder Configuration and Operation by

Web Browser

Purpose:

Since there is no local operation GUI provided for the decoder, you can manage and configure it by web browser or the iVMS client software. In this chapter, the operation and management of the decoder by the web browser is provided.

Note: The tested Web browsers include: IE7 and IE8, chrome, safari and firefox4.

Open the Web browser and input the IP address of Decoder (e.g., http://172.9.108.108) to enter the login page:



Enter the user name and password of the device in the dialog box and then click Login to log into the system. By default, the user name for login is *admin* and the password is 12345.

The main interface of the control panel of the decoder is showed after successful login.

Network Audio & Video Decoder		Embedded multiDecoder	Active User:admin	Exit
Decode Operation	Parameter Configure	Device Management		
6 .				^
Decode Operation ■ > Decode Mode	Decode Channel:	Channel1 ·		
Dynamic Decode Cycle Decode	Manufacturer:	PRIVATE +		
→ Remote Playback	Remote Host IP Address:			
→ Display Configure → Large Screen	Remote Host Port:			
Decode Control	Remote Host Channel:			
→ Global Switch → Image Scale	User Name:			
Picture Overlay	Password:			
 Decode Status Connection Status 	Transmission Protocol:	TCP •		
Decode Channel Status	Stream Type:	Main Stream 👻		
➡ Display Channel Status	🔲 Enable Stream Media			
Transparent Channel	Stream Media Server IP A	ddress:		
	Stream Media Server Port	554		
	Stream Media Server Pro	TCP •		

4.1 Decoding Operation

Purpose:

To realize the display of the decoded video on the TV wall, you must set the decoding operation parameters.

Before you start:

Check the cabling of the decoder, and ensure that the decoder is connected to the TV wall or monitor via the video output interfaces.

To set the video output of the decoder, the first step is to choose the video output interfaces. There are 3 video output interfaces, the VGA, HDMI and the BNC outputs.

Steps:

1. Click Display Configure on the left toolbar to enter the display configuration interface:

Display Configu	re					
	BNC	HDMI				
Display Chann	nel:	VGA1		-		
Video Standar	d:	PAL		•		
Output Resolu	tion:	XGA_60HZ(10	024*768)	•		
Screen Mode:		4		-		
Sub Screen	Channel	Audio Status	Zoom Status	Open/Close	Enlarge/Restore	
1	Channel1 -	×	×	◄))	1	
2	Channel2 -	×	×	◄))		
3	Channel3 -	×	×	4))	6 N 6 D	
4	Channel4 -	×	×	4))		

2. In the display configuration interface, you are allowed to configure the Display Channel, Video Standard, Output Resolution and Screen Mode.

Output Resolu	tion:		720P_60HZ(1280*720) -
Screen Mode:			NOT_AVALIABLE XGA_60HZ(1024*768) SXGA_60HZ(1280*1024)
Sub Screen Int	formation		720P 60HZ(1280*720)
Sub Screen	Channel	P	720P_50HZ(1280*720)
1 Channel21 -		•	1080P_60HZ(1920*1080) 1080P_50HZ(1920*1080)
			UXGA 60HZ(1600*1200)

pops out.

- 3. Select the screen-division mode. The DS-6400HDI –T series supports 1/4/9/16-division display mode.
- 4. Click "Save" to save the settings and the prompt

After the screen mode selection, the sub screen information can be viewed on the interface.

Example: If you select the screen mode as 4, then the sub screen information shows the status of the four screens.

Sub Screen Inf	ormation				
Sub Screen	Channel	Audio Status	Zoom Status	Open/Close	Enlarge/Restore
1	Channel1	• ×	×	◄))	K X K Z
2	Channel2	• ×	×	∎))	K N N
3	Channel3	×	×	≼))	К. 3 К. 3
4	Channel4	• ×	×	◄))	K N N

Open/Close Audio

In the sub-screen information interface, you can select the 40 button to open the audio for the sub window, and the following prompt will pop up:

tips	
Sure to open sub window audio?	*
OK Cancel	

Click "OK" to open the audio for the selected sub window, and the Audio Status in the "Sub Screen Information" will be displayed in $\sqrt{2}$.

If you want to close the audio for the current sub window, click the will button again, and the following prompt will pop up as well:

tips	
Sure to close sub window audio?	* *
OK Cancel	

Click "OK" to close the audio for the selected sub window, and the Audio Status in the "Sub Screen Information" will be displayed in \times .

Enlarge/Restore

You can select the button to enlarge the selected sub window and display in full-screen mode. The following prompt will pop up:

tips			
Sure to enlarge the sul	b window?		*
	ОК	Cancel	

Click "OK" to enlarge the selected sub window, and the Zoom Status in the "Sub Screen Information" will be displayed in $\sqrt{}$.

If you want to enter the full-screen mode, click the 🔝 button again and the following prompt will pop up as well:

tips		
Sure to renew the su	ub window?	4 7
	ОК	Cancel

Click "OK" to exit the full-screen mode of the selected sub window, and the Zoom Status in the "Sub Screen Information" will be displayed in *x*.

Note: BNC output is only valid for the 6401HDI-T decoder. In the BNC display control interface, you can enable the BNC Slim option if the monitor connected is unable to display the video image at 704×576 . After having enabled this function, the output video image will be displayed at 640×576 on the monitor.

4.1.1 Dynamic Decode

Dynamic decoding means that you decode one channel for one decoding window. For example you can choose the first channel and then configure the corresponding device to be decoded for the channel.

Network Audio & Video Decoder		eo Decoder	Embedded multiDecoder	Active User:admin	Exit
	Decode Operation	Parameter Configure	Device Management		
(¥ Dacode Op ■ > Decode 1 → Cycle → Reme → Displ → Large ■ > Decode 0 → Cioba → Inage → Pictu ■ > Decode 5 → Conn → Decode 5 → Conn → Decode 1 → Displ → Transpare	Decode Operation eration Aode mp Chaotie Decode de Playback ay Configure Screen Control di Switch 2 Scale 2 Screen Control di Switch 2 Scale e Coverlay Status ection Status de Channel Status ent Channel	Parameter Configure Dynamit Dacode Decode Channel: Manufacturer: Remote Host IP Address: Remote Host Port: Remote Host Channel: User Name: Password: Transmission Protocol: Stream Type: Enable Stream Media Stream Media Server IP A	Channel1 PRIVATE TCP Main Stream Server	Active User admin	Exit
		Stream Media Server Port	scol: TCP •		

The decode channel stands for the channels displayed on the TV wall. You select the channel number to decide the channel shows the image from which remote host.

Dynamic Decode	
Decode Channel:	Channel1 -
Manufacturer:	PRIVATE -
Remote Host IP Address:	172.6.22.109
Remote Host Port:	8000
Remote Host Channel:	12
User Name:	admin
Password:	•••••
Transmission Protocol:	TCP -
Stream Type:	Main Stream 👻
🔽 Enable Stream Medi	a Server
Stream Media Server IP /	Address: 172.6.24.88
Stream Media Server Po	t: 554
Stream Media Server Pro	tocol: TCP -
Start Dec Stop	Dec

Decode Channel: Select the Decode Channel for the screen display

Manufacturer: Select the Manufacturer of camera or device connected for decoding.

Note: Currently only the encoding devices from our manufacture are supported.

Remote Host IP Address: Enter the IP address of the encoding device to be decoded.

Remote Host Port: Enter the port of the encoding device to be decoded.

Remote Host Channel: Enter the channel number of the encoding device for decoding.

User Name/Password: Enter the user name and password used for login to the encoding device.

Enable Stream Media Server: Enable the stream media server if required, and enter the IP address of the server.

After all settings have been configured, click "Start Dec" button to start decoding, and the decoding status can be viewed in the Connection Status or the Decode Channel Status interface. And you can see the image from the remote encoding device is decoded and displayed on the screen.

4.1.2 Cycle Decoding

Cycle decoding, compared with the dynamic decoding, means that you configure many decoding input (the remote encoding device) to one output (the channel displayed on the screen).

Steps:

- 1. Click Decode Mode \rightarrow Cycle Decode to enter the Cycle Decode interface:
- 2. Select the Decode Channel for decoding and enter the Cycle Time in the interface. Cycle time refers to the time duration for decoding the input signal to display on the certain channel on the screen.

Cycle	Decode										
Decod	e Channel: Cha	nnel1	•								
Cycle	Cycle Time: 10 Seconds										
-,											
Chann											
Mo	dify Delete	÷									
			Device I	nformation				Stream Media S	Server Information		
Node	Manufacturer	IP	Port	Channel	Protocol	Stream Type	Enable	P	Port	Protoco	ol
1	PRIVATE	172.9.204.3	8000	1	tcp	main		0.0.0.0	0	tcp	*
2	PRIVATE	172.9.204.3	8000	2	tcp	main		0.0.0.0	0	tcp	E
3	PRIVATE	172.9.204.3	8000	3	tcp	main		0.0.0.0	0	tcp	
4	PRIVATE	172.9.204.3	8000	4	tcp	main		0.0.0.0	0	tcp	
5	PRIVATE	172.9.204.3	8000	5	tcp	main		0.0.0.0	0	tcp	
6	PRIVATE	172.9.204.3	8000	6	tcp	main		0.0.0.0	0	tcp	
7	PRIVATE	172.9.204.3	8000	7	tcp	main		0.0.0.0	0	top	
8	PRIVATE	172.9.204.3	8000	8	tcp	main		0.0.0.0	0	tcp	
9	PRIVATE	0.0.0.0	0	0	tcp	main		0.0.0.0	0	tcp	-
٠ 📄					"	I					F.
_	_										
Sa	ave										

3. In the **Channel Settings** area, you can select a cycle channel from the list and click **Modify** to enter the following interface to modify the device information:

Cycle Decode	
Manufacturer:	PRIVATE -
Remote Host IP Address:	172.9.204.3
Remote Host Port:	8000
Remote Host Channel:	1
User Name:	admin
Password:	••••
Transmission Protocol:	TCP 🔻
Stream Type:	Main Stream 👻
📃 Enable Stream Media Server —	
Stream Media Server IP Address:	
Stream Media Server Port:	554
Stream Media Server Protocol:	TCP 🝷
Confirm Return	

Note: Up to 64 cameras can be configured for each cycle decoding channel.

Example:

If you set the Decode Channel as Channel 1 and the Cycle Time as 10 seconds and set 10 decoding devices for the decode channel, the image from these 10 devices are displayed for 10 seconds on the screen window for the channel in turn.

4.1.3 Remote Playback

You can play back the record files stored in the remote encoding devices.

Steps:

1. Click Decode Operation \rightarrow Remote Playback to enter the following interface:



- 2. Select the decode channel from the drop-down list to be played back.
- Enter the device information in the "Remote Host IP Address", "Remote Host Port", "Remote Host Channel", "User Name", and "Password" of the encoding device.

The "Remote Host Channel" refers to the channel number of the encoding device to be played back.

Device Information -	
Remote Host IP Address:	172.6.22.109
Remote Host Port:	8000
Remote Host Channel:	12
User Name:	admin
Password:	••••

- Remote playback by file: enter the file name searched from DVR.
- Remote playback by time: enter the start time and end time of the record file.

11-11-25 16:24:18
11-10-31 16:26:09

4. Click "Save" to finish the settings and click it to start playback. During the playback, the buttons can be used to realize "start", "stop", "slow forward", "fast forward"

and "open voice" functions.

Note: You can click the button to Slow Forward or Fast Forward.

The speed of slow forward can be set to 1/2X, 1/4X, 1/8X and 1/16X; and the speed of fast forward can be set to 2X, 4X and 8X.

4.1.4 Global Switch for the Decoding Channels

Purpose:

Global switch function enables you to start or stop the decoding and displaying for certain channels.

Steps:

1. Click Decode Operation \rightarrow Decode Control \rightarrow Global Switch to enter the following interface:

Network Audio & Video Decoder							
Decode Operation	Parameter Configure	Device Management					
 Decode Operation Decode Mode Dynamic Decode Cycle Decode Remote Playback Display Configure Decode Control Bubbal Skyraph Image Scale Picture Overlay Decode Status Connection Status Decode Channel Status Display Channel Status 	Global Switch Decode Channel: Switch: Save	Channel1 Off	• •				
riansparent Channel							

- 2. Select the decode channel in the dropdown list in the Decode Channel field.
- 3. Select *On* or *Off* in the dropdown list in the **Switch** field.

4.1.5 Image Scaling

Purpose:

Image scaling function is to set the image display on the screen.

Steps:

1. Click Decode Operation→Decode Control →Image Scale to enter the following interface:

Network Audio & Vide	o Decoder		
Decode Operation	Parameter Configure	Device Management	
 Decode Operation Decode Mode Dynamic Decode Cycle Decode Remote Playback Display Configure Decode Control Global Switch Innum Chain Picture Overlay Decode Status Connection Status Decode Channel Status Display Channel Status Transparent Channel 	Image Scale Decode Channel: Image Scale: Save	Channel1 Stretching	

- 2. Select the decode channel in the dropdown list in the Decode Channel field.
- 3. In the Image Scale field you can choose *Stretching* or *Auto Fill*.

4.1.6 Picture Overlay

Purpose:

The "Picture Overlay" function can overlay a picture on the screen for the selected decode channel, and the position of the picture overlaid on the screen can also be set here.

Steps:

1. Click Decode Operation \rightarrow Decode Control \rightarrow Picture Overlay to enter the following interface:

Network Audio & V	ideo Decoder			
Decode Operati	on Parameter Configure	Device Management		
🚱 Decode Operation	Picture Overlay	a a a a a a a a a a a a a a a a a a a		
 Decode Mode Dynamic Decode Cycle Decode 	Picture Information	Channel1	•	
 Remote Playback Display Configure 	Choose Picture:		Browse	upload
Decode Control	Overlay Configure			0. 0. 0. 0.
 → Global Switch → Image Scale 	X Coordinate	32		
-> Ploture Overlay	Y Coordinate	32		
 Decode Status Connection Status 	Flashing:			
→ Decode Channel Status	Transparent			8 8
Display Channel Status Transparent Channel	Show Picture:	O Enable O Disable		
	Save			

- 2. Select the decode channel in the dropdown list in the Decode Channel field.
- 3. Browse to choose a picture in the local disks.
- 4. Set the X coordinate and the Y coordinate of the picture displayed on the screen to move the picture up and down and left and right.

Note: The picture must be in 32-bit BMP format and its width and height must be 32X pixel, with up to 128×128 resolution and 24 bits depth.

4.1.7 Checking the Connection Status

Purpose:

Connection status shows the status of the decoding status and the network connection status of the decode channel.

Steps:

Click Decode Operation \rightarrow Decode Status \rightarrow Connection Status to view the connection status of the current decode channel.

Network Audio & Vide	o Decoder				
Decode Operation	Parameter Configure Device Ma	nagement			
(Y Decode Operation ■) Decode Mode → Dynamic Decode → Cycle Decode → Remote Playback	Decode Channel: Connection Status: Stream Bit Rate:	Channel1 Sleeping 0	▼ × kb/s		
► Display Configure	Get Stream Mode:		~		
 Decode Control Global Switch 	Active Stream Information				
► Image Scale	Decode Mode:		r .		
→ Picture Overlay					
Decode Status	IP Address:			IP Address:	
Boode Channel Status	Port:			Port:	
Display Channel Status	Channel:			Protocol:	
Transparent Channel	Protocol:				
	Stream Type:			File Name:	
	User Name:			Start Time:	
	Password:			Stop Time:	
	Play Mode:			Protocol	
	Port				

You can see status of the network connection is displayed on the interface.

Note: The Connection Status of device will be refreshed regularly.

4.1.8 Checking the Decode Channel Status

Click Decode Operation \rightarrow Decode Status \rightarrow Decode Channel Status to view the status information of the current decode channel, including the channel number, decode status, encode type, etc. Refer to the following interface:

Network Audio & Video	o Decoder											Active Usera
Decode Operation	Parameter Configure	Device Man	agement									
Y Decode Operation ■ > Decode Mode	Elecode Channel	Decode Status	Encode Type	Packet Type	CPU Usage	Image Width	Image Height	Video Standard	Video Frame Rate	Audio Frame Rate	Decoded Video Frame	Decoded Aude
► Dynamic Decode	1	Decoding	HK 264	PS	42	528	384	PAL	25	24	2036	2106
Cycle Decode	2	Decoding	HIK 264	PS	42	528	384	PAL	25	0	1986	0
 Remote Playback Distolary Configure 	3	Decoding	HIK 264	PS	42	528	384	PAL	25	0	1918	0 =
becode Costrol	4	Decoding	HK 264	PS	42	528	384	PAL	25	0	1831	0
Global Switch	5	Decoding	Standard 264	RTP	74	640	480	PAL	24	0	23748	0
► image Scale	6	Decoding	Standard 264	RTP	74	640	480	PAL	25	0	23748	0
► Picture Overlay	7	Decoding	Standard 264	PS	74	352	288	PAL	25	0	23750	0
Decode Status Connection Status Connection Status Display Channel Status Display Channel Status												

Note: The Decode Channel Status of device will be refreshed every 4 seconds.

4.1.9 Checking the Display Channel Status

Purpose:

Display channel status interface shows the video output status of the decoder, such as the status for the VGA output, the status for the BNC output and so on.

Steps:

1. Click Decode Operation→Decode Status →Display Channel Status to view the configuration information of the current channel.

Network Audio & Vide	o Decoder				
Decode Operation	Parameter Configure	Device Management			
C Decode Operation					
E Decode Mode	VGA BI		DVI		
··· ► Dynamic Decode	Display Channel	Display Status	Video Standard	Screen Mode	
···· ► Cycle Decode	BNC1	No displaying	NULL	0	
■ Remote Playback	Sub Scroon Information				
► Display Configure					
► Decode Control	Sub Screen	Decode Ch	annel	Video Frame Rate	
── ► Global Switch					
──▶ Image Scale					
Picture Overlay					
■ ▶ Decode Status					
Connection Status					
→ Decode Channel Status					
····► Display Channel Status					
└── ▶ Transparent Channel					

Note: The Display Channel Status of device will be refreshed regularly.

4.1.10 Transparent Channel

The "Transparent Channel" refers to the transmission channel used for forwarding data between the Decoder and the Encoder without operating on the data transferred.

Network Audio & Video Decoder							
Decode Operation	Parameter Configure	Device Management					care ober.
A Decode Operation							
■ ► Decode Mode	Local Serial Port:	RS485	 Remote Se 	erial Port: RS485	-		
Dynamic Decode Cycle Decode	Remote Host IP:		Remote H	ost Port:			
··· ▶ Remote Playback	User Name:		Password	i:			
► Display Configure	Madib Dr	alata					
Decode Control Blobal Switch	NO	Local Serial Port	Remote Host IP	Remote Host Port	Remote Serial Port	Connection Status	
► Image Scale	1	RS232	0.0.0.0	0		No Connecting	^
► Picture Overlay	2	RS232	0.0.0.0	0		No Connecting	E
■	3	RS232	0.0.0.0	0		No Connecting	
Connection Status	4	RS232	0.0.0.0	0		No Connecting	
	5	RS232	0.0.0.0	0		No Connecting	
Transparent Channel	6	RS232	0.0.0.0	0		No Connecting	
· ·	7	RS232	0.0.0.0	0		No Connecting	
	8	RS232	0.0.0.0	0		No Connecting	
	9	RS232	0.0.00	0		No Connecting	
	10	RS232	0.0.0.0	0		No Connecting	
	11	RS232	0.0.0.0	0		No Connecting	-
	•			III			•

Enter the device information in the "Remote Host IP Address", "Remote Host Port", "User Name", and "Password" of the encoding device.

The "Local Serial Port" refers to the serial port used as the transparent channel by the Decoder, while the "Remote Serial Port" refers to the serial port used as the transparent channel by the Encoder.

Click "Modify" to finish the settings. Click "Refresh" and the status in the "Connection Status" will be displayed in "Connecting" if the connection is successful.

Note: Up to 64 DVRs or DVSs are allowed to establish transparent channel transmission with a Decoder. When the RS-232 port is used as the "Local Serial Port", user must select the Operation mode to Transparent Channel by entering the Parameter Configure \rightarrow Serial Port Parameters \rightarrow RS232 Settings interface.

4.2 Parameter Configuration for Decoder

4.2.1 Checking Device Information

Purpose:

You can check the information of the device in the device information interface, such as the Device Type, Device SN (Serial Number), Firmware Version, etc.

Steps:

You can check the Click Parameter Configure→Parameter Configure→Device Information.

Network Audio &	Network Audio & Video Decoder		Embedded multiDecoder
Decode Op	peration Pa	ameter Configure	Device Management
Parameter Configure			
Device Information		Device Name:	Embedded multiDecoder
→ Time Settings		Mac Address:	00:40:30:11:11:53
■ Network Parameters Basic Network Setti	 Network Parameters Basic Network Settings 	Device Type:	DS-6404HD-T
DDNS Settings		Device SN:	DS-6404HD-T0120111012AARR232343526WCV
► RS232 Settings		Firmware Version	V1.0.0 build 111219
	3	DSP Version: Save	V1.0 build 111216

The name of the decoder can be customized.

4.2.2 Time Settings

You can set the time for the decoder in the Time Settings interface.

Steps:

1. Click Parameter Configure → Parameter Configure → Time Settings to enter the following interface:

Network	Audio & Video	Decoder		Embedded multiDe	coder
	Decode Operation	Parameter Configure D	evice Management		
🔗 Parameter	Configure	Time Settings			
Device I	formation	ONTP Correction			
		NTP Server:			
■ ► Network	Parameters	NTP Port:			
DDN	S Settings	Manual Correction			
a I ► Serial P	ort Parameters	Time:	2011-12-21T18:45:14	.	
► RS2	32 Settings 35 Settings				
🛢 🕩 Alarm P	arameters	Time Zone:	(GMT)+08:00(Beijing, Ho	ng Kong, Shanghai, Taipei) 🛛 👻	
► Alarn	n Input Settings				
• Alarn	n Output Settings	Sau			
···► Arming	ime				
Account	Management				
···· • Export P	arameters				

2. Select the NTP correction or Manual correction for the time setting in the interface. When the NTP correction is selected, you must configure the NTP server address and the port number.

4.2.3 Basic Network Settings

Purpose:

You can set the network parameters for the decoder in the parameter configure interface.

Steps:

1. In the Parameter Configure interface, choose network parameters and choose Basic Network Settings.

The network connection parameters are shown as the following figure.

Network Audio & Video	Decoder	Embedded multiDecoder
Decode Operation	Parameter Configure	Device Management
V Parameter Configure		
► Device Information	IP Address:	172.9.107.101
 Time Settings Network Parameters 	Subnet Mask:	255.255.255.0
> Basic Network Settings	Gateway Address:	s: 172.9.107.1
DONS Settings Serial Port Parameters Nature R8225 Settings R8225 Settings Nature Nature Research Settings Nature Nature Settings Admin Nature Settings Admin Time Account Management Export Parameters	DNS Server:	0.0.0.0

2. You can modify the settings for network parameters, and click Save to save it.

4.2.4 DDNS Settings

Purpose:

For the dynamic IP address you can configure DDNS settings to assign a domain name to it.

Steps:

1. Click the DDNS Settings in the Parameter configure interface, shown in the following figure.

Network Audio & Video	Decoder	Er	nbedded multiDecoder
Decode Operation	Parameter Configure	Device Management	
f			
 Device Information 	🗹 Enable DDNS		
Time Settings	DDNS Type:	Private 👻	
■ Network Parameters Basic Network Settings	Server Address:		
	Port:	7070	
RS232 Settings	User Name:		
► RS485 Settings	Password:	•••••	
Alarm Input Settings	Domain Name:		
Arming Time Account Management	Save		
► Export Parameters			

- 2. Check the *Enable DDNS* checkbox to enable the DDNS function.
- 3. Select DDNS Type as *Private*.
- 4. Set other parameters according to the DDNS type you selected above.

4.2.5 Alarm Input / Output Settings

Purpose:

As the Decoder is unable to obtain the alarm signal over network, it must be connected with external alarm input/output.

Steps:

Alarm Input Settings

- 1. Click Parameter Configure→Alarm Parameters →Alarm Input Settings to enter the alarm setting interface.
- 2. Set the Alarm Mode for the selected alarm input and configure the Alarm Input Handling methods. By default, the Alarm Mode is in *Normally Open*.



Alarm Output Settings

1. Click Parameter Configure→Alarm Parameters →Alarm Output Settings to enter the alarm setting interface.

- 2. Select the alarm output, you can also customize the output delay time. Output delay time refers to the duration of the alarm after the alarm output, for example, when you set the alarm output delay time as 10 seconds, when an alarm occurs the alarming time lasts 10 seconds later than the time of the alarm stopped.
- 3. Click **Save** to save your settings.



4.2.6 Arming Time

Purpose:

Set the time schedule for alarm input and alarm output.

Steps:

- 1. Click Parameter Configure \rightarrow Arming Time to enter the following interface.
- 2. Choose the Start Time and the End Time.
- 3. Click Save to save the schedule.

Network Audio & Video Decoder				Embedded multiDecoder
	Decode Operation	Parameter Configure	Device Management	
(↑ Paramete Device III → Trume Se → Basis → DON ■ > Serial Pi > Rest → Rast → Alarm → Alarm → Account → Export P	Configure formation anga Parameters Network Settings Settings Settings 5 Settings 5 Settings rameters 6 Settings Codput Settings Management arameters	Anning Time Monday: Tuesday: Wednesday: Thursday: Friday: Salurday: Salurday: Description Settor Saive	Start Time 00 • 2 00 • 00 •	Stop Time 24 00 25 00 26 00 27 00 28 00 29 00

4.2.7 Account Management

The user accounts can be managed in this interface.

Steps:

- 1. Click Parameter Configure→Arming Time to enter the account management interface.
- 2. You can add, modify or delete the user, as well as configure operating permissions to the users.

Note:

For the admin user, only the password can be modified.

4.2.8 Rebooting, Upgrading and Restoring the Default

Settings for the Decoder

Steps:

- 1. To reboot, upgrade or restore the default settings of the decoder, go to the **Device Management** interface.
- 2. Choose the configuration items in the left part of the page.

To upgrade the decoder:

- 1) Click the **set of the interface**, see the following figure.
- 2) Click Browse to search the upgrading files.
- 3) Click Upgrade to upgrade it.

Network Audio & Video	o Decoder	Embedded multiDecoder
Decode Operation	Parameter Configure	Device Management
Ubgrade		Brouse
	Status:	Upgrade
Rative Delast	Please click he	re to download and install the plug-in. Close the browser when installing the plug-in.
Report		

To restore the default settings of the decoder:

- 1) Click icon to enter the Restore Default interface.
- Click Complete to restore the completed factory settings of the decoder. Or

Click Simple to restore just a part of the factory settings of the decoder.



To reboot the decoder:

- 1) Click icon to enter the rebooting interface.
- 2) Click OK if you are sure to reboot the device.



CHAPTER 5 Decoder Configuration and Operation by Client Software

Run the disk of iVMS-4200 software, and double click the icon to install it in your PC. In this chapter, the basic

procedure of operating the decoder by the software is described.

Please refer to the user manual of iVMS-4200 for more detailed information.

The following figure shows the main interface after accessing to the software:



Note: The software is capable of many functions as the controlling and managing for many devices, such as the DVR, NVR and so on. In this manual, only the operation related to the decoder is introduced.

5.1 Adding, Modifying and Deleting the Decoder

5.1.1 Adding the Decoder to the Client Software

Steps:



1. Click Decoding in the control panel to enter the decoding device management interfaces.

🛃 File System	View Tool H	łelp	IVMS-4200
Control Panel	De Mariño	coding Device Management	
Nickname	IP	Serial No.	w online devices
172.9.108.108	172.9.108.108	DS-6408HD-TI0120111102AARR232343546WC	1

2. Click ADD button to add the decoder to the management list of the software.

Add Dec	coding Device ×
Private Domain Mod	le
Nickname:	
Address:	
Port:	8000
User Name:	
Password:	
Show online devices	Add Cancel

3. Enter the Nickname, IP address and port number of the device, and input the user name and password to get access to it. The nickname is the name you customized and give to the decoder in the client software.

0r

If you add the decoder with a private domain name, you can check the checkbox before Private Domain Mode and enter the needed information.

Add Decoding Device				
✓ Private Domain Mode				
Nickname:				
DNS Address:				
Port:	8000			
Device Serial No.:				
User Name:	admin			
Password:	•••••			
Show online devices	Add Cancel			

4. You can also click **Show online devices** to search the online devices in the same network segment. And if there are online devices in the same network segment, they are listed in the left part on the interface shown in the following figure.

		Show onlin	ie devices		×
Serial No.	_ IP	Port	Device Type	Device Information	
				MAC Address:	
				Software Version:	
				Device Serial No.:	
				Network Information	
				IP Address:	
				Subnet Mask:	
				Port:	
				Please Input Administra	tor Password:
					Modify
				Recover Default Passw	ord: Restore
	Refresh every 15s	ò		Select device	Exit

- 1) With the administrator password you can modify the IP address Subnet Mask and the Port number of the searched decoder.
- 2) Click the select device icon to add the device to the management list.

5.1.2 Deleting and Modifying the Decoder to the Client Software

After the successful adding of the device you can modify or delete the decoder from the management list. Select the decoder on the device list and click Modify or Delete to modify or delete it.



Modify Decoder ×		Delete 3	×
Private Domain Mode			
Nickname:	172.9.108.108		
Address:	172.9.108.108		
Port:	8000	Delete the selected decoding device?	
User Name:	admin		
Password:	•••••		
Show online devices	Modify Cancel	Confirm Cancel	

5.2 TV Wall Layout Settings

Steps:



1. On the control panel click TV Wall to enter the TV Wall setting interface.

The decoder configuration interface is shown as below:

File System View Tool	l Help	WMS-4200	- 0 ×
Control Panel	TV Wall Decoding Device Management	15:07:03 2011-12-10	CPU Network
Decoding Device Mode			1
🗎 172.9.108.108			
& VGA01			
₽ VGA02			
VGA03			
₽ VGA04			
₽ VGA05			
₽ VGA06			
VGA07			
VGA08			
P HDMI01			
P HDMI02	1		
P HDMI03			
P HDMI04			
P HDMI05			
P HDMI06			
P HDMI07			
P HDMI08			
	1114		•
Edit TV Wall		年止進業費用	
Alarm Event 📢			

2. Click and drag the channels on the list of the decoding devices on the left bar to the TV Wall screen,

such as the **OGA01**



You can drag many decode channels to the TV Wall.

File System \	View Tool Help		IVMS-4200		- 0 X
Control Panel	📰 Main View	import Camera	🐺 TV Wall 🔀 📳 Decoding Device Managemen		15:02:47 CPU
Decoding Device	Mode				*
6401HD-T	~				
VGA01					
BNC01					
HDMI01					
172.9.107.101	~				
VGA01					
VGA02					
VGA03					
VGA04					
VGA05					
VGA06	1				
VGA07					
VGA08		6401HD-T VC401			
HDMI01					
HDMI02			172.9.107.101_VGA01	×	
HDMI03					
HDMI04					
HDMI05					
 HDMI05 HDMI07 	_				
 HDMI07 HDMI08 	_				
. HDMIUG					•
Alarm Even	t 📢 Motion Detection	on Alarm Start		L	Save Cancel
File System	View Tool Help		IVMS-4200		_ 0 ×
Control Panel	Kain View	import Camera	🔠 TV Wall 😕 📳 Decoding Device Managemen		15:04:07 CPU
Decoding Device	Mode	6401HD-T_VGA01	×		-
6401HD-T	~				
VGA01					
BNC01					
HDMI01					
172.9.107.101	~				
VGA01					
VGA02					
VGA03					
VGA04					
VGA05		172.9.107.101_VGA02 3		172.9.107.101_VG407 ×	
VGA06					
VGA08		(172.9.107.101_VGA01	×	
A HDMI01	_				
A HDMI02	_				
HDMI03					
HDMI04					
HDMI05					
A HDMI06					
HDMI07					
HDMI08		172.9.107.101_VGA04	<u>^</u>		
Edit TV Wall			田田市日市正地市市		Save Cancel
Alarm Even	t 📢 Motion Detection	on Alarm Stop			D *

3. Select the TV screen you want to configure and then you can click on the toolbar of the certain icon to configure the layout of it. The description of the icons are in the following table.

Button	Description	Button	Description
	1\4\9\16-division display	8	Right align
E	Left align	-1	Bottom align
1	Top align	10	Horizontal Centralization
606	Vertical Centralization	L.	Equal Height
In	Equal Width		

Toolbar Description:

- 4. You can double click on the VGA01 or right click it and then click modify on the decoding device list to modify the video output parameters of the decoding channel.
 - VGA01
 VGA0_______
 VGA03
 VGA04
- 5. You can choose the video output standards and resolution of the decoding channel.



5.3 Setting the Decoding Channel for the Decoder

After the configuration of the layout of the TV wall and the general output parameter of the decoding channel, you can set the encoding devices for the decoding channel.

1. Click **Save** on the right of the bottom toolbar to save the setting of the TV wall layout you just set and enters the following interface to configure the encoding devices to the decoding channel.

Note: You must add several encoding devices to the iVMS client software to add the encoding devices to the decoder. The encoding devices can be an network camera, DVR, NVR and

File System View	w Tool Help			IVMS-4200	_ o ×
Control Panel	🕎 Main View	import Camera	📰 TV Wall 🗮	Decoding Device Management	17:00:08 CPU
😑 dome	~				
@ dome_Camera01					
DVR	~				
DVR_Camera01	_				
DVR_Camera02					
DVR_Camera03					
DVR_Camera04					
DVR_Camera05					
DVR_Camera06	_				
DVR_Camera07					172.0.107.101.1/0406
DVR_Camera08					112.0.101.101_108.00
DVR_Camera09	4				
DVR_Camera10					172.9.107.101_VG405
DVR_Camera11			۸		
DVR_Camera12		6401HD-T_VGA01			
DVR_Camera13					
DVR_Camera14					
DVR_Camera15					
₽ DVR_Camera16					
	4				
Edit TV Wall			Ģ	a 🖲 🔍 🕞 🙃 🖓	0
Alarm Event	Motion Detection	Alarm Stop			

In this configuration interface, the left bar lists the encoding devices which has been added to the client software,

and the bottom bar with the configuration of the decoding action.

Button	Description	Button	Description
5	Showing Live View		Alarm Decoding Mode
	PTZ Control		Start Decoding
	Stop Decoding	9	Start Cycle Decoding
<u> </u>	Stop Cycle Decoding		

Description of the buttons on the bottom bar:

2. Click and drag the encoding channels to the screen on the TV Wall.

If you want to edit the TV Wall layout again, you can click the Edit TV Wall button to get back to the TV Wall setting interface.

5.4 Remote Setting for Decoders

In the Decoding Device Management interface, select the device on the device list and click Remote Configuration.



The following prompt shows the interface for remote configuration, you can check the general information of the device, and configure the parameters for network settings, user accounts, alarms and so on. For detailed information, please refer to the *User Manual of the iVMS 4200 Client Software*.

		Decoding Device Parameters	×
General	Display basic status of (e.g. device type, chann	the device, nel number, etc.).	
Alarm	Device Type: Channel Number: Alarm Input Number:	DS64XXHD_T 4 4	
Exception Contens	Alarm Output Number: 4 Device Serial No.: 0 DS-6401HD-T0120111118AARR232343488WCV 0		
	Version Information Firmware Version: Encoding Version:	V1.0.0 build 111210 V1.0 build 111122	
	Panel Version: Hardware Version:	V0 0x6042	
Reboot	re Factory Settings	Save	

CHAPTER 6 Appendix

Appendix A Specifications

Model		DS-6401HDI-T	DS-6404HDI-T	DS-6408HDI-T		
		1-ch	4-ch	8-ch		
Audio/ Video Output	VGA Output	1920×1080@60/50HZ, 1600×1200@60Hz, 1280×1024@60Hz, 1280×720@50/60Hz, 1024×768@60Hz				
		1-ch	4-ch	8-ch		
	HDMI Output	1920×1080@60/50HZ, 1600×1200@60Hz, 1280×1024@60Hz, 1280×720@50/60Hz, 1024×768@60Hz				
	CVBS Output	1-ch	_	—		
	Audio Output	1-ch, RCA connector	4-ch, RCA connector	8-ch, RCA connector		
Audio/ Video Decoding	Decoding Capability	1-ch at 5MP/1080P; 2-ch at 720P; 4-ch at 4CIF resolution	2-ch at 5MP; 4-ch at 1080P; 8-ch at 720P; 16-ch at 4CIF resolution	4-ch at 5MP; 8-ch at 1080P; 16-ch at 720P; 32-ch at 4CIF resolution		
	Multi-division Display	1/4	1/4/9/16	1/4/9/16		
	Network Interface	1; 10/100/1000Mbps self-adaptive Ethernet interface				
	Serial Interface	1 RS-232 (DB9), 1 RS-485				
External Interface	Two-way Audio In	1-ch, 3.5 mm connector (2.0 Vp-p, 1 kΩ)				
	Two-way Audio Out	1-ch, 3.5 mm connector (2.0 Vp-p, 1 kΩ)				
	Alarm In	4				
	Alarm Out	4		220 VAC		
Others	Power Suppry	12 VDC	220 VAC	220 110		
	Consumption (Without HDD or DVD-R/W)	Max. 15W	Max. 70W	Max. 70W		
	Working Temperature	-10℃~55℃				
	Working Humidity	10%~90%				
	Chassis	19-inch rack- mounted 1U chassis	19-inchrack-mounted1.5Uchassis	19-inch rack- mounted 1.5U chassis		
	Dimensions (W×D×H)	220×180×45mm	445×390×70mm	440×350×70mm		
	Weight	1.12 kg	5.2 kg	5.2 kg		

Appendix B. FAQ

- Why cannot *ping* the decoder?
 - 1. Check the cable and the switch.
 - 2. Please refer to Chapter 3 to configure the IP address of the decoder.

• Why cannot connect the decoder with client software?

- 1. Check the decoder IP address.
- 2. Cable is connected.
- 3. User name and password of decoder are correct.

• Why cannot play back the record files in DVR with decoder?

- 1. Check the DVR network connection.
- 2. Check the parameters of the playback file.
- 3. Check if there are files existed in the selected time duration.

• Why cannot decode the stream transported by stream media server?

- 1. Check the network connection between decoder and stream media server.
- 2. Check if the stream media server port is connected with the port added on decoder.