# iVMS-4200 Client Software User Manual Version 1.02

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## **1.1 Description**

iVMS-4200 is a video management software using a distributed structure to provide centralized management for all the connectable devices. It can manage the NVR, DVR, IP cameras, compression card and decoders. With different management and configuration modules and a reasonable collocation, it provides many solutions for different surveillance scenario, medium or small scale. It is a steady and reliable system with functions like real-time monitoring, video recording and searching, file backup, TV wall displaying, etc.

This user manual describes the function, configuration and operation steps of iVMS-4200 software. To ensure the properness and stability of the software, please refer to the contents below and read the manual carefully before installation and operation.

## **1.2 Running Environment**

**Operating system**: Microsoft Windows 7/Windows 2008 (32/64 bit operating system), Windows 2003/2000/Windows XP(32 bit operating system)

**CPU:** Intel Pentium IV 3.0 GHz or above

Memory: 1G or above

**Display:** 1024\*768 or above

Å Note :

To simultaneously live view for many channels, or for the channel with high resolution, the higher hardware configuration is needed.

The software does not support 64 bit operating system; the above mentioned 64 bit operating system refers to the system which supports 32 bit operating system as well.

## 2.1 User Registration

For the first time to use the iVMS-4200 software, you need to register a super user for login.

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

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

#### Note:

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

## 2.2 Wizard for Importing Device

#### Purpose:

The main function of the iVMS-4200 is to manage network devices remotely. Thus the task on the top hierarchy is to register the device to the management list.

For the first time user, the wizard message box pops up to ask you whether you want to be guided for the basic operation of the client software.



If this is not the first time you use the client software, the wizard doesn't pop up, and you can also use the wizard, click Help and Open Wizard.

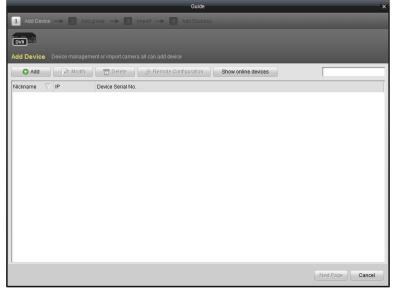


Click

Entering Guide to start the wizard, or click **Cancel** to exit the wizard.

#### Steps:

1. According to the hint, click Add icon to add devices to the management list of the software.



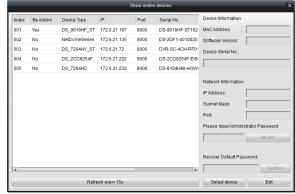
- 2. Create a nickname for the device, enter the IP address and the port number of the remote device, enter the user name, and the password of the device.
- Click Add icon to add the device. 3.

	Add Device	×
Private Domain Mod	le	
Nickname:		
Address:		
Port:	8000	
User Name:		
Password:		
Multicast Address:		
Export to Group		
Show online devices	Add	Cancel

If you add the device with a domain name, you can check the Private Domain Mode checkbox. And create a nickname, enter the domain name and port number, and enter the admin name and password of the device to add the device.

	Add Device 🗙
Private Domain Mod	e
Nickname:	
DNS Address:	
Port:	8000
Device ID:	
User Name:	admin
Password:	•••••
MulticastAddress:	
Export to Group	
Show online devices	Add Cancel

You can also click Show online device to show the device connected to the same Local Area Network.



### Adding the active online devices

Steps:

- 1) Select the device in the device list, and the information of the device such as the MAC address the software version and the serial number is shown in the left part. The information in this part can't be modified.
- 2) In the Network information area, you can modify the IP address the Subnet Mask and the Port number with entering the admin password of the device.
- 3) You can also recover the default password for the device, with the code provided by the authorized engineers.

Device Type	IP	Port	Serial No.	$\triangle$	Device Information	
DS_2CD8254F	172.6.21.222	8000	DS-2CD8254F-EIS0120111	124CCRR	MAC Address:	00-40-48-71-cd-49
NetDomeSeries	172.6.21.135	8000	DS-2DF1-4010020110816E	CWR1234	Software Version:	V3.0build 111216
DS_7204HC	172.6.21.232	8000	DS-8104HMI-A/GW0120111	030BCWR	Device Serial No.:	
DS_9016HF_ST	172.6.21.187	8000	DS-9016HF-ST1620111021	BBRR403		0120111124CCRR40
DS_7204HV_ST	172.6.21.72	8000	DVR-SC-4CH-RT01201111	04AAWR00	03-20062541-618	012011124CCRR40
					Subnet Mask: Port: Please Input Admin	Modify
(		Refresh ev		Þ	Recover Default Pa	Restore

#### 4. Adding Camera Group

When adding a device, you can check the Export to group checkbox to export the device you added to certain camera group. By default, the name of the group is the same with the name of the device you just added.

	Add Device X
Private Domain Mod	le
Nickname:	
Address:	
Port:	8000
User Name:	
Password:	
Multicast Address:	
Export to Group	
Show online devices	Add Cancel

If you want you customize the camera choosing for the group and the group name. You uncheck the Export to Group checkbox and click Next page on the Wizard, to enter the adding group interface.

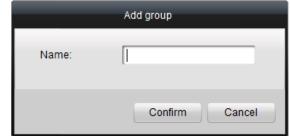
Click Save to add a new user. Click Modify to change the settings for the new user.

Guide	×
1 Add Device $\rightarrow$ 2 Add group $\rightarrow$ 3 import $\rightarrow$ 4 Add Success	
Add group This software is a packet based on control camera management	
🕒 Add 📝 Modify 📅 Defete	
Searching Q	
9100	1
Prev Page Next Page Cancel	

5.

Click the Click the Click of Group dialog box. Edit the name of group and then click **OK** to save your settings. The added

group will be displayed in the list.



#### 6. Import Channels to Group

In the left area on the Camera Import interface, click to select the channels and then click **Import** button to import the selected channels to the Group on the right.

	Guide					
1 Add Device →	2 Add group –	→ <u>3</u> Import	Add Succ			
Import Please choose	to import into grou	ip of monitoring car	mera are introduced			
Select device					Group	
All	~	🕒 Add De	evice		🕒 Add 📝	Modify 📅 Delete
(2) 9100		2 8			Searching	٩
12 12 44 14 16 1 V	17 19 10 10 10 10 10	0.140 M 6/ V			9100	^
NO VIDEO	NO VIDEO	NO VIDEO	NO VIDEO		8100 9100_Camera09	~
A.m. 0	6.000 Ø	6.000 Ø	6.000 ft		S 9100_Cameraos	
11 11 30 10 Cel 3	0 9 8 F 96 6 F 7	0 1 M 1 10 10 10	0.130.467.2	Import		
NO VIDEO	NO VIDEO	NO VIDEO	NO VIDEO	Import All		
2.000 B	Constant Sec. 17	Const.	2.000 C			
NO VIDEO	NO VIDEO	NO VIDEO	NO VIDEO			
Array (*	A	4.000 B	A			
			1 2			
Prev Page						Next Page Cancel

7. You can drag and select multiple channels to import them to the group you added.

	Guide		×
1 Add Device $ ightarrow$ 2 Add group –	→ <u>3</u> Import → 🐴 Add Succ		
<b>a</b>			
Import Please choose to import into grou	ip of monitoring camera are introduced	_	_
Select device		Group	
All	C Add Device	G Add	📝 Modify 📅 Delete
9100	2 8 8 6 7 7	Searching	Q
0.000 M (0.00 M (0.000 M (0.00		9100	~ <b>*</b>
		9100_Can	nera01
NO VIDEO NO VIDEO	NO VIDEO NO VIDEO	9100_Can	nera02
Annu B Annu B	Annu B. Annu B.	9100_Can	
NO VIDEO NO VIDEO	NO VIDEO NO VIDEO	Import @ 9100_Can	
100 100 100 100 100 100 100 100 100 100	cond cond	Import All	
0.000 M for 2 0.000 M for 2	er mitter han die 12	@ 9100_Can	
NO VIDEO NO VIDEO	NO VIDEO NO VIDEO	9100_Can	
6.000 C 6.000 F	6 mm 2	9100_Can	
		9100_Can	nera10
		§ 9100_Can	nera11
		9100_Can	nera12 👻
	1 2		
Prev Page			Next Page Cancel

The devices to be added must be online currently.

One channel can be added to different groups.

Up to 256 groups can be added, and 64 channels can be added to each group, with a maximum of 1024 channels for all the groups totally.

After importing the selected channels to the group, you can return to the control panel and then enter the Main View interface to get a live view of the added channels.

## 2.3 User Login

When you open the iVMS-4200 software after registration, the login dialog box pops up, shown in the following figure:

	Login	
User Name:		~
Password:		
	Enable Auto-log	in
	Login	Cancel

Input the user name and password, and then click Login.

Check the Enable Auto-login checkbox to enable auto-login, and then the user name and password is not needed for the login next time.

## 2.4 Control Panel and Main Menu Bar Introduction

File System View Tool Help 15:42:44 CPU 2012-02-06 Network Event Search E-map Remote Playback Import Camera Local Log Search Tywall TV wall Management DVR Device Management Storage Server • System Camera Settings RTSP listening port, port range Event 📙 🖉 🏟 9000\_IP Camera04 101

The main control panel of the iVMS-4200 is shown in the following figure:

#### Menu Bar:

Menu Dai.		
File	Open Captured Picture:	Enter the setting interface to browse the folder in the host PC of the exported captured picture file (s) and view the captured pictures.
	Open Video File:	Open the video player and browse the folder location of the exported video file (s), click to browse the folder in the host PC of the record files.
		You can also capture pictures during the playing of the video file.
	Open Log File:	Enter the Log File interface to browse in the host PC of the folder location of the exported log file(s).
	Exit:	Exit the iVMS-4200 remote client.
	Lock:	Lock the screen operation. You must log in after locking the system.
Switch User:	Switch login user.	
System	System Configuration:	Enter the System Configuration interface.
	Import Configuration File:	Import client configuration file from your computer.
	Export Configuration File:	Export client configuration file to your computer.
	1024*768:	Display window at size of 1024*768.
	1280*1024:	Display window at size of 1280*1024.
	Full Screen:	Display window in full screen.
	Control Panel:	Enter Control Panel.
View	Main View:	Enter Main View interface.
	E-map:	Enter <i>E-map</i> interface.
	Event Search:	Enter Event Search interface.
	TV Wall:	Enter TV Wall Setting interface.

	Import Camera	Enter Import Camera interface.	
	1	1	
	Camera Settings	Enter Camera Setting interface.	
	Account Management	Enter User Account Management interface.	
	Device Management	Enter Device Management interface.	
Tools	Storage Server	Enter Storage Server Management interface.	
	Management		
	Stream Media Server	Enter Stream Media Server Management interface.	
	Management		
	Decoding Device	Enter Decoding Device Management interface.	
	Management		
	Broadcast	Select device to start broadcasting.	
Help	Open Wizard	Use the guide for camera import.	
	About	View information of the client software, including company software name, version, etc.	
	User Manual (F1)	Click to open the User Manual; you can also open the User Manual by pressing FI on your keyboard.	

There are 14 icons on the control panel, and their functions are described in the following table:

	Main View	Viewing live and playback video; realize video operation (e.g., picture capture, recording, PTZ control, etc.).
	E-map	Managing and displaying E-Map and hot areas and spots; realize E-Map operation (e.g., operate map zoom in/out, view hot spot, display alarm, etc.)
Operating Options	Event Search	Searching and playback of the event record files; realize playback operation.
	Remote Playback	Playback the recorded video and/or audio files in the remote client.
	TV Wall	Configuring the decoding of the channels and show them on the TV wall.
	Import Camera	Adding, modifying or removing the camera groups; import/export of cameras.
	Local Log Search	Searching, viewing and backup of local logs (alarm, operation, system logs).
	Account Management	Adding, modifying or removing the user account parameters; assign operating permission to each user.
	Device Management	Adding, modifying or removing the DVR device; configuring parameters (e.g., network, alarm input/output, HDD, etc.) for the added DVR.
Management	Storage Server Management	Adding, modifying or removing the storage server; configuring parameters (e.g., record schedule, network, HDD, etc.) for the added storage server.
Options Stream Media Server		Adding, modifying or removing the stream media server; configuring parameters (e.g., RTSP port, upper/lower limit, etc.) for the added stream media server.

	Decoding Device	Adding, modifying or removing the decoder; configuring parameters (e.g., network, alarm input/output, exception, etc.) for the added decoder.
	TV Wall Management	Adding, modifying and deleting the TV wall.
Configuration	Camera Settings	Configuring camera parameters (e.g., image quality, record schedule, motion detection, etc.).
Options	System Configuration	Configuring the general parameters (e.g., saving path of files, alarm sound, Email, etc.).

## 2.5 Account Management

#### Purpose:

In the iVMS-4200 client software, many user accounts can be added, and for the different users, different permissions can be granted.

### Steps:

File System View	Tool Help		IVMS-4200		
Control Panel	🔔 Account Management 🐣				11:34:52 2011-07-06 N
r	odify 📅 Delete				
Index Name	Туре				
Alarm Event					
		log box	as follows	:	
Add to enter the popup			as follows		
<b>dd</b> to enter the popup					_
to enter the popup		A	dd User		
to enter the popup User Information User Type:	Add User dia	A	kdd User User Name:	user	
to enter the popup	Add User dia	A	dd User		Save
d to enter the popup User Information User Type: Password:	Add User dia	A	kdd User User Name:	user	Save
to enter the popup User Information User Type: Password: User Privilege	Add User dia	A	dd User User Name: Confirm:	User •••••	Save
I to enter the popup User Information User Type: Password: User Privilege	Add User dia	A	dd User User Name: Confirm: T72.6.21.65	user •••••	Save
User Information User Type: Password: User Privilege	Add User dia	A	Add User User Name: Confirm: T172.6.21.66 T172.6.21	user •••••	Save
to enter the popup User Information User Type: Password: User Privilege All Live View PTZ Control	Add User dia	A	Add User User Name: Confirm:	user ••••• .69_Camera01 .69_Camera02	Save
to enter the popup User Information User Type: Password: User Privilege All Live View PTZ Control Capture	Add User dia	A	Add User User Name: Confirm:	user ••••• .69_Camera01 .69_Camera02 .69_Camera03	Save
to enter the popup User Information User Type: Password: User Privilege All Live View PTZ Control	Add User dia	A	Add User User Name: Confirm:	user .69_Camera01 .69_Camera02 .69_Camera03 .69_Camera04	Save
d to enter the popup User Information User Type: Password: User Privilege All Live View PTZ Control Capture Record Camera Set	Add User dia	A	Add User User Name: Confirm:	user .69_Camera01 .69_Camera02 .69_Camera03 .69_Camera04 .69_Camera05	Save
I to enter the popup User Information User Type: Password: User Privilege All Live View PTZ Control Capture Record Camera Set	Add User dia	A	Add User User Name: Confirm:	user .69_Camera01 .69_Camera03 .69_Camera03 .69_Camera04 .69_Camera05 .69_Camera06	Save
I to enter the popup User Information User Type: Password: User Privilege All Live View PTZ Control Capture Record Play Back Re	Add User dia	A	Add User User Name: Confirm:	user .69_Camera01 .69_Camera02 .69_Camera03 .69_Camera04 .69_Camera05	Save
I to enter the popup User Information User Type: Password: User Privilege All Live View PTZ Control Capture Record Camera Sett Play Back Re	Add User dia	A	Add User User Name: Confirm:	user .69_Camera01 .69_Camera03 .69_Camera03 .69_Camera04 .69_Camera05 .69_Camera06	Save
I to enter the popup User Information User Type: Password: User Privilege All Live View PTZ Control Capture Record Camera Set Piay Back Re Download R	Add User dia	A	Add User User Name: Confirm:	user •••••• .69_Camera01 .69_Camera02 .69_Camera03 .69_Camera04 .69_Camera05 .69_Camera06 .69_Camera06	Save
to enter the popup User Information User Type: Password: User Privilege All Live View PTZ Control Capture Record Camera Set Download R Remote Rec	Add User dia	A	Add User User Name: Confirm:	user 	Save
to enter the popup	Add User dia	A	Add User User Name: Confirm:	user 	Save
I to enter the popup User Information User Type: Password: User Privilege All Live View PTZ Control Capture Record Camera Set Play Back Re Download R Remote Rec Synchronizal	Add User dia	A	Add User User Name: Confirm:	user •••••• ••••• ••••• ••••• ••••• ••••• •••• ••• •••• •••• •••• •••• •••• •••• •••• •••• •••• ••	Save

#### **User Information:**

User Type: you can select in the dropdown list the two kinds of user types (Administrator and Operator) to create the users with different permissions.

User Name & Password: Customize the login user name and password.

#### **User Permissions**

There are 27 operating permissions to be selected and the permission to access to different cameras is also provided. *Note:* 

The Admin user has all the permissions as default and operator user's permission should be selected in the list. All the selected permissions take effect immediately.

## Chapter 3. Connecting and Local Management for DVR, NVR

## and Network Cameras

Before any operation, you need to add a device and import cameras. There are many ways to add the device in the management list. You can add devices follow the guide of wizard.

Please refer to Section 2.2 Wizard for Importing Device.

This chapter introduces the connecting and management of the devices.

## 3.1 Device Adding in the Device Management Interface

### 3.1.1 Adding Device

#### Steps:

1.



to enter the device management interface.

2. Click Add in the Device Management interface.

🕎 Control Panel	Device Management			<b>19:41:58</b> 2012-01-10	CPU Network
🖸 Add 🛛 📝 Modify	/ Delete 🏼 🤌 Remo	te Configuration	Show online devices		
Nickname $\nabla$ IP	Device Serial No.				
Alarm Event	6 😃 🕸				¥ 🗆 🎗

3. Create a nickname for the device and then input it with other information, the User Name and Password are admin and 12345 respectively and the port number is 8000 by default.

	Add Device 🗙						
Private Domain Mode							
Nickname:							
Address:							
Port:	8000						
User Name:							
Password:							
Multicast Address:							
Export to Group							
Show online devices	Add Cancel						

If you check the Private Domain Mode checkbox, you should input the DNS address and Device ID as well.

	Add Device 🗙 🗙					
Private Domain Mode						
Nickname:						
DNS Address:						
Port:	8000					
Device ID:						
User Name:	admin					
Password:	•••••					
Multicast Address:						
Export to Group						
Show online devices	Add Cancel					

The iVMS-4200 also provides the **searching the active online devices** function. *Steps:* 

- 1. Click the **Show Online Devices** icon to search the online devices. All the online devices will be searched and shown on the interface.
- 2. Click to select the online devices you want to add, and then click Select Device to add the device.
- 3. Enter the nickname, the user name and the password of the device to add it to the management list.

ndex	Be Added	Device Type	IP	Port	Serial No.	Device Information
001	Yes	NetraV2.1.0	172.6.21.77	8000	DS-9632NI-ST1620	MAC Address:
02	No	NetDomeSeries	172.6.21.135	8000	DS-2DF1-4010020	Software Version:
003	Yes	DS_7316H	192.0.0.64	8000	DS-7316HI-S16200	Device Serial No.:
04	No	DS_7204HV_ST	172.6.21.72	8000	DVR-SC-4CH-RT01	
						Network Information
						IP Address:
						Subnet Mask:
						Port
						Please Input Administrator Password:
						Modify
						Recover Default Password:
(					Þ	Restore

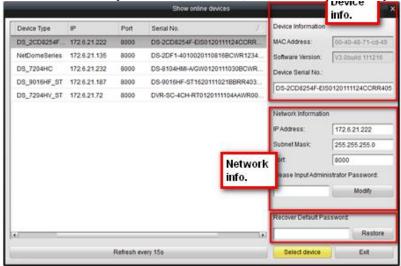
Index shows the numbers of the devices found.

*Be Added* status shows the adding status of the device, if the device is already added in the management list of the software, **Yes** is shown in this list.

Device type shows the type of the device, whether it is a camera or a DVR and so on.

Steps:

- 1. Select the device in the device list, and the information of the device such as the MAC address the software version and the serial number is shown in the left part. The information in this part can't be modified.
- 2. In the Network information area, you can modify the IP address the Subnet Mask and the Port number with entering the admin password of the device.
- 3. You can also recover the default password for the device, with the code provided by the authorized engineers.



#### **3.1.2 Device Configuration**

After adding the device, you can follow the procedure in this section to configure the device. 1. Click the device name to select the device in the Device Management interface.

Control	Panel 📻	Device Management	19:55:24 CPU 2012-01-10 Netw
C Add	📝 Modify	To Delete & Remote Configuration Show online devices	
Nickname	7 IP	Device Serial No.	
test	172.6.21.72	DVR-SC-4CH-RT0120111104AAWR000000018WCVU	
ι			
Alarm	Event 🏀		

2. You can click Modify to edit the device basic information as device name and address. Or

You also can double click the device to modify it.

Connection Settings						
Private Domain Mode						
Nickname:	DS9116ST					
Address:	172.6.21.65					
Port:	8000					
User Name:	admin					
Password:	•••••					
Multicast Address:						
Show online devices	Modify Cancel					

Click Delete icon to delete the selected device and you can also configure the settings of the device by clicking Remote Configuration. For the detailed procedures of remote configuration, please refer to 4.3 Remote Device

4.3 Remote Device Management and Configuration.

## 3.2 Adding a Camera Group

A camera group must be added for the live view and other operation. After adding the device, please return to the control

panel interface and click to enter camera group configuration interface. *Steps:* 

1. Click Add to create a group in the right area.

Group			
Add	Ø	Modify	📅 Delete
0 1/1 1.1		Import	Import All

2. Select the camera in the left area, and then click or <u>Import All</u> to add the cameras to the group. You can also hold the Ctrl key and select multiple channels or drag and select the channels to import.

Centrol Panel  Select device  Al  Centrol Panel  Centrol Panel Centrol Panel Centrol Panel Centrol Panel Centro	Decoding Device Management	Search 911 911 911 911 911 911 911 91	00 ~ ~ 00
Alarm Event 🍐 🗅 🔮 Erner code 60.0	1 Failed Ip load Stream Media Server Ibran,		× 0 ×

## 3.3 Live View

#### Before you start:

A camera group is required to be defined before live view. For the grouping operation, please refer to chapter 3.2 Adding a Camera Group. And the group name is shown on the list in the left bar.

**Entering the Live View Interface:** 

Click the main view icon when on the control panel, or click View -> Main View on the toolbar to enter the live view interface.

Vie	w	Tool	Help	
	1024	4*768		
~	1280	)*102	4	
	Full	Scree	n	
Ţ	Con	trol Pa	anel	
	Main	View		
-	E-m	ap	_	-
-	Ever	nt Sea	irch	
0	Rem	note P	laybacl	k
-	TV V	/all		
-			100	

The main view interface is shown in the following figure:



#### **Camera Status:**

Icon	Description
0	Camera is online and works properly.
<b>@</b>	Camera is offline.
0	Camera is in live view.
۲	Camera is in recording status.

Main View Toolbar:

## 🕱 🐼 🕟 📷 🚳 🔶 🔶 🛷

Button	Name	Description
<b>5</b> 2	Layout	Select different layout mode.
X	Full Screen	Display video in full screen mode, click again to restore.
	Stop All	Stop the display of all the cameras.
<b>6</b>	Manual Record	Start manual record for the selected channel, click again to stop.
< 🔶	Previous and Next	Click to view previous and next camera.
0	Auto Switch	Start auto switching the screen by cameras or by groups.
40	Volume	Adjust the volume for live audio.
	Live Audio	Enable/disable live audio.

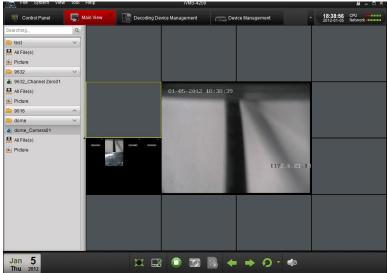
Click *Click*, the following box pops up, you can choose the screen layout by clicking certain icon.

$\blacksquare$			
▦			
	32	64	

### 3.3.1 Basic Operations in Live View

#### Start live view for one channel:

To view the live video, drag the camera from the list to the display window, or double click the camera name after you select one screen.



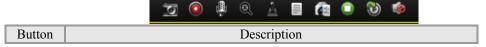
#### Start live view for camera group:

You can also get the live view for the whole group to display the live view of the cameras in the group in the screen. Click on the group name, and then click the Play button at the bottom of the screen, see the following figure. Or

Double click the group name.



Toolbar in each display window:



<u>s</u>	Capture
٢	Start manual record, click it again to stop
	Start voice talk, click again to stop. This two-way audio can be used for only one camera at one time. When you enable the voice talk of one camera, then the voice talk for other camera is stopped.
<u></u>	PTZ control, 8 direction icons will be displayed on the video.
	Check the camera status
1	Go to the camera setting interface
	Stop live view
3	Remote playback about 7 minutes record of current camera
40	Audio button, click to open and close

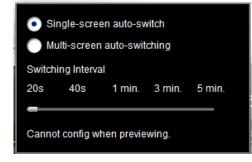
#### Stop live view:

To stop the live view for one channel, you can click in the quick setting toolbar. To stop the live view for all the channels, click on the bottom bar.

#### **Cycle Live View:**

Cycle live view mode includes the auto-switch in one screen or the auto-switch in multi-screen.

- 1. Click the next to the
- 2. Choose the auto-switch mode and set the interval for the switching.



3. Click O on the toolbar on the bottom to start the cycle live view.

### 3.3.2 Capture in Live View

#### Steps:

1. Select the screen.

2. Click icon on the bottom toolbar of Main View, or click icon in the tool bar of this display window.



A small window of the captured picture will be displayed to notify you whether the capture is done or not. If the capture is successful, there will be a link to the saving path of the pictures, and if not, there will be error messages accordingly.

#### To view the captured pictures:

File Syste

- Click on the small window of the pictures showed on the right bottom after capture.
- Click the Picture icon on the left toolbar; all the pictures captured on the remote client are stored here.
- Click File button on the toolbar and select Open Captured File.

em	View	Tool	Help	iVMS-420	00
em	View		ystem view Panel		₩ - 5 X 19:11:20 CPU 201221:55 Network
			_		T

### **3.3.3 PTZ Control in Live View**

For the PTZ control, click the icon on the toolbar on the screen for each camera, and the PTZ control panel will be displayed on the left side of the Main View.

#### Note:

This chapter only shows the operation of the PTZ control, to configure the PTZ parameters see 4.4.8 PTZ



Click on those directional buttons to control the PTZ function, or click the directional buttons on the PTZ control panel. You can also control the PTZ direction by the directional buttons on your keyboard.

	٠
U	•
•	4
	* 0 •

You can control PTZ by dragging and clicking the mouse on the display screen window.

0	0	8
4	0	6
0	0	8 DS-2AF1-401

Use the mouse to click on the video image, and then drag the mouse to different directions by following the arrows displayed on the video: **1** Upper Left; **2** Up; **3** Upper Right; **4** Left; **5** Right; **5** Lower Right; **7** Down; **3** Lower Right. The PTZ will move to the direction as the arrow goes.

Description of buttons on PTZ Control Panel:

Button	Description
٩	Zoom
	Focus
0	Iris
Q	3D Positioning
	Light
<#h	Wiper
· · · · · · · · · · · · · · · · · · ·	Directional buttons, click 💟 to start/stop auto-scan.
- @ +	Speed adjustment for PT function
Preset	Preset configuration
Pattern	Pattern configuration
Patrol	Patrol configuration
0	Calling function
$\wp$	Adding and editing function
<b>&gt;</b>	Deleting

### **Preset Configuration**

To add a preset for the PTZ: *Steps:* 

1. Click the directional buttons to move the PTZ to a desired location,

2. Select a PTZ preset number from the preset list, and then click 🖉 to add the preset and name this PTZ preset.

To delete a preset, select the PTZ preset from the preset list, and then click v to remove it.

	Add Preset	
Name:		
	Confirm	Cancel

### **Pattern Configuration**

To add a pattern for the PTZ, *Steps:* 

- 1. Click the Pattern button to enter the PTZ pattern path setup panel.
- 2. Select a PTZ pattern path number from the pattern list, click 🖉 to enter edit mode.
- 3. Click 💟 to start recording of this pattern path.
- 4. Use the directional buttons to control the PTZ movement.
- 5. Click v to stop the pattern recording. Click i to save the pattern path.



### **Patrol Configuration**

After adding two or more presets for one channel, you can set a patrol with presets for PTZ. To add a patrol path for the PTZ:

### Steps:

- Click the Patrol button to enter the PTZ patrol path setup panel. Select a track number from the list. 1.
- 2.
- Click 🕒 to add a preset (including the dwell time and PTZ speed for the preset) for this patrol path. 3.
- Click 💟 to call the patrol path or click 🔍 to stop calling. 4.

Click *C* to edit a preset in the patrol path. 5.

### Notes:

- Up to 16 patrols can be configured. •
- The patrol time can be set to  $1 \sim 255$  sec, and the patrol speed to level  $1 \sim 40$ . •

	PTZ	×
× 4	• + Q ·	-
· č	) <b>→</b> + <u>w</u> ·	-
× •	· · + O ·	-
		•
	Q 🔹 🕪	
Preset	Pattern Patrol	
Path 1	~ 0 0 4	2
•		
Ac	id Patrol No.	×
Preset	Preset 1	~
Dwell Time(s):	1	÷
Patrol Speed:	1	Ŧ
	Confirm	Cancel

Repeat the above operation to add other presets to the patrol.

After configuration, you can choose the patrol from the drop-down list Path 1  $\checkmark$ , and then call or stop them by clicking  $\bigcirc$  or  $\bigcirc$  key.

## 3.4 Alarm and Event in Live View

### 3.4.1 View Alarm / Event Information

The Main View interface p	rovides the	Alarm Event but	tons at the left bottom toolbar.	
Click the button to view the	Event 👆 🧶 🏟 9016_	Vent information as shown in the Camerol Falled to get pathol Error code 23 (Not Supported) Alarm Context Live View   Send Errit, TV Wall		XEE
-	etection ⊽ Video Exception ⊽ Ak ock the tooll	am input ⊽ Device Exceptional Dear and show the information	in the main view. Or click 💙	to hide the list.
	File         System         View         Tool         H           Control Panel         Car         Car         Car           Searching         Q         Q         Q           9100         ^         ^            8100         ^		(1995年) 01-12-2012 Thu 16:55:58	
		NO VIDEO	NO VIDEO	
	lsst2         ∧           lsst3         ∧           Ø 9016         ∨           Ø 9016_Camera01         ∨           Ø 9016_Camera02         ⊗           Ø 9016_Camera02         ⊗           Ø 9016_Camera03         ∨           Ø 9016_Camera03         ∨	Camera 03 01-12-2012 Thu 16:55:50	Camera 01	
	9016_Camera05      Alarm Event & 2  Time Description	OO16_Camera01 Failed to get patrol. Error code 23 (Not supported.)	NO VIDEO	
	2012-01-12 14:48 test Login failed. En	alled to get admit. Emer cole 32 (del supported) receder 7/Concerdion failed: delse delse and en consection timeso() rer code 7/Connection failed: delse of-line or consection timeso()	Nat Login failed. Ellior code 7 (Connection failed: device off-line or connection timesia())	
	Video Except	on 🔽 Alarm'input 🔽 Device Exceptional		

Click conto maximize the alarm/event log display panel and enable it to be shown in a new tab page.

🚽 File System View	Tool Help			IVM5-4200	B - 7
Control Panel	U Narm Event	🚰 Camera Settings	Main View	mport Camera	17:00:56 CPU 2012-01-12 Network
Alarm Event	🌡 💩 🏟 9016_Ca	mera01 Failed to get patrol. Erro	or code 23.(Not supported		
me 🗸 Descrip	tion				
12-01-12 15:38 9016_C	amera01 Failed to get pa	drof. Error code 23 (Not support	ed)		
/12-01-12 14:48 test Log	in failed. Error code 7.(C)	onnection failed: device off-line of	or connection timeout.)		
12-01-12 13:32 test Log	in failed. Error code 7.(Cr	snnection failed: device off-line of	or connection timeout.)		
Motion Detection Vi					

As shown in the figure above, in the alarm log display panel, there are 4 different alarm types: "Motion", "Video Abnormal", "Alarm Input" and "Device Abnormal".

Check the checkbox to show the alarm of the type.

🔽 Motion Detection 🔽 Video Exception 🔽 Alarm Input 🔽 Device Exceptional

You can select a log and right click it to remove it from the list by right clicking the mouse and then click.

Alarm E	🚾 👃 🧕 🧄 Network anomalies, factory zone_Camera01 fails to obtain capability set Error code: 0	¥ 🗆
Time	Description	
2012-01-18 16:30:	Citear , factoryzone_Camers01 fails to obtain capability set Error code: 0	
Motion Detectio	n 🗹 Wideo Exception 🗹 Alarm Input 🔽 Device Exceptional	

### 3.4.2 Alarm Log Linkage

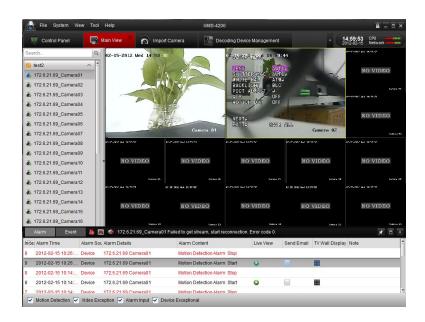
Each alarm log shows the related alarm information, including occurred time, source and type of the alarm.

You can click the  $\bigcirc$ ,  $\boxtimes$  or  $\blacksquare$  button to preview, send email or shown in TV wall of the selected alarm information and video.

- Live View: View the live video of the selected alarm source camera.
- Send Email: Send the alarm information by Email.

*Note:* You need to configure Email settings in Control Panel  $\rightarrow$  System Configuration  $\rightarrow$  Email before using this function.

**Show it in TV Wall:** Enable the video from the alarm source camera is decoded and displayed on TV wall.



### 3.4.3 Block the Alarm from Certain Device

#### Purpose:

Sometimes, the blocking of the alarm information from certain device is needed. This is especially useful when you use more than one client to manage many devices.

#### Steps:

File System Vie	ew Tool Help	IVMS-4200		<b>—</b>
Control Panel	<ul> <li>Import Camera</li> <li>Camera Settings</li> </ul>	Camera Settings	Device Management	- 14:12:14 CPU
Alarm Event	Account Management Ala - Device Management	7. (Connection failed: device off Alarm Content	line or connection timeout.) Live View Send Em: TV Wall D	Di Note
	<ul> <li>Stream Media Server Management</li> <li>Decoding Device Management</li> <li>TV wall management</li> </ul>			
	Broadcast     Device Arming Control			
	5 <u></u>	-		

2. Click Control to enter the alarm enable or disable interface.

		Device Arming Control		×
Encoding Device	NVR	Decoding Device		
All			Arming Status	
✓ test				
8464				
9116			<u>A</u>	
✓ 6401				
				- 1
				- 1
				- 1
			Yes Cancel	

- 3. Check the checkbox to enable the alarm or uncheck it to block the alarm information. There are tabs to list different kind of connected devices.
- 4. Click Yes to confirm your settings.

*Note:* This function only blocks the selected alarm information from being received by this client only; the alarm information can also be received by other clients. And when you block the alarm information from certain devices, all the alarm information is not shown in the client and all the linkage methods in the client such as the audible warning, pop-up image, and email sending are not taken as well.

## 3.5 Local Recording and Capture

iVMS-4200 software provides the local recording and remote recording.

**Local recording** refers that you record the video from the remote device in the local PC runs the iVMS-4200 software. Local recording for the iVMS-4200 can only be manual recording, and the schedule recording is not valid.

The **remote recording** refers to the remote control the device in the management list to record on the HDD of the device side.

### 3.5.1 Recording and Picture Capturing on the host PC for the iVMS-4200

Local Recording (also called Manual Recording) function allows you to record the live video in the Main View mode. And the record file is recorded in your PC.

Steps:

- 1. In the main view interface, select a channel in the group and double click it to view the live video.
- 2. Then click *button* at the bottom <u>of main view panel</u> to start to record the live video.
- 3. To stop recording, please re-click we button. A prompt box with the saving path of the video files you just recorded will pop up if all the operations succeed, as shown in the Figure below.

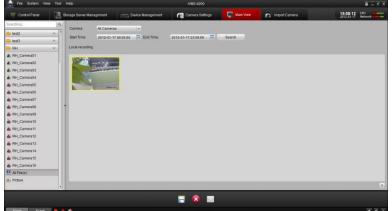


To change the saving path of the record files and captured pictures, go to the files configuration interface; see 8.2 *File Saving Path Configuration* for detailed information.

	System Contiguration	×
General	Configure the saving path for record files, captured images, (e.g. record files, pictures and device configuation files, etc.).	
Las	Saving Path of Video File: C/lvms4200Mdeo/ •• Saving Path of Pictures: C/lvms4200Icapture/ •• Saving Path of Configuration File: C/lvms4200/config/ ••	
	Default	Save

Quick View the Manual Recording File:

You can open the folders to find the record file, or you can click All Files icon to show the record files in the iVMS-4200.



You can double-click the record file to play it. For detailed information, see 3.6.1 Playback of Local Stored Files.



To manual capture in the live view, see 3.3.2 Capture in Live View.

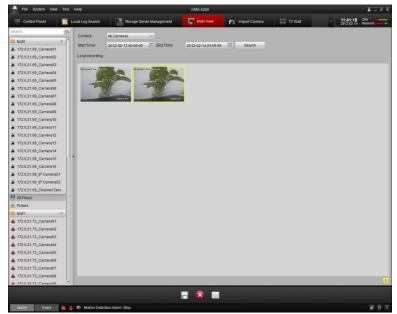
## **3.6 Local Playback**

Based on the different recording modes, there are two playback modes: Local playback and Remote Playback.

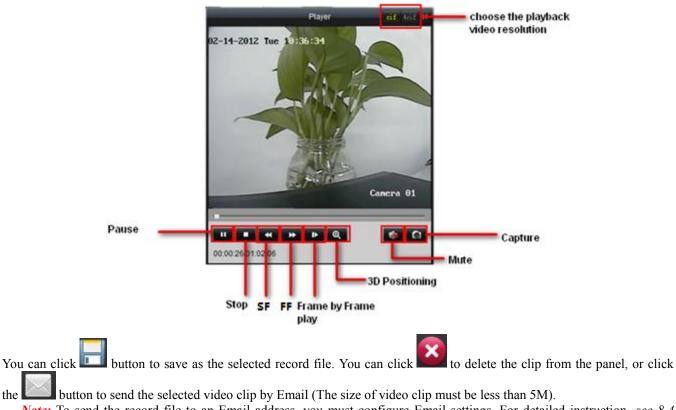
### 3.6.1 Playback of Local Stored Files

Play back the video files created in local recording mode which is restored in your PC. *Steps:* 

1. Go to Main View panel and click the **All Files** icon to enter the Local Record Files interface. Select a camera and specify the start time and the stop time, and then click **Search** button to search the video clips. The matched video found will be listed in the display panel below.



2. Double click the record file to play it back.



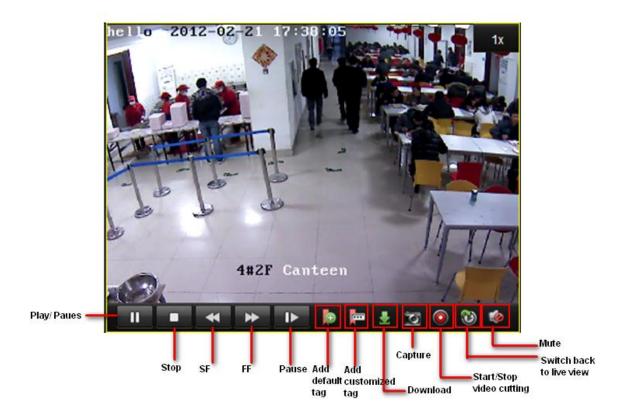
*Note:* To send the record file to an Email address, you must configure Email settings. For detailed instruction, *see 8.4 Email Configuration*.

## **3.6.2 Instant Playback**



1. Go to Main View panel, double-click a channel to enable the tool bar shown as below, and click button to start instant playback.

2. In instant playback interface, please click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click button to start playback the first video files of current day; click butt



- 3. The table below is a list of other buttons in this interface for video management.
- 4. You may also use the timeline at the bottom of the Main View panel to adjust the playback progress. Also **buttoms** and **buttoms** are used to expand and narrow down the time bar so you can choose a more accurate time for playback.

	4.0		03:35:53	111111111111111111111111111111111111111	2011-03-1	0 08:37:39			
Mar	10 🗔			1111					> ↔ 😽
Thu	2011				8				

## 3.7 E-map Management

Relating certain camera group to an E-map allows you to visualize the location and distribution of cameras. The E-map is beneficial especially when alarm is triggered.

### 3.7.1 Adding a E-map

For the first time to use E-map function, you are required to add a map first.

Click View->E-map View on the menu bar or click and the Control Panel to enter the main interface of E-map. Refer to

the following figure:

*Note:* Only one map can be added for each camera group.

#### Steps:

1. Click Add map to add a map related to the camera group.

File System Vie		Torp			MS-4200					<b>≜</b> = ■ >
Control Panel	號 E-	map 🔀							17:54:30 2012-02-08	CPU Network
Search	Q									
test2	~	Mdd m	ap							
i test1	~									
			:		:					
Map Preview Edit Ma	ар			2 /	۲	18 I	a 🕰	ARA .	Search h	iot sp Q
						-				

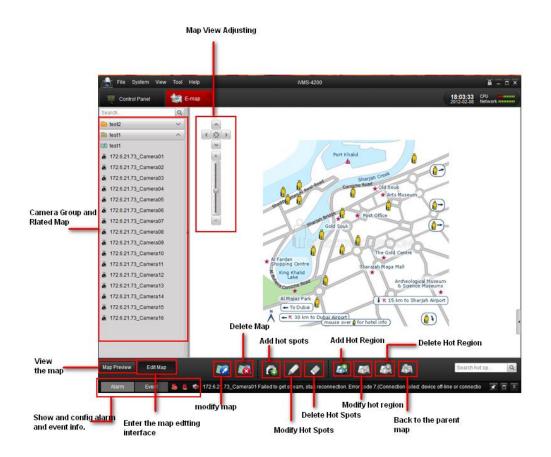
2. Click to browse the directory where the map is stored. *Note:* The picture format of the map should be \*png, \*jpg or \*bmp.

_	E-map Info.	×
Map Name:		
Path:		
	Yes	Cancel
	res	Caller

3. Enter a name of the map.

4. Click Yes to confirm your selection.

After adding map successfully, it shows on the window and name of map also appears on the list of group.



### 3.7.2 The Hot Spot Function

You can add the camera label in the map to show the location of the camera. The label is called hot spot. And with the hot spots added the cameras are linked to the map, in the map preview interface, you can see the live view of the camera and if

there is an alarm triggered, icon **e** appears near the camera label.

Adding a hot spot:

Steps:

1) Click and select which camera you want to add on the map as a hot spot, and choose the color of the hot spot.

File System View	Tool H	Help		IVMS-4200					
Control Panel	👰 Ca	amera Settings	🖳 Main View		Camera 5	🚉 E-map		15:40:49 2012-02-12	CPU Network
Search	Q			1	(				
🕼 test2	-	^		PO	rt Khalid				
康 172.6.21.69_Camera01		< >		121	1		/ /		
谢 172.6.21.69_Camera02		- I		Add Hot Spot		×		(1-	
# 172.6.21.69_Camera03							10	U	
谢 172.6.21.69_Camera04		17	2.6.21.73_Camera01				uk		1
amera05 (172.6.21.69_Camera05)			2.6.21.73_Camera02				ts Museum	0	
康 172.6.21.69_Camera06		17	2.6.21.73_Camera03				5	100	
康 172.6.21.69_Camera07		17	2.6.21.73_Camera04			- U	-		
康 172.6.21.69_Camera08		17	2.6.21.73_Camera05					N.	
谢 172.6.21.69_Camera09		17	2.6.21.73_Camera06				101	(∩→)	
172.6.21.69_Camera10	•	17	2.6.21.73_Camera07					13	
谢 172.6.21.69_Camera11		L 17	2.6.21.73_Camera08			6	TOMA	st2	
172.6.21.69_Camera12		17	2.6.21.73_Camera09			- Gol	d Centre		
康 172.6.21.69_Camera13		Hotopo	t Color: 📕 Green	~			d Centre		
172.6.21.69_Camera14		Hotspo	Gieen			994	Mall		
172.6.21.69_Camera15					Yes Ca	ancel	1	-	
谢 172.6.21.69_Camera16			· · · · · · · · · · · · · · · · · · ·				Archeolo & Scien		and the
172.6.21.69_IP Camera01			Consiche Rus	0	(XB		a Soer	200	Contraction of the second
172.6.21.69_IP Camera02			Al Majaz Par	'k 🔒		J K 1	5 km to	2 JA	
谢 172.6.21.69_Channel Zero	01	-	🔶 To Duba	a) 🖬 🔪	test			finites cares	Surger and and
iest1	<u>^</u>			to Dubai Ain	ant			and the second second	The summaries
🛤 test1	v			mouse	over 🔒 for h	iotel info )		(an K. H. Inn in Columpton 1.	
Map Preview Edit Map		10	🙉 🙆 /	/ /	<b>i</b> (10)	<i>1</i>	<b>S</b> A	Search h	not sp Q
Alarm Event	5	172.6.21.69_IF	Camera01 Live view fai	led. Error code 24.	The channel is un	navailable.			📌 🗖 🎗

- 2) Check the checkbox of the camera name to select them as the hotspots. You can choose many cameras at the same time.
- 3) You can choose the hot spots label color in this interface.

After being added as a hot spot, the camera icon in the camera list change to 🕼.

	map
۲	172.6.21.69_Camera01
۲	172.6.21.69_Camera02
۲	172.6.21.69_Camera03
۲	172.6.21.69_Camera04
	172.6.21.69_Camera05
۲	172.6.21.69_Camera06
۲	172.6.21.69_Camera07
۲	172.6.21.69_Camera08

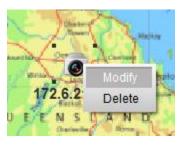
¥

4) Drag the camera icon to certain location on the map.

#### Editing the hot spots:

Double click the hot spots icon on the map you can modify the hot spot name and the color of it. Or

Right click the hot spot and choose Modify.



Or

Select a hot spot on the screen and click the *fill icon* on the toolbar.



#### **Deleting the hot spot:**

Right click on the hot spot and choose delete. Or

Select a hot spot on the map and click on the toolbar to delete the hot spot you



#### Previewing the map with the hot spot:

After all the settings are done for the hot spots, click Map Preview on the toolbar to see the E-map. The hot spots are distributed on the map to show the location of the linked cameras.



Double click the hot spot, the live view of the camera is shown in the interface.



If an alarm is reported from certain cameras, the **second** icon shows in the map to alert you.



For the detailed alarm information, double click the alarm icon.



You can click the licon to clear all the alarm information.

 Map Preview
 Edit Map
 Search hot sp...
 Q

# **3.7.3** The Hot Region Function

The hot region function links a map to another map. When you add a map to another map as a hot region, an icon of the link to the added map is shown on the map. And the added map is called child map while the map to which you add the hot region is the parent map.

*Note:* A map can only be added as the hot region for one time.

Steps:

1.	Click 6	in the to	olbar.								
	Map Preview	Edit Map	10	6	ø	٠		<b>19</b>	<b>A</b>	Search hot sp	Q

2. In the message box, select the map you want to add as a hot region. And you can also select the color of the map icon.

	Add	Hot Region	د
All			
💌 map			
🗹 test			
Hot Region Color:	Black	~	

3. Drag the map icon on the map to certain location.



- 4. You can double click the map icon to modify the map name and the icon color.
- 5. You can click an on the toolbar to modify it.

Or you can right click the icon and choose Delete to modify it.

	Modify	Hot Region	×
Hot Region Name:	map		
💌 map			
Hot Region Color:	Black	~	
		Yes	Cancel

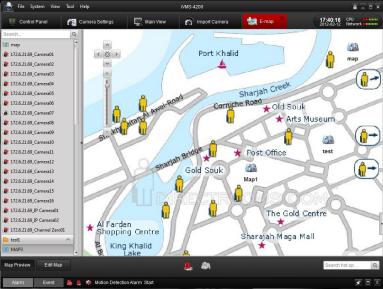
#### To delete the hot region:

Select the hot region icon on the map and click the **select** to delete the hot region. Or

Right click the hot region icon and choose Delete.

#### Map Previewing with the Hot Region:

After the successful adding and setting of the hot region, go back to the map preview interface.



Click the hot region icon now can take you to the child map.



Click the **back** to go back to the parent map.

# Chapter 4. Remote Control and Management for DVR, NVR and

# **Network Cameras**

Remote control and management means that you operate the iVMS-4200 software to control the devices, such as control the device to record, to capture, to change parameters and reboot. And you can also get the record files stored in the HDD of the device.

# **4.1 Remote Recording**

When the video storage devices are HDDs, NetHDDs or SD/SDHC cards installed in the DVR, NVR or IP cameras, or when you have a storage server connected you can configure the recording of via the iVMS-4200.

#### 4.1.1 Recording on the Storage Device on the DVR, NVR or Network Camera

#### Before you start:

For the newly installed storage devices, you need to initialize them.

*Note:* This is not a mandatory procedure. If the storage devices are already in use, and some record files are recorded on it, the initialization operation should be considered carefully. If the initialization is not needed, start your setting with step 4. *Steps:* 

- 1. Format the HDD or SD/SDHC card: After adding the devices into iVMS-4200, enter the Remote Configuration interface of the selected device.
- 2. Click HDD sub-menu to format the storage devices first, shown in the figure below.

📕 General	HDD settings	5						
🧕 Network	Network Disk	Configuration	HDD Group	Settings	Quota	Array Cont	iguration	Modify
🔎 Alarm	HDD No.	Capacity(MB)	Free Space (MB)	Status	Туре	Group No.	Property	
👤 User	✓ 3	76319	27648	Normal	Local	Group01	Read/Write	9
AND +								
A Exception								
File								
📴 Log								
殆 Holiday								
🔆 Others								
Channel Zero								
Channel Zero								Format
Ochannel Zero	Process:							Format

3. Click Format to format the HDD installed in the device. And the process bar shows the formatting process of the HDD.

_	Device Parameters
Information	HDD Settings.
General	ou seungs.
Camera	Network Disk Configuration HDD Group Settings Quota Modify
Network	Free Space(MB) Status Type Group No. Property
🖲 Alarm	✓ 1 102400 101376 Normal Logical Disk Group01 Read/Write
👤 User	
HDD •	
Exception	
File	
2 Log	
Holiday	
Cthers	
	Formatting HDD 1
Resource User	Formaleing House
	Process:
Reboot Resto	re Factory Settings Import Device Config Export Device Config Save

4. Enable Local Recording: Go to **Camera Settings > Schedule** and tick the checkbox of the Local Recording. *Note*: In this interface, the *Local Recording* refers to the recording on the HDD of the DVR or IP Camera.

/ File	System	View	Tool Help			IVMS-4200			<b>a</b> = <i>e</i> ×
Contr	ol Panel		🔚 Storage S	erver Management	Device Management	👰 Camera Settings 🕺	😨 Main View	M Import Camera	17-25:35 CPU 2012-01-16 Network
Camera: 2012-01-	RH_Car				Set recording schedule of the came	ra.			
	1	X	C.		Record Local Recording Record Schedule:	Template 01			
	4	. 4			Advanced Settings	Template 01			
	-		<u>,                                    </u>	anna 81	This camera has not been added to the Capture Settings	NVR. Storage Server	_		
	-		(111)	<u>e</u>	Capture Schedule: Advanced Settings	Template 01	1		
Picture Settings	W	deo iaithy	Schedule	Video Display					
- 23	2		-		Copy to	Save			
Motion Detection	Tam A	pering arm	Video Loss	PTZ Control					
Network Connectio	n								
Devi	ce Setting	IS			Networ	k anomalies, RH_Camera16 fails	to obtain capability set i	Fror code: 7	
Alarm	Eve	nt	퉐 🚨 🏟 Ni	etwork anomalies, P	H_Camera16 fails to obtain capability s	ell Error code: 7	a company serve		<b>X</b> D X

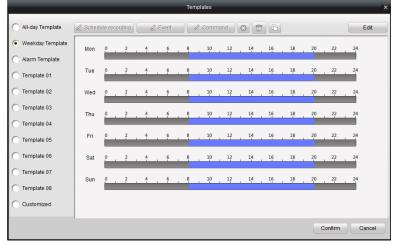
5. Recording Schedule Configuration: click icon and configure the schedule template shown below:

							ler	nplates	3										
All-day Template	🖉 Sched	ule recor	ding	ł	∠ Ev	ent		0 Co	nma	nd		Û						E	Edit
Weekday Template	Mon	0	2	4		6	8	1		12	1	۱.	16	18	20	, 2	2	24	
Alarm Template     Template 01	Tue	0	2	4		6	8	1	, i	12	1	۰.	16	18	20	, 2	2	24	
Template 02	Wed	0	2	4		6	8	1	,	12	1	۱. ۱	16	18	20	, 2	2	24	
Template 03	Thu	0	2	4		6	8	1		12	1	1	16	18	20	, 2	2	24	
Template 05	Fri	0	2	4		6	8	1	)	12	1	۰ .	16	18	20	2	2	24	
Template 06	Sat	<u>е</u>	2	4		6	8	1		12	1	ŧ .	16	18	20	2	2	24	
Template 07	Sun	0	2	4		6	8	1	)	12	1	1	16	18	20	, 2	2	24	
Customized																			
																Confi	rm	Ca	ancel

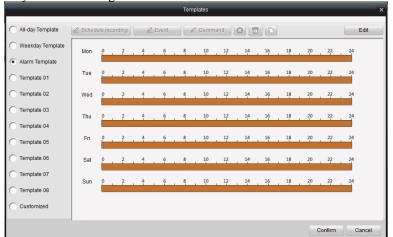
All-day Template for all-day continuous recording

							Те	mplat	tes										
<ul> <li>All-day Template</li> </ul>	2 Sched	uie rec	ording	l	2 Eve	nt		Ø 0	Comn	and	3	T	C						Edit
🔿 Weekday Template	Mon	0	2	4		6	8		10	12	14		16	1	20		22	2	4
<ul> <li>Alarm Template</li> </ul>																			1
Template 01	Tue		2	4	1	6	8		10	12	14		16	1	20		22	, 2	4
Template 02	Wed	0	2	4		6	8		10	12	14		16	1	20		22	, a	4
Template 03	Thu	0	2	4		6	8		10	12	14		16	1	20		22	. 2	4
Template 04																			
Template 05	Fri		2	4		6	8		10	12	14		16	1	20		22	, a	4
Template 06	Sat	0	2	4		6	8		10	12	14		16	1	20		22	, 2	4
Template 07	Sun	0	2	 4		6	8		10	12	14		16	1	20		22		4
Template 08		È	ĩ	ï	1	ĭ ı	Ĩ		Ţ		Ţ		-7		1		-		Í
Customized																			
	1															Co	nfirm		Cancel





Alarm Template for all-day event recording.



6. Editing the recording schedule template:



Edit

All-day Template	🖉 Sched	lule rec	ording		4	2 Ev	ent		2	Comn	nand		$\otimes$	T							
Weekday Template	Mon	0	2		4		6	8		10	1	2	14		16		18	20	22	24	
Alarm Template																					
Template 01	Tue	0	2		4		6	8		10	1	2	14		16	-	18	20	22	24	
Template 02	Wed	0	2		4		6	8		10	, 1	2	14		16		18	20	22	24	
Template 03	Thu	0	2		4		6	8		10	. 1	2	14		16		18	20	22	24	
Template 04																					
Template 05	Fri	0	2	-	4		6	8		10	1	2	14		16		18	20	22	24	
Template 06	Sat	0	2		4		6	8		10	1	2	14		16		18	20	22	24	
Template 07	Sun	0	2				6			10	,	2	14		16		18	20	22	24	
Template 08	Jun	Ě	ĩ		1	1	ŗ	- ĭ		10	-		1		10	-	10		22		
Customized																					

2) You can edit the template name and time schedule in this interface.

<sup>Schedule recording</sup> means normal scheduled recording. The schedule time bar is blue.

*L* Event means schedule recording for events. The schedule time bar is yellow.

*C* Command means schedule recording triggered by command. The schedule time bar is green.

*Note:* Command recording function is only available when iVMS-4200 added **ATM DVR** while the ATM transactions are taking place.

When the cursor turns to you can edit the schedule.

When the cursor turns to vou can move the schedule you just configured.

When the cursor turns to you can lengthen or shorten the time bar you configured.

7. Click **Confirm** to save the schedule you just set.

The configuration of the capture schedule is the same with that of the record schedule.

Click Advanced Settings in the schedule interface to set the Pre-record time, Post-record time and the storage parameters for the record files.

	Advanced Settings		×
Pre-record: Post-record:	5s 5s	*	
Video Expired Time:	0		day(s)
Redundant Record:	No	~	
Record Audio:	Yes	~	
	Confirm		Cancel

**Pre-record**: Normally used for the event triggered record, when you want to record before the event happens. **Post-record**: After the event finished, the video can also be recorded for a certain time. **Video Expired Time**: The time for keeping the record files in the HDD, once exceeded, the file is deleted.

Video Expired Time: The time for keeping the record files in the HDD, once exceeded, the file is deleted.

## 4.1.2 Recording on the Storage Server (PC NVR)

Using iVMS-4200 software, you can configure the recording schedule for any added channels and store the recorded files in the NVR storage server.

The storage server can be configured for recording the video files. And the storage server application is also in the iVMS-4200 software package.

#### Adding and configuring the storage server

#### Steps:

1. While installing iVMS-4200 software, please select PC NVR Server as well to enable NVR software, as shown in the following figure below.

Note: You can also record on the storage server installed on other PC.

elect Features	allow of
Select the features setup will install.	
Select the features you want to install, and desi	elect the features you want to uninstall.
	Description
	Recording server
Decoder Server	
Encoder Server	
0.00 MB of space required on the E drive 15916.08 MB of space available on the E drive	
allShield	
	<pre></pre>



- 2. Click Storage button in the control panel of iVMS-4200, and then click
- 3. Create a nickname for the storage device and input other information.

The IP address should be the IP address of the PC on which the storage server runs.

Add Sto	orage Device 🗙
Private Domain Mod	le
Nickname:	
Address:	
Port:	8000
User Name:	admin
Password:	•••••
Show online devices	Add Cancel

4. Click PRemote Configuration button and go to HDD sub-menu and select a local HDD in the server for storing recorded files, then click Format button to format the HDD, shown as figure below:

button to add the storage server.

🕀 Add

General	HDD setti	ngs						
Camera	HDD No.	HDD No.	Capacity(MB)	Free Space (MB)	Status	Туре	HDD Group	Property
🕎 Schedule	1	D	80043	75730	Unformatted	Local	Group00	Default Disk
🔰 Network	2	E	72000	71894	Unformatted	Local	Group00	Default Disk
	3	G	102999	100315	Unformatted	Local	Group00	Default Disk
User	4	н	199	167	Unformatted	Local	Group00	Default Disk
💊 HDD 🔸	5	1	114470	108490	Unformatted	Local	Group00	Default Disk
Exception								
File								
2 Log								
								Format
	Process:							

And in this interface you can also configure the network parameters, the user information, the exception handling method and so on.

#### Setting Storage Server Recording Schedule Steps:

1. Add Recording Channels: Click Camera button to enter the interface to choose the camera and add the record file to the storage server.

	Storage Server Parameters
Information	Set camera parameters of the device
General	(e.g. IP camera addition and deletion).
Camera ·	IP camera:
숨 Schedule	C Add
<b>Network</b>	
👤 User	
HDD	
A Exception	
File	
📴 Log	

2. Click • Add and the following message box pops up.

		Add Cam	era		>
Group:	9016		~		
Camera:					
IIA 🗌					1
9016_C	amera01				
9016_C	amera02				
9016_C	amera03				
9016_C	amera04				
9016_C	amera05				
9016_C	amera06				
9016_C	amera07				
9016_C	amera08				-
			Confirm	Cance	el

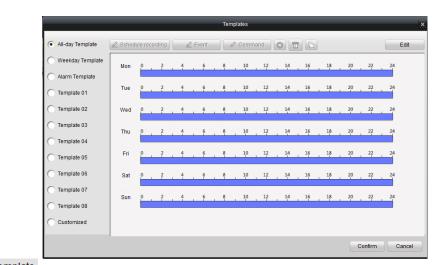
- 3. Check the checkbox to select the cameras for which you want to record on the storage server. And then click Confirm to confirm your selection.
  4. Set Recording Schedule: click Schedule on the left to enter schedule configuration interface.

		Storage Server Parameters	×
Information	Set recording scher	dule of the camera.	
Camera	Camera: Record Schedule:	IP Camera01 ~ Template 01 Copy to	
Network User HDD			
A Exception			
Reboot	ore Factory Settings		Save

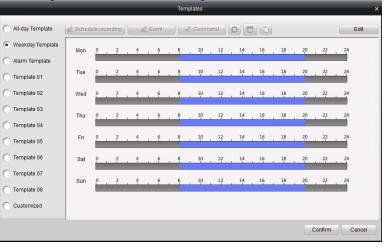
5. Select the camera from the dropdown list, then click icon and configure the schedule template shown as below:

							Ten	nplates										
All-day Template	2 Sched	ule rec	ording		🖉 Eve	nt		🖉 Cor	nmar	nd		Û						Edit
O Weekday Template	Mon	0	2	4		6	8	. 10		12	14		16	18	20	22	24	
O Alarm Template																		
Template 01	Tue	0	2	. 4		6	8	10		12	14		16	18	20	22	24	
Template 02	Wed	0	2	4		6	8	10		12	14		16	18	20	22	24	
C Template 03	Thu	0	2	4		6	8	10		12	14		16	18	20	22	24	
C Template 04																		
Template 05	Fri	0	2	4		6	8	10		12	14		16	18	20	22	24	
Template 06	Sat	0	2	. 4		6	8	10		12	14		16	18	20	22	24	
Template 07	Sun	0	2	. 4		6	8	10		12	14		16	18	20	22	24	
C Template 08																		
Customized																		
	1															Confirm	n	Cancel

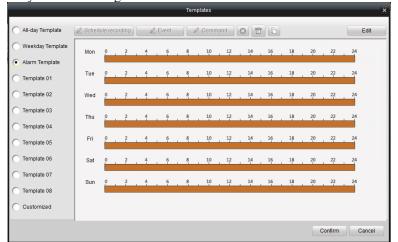
All-day Template for all-day continuous recording



Weekday Template for working-hours continuous recording from 8:00 AM to 8:00 PM;



Alarm Template for all-day event recording.



Editing the recording schedule template:

Click

All-day Template	2 Sched	lule rec	ording		Event		🖉 Comn	hand	8					
Weekday Template	Mon	0	2	4	6	8	10	12	14	16	18	20	22	24
Alarm Template														
Template 01	Tue	0	2	4	6	8	10	12	14	16	18	20	22	24
Template 02	Wed	0	2	4	6	8	10	12	14	16	18	20	22	24
Template 03	Thu	0	2	4	6	8	10	12	14	16	18	20	22	24
Template 04														
Template 05	Fri	0	2	4	6	8	10	12	14	16	18	20	22	24
Template 06	Sat	0	2	4	6	8	10	12	14	16	18	20	22	24
Template 07	Sun	0	2	4	6	8	10	12	14	16	18	20	22	24
Template 08					1 1		1 1							

You can edit the template name and time schedule in this interface.

Schedule recording means normal scheduled recording. The schedule time bar is blue.

2 Event means schedule recording for events. The schedule time bar is yellow.

Command means schedule recording triggered by command. The schedule time bar is green.

When the cursor turns to you can edit the schedule.

When the cursor turns to you can move the schedule you just configured. When the cursor turns to you can lengthen or shorten the time bar you configured.

Confirm Click to save the schedule you just set.

The configuration of the capture schedule is the same with that of the record schedule.

#### Note:

If you want to change recording resolution, bit rate or other recording parameters, please click Image Quality button in the **Camera Settings** panel and modify the main stream quality as needed.

To ensure that event recording works properly, please set motion detection &video tampering area, schedule/alarm schedule first and then enable trigger camera recording. More details in Camera Settings Chapter.

Command recording function is only available when iVMS-4200 added ATM DVR while the ATM transactions are taking place.

# **4.2 Remote Playback**

The remote client can search the record files on the Storage Server and the DVR, and it can also do the smart search for the event triggered record files during playback.



on the control panel to enter the Remote Playback Interface. Click



Keyboard Description:

Icon	Name	Description
	Screen Split	1, 4, 9, 16 screen-mode
	Stop	Stop all the playback video.
	Volume	Adjust volume
X	Full-screen	Full-screen Preview

#### **Record file searching:**

1. Searching for all the files:

Check the checkbox on the camera list, and then on the calendar below, select the day you want to search. Then click Search.

I ₹	ebru	lary	Þ	<b>-</b>	2012	
S	М	Т	W	т	F	S
29	30	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	1	2	3
4	5	6	7	8	9	10
		٩	Sea	arch		

*Note:* If there are record files for that camera in that day. In the calendar, the icon for that day is displayed as <sup>14</sup>. Otherwise it is displayed as <sup>14</sup>.

The timeline indicates the time duration for the record file.

The third the	aces me	time addation for				
	Window01	*			■I	
2. Searching by	card nu	mber:				
This function is or	nly appli	ed to the ATM DV	R, you can search the re	cord files by	the DVR card number.	
			By card number			

Note: You still need to choose the date and camera to search the files.

#### 3. Searching by File Type:

You can select the file type to restrict the searching condition and search for only the record files for certain types.



#### **Playback Management:**

After finding the record files, you can click the timeline on the bottom to display the video in that time period on the screen. 1. Move the mouse to the screen of which camera you'd like to manage. A toolbar is showed at the bottom.



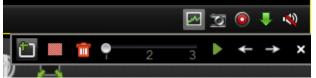
Icon	Description	
11	Pause the video	
	Stop playing	
I>	Playback by single frame	
	Smart Search	
	Clip	
	Audio on/off	
	Play	
** **	Speed Control	
Q	Digital Zoom	
10	Capture in the playback mode.	
<b>.</b>	Download	

*Note:* Click **I**, the video move forward to next frame.

You can enable audio on only one channel at one time.

#### Smart Search Management:

Click on the toolbar, the smart toolbar is showed up.



*Note:* The smart search function should be supported by the remote devices you connected. Now the function is applied to 9000-ST or 9100-ST series or above version DVR.

Click to draw the smart search area and click to start the smart search. Toolbar Description:

Icons	Description	Icons	Description
<u>۲</u>	Draw Area		All Area
<b>1</b>	Delete Area	1 2 3	Sensitivity of Event
	Start Searching	ł	Last Event
<b>→</b>	Next Event	×	Close

If there are eligible record files for smart search, there are red areas on the time line.

						2011-	06-20 12:	00:00					
	< 00:00	02:00	04:00	06:00	08:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	00:00 > ++ ++
		I	1	I	I	I	I	1	1	I	I	I	
and the second second													
window 1													

#### Download Record Files:

Click Uto download the files you selected.



*Note:* The saving path for the downloaded files can be set in the System Configuration interface. See *Chapter 8.2 File Saving Path Configuration*.

#### **Event Playback**

Playback the record files of event type.

1. Go to Event Search interface and select an event type: motion or alarm input.

File Sys	tem View Tool Help		īVM	S-4200		<u>∎</u> _ □ ×
Control P	anel 🍟 Event Sear	ch 🎽 🛞 F	temote Playback	🕎 Main View	Import Camera	19:18:57 CPU
Motion Detec	tion 🔿 Alarm Input	Window01:		0000-00-00 00:00:00	Window02:	0000-00-00 00:00:00
Group:	test					
Camera:	test_Camera01 ~					
Start Time:	2012-02-21 00:00:00					
End Time:	2012-02-21 23:59:59					
	Q. Search					
Search Results						
Time	Туре					
		Window03:		0000-00-00 00:00	Window04:	0000-00-00:00:00:00
-	2012-02-21 12	:00:00	1			
0	12		24		) 🔀 1/8x 1/4x 1/2x	1x 2x 4x 8x 📢
Alarm		annels without re	cord file: test_test_Camer	a01		<b>*</b> • ×

- 3. Select a window, and double-click a video file from the search results list to play.
- 4. During playing back the video, you may right click the mouse in the image to get a drop-down menu as shown in the following figure. Please refer to the table below for more details on this menu. You may also change playback

speed by clicking on the  $\frac{1/8\times1/4\times1/2\times1\times2\times4\times8\times}{1}$  bar.

#### Note:

- 1. Event playback function is only available for NVR/DVR which support event recording.
- 2. Make sure to import all the channels that you wish to play back in Import Camera panel.
- 3. It is also required to enable continuous recording on all the alarm/motion-triggered channels before event playback.

# 4.3 Remote Device Management and Configuration

#### Steps:



- 1. Click Device icon on control panel to enter device management interface.
- 2. Select the device you want to configure, and click Remote Configuration enter the device management interface. You can also enter the device management interface by clicking the Remote

Configuration	button i	n Import Camera	interface.	
C	File System Vi	^	iVMS-4200	
	Control Panel	🔄 Main View 👩 Import C	Camera Device Management	14:35:49 CPU 2012-01-11 Network
	🖸 Add 📝	Modify 📄 🖶 Delete 🤌 Remote	Configuration Show online devices	
	Nickname 🗸 IP	Device Serial No.		
	172.8.5.77 172.8.5	5.77 DS-2CD855F-E0120111213CCR	R405761567	
	172.8.5.76 172.8.5	5.76 DS-2CD864FWD-E01201106250	CRR403907930	
	HDVR187 172.6.2	21.187 DS-9016HF-ST1620111021BBR	R403490082WCVU	
	10.99.104.13 10.99.1	04.13 DS-2CD753F-EI0120111013BBR	R405242625	
	10.99.104.14 10.99.1	04.14 DS-2CD754FWD-EI0120110716	CCRR404151194	
	10.99.104.17 10.99.1	04.17 DS-2CD753F-EI0120111013BBR	R405242627	
	10.99.104.18 10.99.1	04.18 DS-2CD753F-EI0120111013BBR	R405242597	
	Alarm Event	<b>5 8</b> Ø		× • ×

#### **4.3.1 Basic Information**

On the Information page, you can check the basic information of the device, including device type, total channel number, HDD number, physical Alarm I/O number, Device Serial Number, and version information.

	Device Parameters	>
General	Display basic status of the device (e.g. device type, channel number, HDD number, etc.).	
<ul> <li>Camera</li> <li>Network</li> <li>Alarm</li> <li>User</li> <li>HDD</li> <li>Exception</li> </ul>	Device Type:         DS90xHF_ST           Channel Number:         16           HDD Number:         1           Aarm Input Number:         16           Alarm Output Number:         16           Device Serial No::         1           Ds-9016HF-RH16201111265BRR406000053WCVU         1	
<ul> <li>Jie</li> <li>Log</li> <li>Holiday</li> <li>Others</li> <li>Channel Zero</li> <li>Resource User</li> </ul>	NIC Binding:     Sending: 477kbps     Receiving: 3048kbps       Version Information	
Reboot Restore	e Factory Settings Import Configuration File Export Configuration File	Save

# 4.3.2 General Settings

On the general settings page, you can set the basic parameters of the device.

		Device Parameters		×
Information     General	Set basic parameters of the d (e.g. device name, device No.			
Camera Network Network Alarm User HDD CECTON File COG HOIday Holday Cothers Channel Zero Resource User	Device Information Device Normation Device Normation Device Normation Device Normation Main BNG Scaling: Disable Spot BNG Scaling: Disable Synchronous IPC			
Reboot Restor	Factory Settings Import Confi	guration File Export C	Configuration File	Save

#### Table. General Parameter Descriptions

Parameter	Description
Device Name	Define the name of the device, and it will be displayed on the device
	list of the client
Device No.	Device number for remote control
Record Replace	Overwrite HDDs when HDDs are full
Main BNC Scaling	Scale image display on the main BNC output
Spot BNC Scaling	Scale image display on the spot BNC output

## 4.3.3 Camera Management

Information Set camera parameters of the device IJ General (e.g. the enabling and disabling of analog camera, and the addition, char and deletion of IP camera Camera Network 0 0 0 0 0 0 0 0 0 🖲 Alarm Camera 05 Camera 06 Camera 01 Camera 02 Camera 03 Camera 04 Camera 07 Camera 08 Camera 09 👤 User 0 0 0 0 0 0 0 💊 HDD Camera Camera Came 14 15 16 Came 10 Camera Came 11 12 Camera 13 A Exception 📃 File Disable 📴 Log 殆 Holiday Others Channel Zero 🐻 Resource User Add Modify Delete Net Config Password Config Refresh Reboot Restore Factory Settings Import Device Config Export Device Config Save

If the managed device is a DVR/NVR with multiple cameras connected, you can find the camera management page. You can enable and disable the analog cameras and add, change, and delete the IP cameras in this interface.

# 4.3.4 Network Settings

On the network settings page, you can configure network parameters of the device. Two tabs are available for general and advanced settings.

	Device Pa	rameters
Information		
General	Set network parameters of the device (e.g. IP address, port, etc.).	
General	(e.g. ii uuuress, port, etc.).	
Camera	Network Settings	
🔰 Network 💦 🔸	General Advanced Settings	
Alarm	Working Mode: Net Fault-tolerance	e ~
	NIC Type: 10M/100M/1000M	Self-ac -
User	Device IP Address: 172.6.21.79	
HDD	Auto-obtain	
Exception	Subnet Mask: 255.255.255.0	
	Gateway: 172.6.21.1	
File	MAC Address: 00:40:48:72:cc:85	
Log	MTU(Byte): 1500	
Holiday	Device Port 8000	
	Multicast Address: 0.0.0.0	
✓ Others	HTTP Port 80	
Channel Zero	Main NIC: NIC 1	~
Resource User	RTSP Port: 554	
Resource User		
Reboot Resto	re Factory Settings Import Configuration File	Export Configuration File Save

Table. General Network Settings Descriptions

Parameter	Description
Working Mode	Set working mode as Net Fault-tolerance, Load Balance or Dual-NIC

	Settings for DVRs/NVRs (Only available for the devices with dual- NIC interface)
NIC Type	NIC types of the device
Device IP Address	IP address of the device
Subnet Mask	Sub net mask IP for the device
Gateway	Default gateway IP for the device
MAC Address	Mac address of the device; this is a read-only field
MTU(Byte)	The maximum transport unit; the default value is 1500
Device Port	Network port of the device, the default port number is 8000
Multicast Address	Multicast address of the device. Please leave this field empty if multicast is not required
HTTP Port	Web servicer port; the default port number is 80
Main NIC	Set the main NIC for DVRs/NVRs.(Only applicable for the devices with dual-NIC interface)
RTSP Port	Real time streaming protocol port; the default port is 554

Information	Set network parameters of the device	
🕌 General	(e.g. IP address, port, etc.).	
Camera	Network Settings	
Network	General Advanced Settings	
🖲 Alarm	NTP: Set	
👤 User	Email: Set	
😽 HDD	PPPOE: Set	
A Exception	DDNS: Set	
File	Advanced Settings: Set	
E Log	SNMP: Set	
殆 Holiday		
🔶 Others		
Channel Zero		
🐻 Resource User		
Reboot	ore Factory Settings Import Configuration File Export Configuration File Sa	ave

Table. Advanced Network Settings Descriptions

Parameter	Description
NTP	Set server, port, interval and time for NTP time synchronization.
Email	Email account settings for the device
PPPOE	Set DDNS address, username and password for PPPOE
DDNS	Set protocol type, server, port, account and domain for DDNS
Advanced Settings	Configure DNS server addresses, alarm host IPs and ports.
Wifi	Configure wireless networking related parameters
SNMP	Set SNMP version, read/write community and trap address.

*Note:* You can click each **Set** button to for advanced settings.

# 4.3.5 Alarm Settings

On the alarm parameter page, you can configure alarm I/O and linkage actions for the device.

Information       Set alarm input and output parameters of the device (e.g. alarm input name and linkage mode, arming schedule of alarm input & output, etc.).         Image:			Device Parameters
Network Aarm   ▲ Aarm   Aarm   Local   ↓ User   IP Address:   Local   ▲ HDD   Aarm Name:   ▲ Ercepton   ♥ Handling:   Arming Schedule:   Template 01   ▲ Band Output Settings   Arming Schedule allows 8 time frames in each day:   Linkage   Set   Handling:   Arming Schedule allows 8 time frames in each day:   Linkage   Set   Handling:   Arming Schedule allows 8 time frames in each day:   Linkage   Set   Handling:   Arming Schedule allows 8 time frames in each day:   Linkage   Set   Handling:   Arming Schedule:   Linkage   Set   Handling:   Arming Schedule:   Linkage   Set   Handle alarm: trigger recording, PTZ linkage.   Arming Schedule:   Local   Output Delay:   Set   Arming Schedule:   Template 01	Information	Set alarm input and or	utput parameters of the device
Alarm       Alarm Input Settings         Alarm       Nam Input       Analog input01         User       IP Address:       Local         HDD       Alarm Name:       Image: Ima	IJ General	(e.g. alarm input name	e and linkage mode, arming schedule of alarm input & output, etc.).
▲ Aam       Aam input       Analog input01         ↓ User       IP Address:       Local         ↔ HDD       Alarn Name:	<b>Network</b>	Alorm Input Cottingo	
User       IP Address:       Local	📕 Alarm 🔸		Analoo input01
Alarm Status:   Normal Open   Flie   Aming Schedule:   Template 01   Aming schedule allows 8 time frames in each day.   Others   Alarm Output Settings:   Alarm Output 1   Analog Output01   IP Address:   Output Delay:   Ss   Arming Schedule:   Template 01	L User		
▲ Ecception <ul> <li>File</li> <li>Arming Schedule:</li> <li>Template 01</li> <li>Arming schedule allows 8 time frames in each day.</li> </ul> <ul> <li>Others</li> <li>Linkage</li> <li>Set</li> <li>Handle alarm: trigger recording, PTZ linkage.</li> </ul> Alarm Output       Analog Output01         IP Address:       Local         Output Delay:       5s         Arming Schedule:       Template 01	HDD	Alarm Name:	
File       Arming Schedule:       Template 01         Log       Arming schedule allows 8 time frames in each day.         Others       Linkage       Set         Alarm Output       Analog Output01         IP Address:       Local         Output Delay:       5s         Arming Schedule:       Template 01	Exception	Alarm Status:	Normal Open 🗸
Image: Set	File		Tomplate 04
Others     Linkage     Set     Handle alarm: trigger recording, PTZ linkage.       Alarm Output Settings     Alarm Output 1     Image: Content of the set of t	Log	Anning Schedule.	
Alarm Output Settings       Alarm Output:     Analog Output01       IP Address:     Local       Output Delay:     5s       Arming Schedule:     Template 01		Linkage	Set Handle alarm: trigger recording, PTZ linkage.
IP Address: Local Output Delay: 5s v Arming Schedule: Template 01		Alarm Output Settings	
Output Delay:     5s       Arming Schedule:     Template 01		Alarm Output:	Analog Output01 🗸
Arming Schedule: Template 01		IP Address:	Local
		Output Delay:	55 🗸
Arming schedule allows 9 time frames in each day		Arming Schedule:	Template 01
Anning scredule anows o time names in each day.			Arming schedule allows 8 time frames in each day.

Parameter	Description
Alarm Input	Select an alarm input channel for configuration
IP Address	IP address of the digital alarm input. "Local" stands for the hard-
II Address	wired alarm input interface on the device. This is a read-only field.
Alarm Name	Define a name for the alarm input channel
Alarm Status	"Normal Open" stands for normally open status and "Normal Closed"
	stands for normally closed status.
Handling	Check the checkbox to activate alarm linked action settings
	Set the time schedule to handle the alarm triggered actions. The
Arming Schedule	schedule template can be configured in Schedule settings page of
	Camera Settings.
	Check the alarm actions which are required to be activated when the
Linkage	alarm input triggered, and select corresponding channel number if
	required.

# Table. Alarm Output Parameter Descriptions

Parameter	Description
Alarm Output	Select an alarm output channel for configuration
IP Address	IP address of the digital alarm output. "Local" stands for the hard-
	wired alarm input interface on the device. This is a read-only field.
Output Delay	Select the delay duration for the alarm output
Arming Schedule	Set the time schedule to handle the alarm output. The schedule
i initing Senedate	template can be configured in Schedule settings page of Camera

	Settings. (Please refer to Section 5.4.3 for details)					
	Check the alarm actions which are required to be activated when					
Linkage	the alarm input triggered, and select corresponding channel					
	number if required.					

# 4.3.6 User Management

#### Purpose:

You can also add or delete users for the connected device.

In the user management page, you can create/delete user accounts and configure permissions for each user account.

			Device Paramete	ers	د ا
Information	Delete, add o Configure use				
	Configure use	a damonteo.			
Camera	🔂 Add	🖉 Modify	Delete		
2 Network	Name	Priority	IP Address	MAC Address	
🖲 Alarm	admin	Administrator	0.0.0.0	00:00:00:00:00:00	
👤 User 🕠	23	Operator	0.0.0.0	00:00:00:00:00:00	
HDD					
A Exception					
File					
Eg Log					
殆 Holiday					
Cthers					
Channel Zero					
🐻 Resource User					
Reboot	e Factory Settings	Import Configu	ration File Exp	ort Configuration File	Save

# To add a user account: *Steps:*

- 1. Click the Add icon on user management interface.
- 2. Choose user type (Guest/Operator), enter username and password.
- 3. Grant the account privileges to this device.
- 4. Click Confirm to finish.

The created user accounts will be listed in the user list with basic information.

Jser Information			
User Type:	Guest	<ul> <li>User Name:</li> </ul>	
Password:	Guest Operator	Confirm:	
P Address:	0.0.0.0	MAC Address:	00:00:00:00:00
User Privilege			
All		<b>A</b>	
Local PTZ Co	ntrol	1	
Start Recordin	ng Locally		
Local Playbac	ĸ		
Local Configu	ration		
🔽 Local Log Sea	arch		
Local Advance	ed Operation		
Local Parame	ters		
Local Camera	a Management		
Local Operaid	in: Backup Record File(s)		
Cocal Shutdow	wn / Reboot		
Remote PTZ	Control		
Domete Deen		*	

#### 4.3.7 HDD Settings

On the HDD settings page, all the HDD installed on the device are listed with basic information. You can configure network disk, HDD groups ,modify the information or format the disks.

		_	Device Pa	rameters	_			_
Information								
🖺 General	HDD Setting	S.						
Camera	Network Di	sk Configuratio	n HDD Gr	oup Settings	Quota	Modify		
<b>Network</b>	HDD No.	Capacity(MB)	Free Space(MB)	Status	Туре	Group No.	Property	
🖲 Alarm	5	76319	74752	Normal	Local	Group01	Read/Write	
👤 User								
HDD ·								
A Exception								
File								
📴 Log								
殆 Holiday								
🚖 Others								
Channel Zero	t							Format
Resource User								
	Process:							
Reboot Restor	e Factory Settings	Import	Device Config	Export D	evice Config			Save

# 4.3.8 Exception Settings

In exception settings interface, you can select the exception type, and check the linkage actions accordingly under Alarm Triggering Mode section and select the channel number in Alarm Output section. Different linkage actions can be configured for different exception type.

Information	Set exceptional parame	store of the device
📙 General	Set exceptional parame	iters of the device.
Gamera	Exception Type	HDD Full
Network		HDD Full HDD Exception
Alarm	Audible Warning	Network Disconnected IP Address Conflicted
👤 User		Video Standard Mismatch
😪 HDD	A->1	Video Exception  Record   Capture Exception Array Exception
Exception	A->2	The resolution of th encoding resolution
File	A->3	
Log	D1->1	
A Holiday	D1->2	
Conters	D2->1	
Channel Zero	D4->1	
	D5->1	
🥌 Resource User	D5->2	

# 4.3.9 File Management

On the file management page, you can search and view the record files of the device. Select the camera number, file property (all, locked, or unlocked), define the start and end time of the record files, and then click Search. The matched record files will be listed accordingly.

		Devic	e Param	eters	_		×
Information General	Search and view	record files.					
Camera	<ul> <li>All File(s)</li> </ul>	Picture					
Setwork	Camera:	Camera 01	~ Pr	operty:	All 🗸		
🖲 Alarm	Start Time:	2012-01-11 00:00:0	0 🔟 En	id Time:	2012-01-11 23:59:59	O. Search	
👤 User	Index File Na	me	Size	Start Time	End Time	Status Previe	w
A Exception							
File ·							
📴 Log							
🕋 Holiday							
🔶 Others							
Channel Zero							
🐻 Resource User							
	l					Backup	
Reboot	e Factory Settings	Import Device Conf	g	Export Device C	onfig	Sa	/e

If the device supports remote backup function, you can also select files and click Backup to back up all the selected record files.

_		Devic	e Parame	eters	_	_	_	-
Information General	Search and view r	ecord files.						
Camera	<ul> <li>All File(s)</li> </ul>	Picture						
Network	Camera:	Camera 01	~ Pro	operty:	All	~		
🖲 Alarm	Start Time:	2011-11-01 00:00:0	0 📻 En	d Time:	2012	2-01-11 23:59:59 💼	Q. Sear	ch
👤 User	Index File Nar	ne	Size	Start Time		End Time	Status	Preview
	🗹 1 ch01_02	000000000000000000000000000000000000000	463M	2012-01-09 11:1	1:53	2012-01-09 21:17:52	Unlo	0
NDD	2 ch01_02	20000000000000100	431M	2012-01-10 09:2	9:16	2012-01-10 18:53:54	Unio	0
Exception	3 ch01_02	000000000000000000000000000000000000000	29M	2012-01-11 14:2	0:26	2012-01-11 14:58:25	Unio	0
<b>File</b>								
Alliday 🔁								
🔶 Others								
Channel Zero								
Resource User								
								Backup
Reboot Restor	re Factory Settings	Import Device Confi	ig	Export Device Cor	ifig			Save

Captured pictures and record files stored on local devices can also be searched, played back and backed up. Picture types include motion detection, alarm, continuous capture and etc.

#### 4.3.10 Log Management

You can query log files of the connected device in log management interface. Select the search mode, major type and minor type, define the start and end time of the log files, and then click Search. The log will be listed accordingly.

			Device Para	imeters		
Information General	Search and displ	ay log file.				
Camera	Search mode:	By Time	~			
🧕 Network	Major Type:	All		Minor Type:	All	
🖲 Alarm	Start Time:	2012-01-11 00	:00:00 💼	End Time:	2012-01-11 23:59:59	O. Search
👤 User	Index Op	eration time	Major Type	Minor Type	Remote Oper Local (	Operatc Remote HOS
	556 201	12-01-11 15:06:31	Operation	Remote Parame	te admin	172.6.21.83
🔮 HDD	557 201	12-01-11 15:07:18	Operation	Remote Parame	te admin	172.6.23.2
🛕 Exception	558 201	12-01-11 15:07:18	Operation	Remote Parame	ete admin	172.6.23.2
File	559 201	12-01-11 15:07:35	Operation	Remote Parame	te admin	172.6.21.83
	560 201	12-01-11 15:07:35	Operation	Remote Parame	te admin	172.6.21.83
Log ·	561 201	12-01-11 15:08:06	Operation	Remote Logout	admin	172.6.21.83
P Holiday	562 201	12-01-11 15:08:12	Operation	Remote Disarm	ing	0.0.0.0
↓ Others	563 201	12-01-11 15:08:19	Operation	Remote Parame	te admin	172.6.23.2
	564 201	12-01-11 15:08:19	Operation	Remote Parame	te admin	172.6.23.2
Channel Zero	565 201	12-01-11 15:09:20	Operation	Remote Parame	te admin	172.6.23.2
🐻 Resource User	566 201	12-01-11 15:09:20	Operation	Remote Parame	te admin	172.6.23.2
	4					>
	ę					Backup
Reboot Resto	re Factory Settings	Import Device	Confia	Export Device Cor	nfia	Save

If the device supports remote backup function, you can also select logs and click Backup to back up all the selected log files

# 4.3.11 Holiday Settings

			evice Paramet			
Information						
General	Holida	ay Settings.				
Camera	Index	Holiday Name	Status	Start Time	End Time	Edit
Network	1	Holiday1	Closed	January 1	January 1	2
Alarm	2	Holiday2	Closed	January 1	January 1	2
	3	Holiday3	Closed	January 1	January 1	2
User	4	Holiday4	Closed	January 1	January 1	2
😧 HDD	5	Holiday5	Closed	January 1	January 1	2
Exception	6	Holiday6	Closed	January 1	January 1	2
- · ·	7	Holiday7	Closed	January 1	January 1	2
File	8	Holiday8	Closed	January 1	January 1	2
🛃 Log	9	Holiday9	Closed	January 1	January 1	2
🚔 Holiday 🕠	10	Holiday10	Closed	January 1	January 1	2
)	11	Holiday11	Closed	January 1	January 1	2
Cothers	12	Holiday12	Closed	January 1	January 1	2
Channel Zero	13	Holiday13	Closed	January 1	January 1	2
Resource User	14	Holiday14	Closed	January 1	January 1	2
- resource oser	15	Holiday15	Closed	January 1	January 1	2
	16	Holiday16	Closed	January 1	January 1	2
	17	Holiday17	Closed	January 1	January 1	2

In the holiday setting interface, you can check the holiday settings and edit the holiday schedule.

To edit the holiday schedule, click the Edit icon, set the start and end time for the holiday and click Confirm.

	Edit Holiday	×
Enable Holiday		
Holiday Name:	Holiday1	
Mode:	By Month 🗸	
Start Time:	January v 1 v	
End Time:	January v 1	
	Confirm	

# 4.3.12 Other Settings (RS-232 Settings and Remote Upgrade)

In this interface, you can set the RS232 information and remote upgrade the device.

	_	Device Par	ameters	_	_
Information General	Other parameter se	ettings.			
<ul> <li>Camera</li> <li>Network</li> </ul>	RS232 Settings Baud Rate:	115.2K	~		
🖲 Alarm	Data Bit:	8	~		
👤 User	Stop Bit:	1	~		
HDD	Parity:	None	~		
Lxception	Flow Control: Working Mode:	None Control Panel	~		
2 Log	Remote Upgrade				
💾 Holiday	Upgrade File:			Upgrade	
Cthers ·	Process:				
Channel Zero					
Resource User					
Reboot Restor	e Factory Settings	mport Configuration File	Export Configura	tion File	Save

For remote upgrade function, click button to browse and select the upgrade file, and click Upgrade to start upgrading. The upgrade process will be displayed and a reboot is required when it's finished.

# 4.3.13 Channel-zero Settings

Channel-zero is a feature designed for DVRs/NVRs to decrease the required bandwidth when remotely viewing several channels at a time by web browser or remote client software.

*Note:* This function must be supported by the device connected.

		Device Paran	neters	×
<ul> <li>Information</li> <li>General</li> <li>Camera</li> <li>Network</li> <li>Atarm</li> <li>User</li> <li>HDD</li> <li>Exception</li> <li>File</li> <li>Log</li> <li>Holiday</li> <li>Others</li> <li>Channel Zero *</li> <li>Resource User</li> </ul>	Channel-Zero Configur Parameter Settings Enable Channel-Zero: Max Bitrate: Frame Rate: Screen-split Settings Working Mode: Switching Interval(s): Camera Order:			
Reboot Restor	e Factory Settings Im	nport Device Config	Export Device Config	Save

On this page, you can enable/disable channel-zero coding, set the encoding parameters(max bitrate and frame rate), screening-split settings (working mode and switching intervals) and camera order for displaying.

Note: The Max. Bitrate and Frame Rate should be set according to the real network condition.

Camera Order 🗙 🗙
Camera ( v) Camera ( v) Camera ( v)
Camera I - Camera I - Camera I - Camera I -
Camera V Camera V Camera V Camera V
Camera V Camera V Camera V Default Order Prev Page Next Page
Confirm

# 4.3.14 Resource Usage

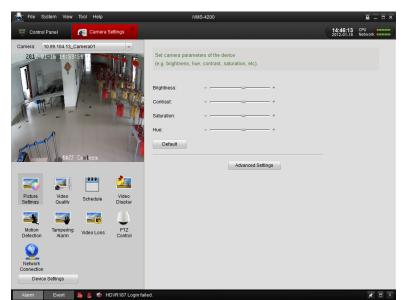
In this interface, you find the network resource usage status, including preview, playback and IPC module.

			Device Parameters		×
	Information General	Network Resource Us	age.		
	Camera Network	Resource Usage Status			
	Alarm User	Preview: Playback:	22.75 Mbps O Mbps		
	HDD	IPC Module:	3.5 Mbps		
	Exception				
2	Log Holiday				
	Others				
	Channel Zero Resource User				
R	eboot Restor	e Factory Settings	nport Device Config Export Dev	vice Config	Save

# 4.4 Camera Settings

# Steps:

1. Click Camera Settings icon on control panel to enter the camera setting interface.



- 2. Select a camera from the dropdown list in the upper left corner of the interface. The live image of the camera will be displayed on the screen below.
- 3. Click the icons in the bottom left area to enter each configuration pages. You can also click Device Settings icon to manage the device. Please refer to section 4.3 for Device Management.

Icons	Description
Picture Settings	Set camera parameters of the device
Video Quality	Set image quality, resolution and other encoding parameters of the camera
Schedule	Set recording schedule of the camera
Video Display	Set camera display parameter. E.g. OSD and privacy area
Motion Detection	Set motion detection parameters of the camera
Tampering Alarm	Set tampering alarm parameters of the camera
Video Loss	Set video loss alarm parameters of the camera. E.g. arming schedule, linkage mode, and etc.
PTZ Control	Set PTZ parameters. E.g. baud rate, protocol and etc.
Network Connection	Set connection parameters of the camera

# 4.4.1 Picture Settings

The quality of the picture can be configured in the picture settings interface, you can adjust the brightness, contrast, saturation and hue of the video image.

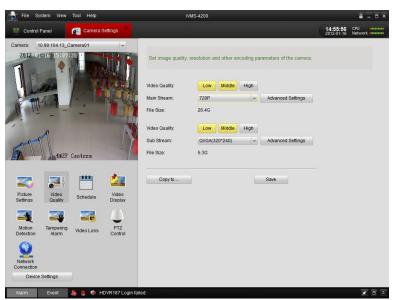
File System View Tool Help	iVMS-4200	<b>≜</b> - □ ×
Control Panel		14:46:13 CPU 2012-01-16 Network
Camera: 10.99.104.13_Camera01 v 2012-01-16 14:59:59	Set camera parameters of the device (e.g. brightness, hue, contrast, saturation, etc).	
	Brightness: +	
	Saturation: +	
ing A	Hue:	
4#2F Canteen		
🔁 🛃 💾 🖄	Advanced Settings	
Picture Video Video Settings Quality Schedule Display		
Motion Tampering Video Loop PTZ		
Detection Alarm Video Loss Control		
Network Connection		
Device Settings		
Alarm Event 👵 🖲 🍲 HDVR187 Log	jin failed.	<b>x</b> = ×

You can enter the advanced setting interface to configure below parameters by clicking the Advanced Settings icon.

Parameter	Description
Video Settings	Configure the brightness, contrast, saturation, hue, sharpness and
<u> </u>	AGC for the video.
White Balance	Configure the white balance mode as Auto white balance 1 or
	Auto control
Exposure	Configure the exposure time and iris type (auto/manual)
Day/Night Switch	Configure the day/night mode and define the filtering time.
Others	Configure parameters including flicker filter, mirror, PTZ and
	local output.

## Table. Picture Advanced Setting Descriptions

# 4.4.2 Video Quality



On this page, you can configure parameters for main stream and sub stream separately. You can set video quality and resolution on the main interface. To configure steam type, bitrate type, max bitrate, frame rate, frame type, frame interval and encoding type, please click Advanced Settings button to enter advanced setting interface.

A	dvanced Settings	×
Stream Type:	Video	~
Bitrate Type:	Variable	~
Max Bitrate:	3072K	~
Frame Rate:	25/30	~
Frame Type:	Ρ	~
I Frame Interval:	25	
Encoding Type:	STD_H264	~
	Confirm	Cancel

Click

Copy to ... icon, you can copy the settings to other cameras within the same group.

Сору	to	×
Copy to:		_
10.99.104.14_Camera01		
10.99.104.17_Camera01		
10.99.104.18_Camera01		
Select All		
	Confirm	Cancel

# 4.4.3 Record Schedule

You can setup recording schedules parameters to enable the automatic recording in certain time duration.

*Note:* Parameters in the Record section are set for the camera you've selected. For Storage Server Recording parameters, you need to add a storage server first. To assign an Storage Server for the recording schedule, please click Storage Server button. For detailed configuration, see

4.1.2 Recording on the Storage Server (PC NVR) .

File System View Tool Help	IVMS-4200	
Control Panel		15:26:23 CPU 2012-01-16 Network
Camera: 10.99.104.13_Camera01 ~		
2012-01-16 15:39:59	Set recording schedule of the camera.	
	Record	
	Record Schedule: All-day Template	
	Advanced Settings	
A N	Storage Server Recording	
142F Conteen	This camera has not been added to the NVR. Storage Server	
Picture Video Usiplay	Copy to Save	
Motion Tampering Video Loss PTZ Detection Alarm Video Loss Control		
Network Connection		
Device Settings		
Alarm Event 👆 🧶 🧇 HDVR187 Login faile	d.	1 0 2

You can follow below steps to setup the record schedule templates.

- 1. Click the template selection button of Record Schedule to enter template configuration interface.
- 2. You can choose pre-designed All-day Template, Weekday Template or Alarm Template, or customize your own record template.
- Choose one of undefined templates or click Customized to activate the edit mode. Click Schedule Recording, Event Recording or Command for different recording types(Table 9.3). Drag the mouse on the time bar to define the record time window for each day.

Template												×							
All-day Template	🖉 Sched	lule recor	ding	🖉 Ev	vent R	Record	ing	l	Cor	nmand				6					
O Weekday Template	Mon	0	2	4		6	8		10	12		14	16	1	в	20	22	2	\$
Alarm Template																			
Template 01	Tue	0	2	4		6	8		10	12		14	16	1	8	20	22	24	\$
Template 02	Wed	0	2	4		6	8		10	12		14	16	, 1	в	20	22	2	\$
Template 03	Thu	0	2	4		6	8		10	12		14	16	1	8	20	22	24	1
Template 04			Ī			i i	Ĩ		Ţ	1 7		1	7			Ţ	1 7		
Template 05	Fri	0	2	4		6	8		10	12		14	16	1	в,	20	22	2	\$
Template 06	Sat	0	2	4		6	8		10	12	_	14	16	. 1	8	20	22	2	1
Template 08	Sun	0	2	4		6	8		10	12		14	16	1	8	20	22	2	\$
Customized																			
	1																		
																Col	nfirm	Ca	ancel

4. Click the colored bar to display the specific time schedule. You can also shorten or extend the time window by amending the length of the bar.

For more details of record schedule, please refer to below table.

 Table. Record Schedule

 Icons
 Description

8	Delete the selected schedule
	Clear all the record schedules of the selected template
ß	Copy the selected schedule section to other day (s)
🖉 Schedule recording	Normal scheduled recording. The schedule time bar is blue.
🖉 Event Recording	Schedule recording for events. The schedule time bar is yellow
Command	Schedule recording triggered by commands. The schedule time bar is green. (Only available for ATM DVR.)

You can also click Copy to ... icon to copy the settings to other cameras within the same group.

### 4.4.4 Video Display

On the video display page, you can define the following parameters for the camera.

File System View Tool Help	iVMS-4200	
Control Panel Camera Settings		16:26:31 CPU 2012-01-16 Network
Camera 292 292 292 292 292 292 292 292 292 29	Set camera display parameters like OSD and privacy area.  Display Name Camera Name: Display Date Display Date Format: Display Weak Dogy to Display Weak Dogy to Display Weak Camera Name: Display Name D	2012/01-16 MeRiora
Device Settings		

Table 9.3 Video Display Parameters

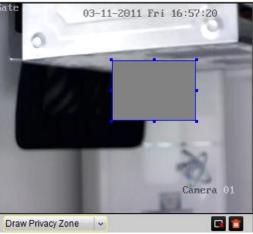
Parameter	Description		
Display Name	The camera name displayed on the live video		
Display Date	Display the date on the live video and choose the date format and		
Display Date	time format		
Display week	Display the week on the live video.		
Enable Privacy Mask	Enable privacy mask function on the live video. You can drag the		
	mouse of the live video to set the mask.		
Text Overlay	Edit user-defined text to be displayed on the live video.		

You can setup privacy masks, configure OSD and define the text locations on the live video. Please follow steps below to

enable the functions.

To draw a privacy mask:

- 1. Check the Enable Privacy Mask checkbox. Select Draw Privacy Mask Area in the dropdown list under the live view area.
- 2. Drag the mouse to draw a square on the live video. You can move it to change the location or change the size by



enlarging or reducing the area.

- 3. You can also click 🔽 🛅 Delete or Delete All icon under the view to delete the privacy mask.
- 4. Click Save to finish.

### To configure the OSD and text:

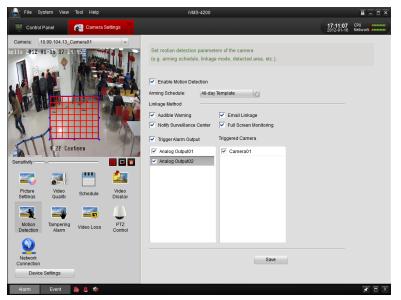
- 1. To define the text overlay, check one of the text checkboxes and enter the content. Click Save. You can see the text shown in the left upper corner of the live view area.
- 2. Select Insert OSD/Camera Name/Text option from the drop-down list and drag the mouse to move the OSD or the defined text window to change the location on the live video.



3. Click Save to finish.

Note: You can configure up to 4 privacy masks.

### 4.4.5 Motion Detection



You can configure motion detection parameters in Motion Detection interface.

### Steps:

- 1. Check Enable Motion Detection checkbox to enable the function.
- 2. Draw the detection area on the video image by dragging the mouse and set the sensitivity on the value bar under the live view.
- 3. You can click the icon to set the whole video area as detection area; click the icon to delete the selected detection area; or click the icon to delete all the motion detection areas.

4. Click the template selection button of Arming Schedule to setup the schedule for motion detection. The steps are similar to record schedule configuration. You can refer to section 5.4.3 for more information.

- 5. Configure linkage methods for motion detection. Please refer to Table 9.4 for linkage method details.
- 6. Click Save button to save the changes.

Parameter	Description			
Audible Warning	Trigger audible warning on the device when motion detection is triggered.			
Notify Surveillance Center	Upload alarm information to the CMS software when motion detection is triggered.			
Trigger Alarm Output	Activate one or multiple channels of alarm output when motion detection is triggered. Users need to specify the corresponding alar output channel (s) in Alarm Output Settings. Please refer to section 9.2.5 for Alarm Settings			

Table 9.4 Linkage Method for Motion Detection

Email Linhaga	Send out an Email when motion detection is triggered. Please refer to	
Email Linkage	section 9.2.4 for emails parameter settings	
Full Screen Monitoring	Switch to full screen to monitor the motion detection video when	
run Screen Monitoring	motion detection is triggered.	

### 4.4.6 Tampering Alarm

#### Purpose:

Tampering Alarm is an alarm triggered when the camera is covered and the monitored area can't be seen. You can configure tempering alarm parameters in this interface.

Camera: 10.99:104.13 Camera01 E Link 2012 01:0 99:00 13 Camera01 E Lin 2012 01:0 99:00 13 Camera01 E Lin 2012 01:0 99:00 13 E Link 2012 01:0 99:00 13 E	File System View Tool Help	iVMS-4200	<b>■</b> = □ ×
hello 2012 urg 10 89300 The camera       Set tampering alarm parameters of the camera         (e.g. amming schedule, Inkage mode, 644cted area, etc.).         Set tampering alarm parameters of the camera         Set tampeting alarm parameters of the camera         Set tampeting alarm parameters of the camera         Video         Set tampeting alarm parameters of the camera         Video         Video <td< th=""><th>Control Panel Camera Settings</th><th></th><th>08:46:58 CPU 2012-01-17 Network</th></td<>	Control Panel Camera Settings		08:46:58 CPU 2012-01-17 Network
Motion Tampering Mode Loss PTZ Control  Motion Connection  Device Settings	he I la 2012-01-12 09:00 Sensitive Picture Picture Picture Picture Motion Detection Motion Detection Picture Motion Detection Picture	(e.g. arming schedule, linkage mode, detected area, etc.).	

#### Steps:

- 1. Check Enable Tampering Alarm checkbox to enable the function.
- 2. Draw the tampering detection area on the video image by dragging the mouse and set the sensitivity on the value bar under the live view.\_\_\_\_\_
- 3. You can click the icon to set the whole video area as detection area and click the icon to delete the selected detection area.
- 4. Click the template selection button of Arming Schedule to setup the schedule for tempering alarm. The steps are similar to record schedule configuration. You can refer to section 5.4.3 for more information.
- 5. Configure linkage methods for tampering alarm. Please refer to Table 9.5 for linkage method details.
- 6. Click Save button to save the changes.
  - Table 9.5 Linkage Method for Tampering Alarm

Parameter	Description
Audible Warning	Trigger audible warning on the device when alarm is triggered.
Notify Surveillance Center	Upload alarm information to the CMS software when alarm is
Notify Bulvemanee Center	triggered.
Trigger Alarm Output	Activate one or multiple channels of alarm output when alarm is
Tingger Alarin Output	triggered. You need to specify the corresponding alarm output

	channel (s) in Alarm Output Settings.		
Email Linkage	Send out an Email when tampering alarm is triggered. Please refer to		
	section 8.4 for emails parameter settings.		
Full Screen Monitoring	Switch to full screen to monitor video when alarm is triggered.		

### 4.4.7 Video Loss Detection

Video Loss detection is used to detect the disconnection of the channels. You can configure video loss alarm parameters of the camera in Video Loss interface.

File System View Tool Help	iVMS-4200	<b>8</b> – ■ ×
Control Panel		09:12:13 CPU 2012-01-17 Network
Camera: 1099:104:12 Camera 1 C 12012:20:17:09:25:55 12012:20:17:09:25 12012:20:17:09:25 12012:20:17:09:25 12012:20:17:09:25 12012:20:17:09:25 12012:20:17:09:25 12012:20:17:09:25 12012:20:17:09:25 12012:20:17:09:25 12012:20:17:09:25 12012:20:17:09:25 12012:20:17:09:25 12012:20:17:09:25 12012:20:17:09:25 12012:20:17:09:25 12012:20:17:09:25 12012:20:17:09:25 12012:20:17:09:25 12012:20:17:09:25 120	Set video loss alarm parameters of the camera (e.g. arming schedule, linkage mode, etc.).	2012.01.17 Network
Network Connection Device Settings	Save	
Alarm Event 👵 💄 🏟		* • *

### Steps:

- 1. Check Enable Video Loss Detection checkbox to enable the function.
- 2. Click the template selection button of Arming Schedule to setup the schedule for video loss detection. The steps are similar to record schedule configuration. You can refer to section 5.4.3 for more information.
- 3. Configure linkage methods for video loss detection. Please refer to Table 9.6 for linkage method details.
- 4. Click Save button to save the changes.

#### Table. Linkage Method for Video Loss Detection

Parameter	Description
Audible Warning	Trigger audible warning on the device when alarm is triggered.
Notify Surveillance Center	Upload alarm information to the CMS software when alarm is
Notify Surveinance Center	triggered.
	Activate one or multiple channels of alarm output when alarm is
Trigger Alarm Output	triggered. Users need to specify the corresponding alarm output
	channel (s) in Alarm Output Settings. Please refer to section 9.2.5
	for Alarm Settings

Email Linkage	Send out an Email when tampering alarm is triggered.
Full Screen Monitoring	Switch to full screen to monitor video when alarm is triggered.

### 4.4.8 PTZ Parameters Settings

On the PTZ parameters configuration page, you can specific the PTZ connection parameters, such as baud rate, data bit, stop bits, parity, flow control, PTZ protocol and PTZ address.

Baud Rate:	9600	~	
Data Bit:	8	~	
Stop Bit:	1	~	
Parity:	None	~	
Flow Control:	None	~	
Protocol Type:	YOULI	~	
PTZ Address:	0		Test
Copy to			Save

*Note:* The PTZ parameters should be consistent with the settings of the PTZ on the DVR or IP camera side to ensure valid PTZ control.

Click Save button to save the changes, you can also click Copy to ... icon to copy the settings to other cameras within the same group.

### 4.4.9 Network Connection

On the Network Connection configuration page, you can specify the protocol, choose the stream type of the camera, and configure stream media server.

Protocol Type:	TCP	~	
Camera Type:	Main Stream	~	
✓ Obtain video stream	n via Stream Media Serve	r	
Stream Media Server:		~	Stream Media Server
Copy to			Save

To configure the steam media server, check Obtain Video Stream via Stream Media Server checkbox .

For the detailed configuration of the stream media server, see chapter 5.1 Adding a Stream Media Server.

Click Save button to save the changes, you can also click	Copy to	icon to copy the settings to other cameras within
the same group.		

# **Chapter 5. Forwarding Video Stream from Stream Media Server**

### 5.1 Adding a Stream Media Server

When there are too many users want to get a remote access to the devices to get the live view or management, you can add the stream media server and get the video data stream from the stream media server, thus lower the load of the device. *Stens:* 

1.	Click to	enter the Stream M				02:53 CPU 10111111
		Add 📝 Modify 💼 🛙	Delete 🖉 Remote Configurat		201	2-01-10 Network
		Nickname V IP stream media 172.6.21.34				
		Alarm Event 😓 😃 🍲				* • *
	Click 🕂 Add					
2.	Click Click	, the dialog box	pops up.			
			Add Strea	m Media Server	×	
						1
			Name:			
		IP:				
		Port	554			
				Add	Cancel	

3. Create a nick Name, enter IP address of the PC on which the stream media server is running, and Port number (the Port 554 is the default RTSP port number), and then click **Add** to save it.

*Note:* When you install the iVMS-4200, you can install the stream media server in your computer too, you can also run the stream media server on the same computer on which you run the iVMS-4200.

### 5.2 Forwarding Video Stream via the Stream Media Server

Click Remote Configuration to configure the stream media server you selected.

• The Port Config tab:

	Stream Media Server Settings	×
Port Config Channel	Config	
RTSP listening port:	554	
Max value of port pool:	13000	
Min value of port pool:	12000	
	Confirm Cancel	

### The RTSP Listening port is 554 by default.

The maximum and minimum value of the port pool is 13000 and 12000 respectively.

In the Channel Config. tab, you can select and choose the device which you want to add to the stream media server and get stream form the media server.

The Channel Config. tab:

s	tream Media Server Settings 🛛 🗙
Port Config Channel C	Config
Group:	test
Camera:	
✓ All ✓ test_Camera01	
✓ test_Camera02	
✓ test_Camera03	
✓ test_Camera04	
	Confirm Cancel
	Conter

- 1. Select the camera group which you want to add to the stream media server.
- 2. Choose the cameras to add by check the checkbox or check the All to add all the cameras in the group to the stream media server.
- 3. Click Confirm to confirm the settings you made.

After the successful configuration, you can get the data stream from the device via the forwarding of the stream media server.

# Chapter 6. Decoding Video Stream and Displaying the Video on

# **TV Wall**

iVMS-4200 client software allows the access of the DS-6000DI, DS-6300DI and DS-6401HDI Series Decoder for decoding and outputting the network video signal from DVR, DVS, network Camera, network speed dome and encoder card as well as display of the video on TV wall.

### 6.1 Adding Decoding Device

To manage and display the video to the TV wall, you have to add the decoder to the client.

1. Click Decoding device setting interface.

File System View Tool H	Help MMS-4200
Control Panel	ecoding Device Management 🔀 🛞 Remote Playback 🐺 TV Wall + 09:59:08 CPU mmmm
🗘 Add 🛛 📝 Modify	To Delete & Remote Configuration Show Online
	formation
decoder 172.6.22.254 V	S21081620111102BBRR405300671CVU
Add .	🚸 Motion Detection Alarm Start 🛛 😿 🗖 🔍
2. Click • Add to add the decod	ing device.
	Add Decoder Device
	Private Domain Mode
	Name:
	Address:
	Port: 8000
	User name:
	Password:
	Show online devices Add Cancel

- 3. Input the information for the decoding device. You can also show the online active devices, click Show online devices
- 4. Click Add to add the device.

To remotely configure the device, click P Remote Configuration

	Decoding Device	e Parameters	×
Status ,	Display basic status of the device, (e.g. device type, channel number, etc.).		
Network	Device Type: DS630X_D Channel Number: 16		
Luser	Alarm Input Number: 8 Alarm Output Number: 8		
2 Others	Device Serial No.: Version Information Version Information Version: V3.1.0 build 110921 Encoding Version: V2.0 build 110909 Panel Version: V0 Hardware Version: 0xd600		
Reboot	Default		Save

# 6.2 Editing TV Wall

After adding the decoding device, click the transmit icon on the control panel.

ᡖ File Sy	stem View Too	ol Help		iVMS-4200			8 - 0
Control i	Panel 👯	TV Wall	TV wall Management	× 📔 Decodi	ng Device Management	10:35:57 2012-02-13	CPU Network
C Add	📝 Modify	📅 Delete	Configuration				
Name	Row	Column					
big screen	4	4					
TV WALL	5	3					
L							
	Event 💧	📕 🏟 Motion (	Detection Alarm Start				* 🗉
Alarm							
Alarm							
			all screen la				

Add TV wall	5
Name:	
Row:	
Column:	
▼ TV wall configuration	
Confirm Cancel	

2. Create the name of the TV wall, and enter the row and column for the TV wall layout.

Ad	ld TV wall	>
Name:	Screen	
Row:	3	
Column:	3	
▼ TV wall configura	ation	
	Confirm	ancel

3. Check the checkbox of **V wall configuration** and click **Confirm**, the TV Wall configuration interface is shown.

	τv	wall information	x
🗎 decoder 🗸 🗸			1
🙍 VGA01			
VGA02			
VGA03			
🙍 VGA04			
BNC01			
BNC02			
BNC03			
BNC04	decoderVGA03 ×	decoderVGA02 ×	1-3 ×
BNC05			
BNC06			
BNC07			
BNC08			
	2-1 ×	2-2 ×	2-3 ×
	4		

4. Click and drag the video output channels of the decoder on the list to the screen to display.

### 6.3 Display Videos on the TV Wall

#### Purpose:

After the configuring the TV wall layout, and connecting of the decoder channel and TV wall window, you can find the setting of the TV wall in this section, such as linking the video channel to the decoding channel and display it on the TV wall/ **Normal Decoding:** 

Steps:

1.

2.

- Click on the control panel to enter the TV Wall interface. Layout big screen V Choose the TV wall you want to configure in the layout dropdown list. VMS-4200 De 15:27:44 CPU TV wall Ma out bia scre test2 a 172.6.21.69\_Camera01 a 172.6.21.69\_Camera02 a 172.6.21.69\_Camera03 a 172.6.21.69\_Camera04 a 172.6.21.69\_Camera05 a 172.6.21.69\_Camera06 a 172.6.21.69\_Camera07 a 172.6.21.69 Camera08 rVGA02 a 172.6.21.69\_Camera09 a 172.6.21.69\_Camera10 a 172.6.21.69\_Camera11 a 172.6.21.69 Camera12 a 172.6.21.69\_Camera13 a 172.6.21.69\_Camera14 a 172.6.21.69\_Camera15 a 172.6.21.69\_Camera16 a 172.6.21.69 IP Camera01 2-1 a 172.6.21.69\_IP Camera02 a 172.6.21.69\_Channel Zero01 📄 test1 172.6.21.90 etest emap ନ୍ 🕒 💿 🔍 🔊 🔍 ମ କ Alarm Event 🤚 🧶 🍲 Motion Detection Alarm Start 🖈 🗖 🌣
- 3. Choose the screen layout of the selected TV wall window.

# 

4. Click and drag the channel on the left bar to the decoding output channel. Then the camera is added to the decoding device and the video is decoded and shown on the TV wall.

Click con to show the live view of the channel on the TV wall.

#### Or

Click **w** to switch to the alarm mode. When alarm mode is chosen the decoding device only decodes the channels when alarm occurs. And only one decoding channel can be configured with the alarm mode.

*Note:* You must click the solution to obtain the bottom toolbar to enable the popping up of the alarm image, otherwise, the alarm decoding is invalid.

#### **Cycle Decoding:**

Cycle decoding refers to the decoding the whole camera group and display them for a certain time interval on the TV wall in sequence.

*Note:* Only the channels in one group can be cycle decoded in one decoding channel. *Steps:* 

1. Click and drag the camera group to the decoding channel.

# 2. Click to start the cycle decoding.

Buttons	Description
G	Live view mode
	Alarm mode
	PTZ Control
	Start decoding
	Stop decoding
<b>O</b>	Start cycle decoding
¢	Pause cycle decoding

### 6.4 PC Decoder

PC decoder is a computer which installs the decoder card. Firstly install the card drivers before using it. Run "Decoder Server" to enter the following interface:



After installing the PC decoder, the computer can be used as a decoding device.

The instruction of using the PC decoder to decode the video is the same with that of other kind of decoding devices.

# **Chapter 7. Log Management**

### **Purpose:**

This chapter explains how to search and backup system logs and open saved local log files in the client.

To enter local log management interface, click "Local Log Search" icon on control panel.

### 7.1 Local Log Search

#### Steps:

- 1. Set "Log Type", "Minor Type', "User Name", "Group", "Camera" and the time window of the log you intend to search.
- 2. Click "Search" button

The matched logs will be listed on the display pane.

	e:	Operation	Log	~	User Name:	All Users		~	Start Time:	2012-01-10 00:00:00		
linor Type:		All	II (~)	<b>\</b>	Group: Camera:	All Groups	All Groups	~	End Time:	2012-01-11 00:00:00		Backup
				All Camer		as	~		Q Search			
Index	Operation t	ime	Content				Name		Server Name	Camera Name	Event	
1	2012-01-10	0 10:13:53	Add Device				uma		172.6.23.82			
2	2012-01-10	0 10:14:04	Add group				uma					
3	2012-01-10	0 10:14:30	Add group				uma					
4	2012-01-10	0 10:14:52	Add Device				uma		172.8.5.75			
5	2012-01-10	0 10:15:08	Add Device				uma		172.8.5.76			
6	2012-01-10	0 10:15:19	Add Device				uma		172.8.5.77			
7	2012-01-10	10:15:33	Add Device				uma		172.6.21.164			

### 7.2 Log Backup

### Steps:

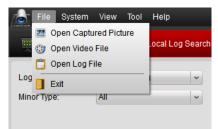
- 1. After searched the logs, click "Backup" button.
- 2. Click button to select the saving path on the "Backup Log" dialog box, and define the file name. Click "Save" and "Backup" buttons.

		Select Log Backup File	×
	Look in: 🛅 C:\P	rogram Files\iVMS-4200\iVMS 4200(v1.0)	
	づ h	Decoder Server  VMS-4200 Client  VMS-4200 PC NVR  VMS-4200 PC NVR  VMS-4200 Stream Media Server	
Backup Log			
File Path:			
Backup Cancel	File <u>n</u> ame:		Save
	Files of type: XML(*.xi	ml)	<ul> <li>✓ Cancel</li> </ul>

### 7.3 Opening Log Files

For the log files that have been backed up to local PC, you can open them in this interface for management purpose. *Steps:* 

1. Navigate to File $\rightarrow$  Open Log File from the menu bar.



- 2. Click button to browse the folders where the log files are located.
- 3. After selecting the log file, click Open to open the log file.

_	Open Log File	×
Look in: 🛅 C:V	Program Files\iVMS-4200\iVMS 4200(v1.0) 🛛 🔍 🔾 🖓 🖓	) 🔃 🗉
₩ Comp h	Decoder Server     IVMS-4200 Client     IVMS-4200 PC NVR     IVMS-4200 Stream Media Server     IVMS-4200 Stream Media Server     I xml	
File <u>n</u> ame: 1.xml		<u>O</u> pen
Files of type: Log Fil	les (*.xml)	<ul> <li>Cancel</li> </ul>

# **Chapter 8. System Configuration**

#### Purpose:

This chapter includes instructions of general configuration, file saving path configuration, alarm sounds and email configurations for the system.

Click "System Configuration" icon on control panel to enter system configuration interface.

### 8.1 General Configuration

On the General configuration page, you can configure the general settings for the local system.

	Sj	stem Configuration		×	
General ·	Set frequently used parameter (e.g. cycle time, log keeping				
🕼 Alarm Sound					
Email	Interval of Screen Switching:	10s 🗸 🗸			
	Log Keeping Time:	One Month 🗸 🗸			
	View Scale:	Full Screen V			
	Instant Playback Time:	30s 🗸 🗸			
	Picture Quality:	Low Middle High			
	Network Performance:	Low Middle High			
	CPU Performance:	Low Middle High			
Enable screen toolbar display					
	<ul> <li>Enable Auto-login</li> </ul>				
	Prioritize the playback of rec	ord files on storage server.			
	Resume Preview				
	Auto Time Adjustment:	00:00:00			
			Default	Save	

Parameter	Description
Interval of Screen Switching	Time interval for the screen switch ; Unit: second. Used in live view.
Log Keeping Time	The expiration time of the system logs.
View Scale	It can be set as Full Screen, 4:3 or 16:9.
Instant Playback Time	It can be set as 30s, 1min, 3min, 5min or 10min
Picture Quality	It can be set as low, middle or high.
Network Performance	It can be set as low, middle, or high.
CPU Performance	It can be set as low, middle, or high.
Enable screen toolbar display	Show toolbar at the bottom of window in preview, playback, etc.
Enable Auto-login:	Automatically login the software without user account validation.
Prioritize the playback of record	Enable record files on storage server priority during playback
files on storage server	operation.

Resume Preview	Enable resume review option
Auto Time Adjustment	Set the time auto adjust time
	03-14-2011 Mon 16:44:59
	Camera 81

0

o 🌢 Q To finish general settings, you can click "Save" button to save the changes or click "Default" to restore the default settings.

🗏 🙉 🔍 🥹 🔌

### 8.2 File Saving Path Configuration

In the File configuration tab, you can set the saving paths to store video files, captured pictures and configuration files.

### Steps:

- 1. Click each without to select the saving paths respectively for .video files, pictures and configuration files.
- Click "Save" button to save the new settings, or click "Default" to restore default settings. 2.

### 8.3 Alarm Sound Configuration

In the Alarm Sound configuration interface, you can configure audio (.wav) files for alarms of motion detections, video exceptions, alarm inputs and device exceptions.

### Steps:

- 1. Click each without to open the file browser, and select an audio (.wav) file for the selected alarm type.
- 2. Click the selected audio file.
- 3. Click "Save" button to save the new settings, or click "Default" to restore default settings.

	System Configuration	×
File General	System Configuration Configure alarm sound for motion detection, video abnormal, (e.g. motion detection alarm, video exception alarm, alarm input and device exception alarm). Motion Detection: motion.wav wideo_abnormal.wav wideo_abnormal.wav alarm_input. alarm_input. alarm_input. Device Exceptional:	×
	device_abnormal.wav ~ ~ +1 Default Sa	ve

### **8.4 Email Configuration**

In the email configuration interface, you can set the SMTP server, and account information for the alarm actions of the client. *Steps:* 

- 1. Enter SMTP server, Port, User Name, Password, Sender's Address and Receiver's Address.
- 2. Click "Send Test Email" to check email configured successfully.
- 3. Click "Save" button to save the new settings, or click "Default" to restore default settings.

		System Configuration		×
File Alarm Sound	Set email parameter SMTP Server: Port: User Name: Password: Sender's Address: Receiver's Address: Receiver's Address:	System Configuration s including sender and recipient. smlp.sample.com 25 testmail@sample.com testmail@sample.com testmail@sample.com		×
	Send Test Email		Default	Save

### Live View

#### Symptom:

Failed to get the live view of certain device

### Possible Reasons:

Unstable network or the network performance is not good enough.

The device is offline.

Too many accesses to the remote device cause the load of the device is too high.

The current use has no permission for live view.

The version of the client software is below the needed version.

#### Troubleshooting:

Check network status and disable other not in use process on your PC.

Check the device network status.

Restart the device or disable other remote access to the device.

Log in with the admin user and try again.

Download the client software of the newest version.

### Recording

#### Symptom:

Normal recording and the remote recording are confused.

### Troubleshooting:

When we say local recording when we use the client software, it refers to the recording on the PC running the client.

And remote recording refers to the recording action commanded by the client on the device side, which stores the record files in the HDD of the device.

### Playback

### Symptom:

Failed to download the playback file or the downloading speed is too slow.

#### Possible Reasons:

Unstable network or the network performance is not good enough.

The NIC type is not compatible.

Too many accesses to the remote device

The current use has no permission for playback.

The version of the client software is below the needed version.

#### Troubleshooting:

Check network status and disable other not in use process on your PC.

Directly connect the PC running the client to the device to check the compatibility of the NIC card.

Restart the device or disable other remote access to the device.

Log in with the admin user and try again.

Download the client software of the newest version.