

M0120
Edition 10.1
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CMS Software

Operation Guide

For Version 10.x

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Introduction

CMS (Centralized Management System) is designed for centralized management of large-scale distributed network surveillance. It adopts advanced H.264 encoding/decoding digital video technologies, combines B/S and C/S framework technologies. The CMS system can adapt various requirements of scale, facilities transportation, banking, large scale commercial establishment, warehouse, Police, fire, emergency, medical, education, large enterprise etc. The CMS system consists of monitoring and configuration functions. It can manage PC-DVR, NetDVR (NVR), IP Camera, IP Speed Dome, Video Server and other peripheral equipments.

ILDVR CMS includes Central Server, Stream Server, CMS E-map and CMS Client. The system architecture and working concept describes as below:

Central Server

1. Register and remote setup video server (video resource device): Equipment must register to central server before it can be used. The video resource capacity is controlled by licensed channel number
2. Register video Stream Server: Central Server organizes video server in groups for Stream Server to transmit their video to CMS Client who requests them.
3. User management and login authentication: Assign user rights such as viewing, playback, PTZ control and priority.

Stream Server

1. Working as a proxy server to transmit video to CMS Client, it saves the network bandwidth and reduces the video server load.
2. Network storage and network backup
3. Local playback
4. IP Matrix and TV-wall output

CMS E-map

1. Working as user login mode. Perform the operation rights that the Central Server assigns to the login user.
2. Receive alarm signal and display linked camera video
3. Output alarm camera to TV-wall
4. Broad cast function

5. Relay out operation
6. PTZ operation.

CMS Client

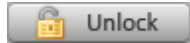
1. Working as user login mode. Perform the operation rights that the Central Server assigns to the login user.
2. Remote viewing assigned cameras and manually record to local HDD
3. Remote playback and local playback
4. PTZ operation.
5. TV-wall output function

Chapter 1 CMS Central Server

1.1 Start Up

Before running ILDVR Central Server program, please make sure that the watchdog is plugged into USB port. If the program cannot detect watchdog, it will run as evaluation version for only 2 hours.

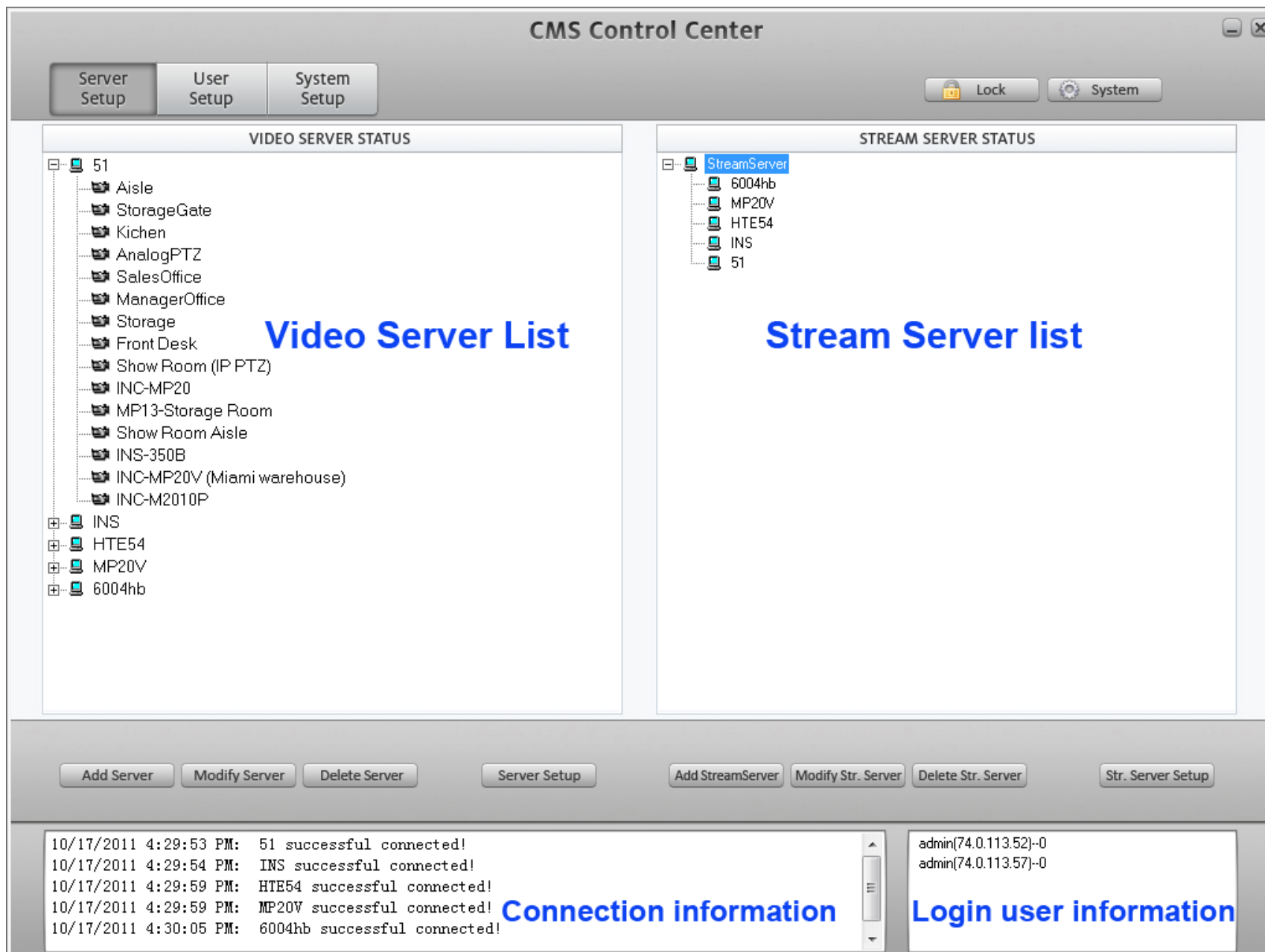


After installation ILDVR CMS Central Server, there is a shortcut icon on Windows desktop. Click it to run the ILDVR Central Server program. For security purpose design, CMS Central Server is in locked status by default after startup, please click button  to unlock the system. The following login diagram shows on screen. Input valid User ID and password to login to the system.

A gray dialog box titled "User Login". It contains two input fields: "Username" with the text "super" and "Password" with masked characters "*****". Below the fields are two buttons: "OK" and "Cancel".


Default administrator ID is “super” without password.

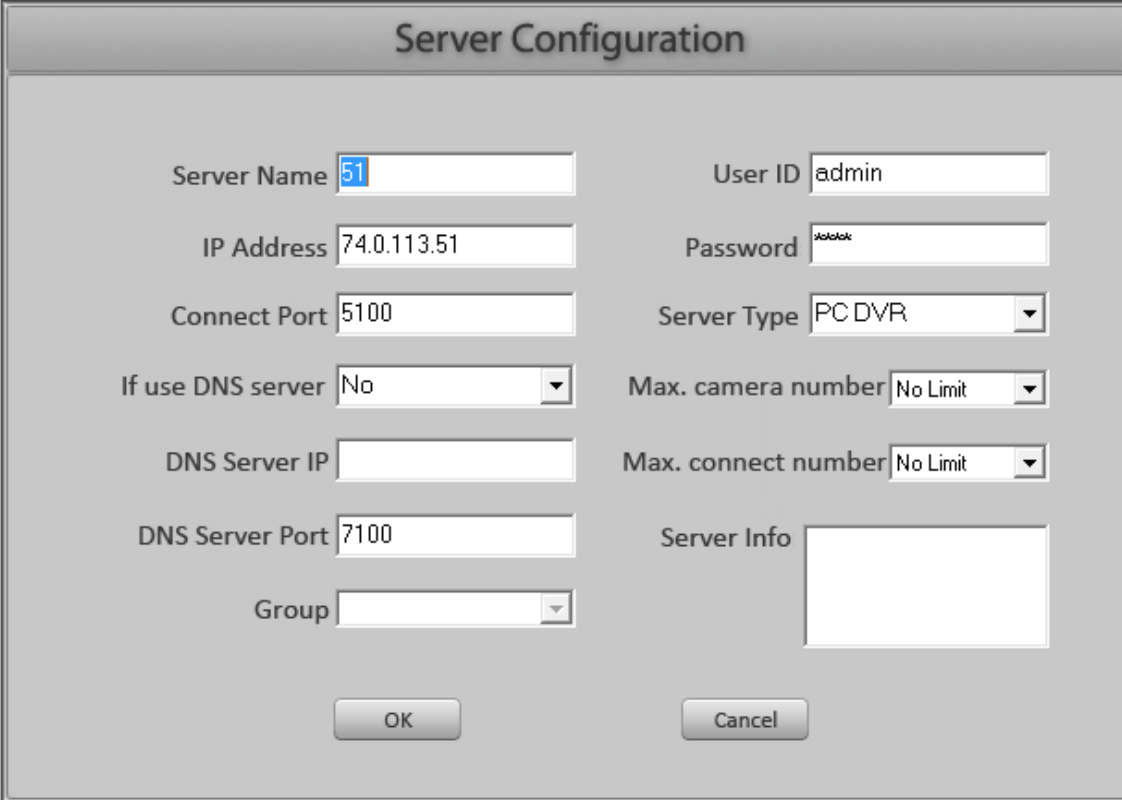
In “Server Setup” page interface, it is divided into four fields: Video Server List display area, Streaming Server List display area, Connections Information display area and Login User Information display area. At the first time running, the four display areas show empty. You must add device to system before doing any operation steps.



1.2 Register Video Server Device

Add Device

Click button  will pop up the following dialog interface. Here the “Server” means video server, it could be PC DVR, NVR, NetDVR, IP Camera, IP Video Server and IP Speed Dome, etc.



The image shows a 'Server Configuration' dialog box with the following fields and controls:

Field/Control	Value
Server Name	51
User ID	admin
IP Address	74.0.113.51
Password	*****
Connect Port	5100
Server Type	PC DVR
If use DNS server	No
Max. camera number	No Limit
DNS Server IP	
Max. connect number	No Limit
DNS Server Port	7100
Group	
Server Info	

At the bottom of the dialog are two buttons: 'OK' and 'Cancel'.

Server Name

Alias describes the video server of below IP host. You name it.

IP Address

Input above server's legacy IP address or domain name.

Connect port

Input above server's TCP port for video transmission. This port number must match the setting of Video Server port number.

User ID and Password

Input legacy login user ID and password to access this device. If you want to remote setup this device, you need input administration User ID.

Server Type

Select correct device type of this video server from dropdown list.

Max. Camera number

Set the maximum number of cameras the device supports

Max. Connect number

Set the maximum number of connections the device supports

Use DNS to analyze IP

If the video server uses dynamic IP, you can select "Yes" from dropdown list. This feature needs special DNS software to support.

DNS server IP

Input the DNS server IP address.

DNS Server Port

Above DNS server TCP port.


Server Info

Input your description for this video server

Group

Choose the group name that the device belongs to

Modify Server

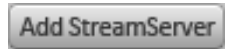
Click the button  to modify the existing device parameter. The interface is the same as “Add Server”.

Delete Server

Click the button  to delete an existing device.

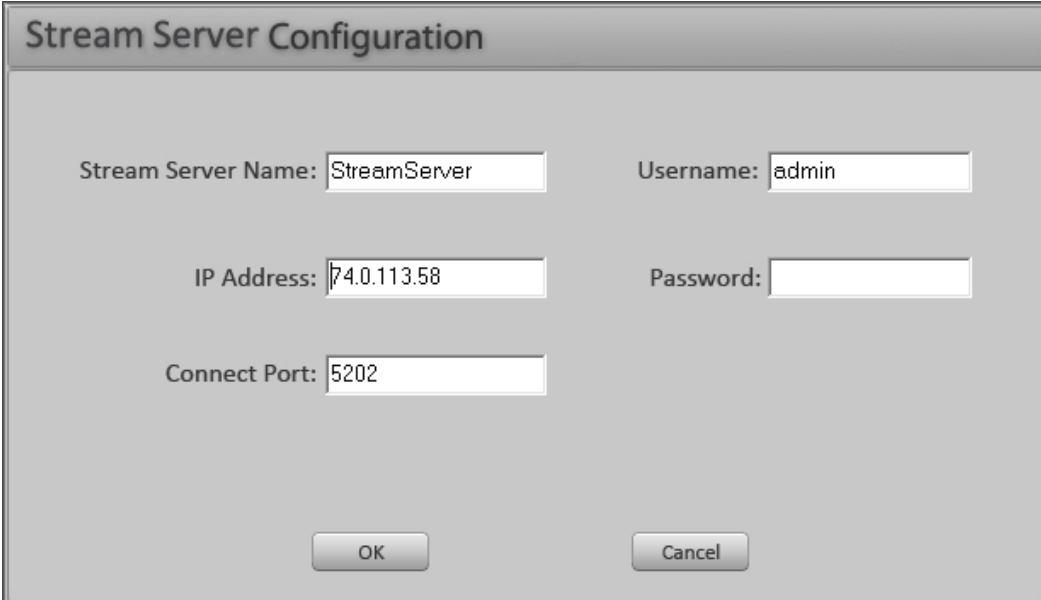
1.3 Register Stream Server Device

Add Stream Server

Click this button  to bring up “Stream Server Configuration” dialog interface. You can add max. 16 stream servers.

Stream Server Name

Alias describes the stream server (Also called Video Station) of below IP host. You name it.



The image shows a "Stream Server Configuration" dialog box with the following fields and buttons:

- Stream Server Name:
- Username:
- IP Address:
- Password:
- Connect Port:
- OK button
- Cancel button

IP Address

Input above stream server's legacy IP address or domain name.


Connect port

Input above server's TCP port for video transmission. This port number is different from Central Server Port in the "System Setup" interface that is 5202 in default. The connect TCP port must be equivalent to the Network Listen Port in local setup of Stream Server. Refer to Section 3.6.

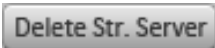
Username and Password

Input the login name and password for this Video Stream Server. This user ID must exist in Central Server system already and has proper operation rights. See section 1.6 "User Management".


Modify Str. Server


Click the button  to modify the existing device parameter. The interface is the same as "Add StreamServer".

Delete Str. Server


Click the button  to delete an existing Stream Server device.

After you add Video Server and Stream Server into Central Server, there is a small icon indicates the online status.

 This icon means the connection is successful

 This icon means the connection is failed

1.4 Remote Setup Video Server

Choose a video server then press button  to bring up the system setup interface. You can also choose "Device Setup" from right-click menu.

If your choosing server is PC DVR, the popup setup interface is exactly the same interface of Hybrid DVR Server. See below picture. Please refer to Hybrid DVR Server & Live Center Operation Guide for more details.

System Configuration

Version 10.0

▼ System Setup

Back up System Parameters

Export

Import System Parameters

Import

Camera Channel

8

Alarm-In Ports

8

Relay-Out Ports

8

Alarm&Relay Port

COM1

Audio Spy

Enable

Use Electronic Map

Enable

Alarm Relay Device

ALM-0808

Log Archiving Days

30

Switching Time

2

sec.

ATM/POS Support

Disable

Alarm Beep

Disable

Popup Alarm Camera

3

sec.

Access Control Support

Disable

Keyboard Stroke

Allow

Motion Area Display

Enable

Grab Picture Save Path

D:\Grab

...

Default Video Standard

NTSC

DVR Language

English

Screen Resolution

Auto

Split Viewing Mode

Normal Mode

Playback Monitor

First

▼ Network Setup

Max Video Connection

128

Network Support

Enable

Video TCP Port

5100

Web port

80

Cellphone Support

Enable

Cellphone Port

5101

Alarm buffer Priority

normal

▼ Boot Setup

Exit to Windows

Exit and Shutdown

Auto Shutdown

0

H

0

M

Auto Reboot Date(Mon. - Sun.)

1

2

3

4

5

6

7

Reboot at

0

H

0

M

Auto Hide

Date Format

Sat Jan 22,2005

Time Format

15:12:18

Jul 28,2011

15:37:23

Drag this area to move

Computer

Mouse

Keyboard

Printer

Network

TV

Users

Power

If your choosing server is in type of NetDVR or IP solution products, the popup setup interface is different from PC DVR setup interface. See the picture behind PC DVR setup interface. The interface is exactly the same as in Hybrid DVR Server or Live Center. Please refer to Hybrid DVR Server & Live Center Operation Guide for more details.

ServerChannelPTZSensorAlarm Setup

Server Name

Embedded Net DVS

Server IP

74.0.113.59

Listen Port

8009

Subnet Mask

255.255.255.240

Gateway

74.0.113.49

Net Cable Type

10M/100M(5 cable)

Use PPPoE

☐

PPPoE Login ID

PPPoE Login Pass

PPPoE IP

0.0.0.0

Web Port

80

Serial NO

INS-5001HS0020080710AAWR190170034WC

User ID

admin

Password

DNS Server IP

0.0.0.0

Remote Manage IP

0.0.0.0

Remote Manage Port

0

Physical address

00:40:3b:95:7e:82

Software Ver.

V2.0 build 081204

DSP software Ver.

V4.0 build 080811

Hardware Ver.

0x0

UpgradeRestartTime AdjustIE Setup


SaveExit

For your attention:



- Some settings of IP camera must be operated in IE interface, please login by Internet Explorer if necessary.
- For non-ILDVR IP cameras, the remote setup is always operated by Internet Explorer.

1.5 Stream Server Setup

1.5.1 Assign Video Server for Stream Server

Click button  will pop up the “Stream Server Setup” interface. See picture in next page. There are 3 pages in this setup interface.

In “Stream Server Setup” page, there are 3 fields of device list. The left field lists all Stream Servers that register in Central Server system. The middle field lists all registered video servers that are available to be used. The right field lists all assigned Video Server for current Stream Server. It is empty before assignment.

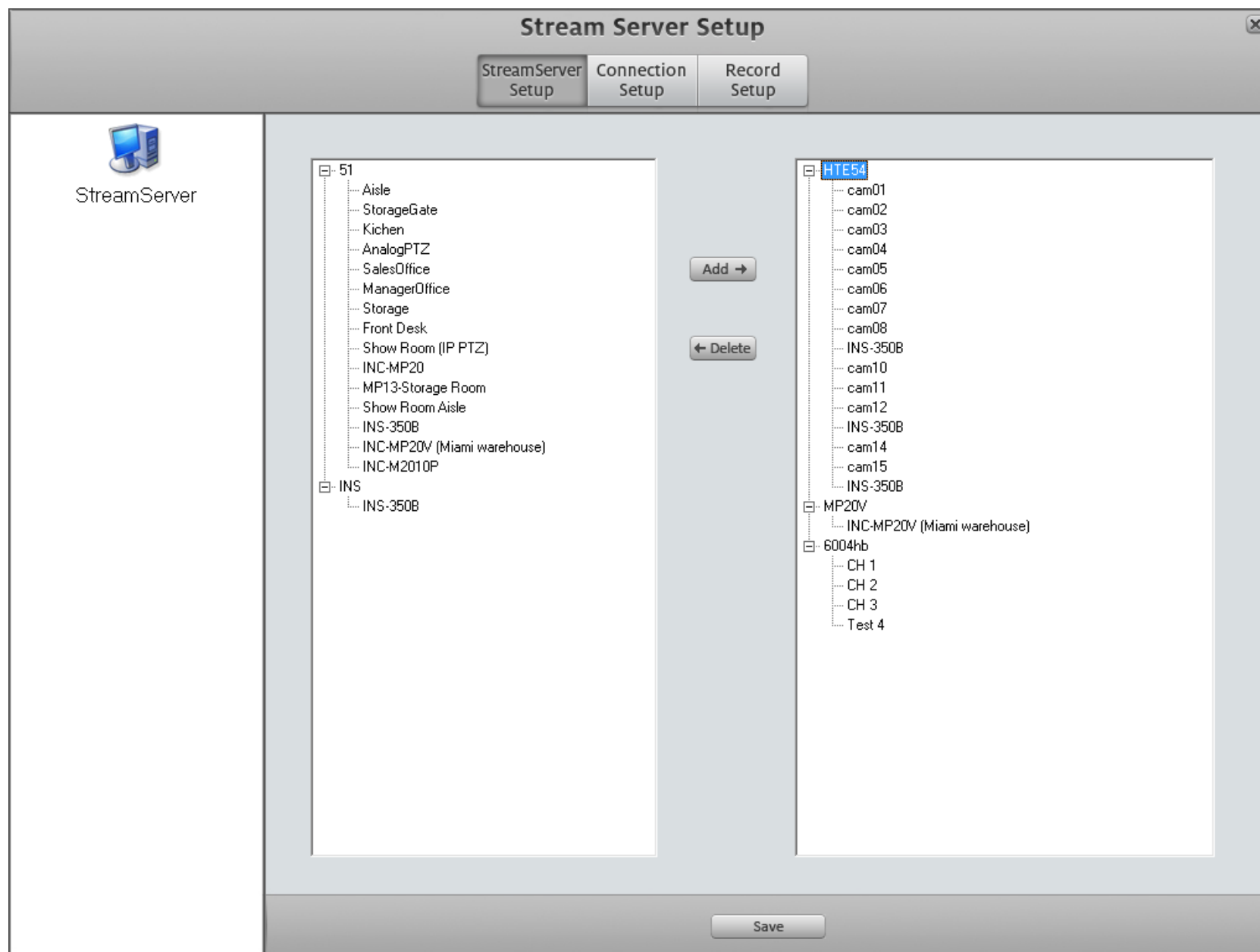
Click one of the Stream Server icons in left field to assign Video Server to it. The highlight icon indicates current item. Select one of the Video Server in central field then click button , the Video Server will move to right field. It means that you have finished one Video Server assignment. If you want to modify your assignment, click button  to remove the Video Server back to original list (middle field) then repeat above steps to assign new Video Server.

For your attention:

- **One Video Server can be assigned only one time. That means it can be assigned to only one Stream Server.**
- **If you check off some cameras when you add in a video server, these cameras will be not available in CMS system.**
- **The high light computer icon is current active server. Click a gray icon will change to high light.**

1.5.2 Stream Server Connection Setup


Stream Server supports maximum 64 connections (channels). It doesn't mean that Stream Server only connects to 64 cameras. The truth is 64 cameras in synchronization but you can set multiple cameras from one server into one connection to make them switch sequentially.



✕

Stream Server Setup

StreamServer Setup
Connection Setup
Record Setup





StreamServer

Connections	Connect to server	Connect to camera	Frame rate	Stream Type	If record ?	If Display ?
Connection1	IPPTZ	1	Auto frame rate	Main Channel	Schedule record	Window1
Connection2	PCDVR51	1	Auto frame rate	Main Channel	Schedule record	Window2
Connection3	PCDVR51	2	Auto frame rate	Main Channel	Schedule record	Window3
Connection4	PCDVR51	3	Auto frame rate	Main Channel	Schedule record	Window4
Connection5	PCDVR51	4	Auto frame rate	Main Channel	Schedule record	Window5
Connection6	PCDVR51	5	Auto frame rate	Main Channel	Schedule record	Window6
Connection7	PCDVR51	6	Auto frame rate	Main Channel	Schedule record	Window7
Connection8	PCDVR51	7	Auto frame rate	Main Channel	Schedule record	Window8
Connection9	PCDVR51	8	Auto frame rate	Main Channel	Schedule record	Window9
Connection10	PCDVR51	9	Auto frame rate	Main Channel	Schedule record	Window10
Connection11	PCDVR51	10	Auto frame rate	Main Channel	Schedule record	Window11
Connection12	PCDVR51	11	Auto frame rate	Main Channel	Schedule record	Window12
Connection13	PCDVR51	12	Auto frame rate	Main Channel	Schedule record	Window13
Connection14	PCDVR51	13	Auto frame rate	Main Channel	Schedule record	Window14
Connection15	PCDVR51	14	Auto frame rate	Main Channel	Schedule record	Window15
Connection16	PCDVR51	15	Auto frame rate	Main Channel	Schedule record	Window16
Connection17	IPC 2MP	1	Auto frame rate	Main Channel	Schedule record	Window17
Connection18	PCDVR54	1	Auto frame rate	Main Channel	Schedule record	Window18
Connection19	PCDVR54	2	Auto frame rate	Main Channel	Schedule record	Window19
Connection20	PCDVR54	3	Auto frame rate	Main Channel	Schedule record	Window20
Connection21	PCDVR54	4	Auto frame rate	Main Channel	Schedule record	Window21
Connection22	PCDVR54	5	Auto frame rate	Main Channel	Schedule record	Window22
Connection23	PCDVR54	6	Auto frame rate	Main Channel	Schedule record	Window23
Connection24	PCDVR54	7	Auto frame rate	Main Channel	Schedule record	Window24
Connection25	PCDVR54	8	Auto frame rate	Main Channel	Schedule record	Window25
Connection26	PCDVR54	9	Auto frame rate	Main Channel	Schedule record	Window26
Connection27	PCDVR54	10	Auto frame rate	Main Channel	Schedule record	Window27
Connection28	PCDVR54	11	Auto frame rate	Main Channel	Schedule record	Window28
Connection29	PCDVR54	12	Auto frame rate	Main Channel	Schedule record	Window29
Connection30	PCDVR54	13	Auto frame rate	Main Channel	Schedule record	Window30
Connection31	PCDVR54	14	Auto frame rate	Main Channel	Schedule record	Window31
Connection32	PCDVR54	15	Auto frame rate	Main Channel	Schedule record	Window32

Save

In “Connection Setup” page, you can easily configure any connection (channel) connecting to any assigned server and any camera of the server from dropdown list. See the picture behind.

If you put multiple cameras in one connection, please don’t forget to set Auto-switch time. After Stream Server startup, it sets auto-switch as default. The switch

button shows as  (green). If you setup “No switch”, only the first camera displays on screen. The switch button shows as  (grey).

For your attention:

Please check your computer CPU usage and network bandwidth to make sure the connections is workable.

Other connection settings

Frame rate

Video Server of PCDVR supports 3 kinds of frame rate. But Video Server of NetDVR/DVS and IP Cameras does not support 1 fps frame rate.

Stream Type

Set main-stream or sub-stream.

If Record?

If you setup Schedule Record, you must go to “Record Setup” page to setup corresponding timetable. If you setup “Continuous Record”, it will continually record upon connection, even when you setup “No Record” in the timetable. That means “Continuous Record” setting overrides other record settings and is equivalent to Manual Record. It has the highest priority.

If Display?

Assign the connecting camera to be displayed in which window. Even you set “No Display” the connecting camera is still working with video record and video forward features.

To display network stream video will cost a lot of system resources, please make sure you have efficient and powerful computer to process it.

1.5.3 Stream Server Record Setup

StreamServer

Stream Server Setup

StreamServer Setup

Connection Setup

Record Setup

Connection1

Continuous Record

Sensor Record

Motion Record

Sensor or Motion Record

No Record

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sun.																								
Mon.																								
Tue.																								
Wed.																								
Thur.																								
Fri.																								
Sat.																								

Copy Record Schedule to

All Connections

Copy

Server Delay Time

20

sec.

Max. Transmit Video

128

Channels

Save

In “Record Setup” page, you can set every connection (channel) record schedule. The operation steps are very simple, just click the record mode icon then drag & drop the mouse in the timetable area. One grid means one hour. After finish one channel, you can copy the timetable to other channels.

For your attention:

Stream Server only executes the record schedule saved in this page. If you change the cameras displaying sequence by drag & drop the camera from connection list, this change does not apply to video recording.

Server Delay Time

20

sec.

If you put multiple cameras from one server into one connection, in order to display all cameras sequentially, you must set proper delay time according your network speed.

Max. Transmit Video


128

Channels

Set the maximum video channel number (1-256) that the stream server can forward to network.

1.6 User Management

1.6.1 Add User

There are 3 levels of user type in the system: Administrator, Operator and User. The Administrator has the operation right to add/modify/delete Operator Account and User Account. The Operator has the operation right to add/modify/delete User Account. Press button  to create new user ID.

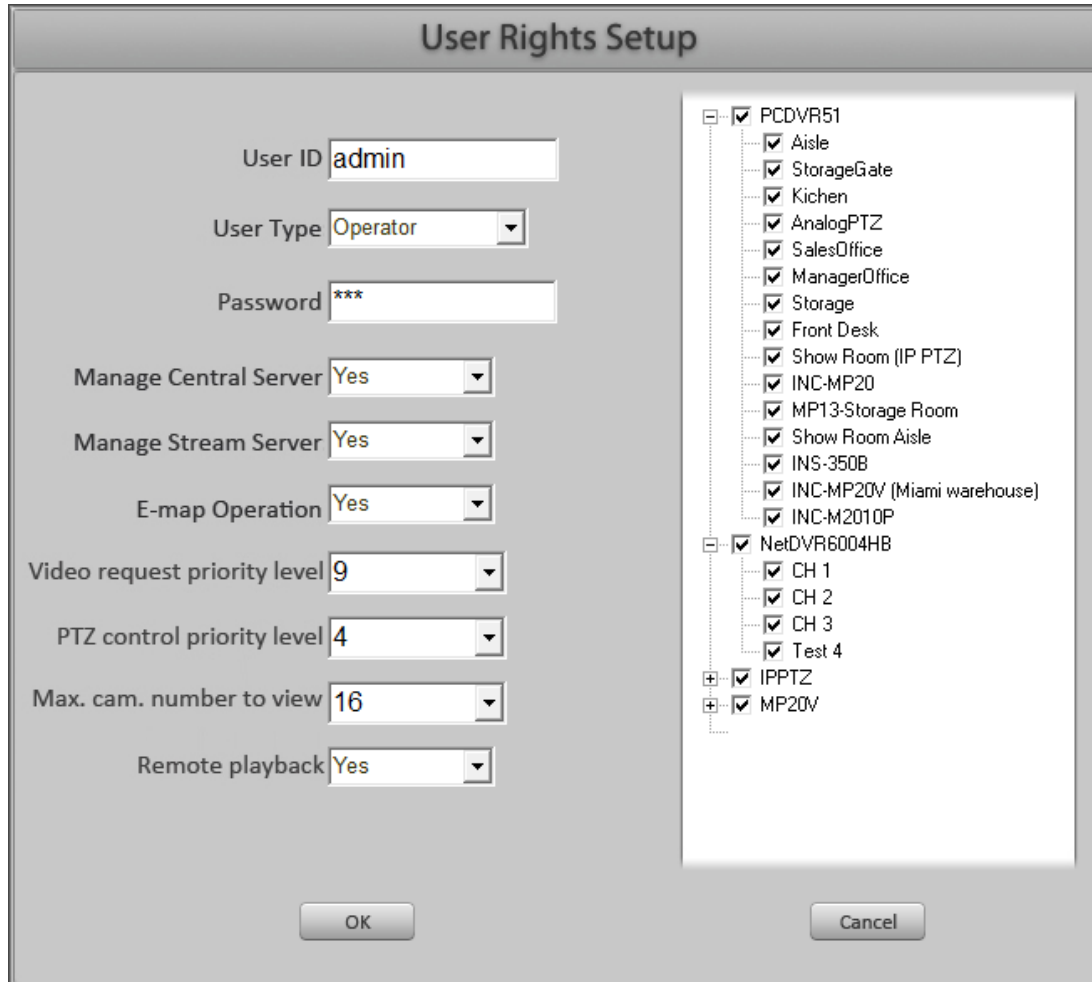
User ID and Password:	Input user ID and Password
User type:	Select the user type from Administrator, Operator and User
Manage Central Server:	Enable or Disable the administration rights.
Manage Stream Server:	Enable or Disable the administration rights.
E-map Operation:	Enable or Disable the administration rights.
Video Request Priority Level:	Select proper operation right.
PTZ Control Priority Level:	Select proper operation right.
Max. Cam. Number to view:	Set the amount of cameras for this user to view. By default, every user is allowed to view all cameras. To prohibit a user to view the camera, just check off the camera in the camera list.
Remote Playback:	Enable or Disable the remote playback operation rights.

1.6.2 Modify User

Select one user then click button  to enter “User Rights Setup” interface. All items are the same as above “Add User”.

1.6.3 Delete User

Select user from then click the  button to delete it.



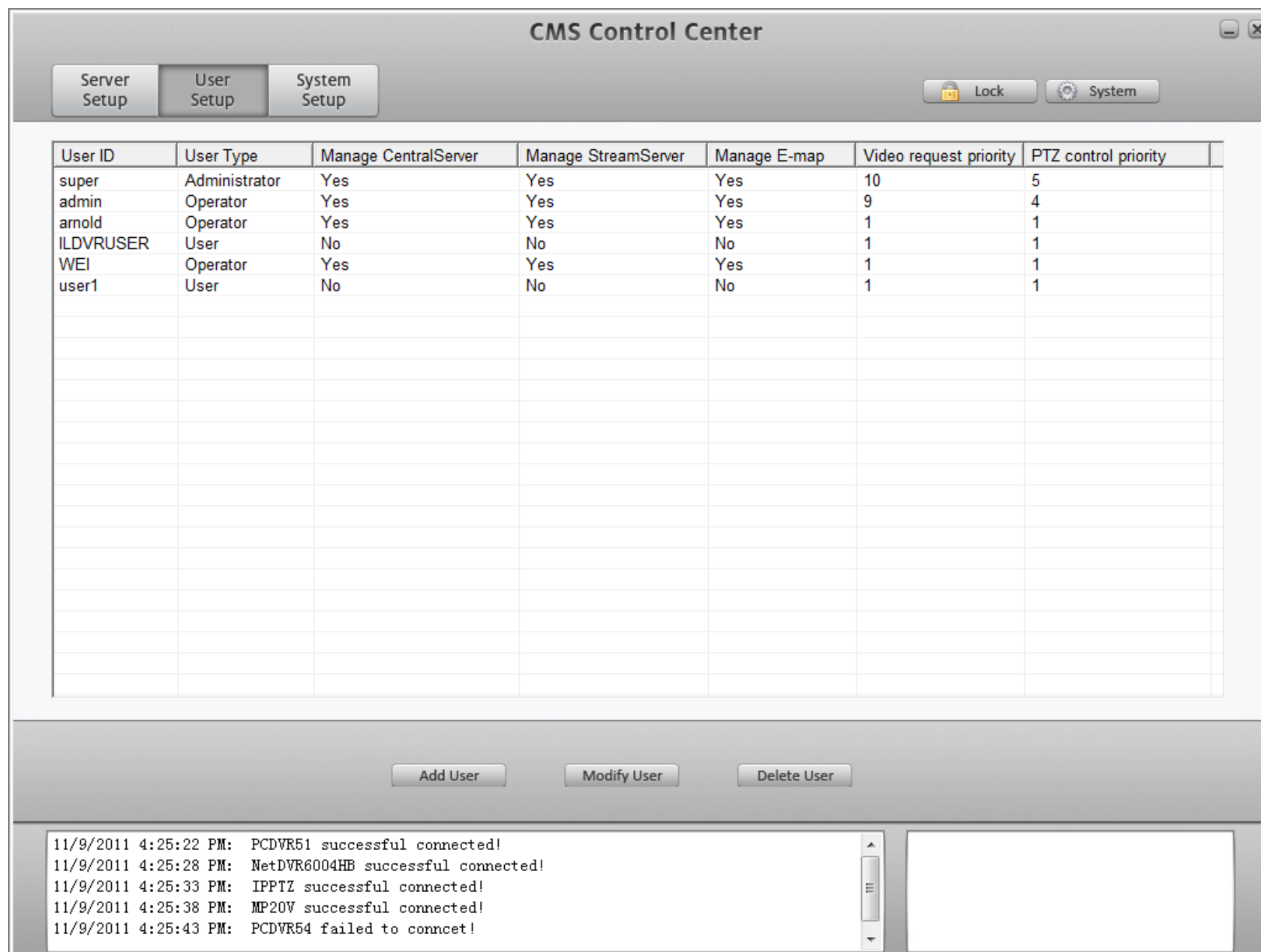
The "User Rights Setup" dialog box is used to configure permissions for a user. It contains the following fields and options:

- User ID:
- User Type:
- Password:
- Manage Central Server:
- Manage Stream Server:
- E-map Operation:
- Video request priority level:
- PTZ control priority level:
- Max. cam. number to view:
- Remote playback:

On the right side, there is a tree view showing the following items with checkboxes:

- ☒ PCDVR51
 - ☒ Aisle
 - ☒ StorageGate
 - ☒ Kitchen
 - ☒ AnalogPTZ
 - ☒ SalesOffice
 - ☒ ManagerOffice
 - ☒ Storage
 - ☒ Front Desk
 - ☒ Show Room (IP PTZ)
 - ☒ INC-MP20
 - ☒ MP13-Storage Room
 - ☒ Show Room Aisle
 - ☒ INS-350B
 - ☒ INC-MP20V (Miami warehouse)
 - ☒ INC-M2010P
- ☒ NetDVR6004HB
 - ☒ CH 1
 - ☒ CH 2
 - ☒ CH 3
 - ☒ Test 4
- ☒ IPPTZ
- ☒ MP20V

At the bottom, there are "OK" and "Cancel" buttons.



1.7 System Setup

CMS Control Center

Server Setup

User Setup

System Setup

Lock

System

Auto Check Server ☒

Check every

1

 min.

Central Server port

5201

Web Server port

80

10/17/2011 4:29:53 PM: 51 successful connected!

10/17/2011 4:29:54 PM: INS successful connected!

10/17/2011 4:29:59 PM: HTE54 successful connected!

10/17/2011 4:29:59 PM: MP20V successful connected!

10/17/2011 4:30:05 PM: 6004hb successful connected!

admin(74.0.113.52)-0

admin(74.0.113.57)-0

Auto Check Server ☒

Check on this option to enable system “Connection lost auto-recovery” feature.

Check every min.

Set above auto-check interval time in minute.

Central Server port

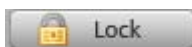
Setup the TCP port for Stream Server, CMS Client and E-map connect to or login to Central Server. Default is 4601.

Web Server port

Setup the web client (IE Browser) port. Central server doesn't support web client from v10.0.

1.8 Other Operations

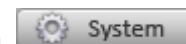
Lock /unlock System: Click button



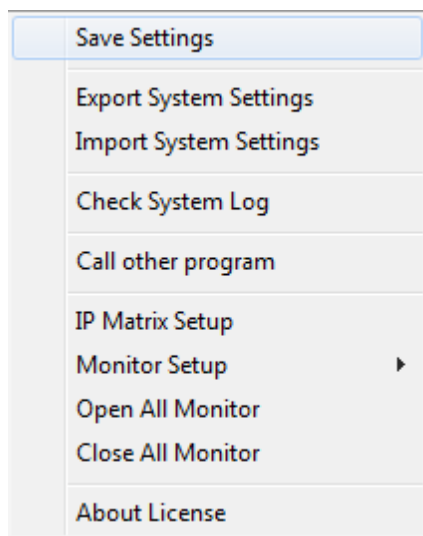
to lock/unlock the system. When system is locked, you must input a valid user ID and password to unlock it.

System Backup:

After finish system configuration or modify system parameters, please click button



to popup below interface.



Click “Save Settings” to save the system parameters.

Click “Export System Setting” to backup system setting. Never forget to backup your system before upgrade software version.

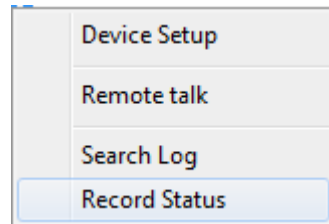
Click “Import System Setting” to restore old system settings.

Check System Log: Search Central Server system log

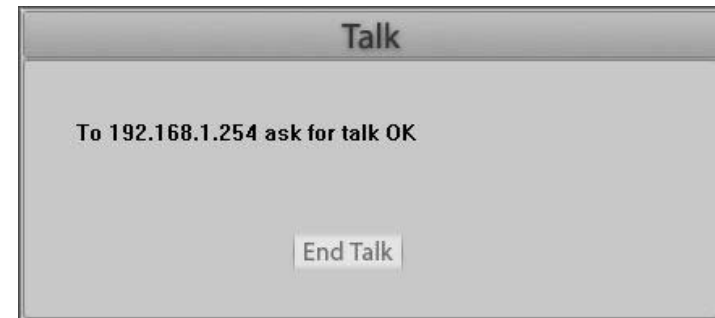
Call other program: Run other program in local computer.

IP Matrix Setup and operation: Please refer to “IP Matrix Operation Guide”.

Video Server right-click menu operation:



Right click any server from Video Server list will pop up above right-click menu.

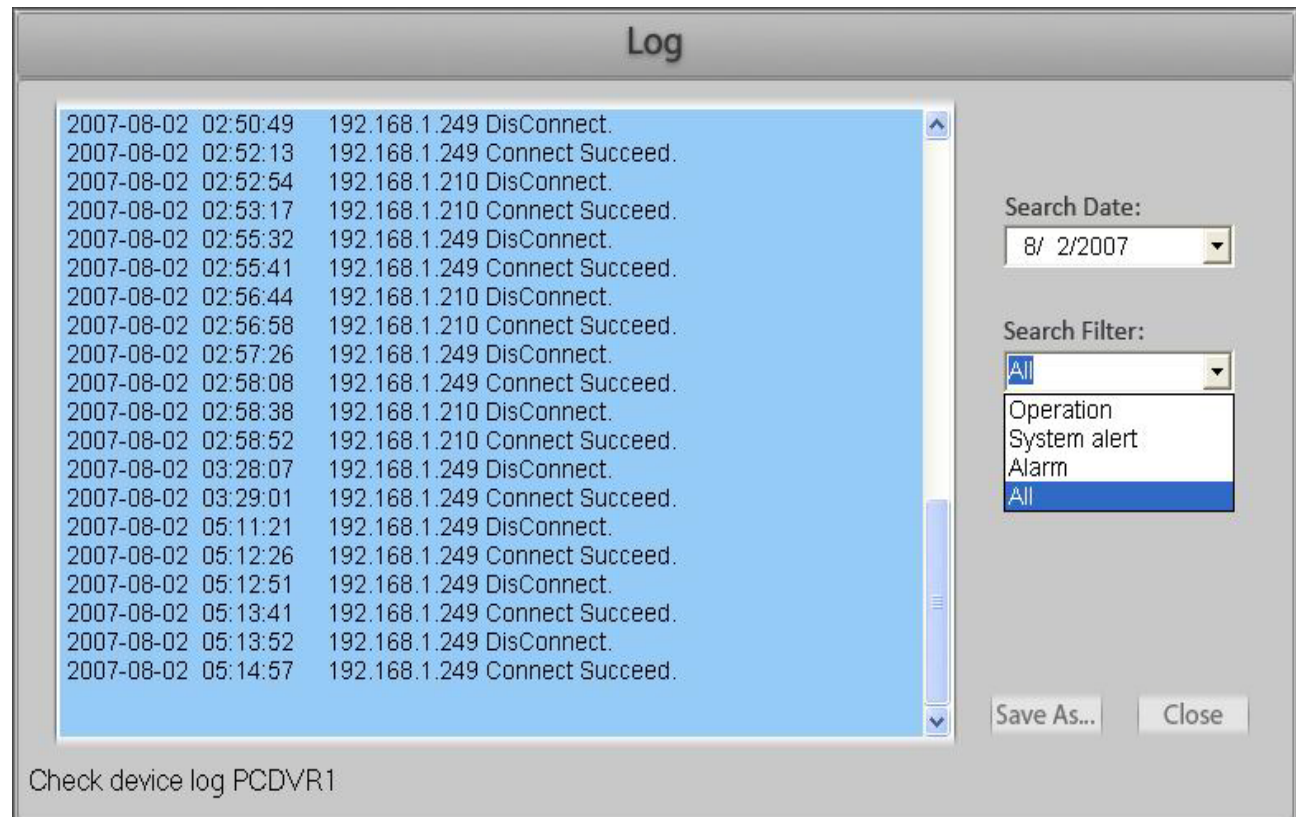


Remote talk: Click “Remote talk” to begin “IP phone call”. See right picture.

Search Log:

Click “Search Log” to display remote server system log information.

See right picture.



Record Status: Click “Record Status” to view remote server current recording status. See below sample illustration. This feature only support PCDVR server.

You can change the cameras recording status by click the camera button, but the changes are limited as below:

“No record” changes to “Manual record” and vice versa.

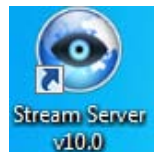
“Schedule record” changes to “Manual record” and vice versa.

“No record” cannot change to “Schedule record” and vice versa.

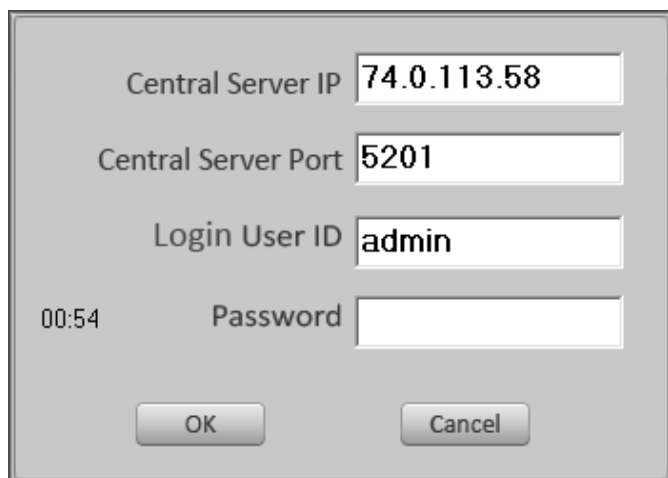


Chapter 2 CMS Stream Server

2.1 Login to Central Server



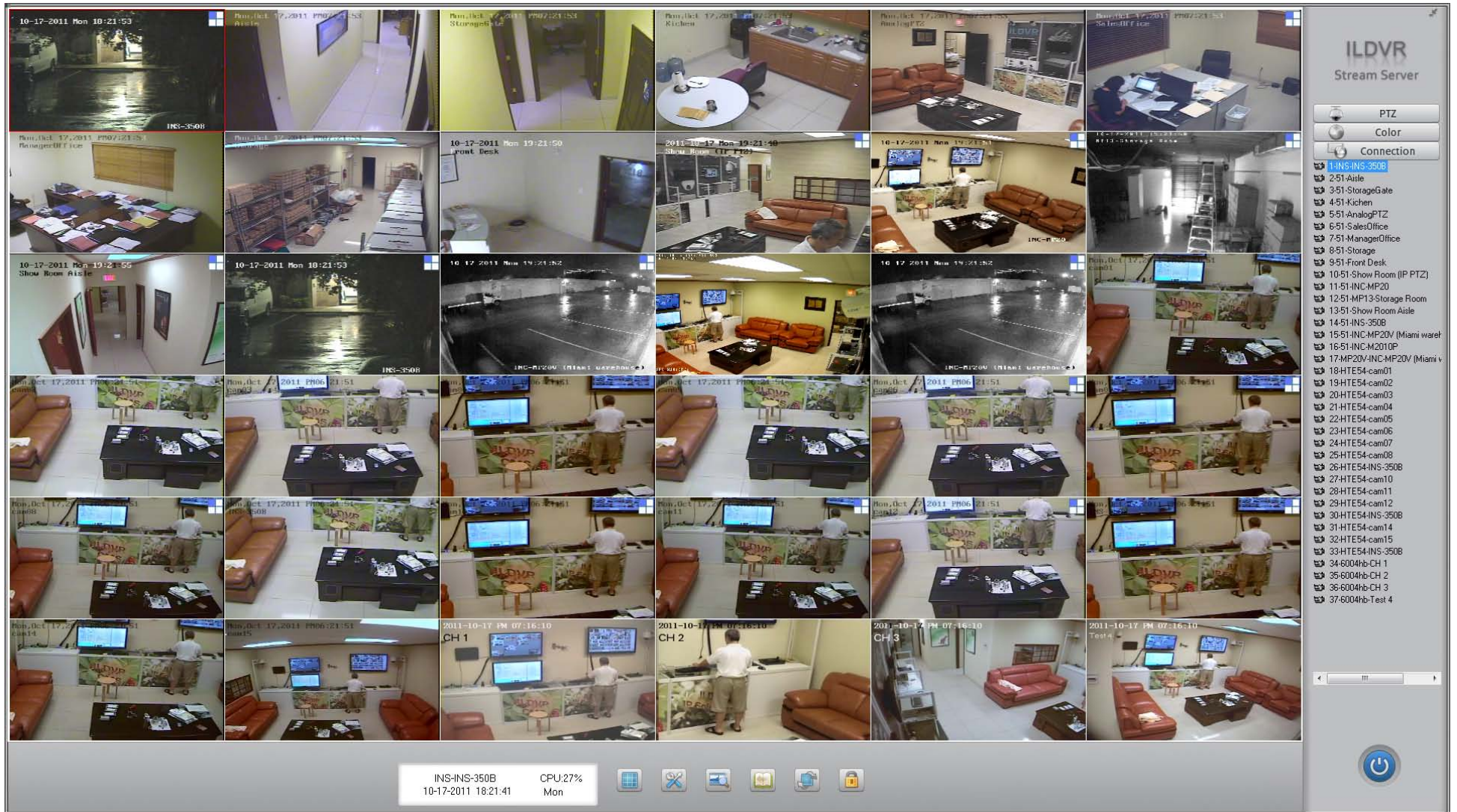
After installation ILDVR CMS Stream Server, there is a shortcut icon on Windows desktop. Click it to run the ILDVR Stream Server program, the following login diagram shows on screen. To login to CMS central Server, you must input Central Server IP address, TCP Port number, valid User ID and password.

A gray login dialog box with a title bar. It contains four input fields: 'Central Server IP' with the value '74.0.113.58', 'Central Server Port' with the value '5201', 'Login User ID' with the value 'admin', and 'Password' which is empty. To the left of the 'Password' field is a timer showing '00:54'. At the bottom are two buttons: 'OK' and 'Cancel'.

For your attention:

- Stream Server doesn't save any settings of video connection and record schedule. Those settings are achieved from Central Server.
- Local user with legacy user rights can change the connection by drag & drop the camera from Connection List panel.
- Local User can execute Manual Record if necessary no matter the camera is in schedule record or not record.

2.2 Main interface





Click this button to select split viewing mode



Local System button, click it to enter System Setup interface'



Local Search/playback button



Search system log. See right picture.



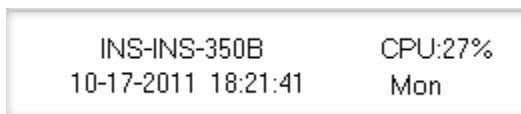
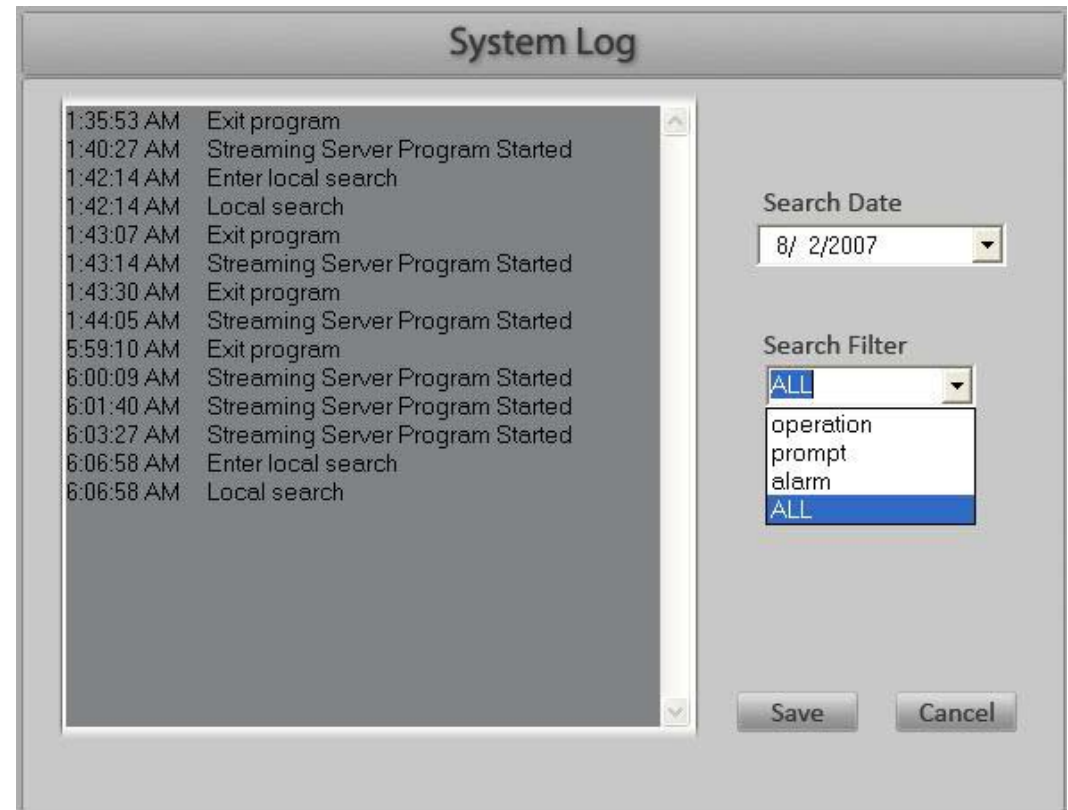
Click this button to run sequential switch.

Refer to section 1.5.2 in Central Server "connection setup"

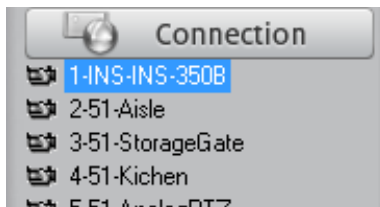


Lock button. Click it to lock/unlock the system.

When system is locked, you must input a valid user ID and password to unlock it.



Display Date & Time, Current active window and connection information



Connection list window, from left to right: connection number – server name – camera name. You can drag &drop the camera from connection list to any window to display.

2.3 PTZ control



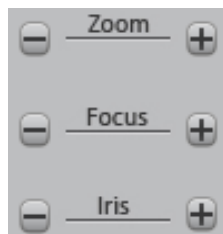
Call preset button



Blow (wiper) on/off button



Light on/off button



Zoom, Focus and Iris control button



PTZ direction and auto-pan button

2.4 Color & Audio adjust

Move the slider to adjust image color and audio volume.

From left to right: Brightness, Contrast, Tone, Saturation and Audio volume.

Click the color icon to restore default value. Click the audio button to turn on / turn off the audio.

Note: The color adjustment operation only takes effective in Stream Server.

It does not change the server color settings.

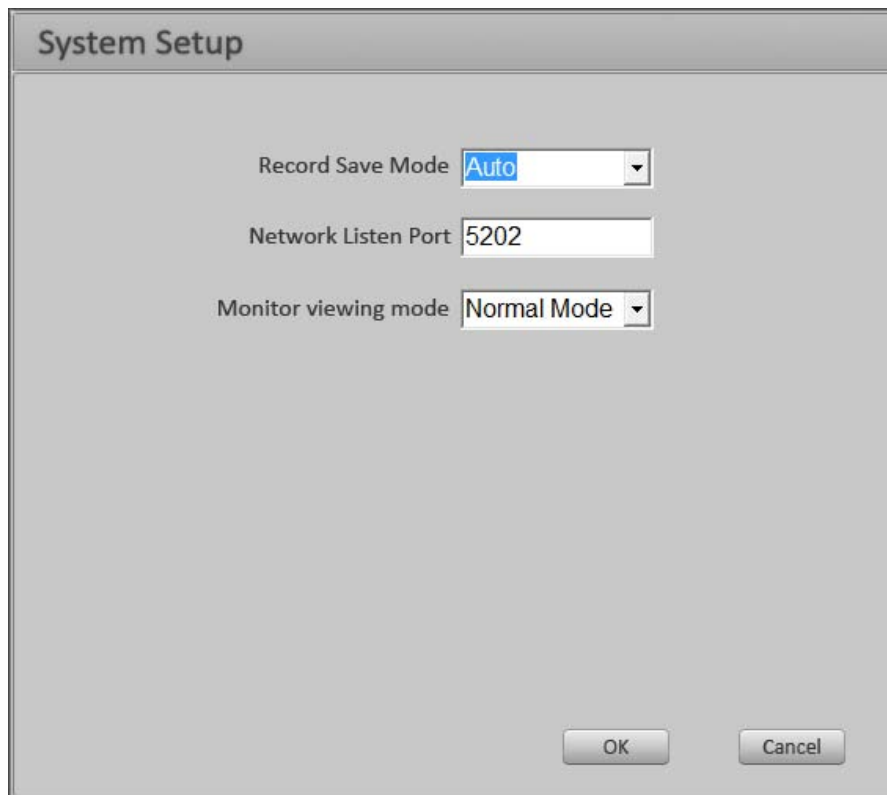


2.5 Local Setup

Record Save Mode Select Auto-overwrite or manual repeat record mode

Network Listen Port Set the TCP port number for video forward. This port number must be equivalent to the port number of “Connect port” in the “Stream Server Configuration” interface in Central Server. Refer to Section 1.3 in Central Server.

Monitor viewing mode Set monitor split viewing mode.



The image shows a 'System Setup' dialog box with a title bar. Inside, there are three configuration items: 'Record Save Mode' with a dropdown menu showing 'Auto', 'Network Listen Port' with a text input field containing '5202', and 'Monitor viewing mode' with a dropdown menu showing 'Normal Mode'. At the bottom right of the dialog are 'OK' and 'Cancel' buttons.

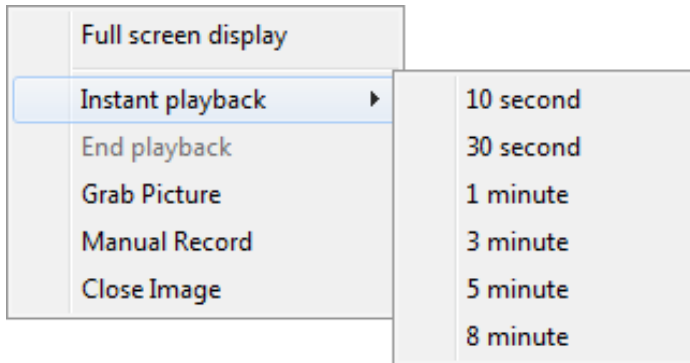
2.6 Local Search

Playback recorded video in local HDD. The playback interface and operation is exactly the same thing as the “Local Search” in Hybrid DVR Server and Live Center. Please refer to Hybrid DVR Server & Live Center Operation Guide.



2.7 Right-click menu

Right-click any camera will pop up following menu

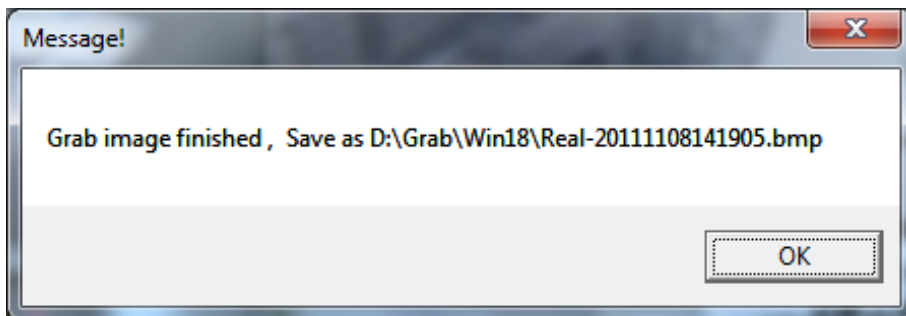


Full screen display: Switch to full screen mode.

Instant playback: If the camera is not recording, the instant playback window displays black background.

End playback: Click to end instant playback.

Grab Picture: The default saving path shows as following illustration.



Manual Record: Click to shift to manual record mode.

Close Image/Restore Image: Click it to hide or display the camera video.

Chapter 3 CMS E-Map

3.1 Introduction of E-Map

Key features of E-map

- ✓ Visual representing every device installation position via 2 levels of maps. The main-map shows Video Servers on a big map, the sub-map shows cameras and sensors on a small map.
- ✓ Monitoring, Receiving and handling alarm signals in the whole CMS system. Auto display the alarm camera on PC screen and/or TV-wall.
- ✓ Integrated IP matrix technology to process hundreds and thousands of camera's alarm signals without any manual invasion. E-map program automatically assigns and outputs the alarm cameras to TV-wall.
- ✓ Bi-ways voice chat (VoIP) between E-map and video server.
- ✓ Remote PTZ Control
- ✓ Perform remote relay out control (Alarm out) to video server.

3.2 Login to E-Map



After installation ILDVR CMS E-map, there is a shortcut icon on Windows desktop.

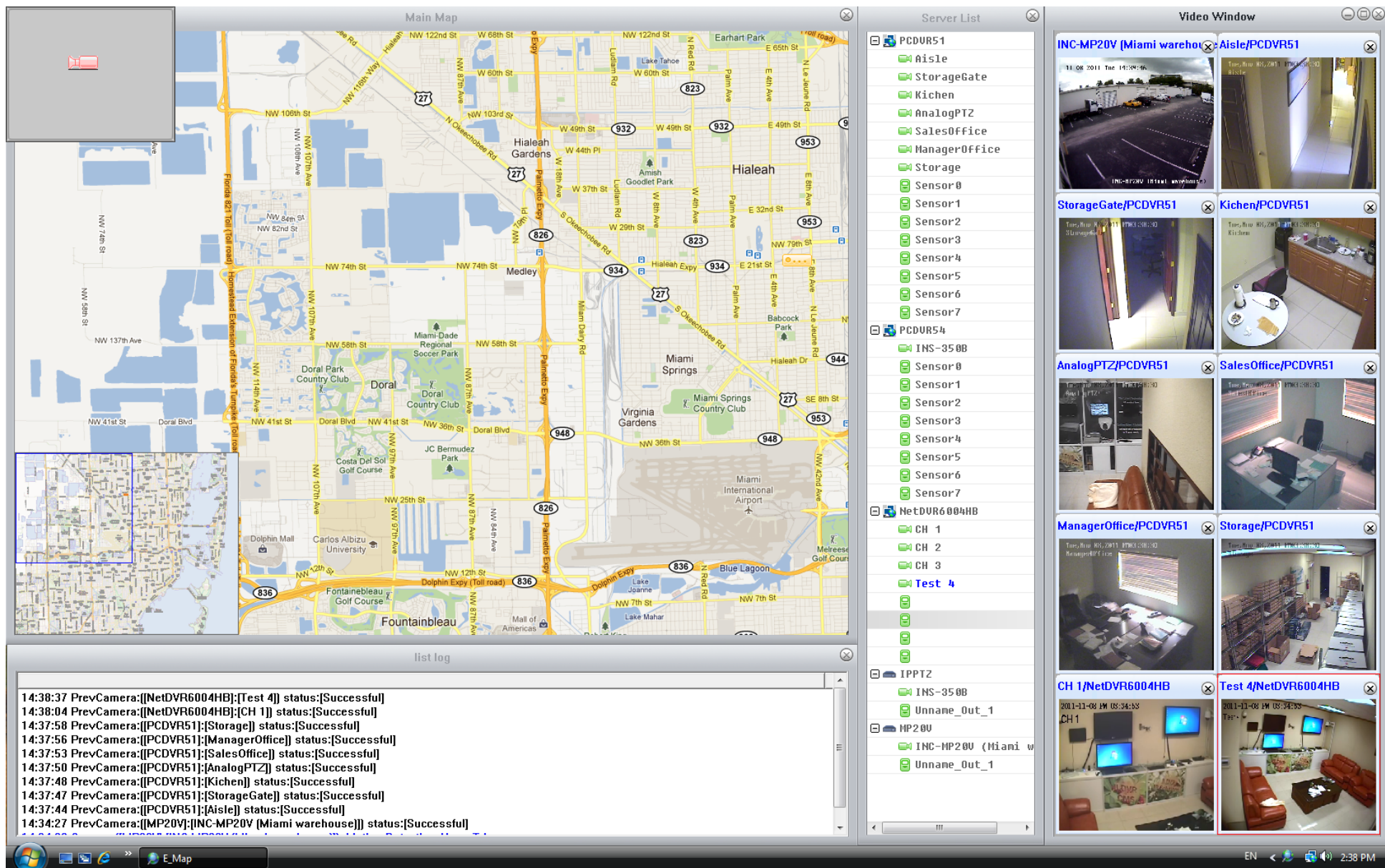
Double click it to run CMS E-map program, the following login dialog box shows on screen.

You need input valid User ID and password to login CMS E-map.

A login dialog box with a gray background. It contains four input fields: 'Server IP' with the value '74.0.113.58', 'Server Port' with the value '5201', 'User Name' with the value 'admin', and 'Password' with the value '*****'. At the bottom, there are two buttons: 'OK[8]' and 'Cancel'.

Important: E-map program works with the user right of login ID.

That means E-map can only perform the operations that CMS Central Server assigns to the login user.



Main Interface

New version E-map (v10.0) has 4 independent windows. Each window can be moved and is resizable. The Video Window supports max. 64 cameras, you can right-click any video window then choose “Display” → “...” to configure the split viewing mode.


Exit Program


In Windows taskbar right-click the E-map program icon  then choose “Exit” to shut down the E-Map.

3.3 Map setup

3.3.1 Add server

Right click the main-map then choose “Add Server” from the popup menu (If the main-map doesn’t show up, please click “Show Map Setup” from Main Operation Menu). The “Select Server” dialog interface shows up (See below picture). Please choose server name from dropdown list.

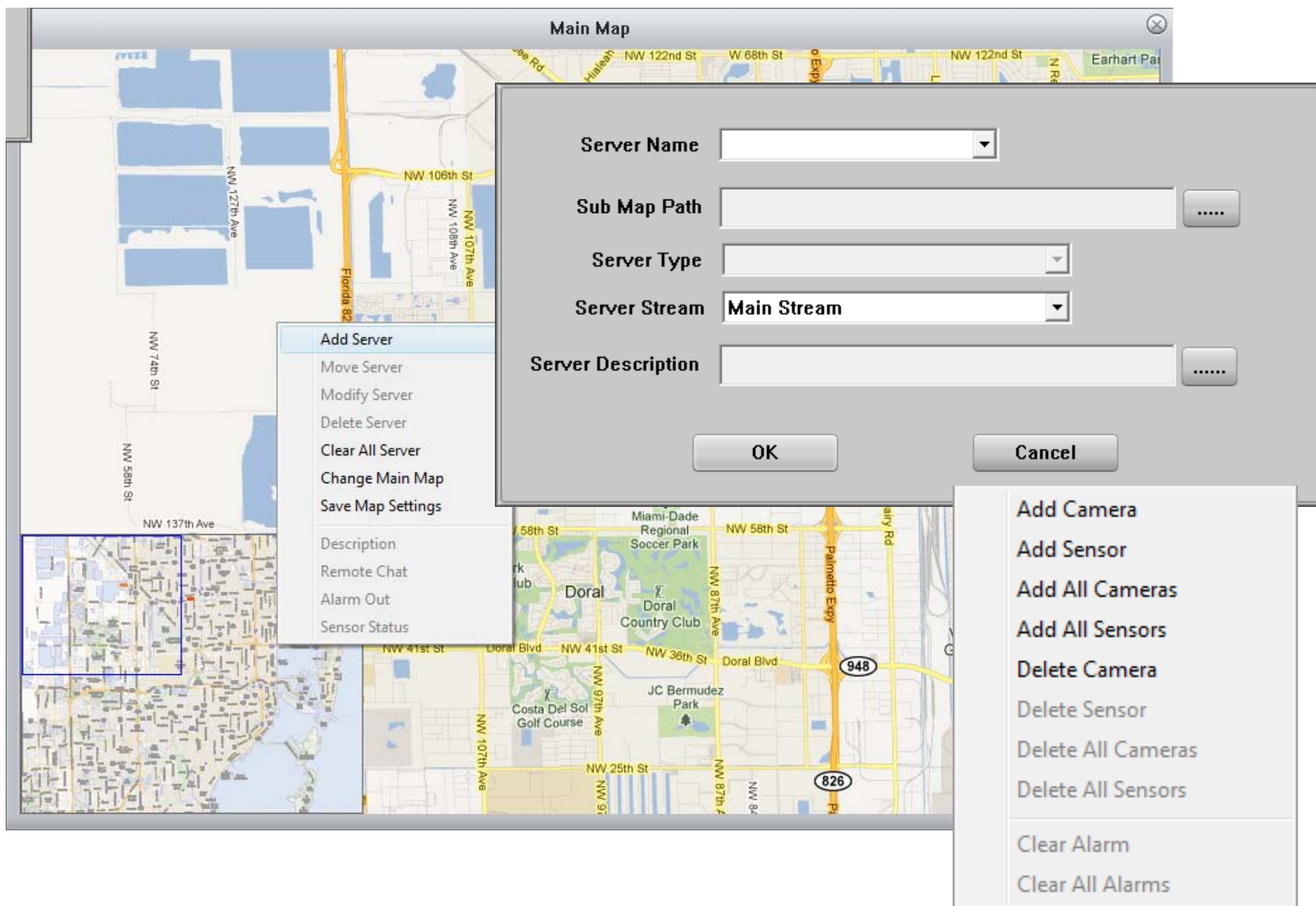
If you have drawn an installation map and save it in local HDD for this server, please press button  to assign the sub-map for the server. The sub-map supports BMP format file with the size from 160*120 to 640*480 pixels. If you didn’t design any sub-map for this server, E-map system will load default map for you.

If you have written a description file for this server and save it in local HDD in Text format, please press button  to assign the description file for the server.

After you add a server, its icon will show on the main-map. When you click a server icon, its sub-map and server name will show up immediately. This sub-map is used to show all cameras & sensors information of this video server. To close or hide the sub-map just simply double-clicks on it.

3.3.2 Add cameras

Right click the sub-map will pop up a menu. You can easily add cameras & sensor to this sub-map. Drag & drop the icon of camera & sensor to move it.



3.3.3 Move Server

To move a server to another position on main-map, just simply drag &drop the server icon by right key of the mouse.

3.3.4 Modify Server

Right click a server icon then select Modify Sever. Operation steps are the same as “Add Server”.

3.3.5 Delete Server

Right click a server icon then select this item, system will delete it from map.

3.3.6 Clear all Servers

Choosing this item will delete all servers information include sub-map.

3.3.7 Change Main Map

Change the default main-map from here. Please draw a map in BMP format picture for your CMS system. The file size should be from 1024*768 to 4096*3072 pixels. You can use “Open Google Map” function to grab a map for E-map use.

3.3.8 Save Map Settings

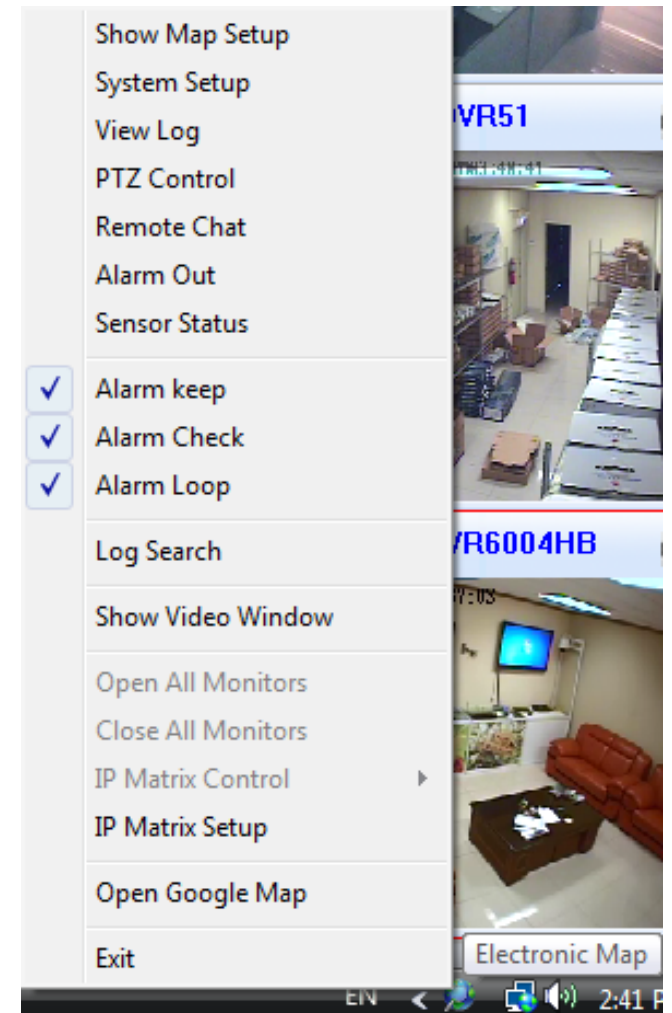
After finish add server, modify server or change map, select this item to save map settings.

3.4 Main Operation Menu

In Windows taskbar right-click E-map program icon  will popup E-map main operation menu. See right picture. From this menu you can easily switch working/operation status.

3.4.1 System Setup

- Alarm Type:** Show all the alarm types.
- Text Color:** Set different font color for different alarm type display in the text information window.
- Record Log:** Set E-map software to record the logs for each Server/camera when alarm trigger.
- Real Time Display:** Set E-map software to display real time video for each Server/camera when alarm trigger.
- Sound File:** Set the sound file path for corresponding alarm type. The file will be played when this type of alarm happens.
- Alarm delay time:** Set the time that the alarm keep being on
- Alarm display interval:** Set the interval of alarm video to be displayed in sequence when the amount of alarm camera is more than the amount of video window.
- PTZ Keyboard:** Select the COM port used by IKB-2988 PTZ Keyboard.
- Stream Type from Server:** Select the video stream type from server.
- Alarm Indicator:** Select the display mode of alarm indicator icon.
- Pop up Sub Map:** To enable the sub-map pops up when alarm trigger.
- Log file save days:** Set the time of saving log files.



System Setup ✕

Alarm Type	Text Color	Record Log	Realtime Display	Sound File
Sensor Alarm	 	ALL	IMP20V, Un	<input type="text"/> ...
Motion Alarm	 	IMP20V, IN	IMP20V, IN	<input type="text"/> ...
Video Lost	 	IMP20V, IN	<div style="border: 1px solid gray; padding: 5px; margin-top: 5px;"> <input type="checkbox"/> ALL <input checked="" type="checkbox"/> PCDVR51 <input checked="" type="checkbox"/> NetDVR6004HB <input type="checkbox"/> IPPTZ <input checked="" type="checkbox"/> MP20V </div>	<input type="text"/> ...
Disk Full Alarm	 			<input type="text"/> ...
Other alarm	 			<input type="text"/> ...

Alarm Delay time 5s S

Alarm Display Interval 12 S

PTZ keyboard Disable

Stream Type from Server Main

Alarm Indicator Glint

Pop Up Sub Map ☐

log file save days 2

OK
CANCEL

3.4.2 View log

Select “View log” in main operation menu to search system log.

3.4.3 PTZ Control

Select “PTZ Control” in main operation menu to perform PTZ control.

3.4.4 Remote Chat (VoIP)

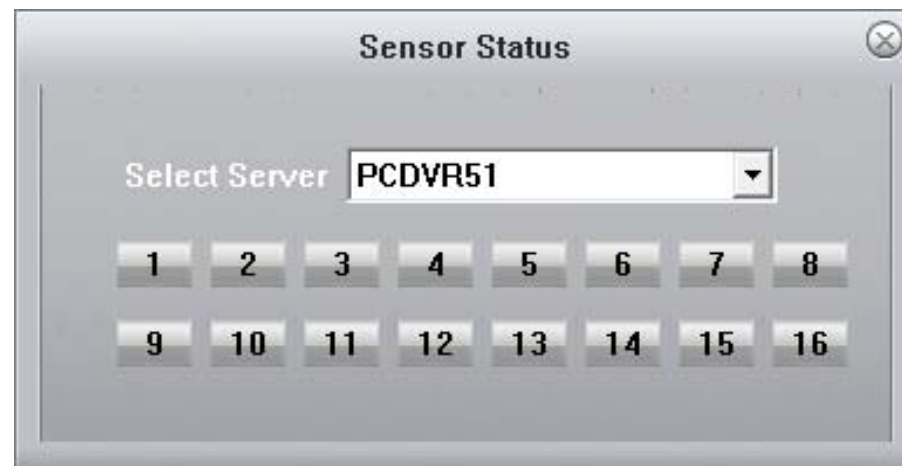
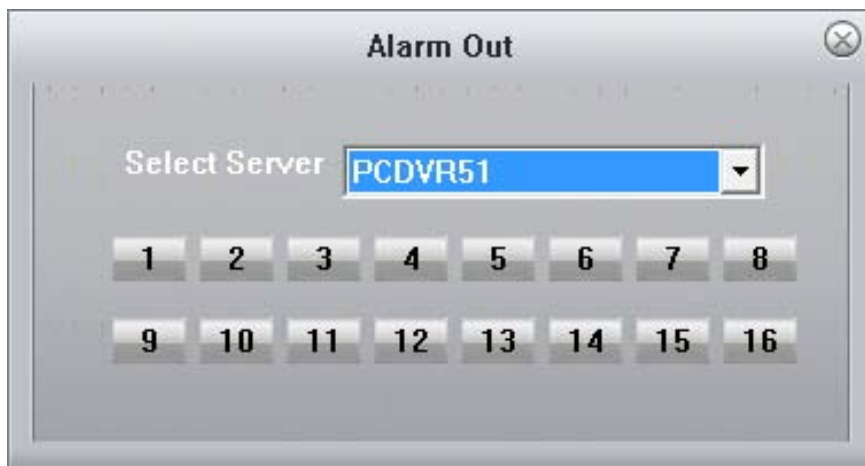
Select “Remote Chat” in main operation menu to bring up following VoIP interface.

Select a server from dropdown list then press “Start Talk” button to begin two way voice talk. Press “End Talk” button to end conversation.



3.4.5 Alarm Out

Select “Alarm out” in main operation menu to bring up the relay out (DO) control panel. You can select a server from the drop-down list and then press the relay out port number button to perform remote relay out control. The function is the same as you press the relay out control button in the site of server.



3.4.6 Sensor status

Here you can select a server and view the sensor status of the server

3.4.7 Alarm Keep

Check-on this option to hold on the alarm video.

3.4.8 Alarm Check

Check-on this option to make the software initially check alarms of the servers added into the map.

3.4.9 Alarm Loop

Check-on this option to make E-map to display the alarm cameras in sequence when the amount of alarm cameras is more than the amount of video windows.

Note: To display video of alarm cameras, you should setup the “Pop Video” for the Servers/cameras in System Setup interface firstly, and then check-on this option here.

3.4.10 IP Matrix Setup and Operation

Please refer to “IP Matrix Operation Guide”

3.4.11 Log Search

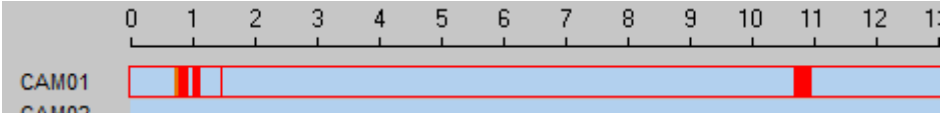
Log Search features with alarm events link to video. It greatly helps system administrator/operator to find alarm event and the moment linkage video rapidly. You can use Search Condition to filter alarm event. Double click the alarm event item in left Content List, the linked alarm video will show up in the video window. The video is coming from video server. If there is no record video or network speed is too low. The video window will turn to black.



Set a start time in second to display video refer to the alarm start time. For example, “-3” means display video from 3 seconds before the alarm happened.




Set saving path to backup the playing video.



Display all cameras record info in the server. You can change other camera to display video by double click the time bar area.

Log Search

00:44:10-00:44:15	Channel cam01	Alarm Type Motion Detection
00:45:36-00:45:41	Channel cam01	Alarm Type Motion Detection
00:48:10-00:48:14	Channel cam01	Alarm Type Motion Detection
00:48:53-00:49:02	Channel cam01	Alarm Type Motion Detection
00:49:21-00:49:25	Channel cam01	Alarm Type Motion Detection
00:50:42-00:51:13	Channel cam01	Alarm Type Motion Detection
00:51:31-00:51:35	Channel cam01	Alarm Type Motion Detection
00:51:49-00:52:00	Channel cam01	Alarm Type Motion Detection
00:52:46-00:52:53	Channel cam01	Alarm Type Motion Detection
00:53:17-00:53:24	Channel cam01	Alarm Type Motion Detection
00:53:38-00:53:42	Channel cam01	Alarm Type Motion Detection
00:54:15-00:54:22	Channel cam01	Alarm Type Motion Detection
01:01:00-01:01:07	Channel cam01	Alarm Type Motion Detection
01:01:34-01:01:45	Channel cam01	Alarm Type Motion Detection
01:02:04-01:02:15	Channel cam01	Alarm Type Motion Detection
01:03:10-01:03:16	Channel cam01	Alarm Type Motion Detection
01:03:30-01:03:39	Channel cam01	Alarm Type Motion Detection
01:04:01-01:04:09	Channel cam01	Alarm Type Motion Detection
01:04:41-01:04:52	Channel cam01	Alarm Type Motion Detection
01:05:05-01:05:18	Channel cam01	Alarm Type Motion Detection
01:05:33-01:05:42	Channel cam01	Alarm Type Motion Detection
01:05:57-01:06:04	Channel cam01	Alarm Type Motion Detection
01:07:08-01:07:24	Channel cam01	Alarm Type Motion Detection
01:07:37-01:07:51	Channel cam01	Alarm Type Motion Detection
01:28:40-01:28:45	Channel cam01	Alarm Type Motion Detection
10:40:12-10:40:17	Channel cam01	Alarm Type Motion Detection
10:43:33-10:43:54	Channel cam01	Alarm Type Motion Detection
10:44:22-10:44:28	Channel cam01	Alarm Type Motion Detection
10:44:45-10:44:58	Channel cam01	Alarm Type Motion Detection
10:45:32-10:45:41	Channel cam01	Alarm Type Motion Detection
10:45:53-10:45:58	Channel cam01	Alarm Type Motion Detection
10:48:06-10:48:11	Channel cam01	Alarm Type Motion Detection
10:50:25-10:50:33	Channel cam01	Alarm Type Motion Detection
10:50:54-10:51:04	Channel cam01	Alarm Type Motion Detection
10:51:17-10:51:24	Channel cam01	Alarm Type Motion Detection
10:51:44-10:51:49	Channel cam01	Alarm Type Motion Detection
10:52:45-10:52:49	Channel cam01	Alarm Type Motion Detection
10:52:59-10:53:05	Channel cam01	Alarm Type Motion Detection
10:53:16-10:53:23	Channel cam01	Alarm Type Motion Detection
10:54:19-10:54:24	Channel cam01	Alarm Type Motion Detection
10:54:40-10:54:44	Channel cam01	Alarm Type Motion Detection
10:55:03-10:55:09	Channel cam01	Alarm Type Motion Detection



Double click here to display video

Select Date:

Start Time:
 End Time:

Server List:

Channel:

Search Condition:

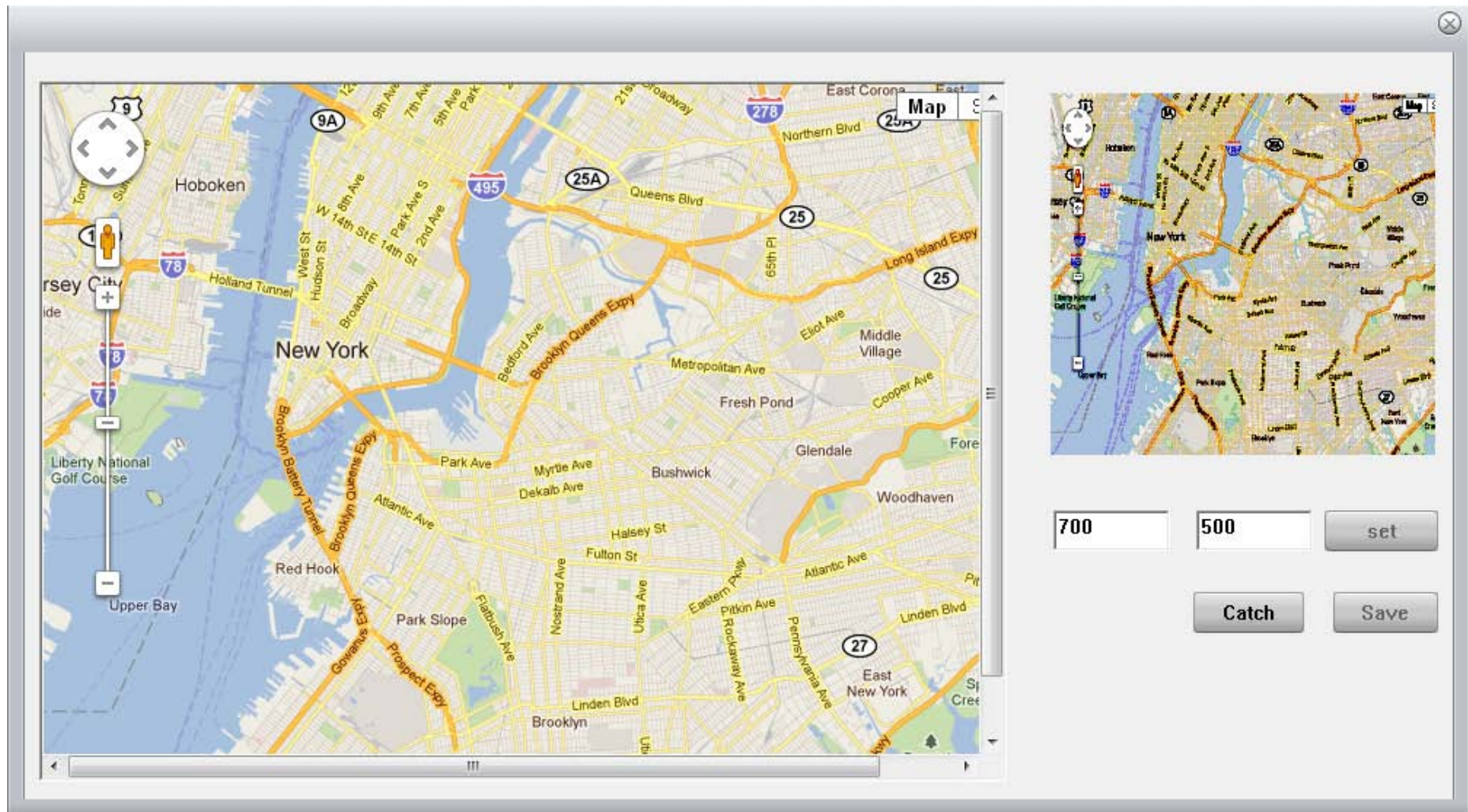
Preview Time:

Save Path:

00:50:15
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

CAM01	
CAM02	
CAM03	
CAM04	

3.4.12 Open Google Map



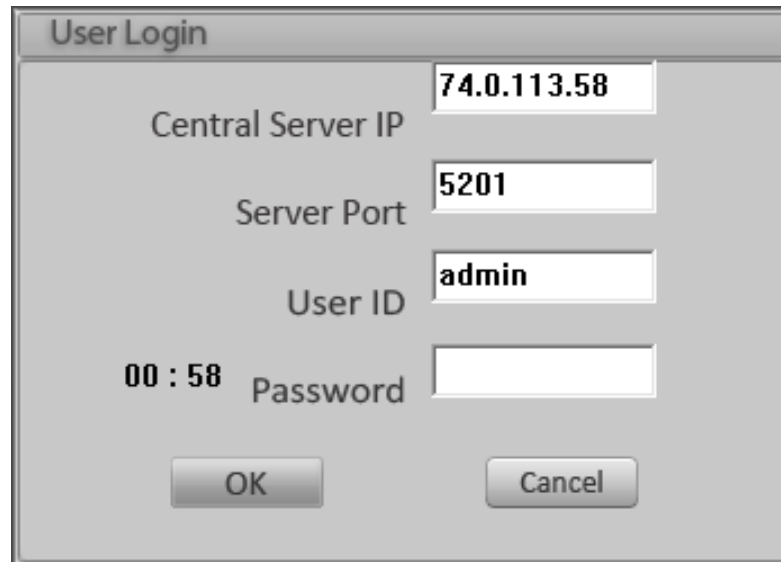
Locate Google Map to the area you want to put the servers, then set the width and height in pixels (should be from 1024*768 to 4096*3072 pixels). Click “Set”, then “Catch” to grab a new Map (Main Map). Save it and change the main Map in Map setup. If you set higher resolutions more than the map displaying area, you should continuously click “Catch” button until “Save” button become activated.

4.1 Login to CMS Client

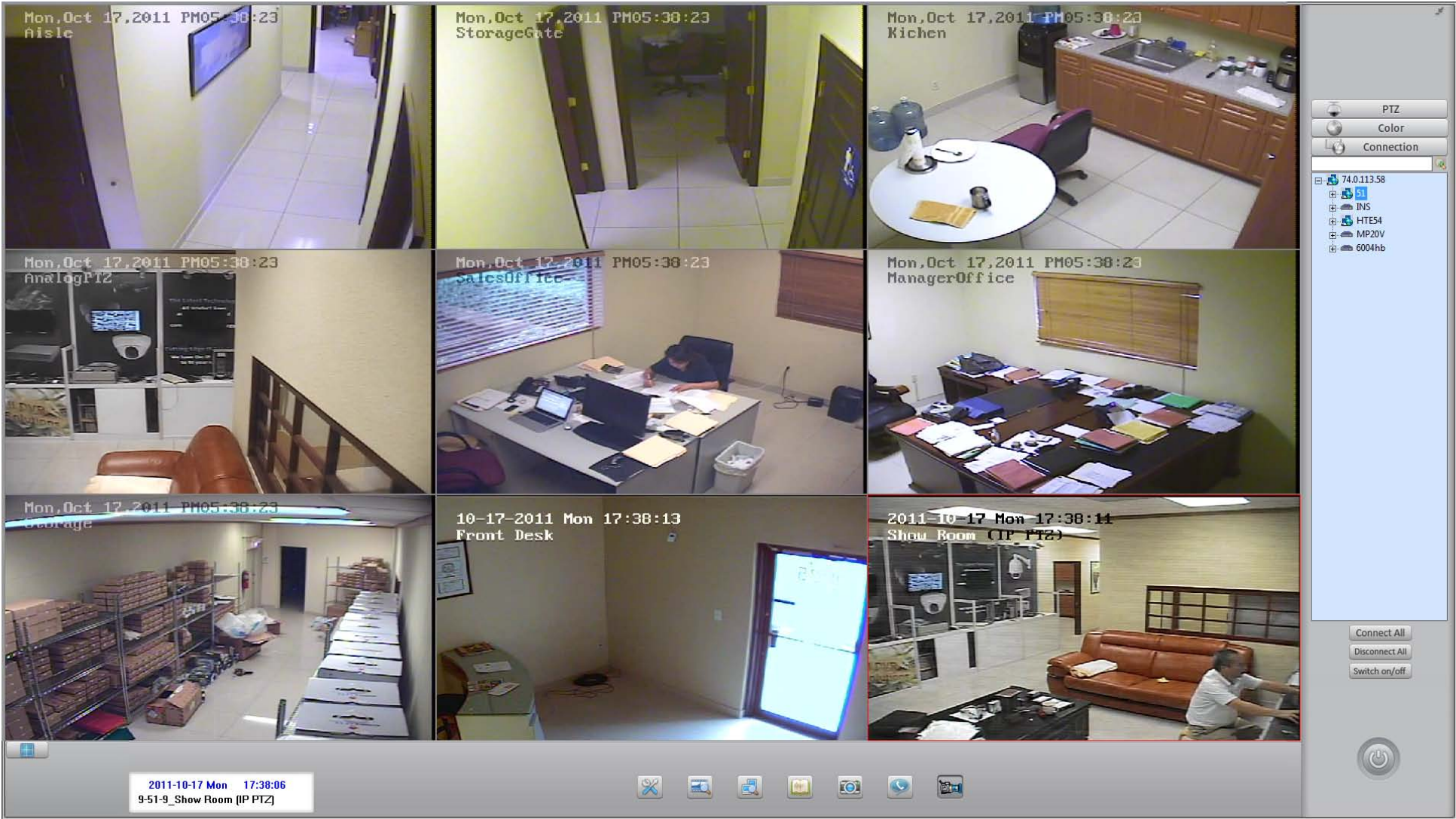


After installation CMS Client, there is an icon on Windows desktop. Click it to run the CMS Client program, the following login diagram shows on screen. To login to the CMS Client, you must input Central Server IP address, Central Server Port, valid User ID and password.

Notes: CMS Client program works with the user right of login ID. That means CMS Client can only perform the operations that CMS Central Server assigns to the login user.

The image shows a 'User Login' dialog box. It has a title bar with the text 'User Login'. Inside the dialog, there are four input fields with labels to their left: 'Central Server IP' with the value '74.0.113.58', 'Server Port' with the value '5201', 'User ID' with the value 'admin', and 'Password' which is empty. To the left of the 'Password' field, there is a timer display showing '00 : 58'. At the bottom of the dialog, there are two buttons: 'OK' and 'Cancel'.

4.2 Main interface





Click this button to change split viewing mode



Manual record button



System setup button.



Local playback button



Remote playback button.



Search log button



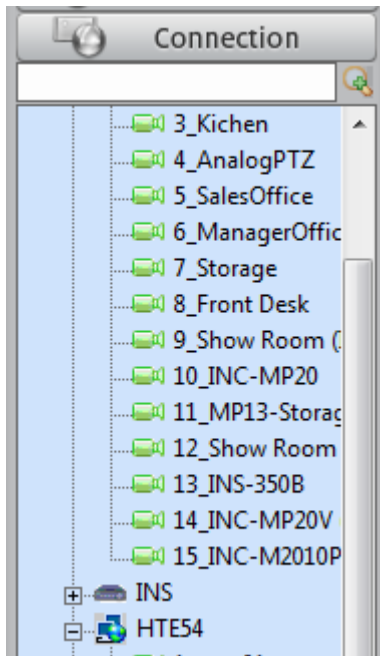
Remote talk ON/OFF button,



Capture image button

2011-10-17 Mon 17:38:06
9-51-9_Show Room (IP PTZ)

Display Date & Time. Current active window and connection information, from left to right: window number – server name – camera number in server – camera name.



Input any word to search camera in logic from whole camera list. If there is no search result, the connection list becomes empty. Delete the input word and click search button again. The connection list will recover to original status.

List server name and camera name

Double click the camera icon to add it into current active viewing window
The connecting camera icon indicates with a check mark

4.3 PTZ control



Call preset button



Blow (wiper) on/off button



Light on/off button



Zoom, Focus and Iris control button



PTZ direction and auto-pan button



4.4 Color & Audio adjust

Move the slider to adjust image color and audio volume.

From left to right: Brightness, Contrast, Tone, Saturation and Audio volume.

Click the color icon to restore default value.

Click the audio button to turn on / turn off the audio.

Note: The color adjustment operation only take effective in Stream Server, it does not change the server color settings.

4.5 Local Setup

System Setup

Record Data Manage **Auto** Connection Lost Auto Recovery **After 60s**

Monitor viewing mode **Auto Mode**

DVR Keyboard Port **Disable** Default Stream Type **MainStream**

Switch Setup

Viewing Window **Window1**

Switch Interval **5** Sec

Stream Type **MainStream**

StorageGate

- PCDVR51
 - Aisle
 - StorageGate**
 - Kichen
 - AnalogPTZ
 - SalesOffice
 - ManagerOffice
 - Storage
 - Front Desk
 - Show Room (IP PTZ)
 - INC-MP20
 - MP13-Storage Room
 - Show Room Aisle
 - INS-350B
 - INC-MP20V / M...

OK Cancel

Double-click the camera to add-in viewing window

Record Data Manage **Auto** Setup auto-overwrite record data or manually delete record data after HDD is full

Monitor viewing mode **Normal Mo** Set wide screen mode or normal screen mode.

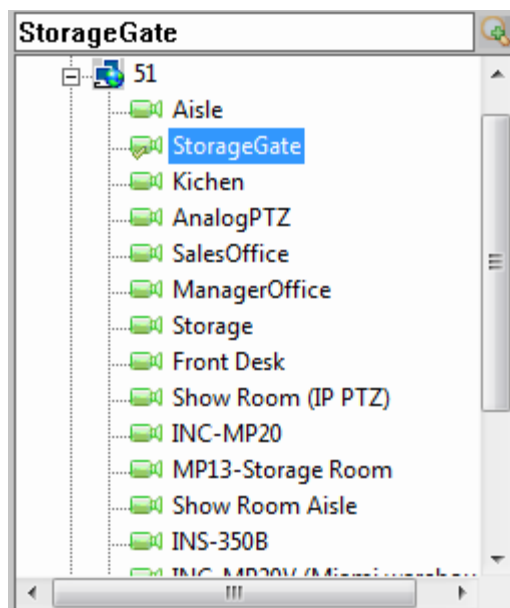
Connection Lost Auto Recovery **After 60s** Set a time for CMS Client to recover the offline connection.

DVR Keyborad Port **Disable** Setup IKB-2988 PTZ keyboard COM port or disable keyboard

Default Stream Type **MainStream** Choose default video stream type from server.

Switch Setup enable CMS Client to connect more than 16 cameras by switch viewing. You can put multiple cameras to display in one window. In main interface click button **Switch on/off** to run sequential switch.

Viewing Window **Window1** Select a viewing widow to configure switch view. Expand the camera list then double click the camera icon to add-in.



Fast search camera

Input any word to search camera in logic from whole camera list. If there is no search result, the connection list becomes empty. Delete the input word and click search button again. The connection list will recover to original status.

Double click the camera icon to add it into above viewing window for sequential switch viewing
The selected camera icon indicates with a check mark


Switch Interval **5** Sec Set sequential switch interval time.

Stream Type **MainStream** ▼

Choose video stream type for the switch viewing camera.


4.6 Local Search

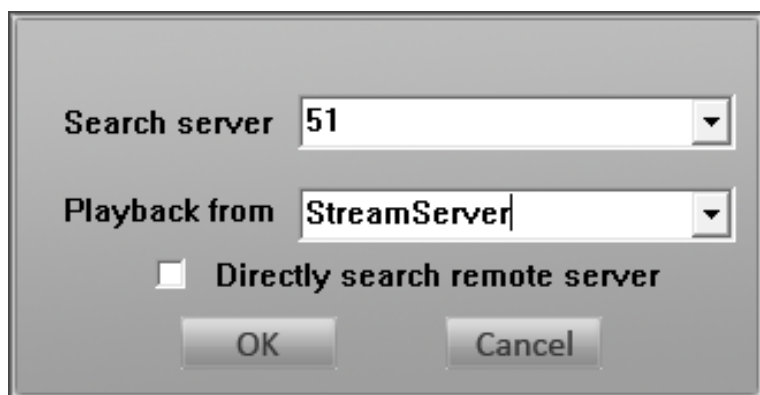


In main interface, click button  to playback recorded video saved in local HDD. The playback interface is exactly the same playback interface as in Hybrid DVR Server or Live Center. Please refer to Hybrid DVR Server & Live Center Operation Guide for more details.

4.7 Remote Search



In main interface, click button  to playback recorded video saved in remote server. If you don't check-on "Directly search remote server", the playback video will come from stream server. The playback interface is exactly the same playback interface as in Hybrid DVR Server or Live Center. Please refer to Hybrid DVR Server & Live Center Operation Guide for more details.



The dialog box contains the following elements:

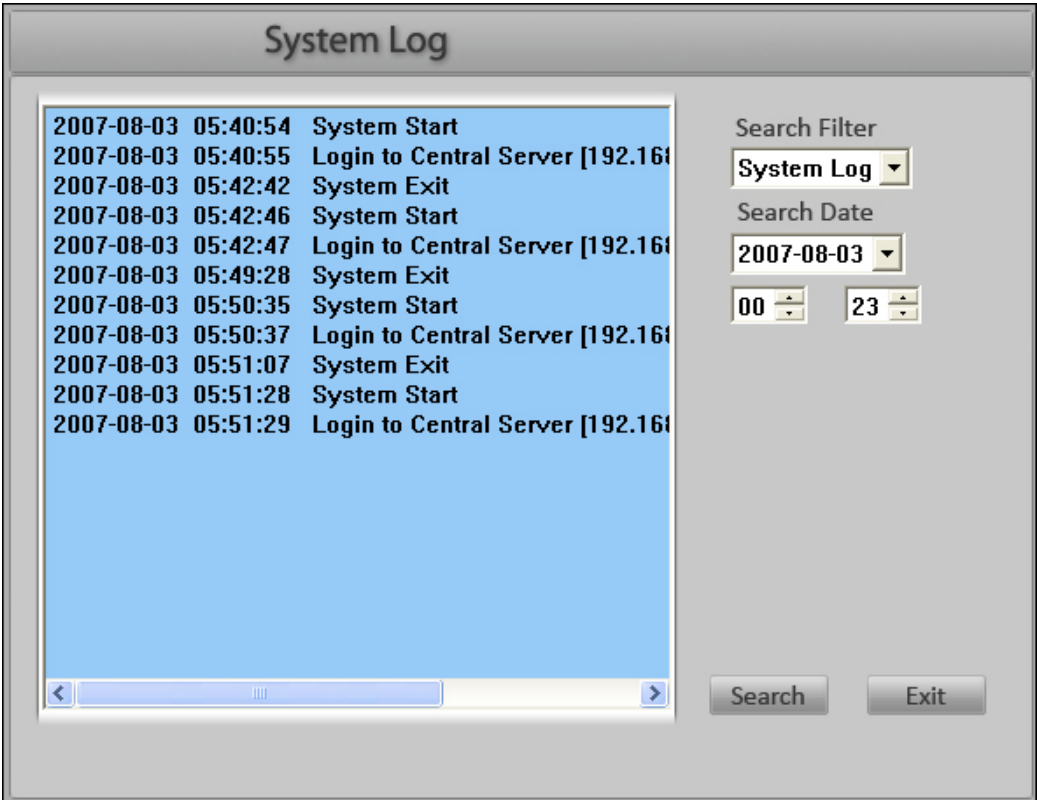
- A label "Search server" followed by a dropdown menu showing "51".
- A label "Playback from" followed by a dropdown menu showing "StreamServer".
- A checkbox labeled "Directly search remote server", which is currently unchecked.
- Two buttons at the bottom: "OK" and "Cancel".

4.8 IP Matrix Setup and Operation

Please refer to "IP Matrix Operation Guide"

4.9 System Log

In main interface, click button  to view local system log.
See right picture.



Technical Support Information

Please fill in this form in order to get prompt technical service in case of an emergency.

Item	Description
Software Name	
Software Version	
Windows OS	<input type="checkbox"/> NT <input type="checkbox"/> 2000 <input type="checkbox"/> XP <input type="checkbox"/> 2003 <input type="checkbox"/> VISTA <input type="checkbox"/> WIN7
	<input type="checkbox"/> 32 bit <input type="checkbox"/> 64 bit
Computer hardware list	Mother board: CPU: Memory: Display card: HDD:
Purchasing date	
Dealer's Contact info	Company name: Technical Engineer: Tel: Fax: Email: