

Menu

JVS-D7000 Standalone DVR Instructions

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JVS-D7000 Standalone DVR Instructions

1. Introduction

1.1 Product Description

The standalone DVR uses embedded processor and embedded OS with advanced IT technologies to make the whole standalone DVR to be steadier. This standalone DVR keeps digital video and audio recorder and digital video and audio server functions. It can work individually and with other equipments to form a network. The standalone DVR is used widely, such as banks, communication industry, electrical power industry, traffic, factories and so on.

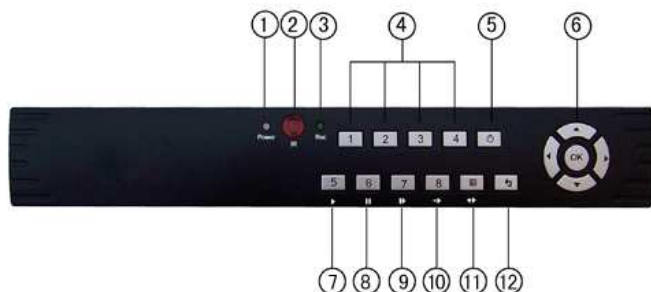
1.2 Functions

- Windows operating interface, easy to let user operate.
- D1 previewing resolution and CIF compression resolution
- Support 4 channels video and audio real time previewing and compression
- Support snapshot during previewing and playbacking
- H. 264 compression standard and adjustable compression quality
- Adjust the location of OSD
- Support to adjust image quality of singal channel
- Support five monitor resolutions
- Support Mobile Detection
- Support Privacy Area Function
- Support PTZ, preset and software cruise of high speed dome
- Support the internal operation of camera
- Support the exchange of the orders of PTZ, easy for engioneering
- Support alarm input and output
- Support software update
- Support both static and dynamic settings of network parameters, PPPoE and remote link statistics
- Support Mobile Monitoring, low mobile phone requirement, adjustable image quality and frame rate
- Support Talking between host-end and client-end
- Support multi-language system exchange
- Support to record and search system log
- Support User Management to limit rights
- All settings with immediate effect, except Restore System and Software Update
- Support preview, PTZ control, playback and download remotely
- Client-end can choose Client-end software (JDACS) or IE ActiveX to view host-end cameras

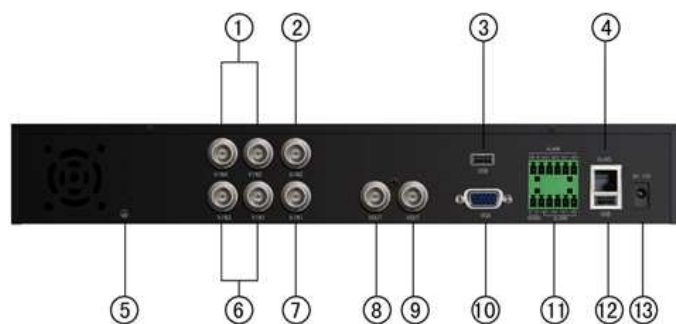
1.4 Specifications

Model	JVS-D7004	JVS-D7008
OS	Embedded Linux	Embedded Linux
Video Standard	PAL / NTSC	PAL / NTSC
Compression Standard	H.264	H.264
Recording Type	Manual, Scheduled, Alarm, Motion Detection	Manual, Scheduled, Alarm, Motion Detection
Searching records	Time, Event, Channel, System Log	Time, Event, Channel, System Log
Backup Type	Network Backup, USB Backup, SATA Backup	Network Backup, USB Backup, SATA Backup
Video Input	4 Channels BNC	8 Channels BNC
Video Output	1 Channel BNC and 1 Channel VGA	1 Channel BNC and 1 Channel VGA
Audio Input	4 Channel BNC	8 Channel BNC
Audio Output	1 Channel BNC	1 Channel BNC
Previewing Resolution	D1: 702x576□PAL□□702x480□NTSC□	D1: 702x576□PAL□□702x480□NTSC□
Playback Resolution	CIF: 352x288□PAL□□352x240□NTSC□	CIF: 352x288□PAL□□352x240□NTSC□
Motion Detection	Up to 4 independent detection area in each channel, Multi-level sensitivity.	Up to 4 independent detection area in each channel, Multi-level sensitivity.
Layout	1 and 4 Screens	1, 4 and 8 Screens
Total Frame Rate	100 fps (PAL), 120 fps (NTSC)	200 fps (PAL), 240 fps (NTSC)
Saving Records	Local HDD and Remote Network	Local HDD and Remote Network
Local Playback	1 Channel or 4 Channels Playback	1 Channel or 4 Channels Playback
Alarm Input	Up to 32 Input	Up to 32 Input
Alarm Output	No Limit	No Limit
PTZ Control	RS485	RS485
HDD Port	2 SATA ports, Up to 2TB per one	2 SATA ports, Up to 2TB per one
Network Port	RJ45 10M/100M Adjustment Port	RJ45 10M/100M Adjustment Port
USB Port	2 USB	2 USB
Power	12V 5A	12V 5A
Size	340mm*332mm*56mm	340mm*332mm*56mm

2. Panel Instruction



- | | | |
|-----------------|-----------------|----------------------|
| 1. Power Light | 2. IR Light | 3. Recording Light |
| 4. Channel Keys | 5. Power On/Off | 6. Directions and OK |
| 7. Play | 8. Pause | 9. Play per frame |
| 10. Slow Play | 11. Fast Play | 12. Return |



- | | | |
|--------------------|------------------|--------------------|
| 1. Video Input 1~2 | 2. Audio Input 1 | 3. USB |
| 4. RJ45 | 5. Ground | 6. Video Input 3~4 |
| 7. Audio Input 2 | 8. Audio Output | 9. Video Output |
| 10. VGA | 11. RS485 | 12. USB |
| 13. Power | | |

3 Installation Instruction

Before installation, make sure earth connection good. Link the DVR power adapter and turn on the switch on backpanel of DVR.


If users use DVR to record locally, at least one HDD is necessary. If HDD does not be formatted, it is necessary to format HDD firstly. Menu → System Settings → HDD → Format.

4. Mouse Instruction

Mouse can use any one USB port. It is suggestion to use the USB 1.1 port on backpanel because the USD 2.0 port on frontpanel can be used to backup to external USB device.

The interface of DVR is similar to Windows. Left-click means selected or OK, and right-click means cancel or exit.

While previewing images, double left-click mouse to single-channel preview and double left-click again to return to multi-channel preview.

When menu is shown on screen, right-click or click  means close the menu window or exit.

5. Menu Structure

Menu mainly includes check box, select box, edit box and buttons.

(1) Check box: “√” stands for valid and “□” stands for invalid.

(2) Select box: Left-click mouse.




(3) Edit box: Enter objective content in edit boxes.

a. Exchange inputting content by left-clicking “”.

b. Input target content by using mouse.

(4) Buttons

3.1 Previewing

The previewing interface will be shown after starting system.  means recording.  means that this channel is set alarm, but is not triggered.  means the alarm is triggered.  means client-end is linking this channel.

3.2 User Login

After starting system, right-click to log in.



The default Username is “admin” and Password is empty. It is suggestion to change username and password in User of System.

If you forget your own username and password, you can send the S/N code and user information to Support Email to get a temporary password, you can login by username “jdv” and temporary password. The expiry period is 3 days.

3.4 Main Functions

After login, right-click to enter Main Menu.

System: System settings

PTZ Control: Control PTZ

Record: Record manually

Playback: Playback recording files

Network: Network settings

Snapshot: Snapshot while previewing and playback

Set Video: Adjust video images quality



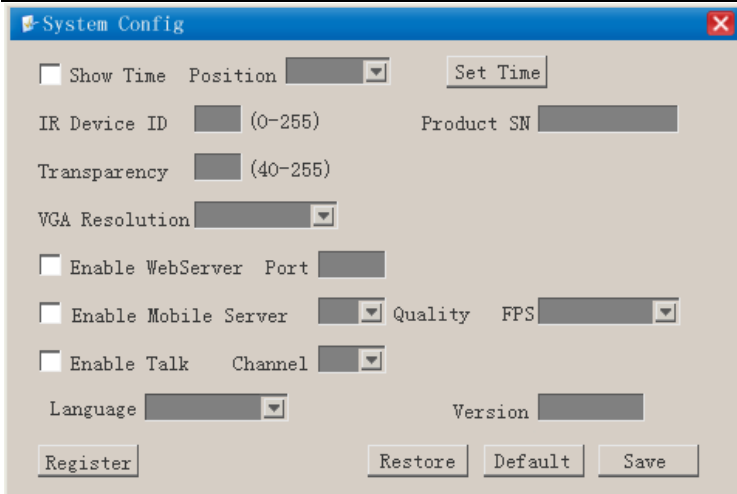
3.5 System

System includes System Settings, Channel Settings, User Management, HDD Management, System Log, Software Update, Shapshot Management and Alarm.



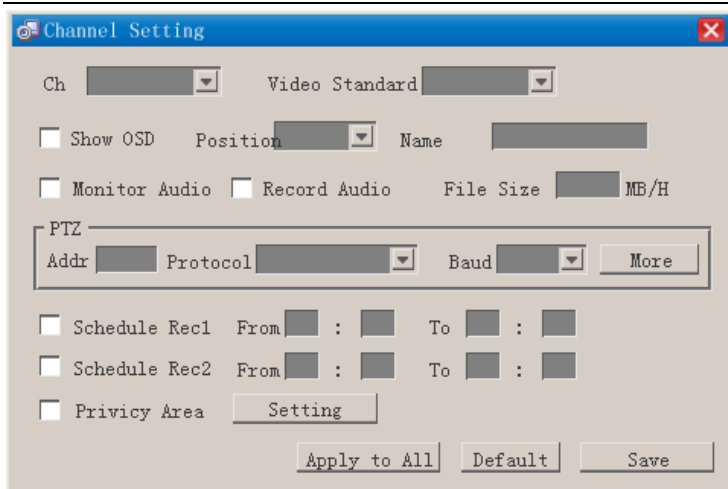
3.5.1 System Settings

- Check “Show Time”, the time can be shown on screen. Time can be shown on top or bottom. Click “Save” to become effective.
- IR Device ID means the code for remote control. Only when IR Device ID and remote control use the same code, can the remote control control Standalone DVR. Click “Save” to become effective.
- Transparency: The smaller value, more transparent. Click “Save” to become effective.

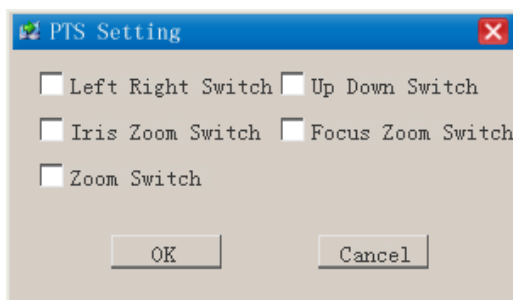


- VGA Resolution includes 800*600, 1024*768, 1280* 1024, 1280*768 and 1440*900. Click “Save” to become effective.
- Enable WebServer is to let user use IE to view remotely. Default port is 80, user can use IP address to view remotely. If user changes other port, for example 88, user must add port number after IP address, for example <http://192.168.8.245:88>. The detail IE surveillance instruction is according to **4.2 IE**. Click “Save” to become effective.
- Enable Mobile Server is to let user use mobile phone to view remotely. Image quality and FPS can be adjusted according to user mobile network quality. Image quality includes high, middle and low. FPS includes 30, 15, 8, 4 and 2. Click “Save” to become effective.
- Enable Talk to let user allow any one channel to talk with client-end software. Click “Save” to become effective.
- Language includes Chinese and English currently. More languages will be added. Click “Save” to become effective.
- Restore: Restore the whole system to be default settings.
- Default: Restore the current page to be default settings.

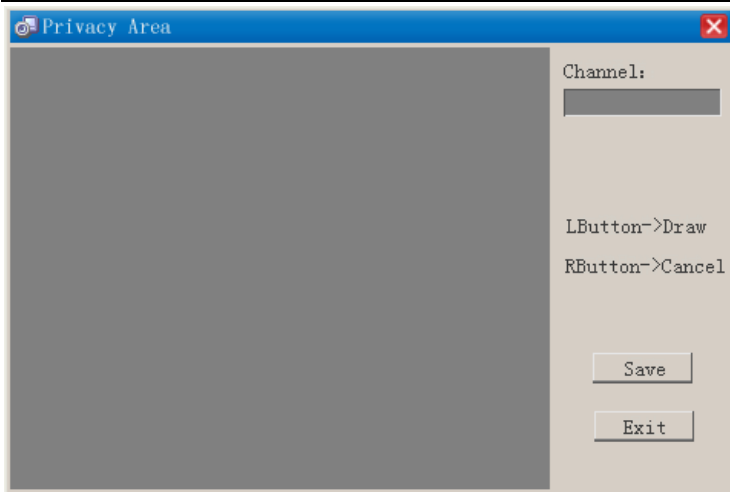
3.5.2 Channel Settings



- Choose different channel and set video standard (PAL/NTSC) according to the standard of cameras. Different standard cameras can be used mixedly. Click “Save” to become effective.
- Click “Show OSD” to let OSD to be shown on top or bottom. Click “Save” to become effective.
- Monitor Audio means enable audio while previewing. Click “Save” to become effective.
- Record Audio means enable audio while recording and playbacing. Click “Save” to become effective.
- File size can be adjusted between 100 MB/H and 500 MB/H. Click “Save” to become effective.
- PTZ settings include Address, Protocol and Baud rate. Click “Save” to become effective. More means PTZ order exchange, as follows:



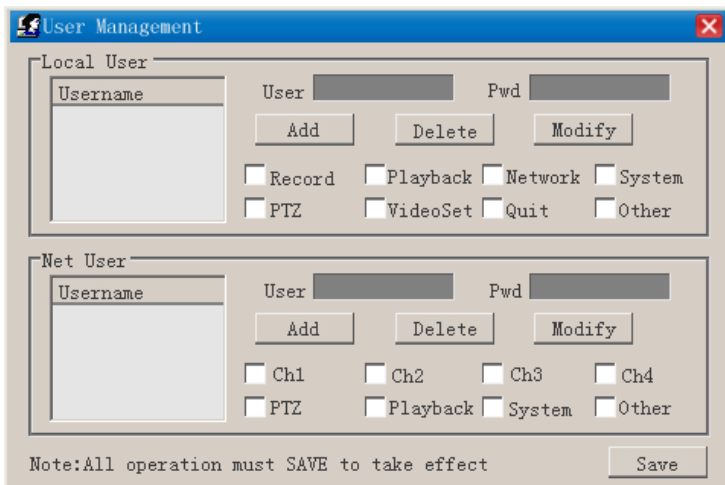
- Schedule Record can be used to choose two time period to recording every day. Click “Save” to become effective.
- Privacy Area setting is as follows:
Use mouse left-click to choose privacy area, up to 4 areas. Right-click to cancal the privacy area. After setting privacy area, click “Save” and “Exit” to save all settings.



3.5.3. User Management

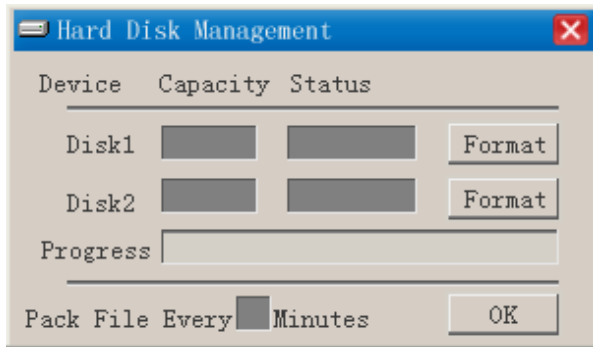
Users include Local Users and Network Users. Local Users mean the users who control host-end DVR and Network Users mean the users who control and view remotely.

- Click “Add” in User Management page to add new users
 - Input new user name
 - Input the password of new user
 - Set the rights of new user
 - “√”stands for enabling this right and “□”stands for disabling this right.
 - Click Add to save the settings of new user
- Modify User
 - Left click the target user and change the information of the target user. Click “Modify” to save all changes.
 - Notice: Only administrator can edit the rights of other users.*
- Delete User
 - Left click the target user and click “Delete” to delete the user.



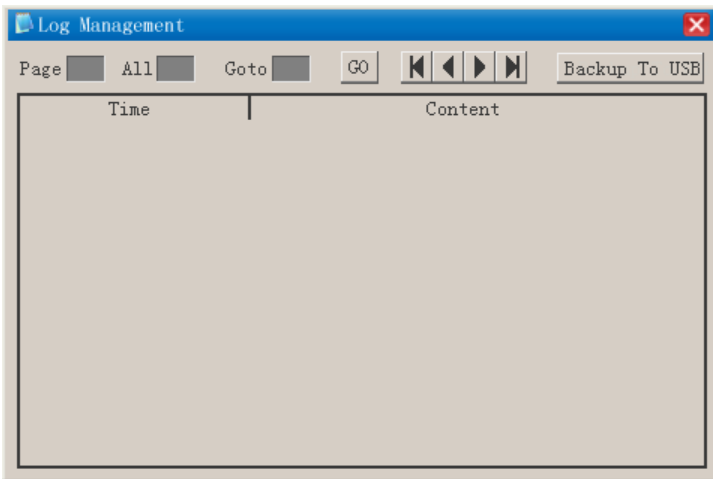
3.5.4 HDD Management

- HDD information includes Device, Capacity and Status. If status is normal, user can use directly to record and snapshot. If status is unformat, user needs to format HDD firstly.



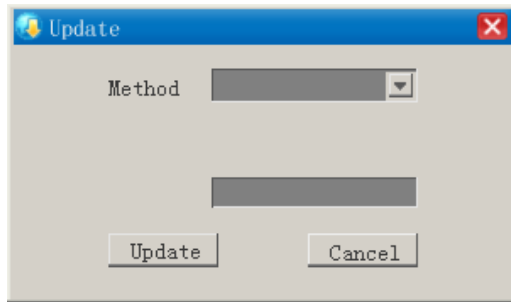
- File Packed Time can be set between 5 and 99 minutes. If 60 minutes is set, the time period of every recording file is 60 minutes.

3.5.5 System Log



- System log can be recorded page by page. Page means current page. All means the total pages of system log. If you want to check any page, enter the page no into Goto box. mean the first page, previous, next and the end page.
- System log can be backup to USB Device. *Notice: USB device needs to be FAT32 form.*

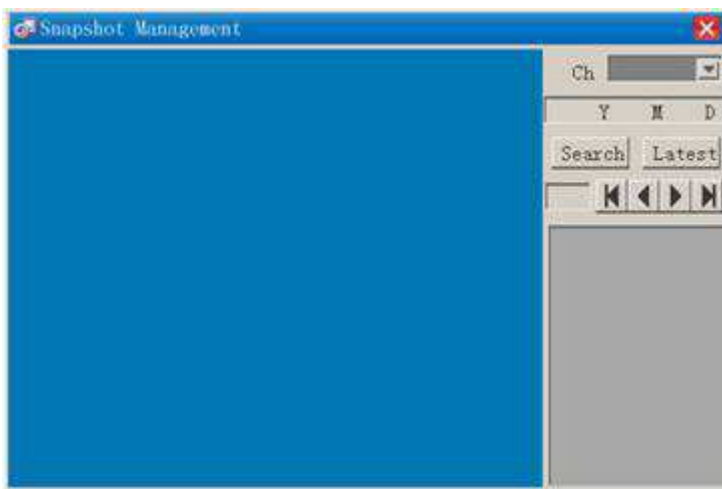
3.5.6 Software Update



The methods of updating software include USB, FTP and Jovision Website. *Notice: During update, do not stop power.*

- USB: Copy the newest software into a FAT32 form USB device, insert the USB device and click “Update”.
- FTP: Copy the newest software into the root menu of FTP server, input the IP address of FTP server and click “Update”. *Notice: The FTP must support public user.*
- Website: Choose website and click “Update”. This method is suggested.

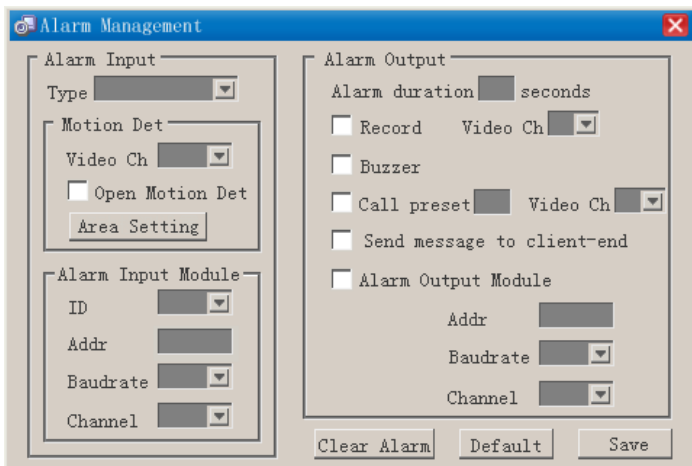
3.5.7 Picture Management



Choose channel No and time to search the snapshot pictures.  mean the first page, previous, next and the end page.

3.5.8 Alarm Management

Alarm management includes alarm input and alarm output. Alarm input includes Motion Detection and Alarm Input Module.





Motion Detection: Choose channel and Enable Motion Detection.

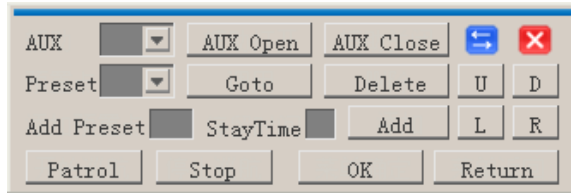


Alarm output actions include recording, buzzer, calling presets, sending message to client-end. The during time of alarm can be chosen between 1 and 999 seconds. Alarm Output Module settings include address, baud rate and channel No.

3.6 PTZ Control

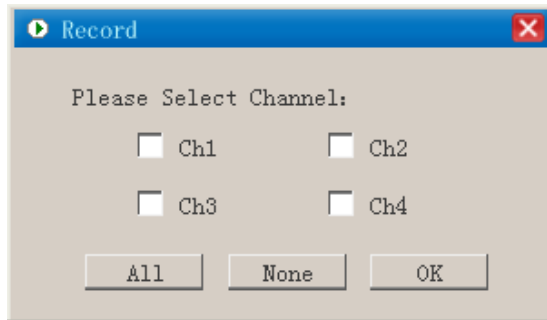


The main functions of “PTZ” includes: Direction control    , Iris control, Focus control, Zoom control and PTZ speed.  adjusts the location of control panel.



Other functions in another page (Click “More”): Preset and auxiliary functions of camera (Wiper and Lights).

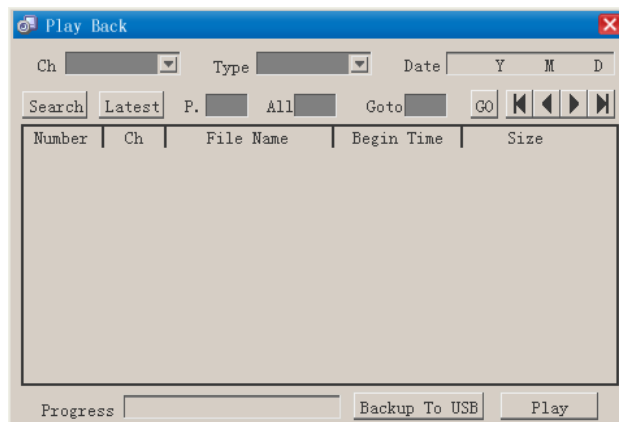
3.7 Record







All / None: Start recording all channels / Stop recording all channels.

Notice: Before recording, make sure that HDD has been formatted.  means recording.

3.8 Playback



Click “Playback” and the recording file list will be shown. Choose Channel, recording type and date to search the target recording files. The search results will be shown page by page.     mean the first page, previous page, next page and the end page.

Backup to USB Device: Choose the target recording files and click “Backup to USB Device”. Notice: Make sure the correct form and enough room in USB Device.

Play recording file: Choose the target recording file and click “Play”.



Playback Tools Bar: The playback tools bar is shown at the bottom of interface. Right-click to show/hide the playback tools bar.

Play:

Pause:

Play by Frame:

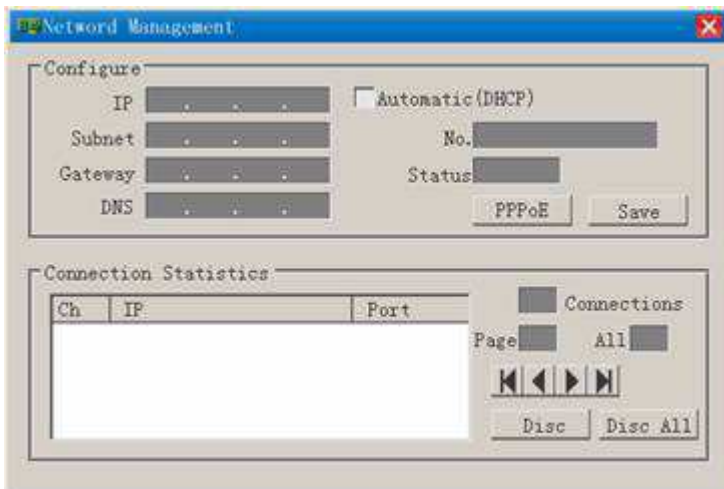
Slow Play:

Fast Play:

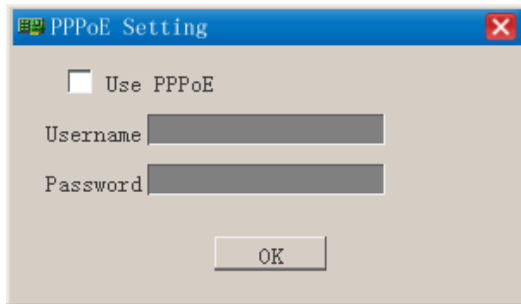
Sound On/Sound Off: Audio

Apply to All: All

3.9 Network Settings



- **Static:**
Users can input IP, Subnet code, gateway and DNS directly. Click “Save” to become effective.
- **DHCP:**
Enable DHCP to get a dynamic IP. The network configure information can be shown in configure boxes.
- **No. and Status:**
Normally, the No. box shows No. and Status shows Normal. If the No. box shows A0, it means DVR does not get No., and users need to System Setting Page to register the DVR online and restart DVR.
- **PPPoE:**
Click “PPPoE” to set Username and Password of ADSL.



3.10 Snapshot

Choose the target channel and right click to show the Main Menu. Click “Snapshot” to capture picture. The system will show an information “Channel # snapshot successfully”.

3.11 Set Video

Choose the target channel and right click to show the Main Menu. Click “Set Video” to adjust the image effect.



Use  and  to adjust the relative parameters. Click  to move the location of Video Setting box.

3.12 Shutdown

Right-click to show the Main Menu. Click Shutdown to software software shutdown.



- Logout:
In order to keep safe, when user stop operating, it is suggested to logout.
- Shutdown:
Software shutdown system. After software shutdown system, the HDD is still running, but is not written into.

If user wants to shutdown fully, user needs to turn off the button on backpanel of DVR.

- Restart:
Restart system.

Client-end Software Instruction

1. Introduction to JDCS

JDCS is slave software installed on PC with Internet access to host end. (namely "Client End ").



Double-click desktop icon to enter the login panel. The default username is "admin" and default password is empty.



Then users will enter main interface of JDCS.



2. JDCS Interface

2.1 System Menu Panel



Link All: Click to connect the client to local cameras. (Make sure you have configured [network settings](#))

Link None: Disconnect from local cameras.

Recording: Click this button and you can record the remote videos and save the recorded videos on client PC.

User can search and view the recorded files in Playback System. (Click "[Playback](#)" in the above figure for replay.)

Snapshot: Click to snapshot remote video. User can view the snapshot images in "[Snapshot Manager](#)".

Playback: User can replay recorded videos. For details please refer to "[Playback System](#)".

Advanced: Go to "[Advanced Settings](#)" for details.

Settings: Details will be introduced in "[JDCS Settings](#)".

2.2 PTZ Remote Control Panel

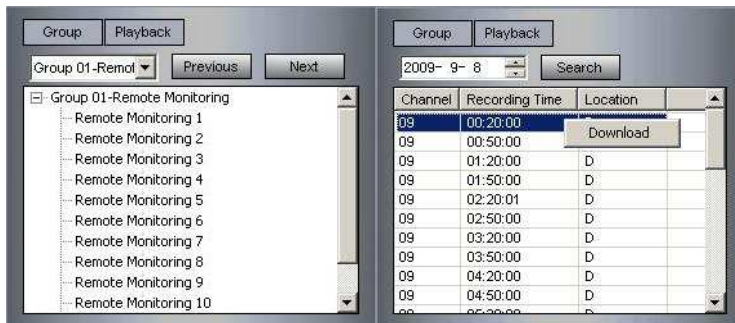
In this panel, you can remote-control speed dome or PTZ cameras at the local end.



2.3 Remote Playback/Remote Download Panel

In JDCS, users can search recorded files stored on local system and replay these files in JDCS.

- 1). Get access to local video channel and select this channel as the current channel.
- 2). Click "Search" in the below figure, recorded files of this channel on local PC will be listed.
- 3). Double click the listed files for playback.
- 4). Right-click and click "Download" to download recorded files stored on local PC onto client PC.



2.4 Master Recording Control

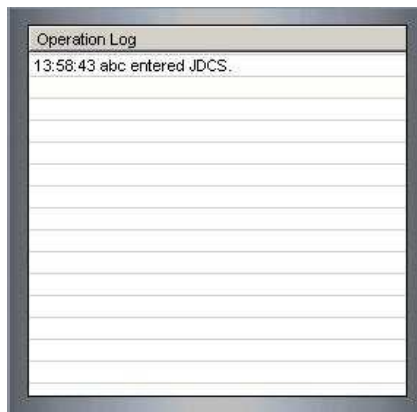
If given the right of master recording control by local users ("Users" >> "Client User Rights" >> "[Master Recording Control](#)"), users can also control recording of local PC.

Right-click in JDCS view channel, users can "**Start Master Recording**" or "**Stop Master Recording**".



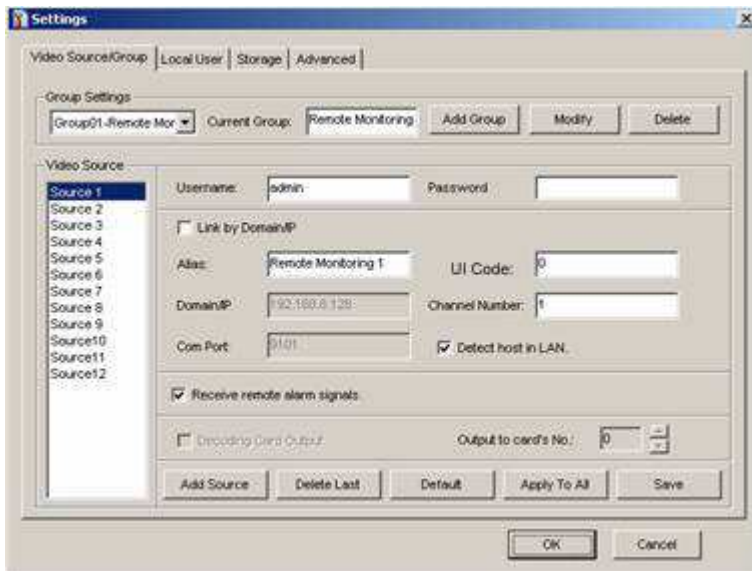
2.5 Operation Log

Operation records will be displayed in this panel.



3. JDCS Settings

3.1 Video Source/Group



Group Settings

You can add one group for each local PC. You can also modify or delete the group.

Video Source

All video sources in a group are listed in the left column. Select one video source and make settings for the source.

Username and Password

Username and password are the ID by which you can get access to local PC.

Connection with Domain/IP

For remote access, you can use domain or IP address. This connection method is suitable for access within LAN.

- 1). Uncheck "Use SECU" to activate domain/IP connection settings.
- 2). Enter domain or IP address of the local PC to access.
- 3). Input the correct Com Port. (By default, the initial communication port is 9100, and following are 9101,9102,...)
- 4). Enter SECU JDCS main interface, right click on one channel and click "Connect".

Connection with UI Code

If you want to get access to a PC DVR system out of your LAN, you can use UI code, which avoids complex settings of port forwarding or DDNS for connection between LANs.

For detailed settings please refer to "[UI Code Settings in JDCS](#)".

Receive remote alarm signals

Check this function to enable JDCS to receive alarm signal from local system (DVR).

Decoding Card Output

Check "Decoding Card Output" to enable remote video to be displayed on TV monitors or TV matrix.

Functional Buttons

Add Source: Add a new video source to a group.

Delete Last: Delete the bottom video source.

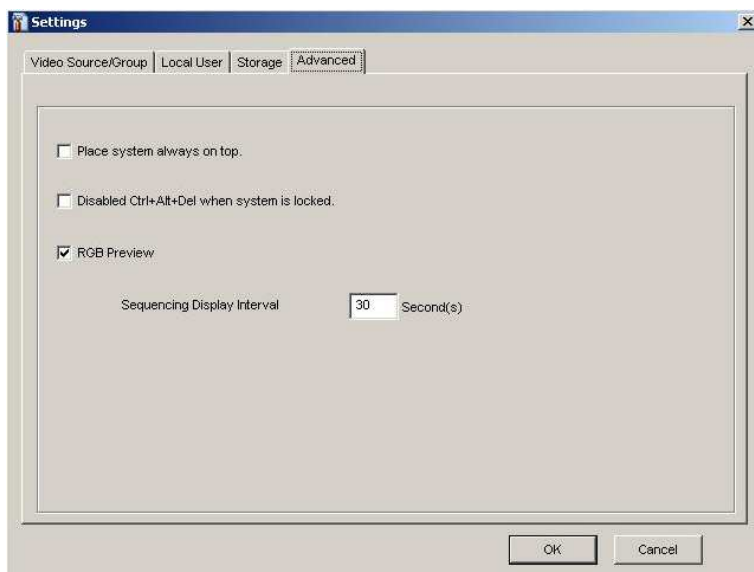
Default: Restore to default settings.

Apply To All: Apply current settings to all sources.

Save: Save the configurations to video sources.

Note: System drive is not available for storage!

3.4 Advanced



Place system always on top

Check this option to make JDCS always on top.

Disable Ctrl+Alt+Del when system is locked

Disable these hot keys to protect system from illegal operations.

RGB Preview

This preview mode can get better remote connection over network.

Sequencing Display Interval

Window display can be viewed in turn. You can set sequencing display interval by second.

4. Advanced Settings



Switch User : Switch to user with different rights.

Close All Audios : Close audio function of all channels.

Lock System : Lock JDCS system.

Unlock System : Unlock JDCS system.

Group Sequencing Display : Sequencing display channels group by group.

Operation Log : Operation records and software information.

Snapshot Manager : Manage, retrieve and view snapshot images.

Stop Sound Card Alarm : Stop sound card alarm upon different conditions.

Clear Operation Log : Clear operation logs without deleting them.

Screen Splits : Five view layouts are available: 1 channel view, 4 channel view, 9 channel view, 16 channel view and 25 channel view

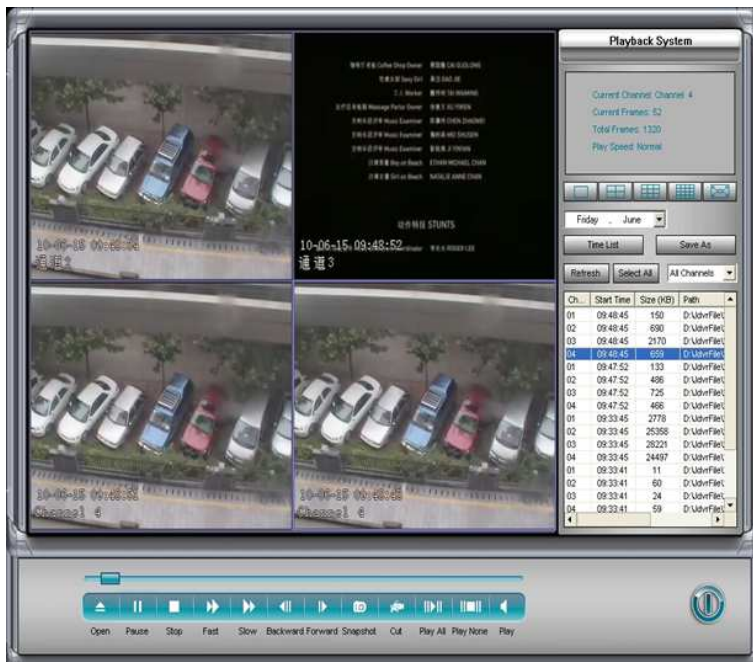
About JDCS : Software version and copyright information.

5. Playback System

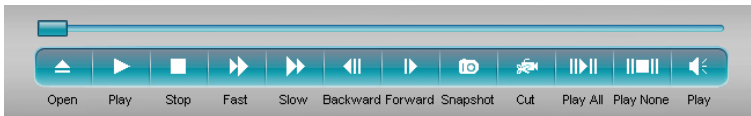
Both JDVR/JDCS have built-in access to Playback System, which can manage, retrieve and playback recorded files locally and remotely.

Click button "Playback" in JDVR and JDCS, playback system will be opened.

Playback system with special compression algorithm is applied exclusively to DVR and JDCS, you can also download Media Player plugins from our website to playback the recorded files.



5.1 Playback Functions



Playback control buttons:

Open: Open recorded files.

Play/Pause: Click "Play" to start playback of recorded videos, then click "Pause" to pause.

Stop

Fast: Fast Play

Slow: Slow Play

Backward: display the video backward by seconds

Forward: display the video frame by frame

Snapshot: Capture images from displaying video, the captured images can be checked in "Snapshot Manager".

Cut: When the recorded file is being replayed, you can cut the video. Click "Cut" at the expected point and click "Cut" again to stop cutting, and Save As dialog will be displayed automatically.

Play All: Select videos and playback them all simultaneously.

Play None: Stop playback all videos.

Play: Play audio of recorded videos.

5.2 Playback Status

On the right side of the JDCS main interface, you can get system status information. They are as follows:

Video Playback Information



Current Channel: Current window in playback.

Current Frames: Number of the frames in display for each packed files.

Total Frames: Recorded files are packed every 30 minutes, so the total frame refers to the size of the packed files. The value is constant. At a speed of 25fps, the total frame is $30 \times 60 \times 25 = 45000$.

Play Speed: The lowest speed is 10 percent of the normal speed and the highest is 8 times the normal speed.

Recorded File Searching Panel

Recorded video files can be searched via two modes: **File List** and **Time List**.

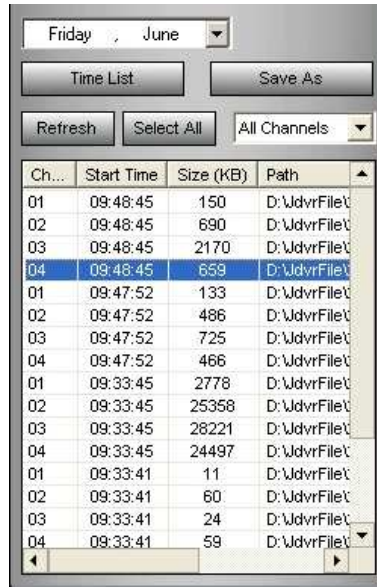
1. File List Mode

This mode is shown as the following figure.

Select date, channel and click "Refresh", and the expected recorded files will be listed in the list.

Then double click the list file(s) for playback.

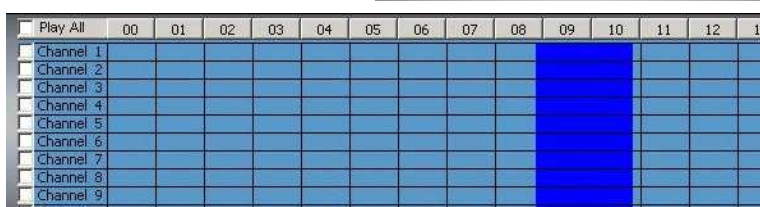
You can also select a file in the list and click "Save As" to save this file to your expected path.



2. Time List Mode

Time List Mode is shown as figures below:

(In File List Mode, click "Time List" button to switch to Time List Mode, vice versa)



Double click on the blue area to playback recorded files.

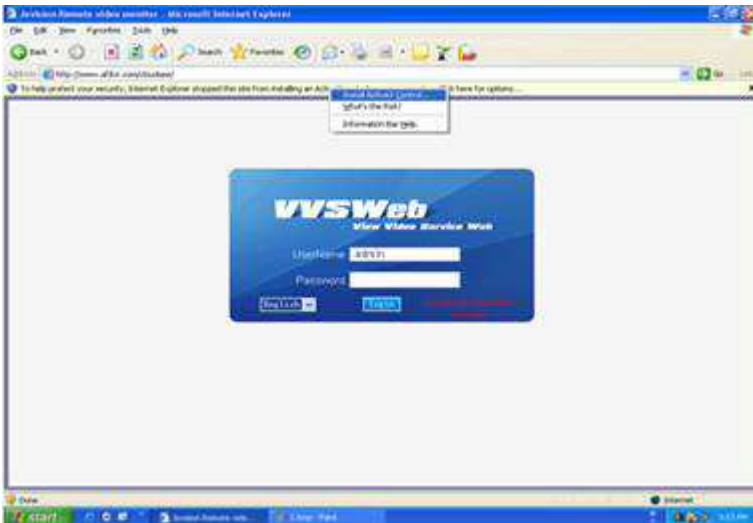
IE ActiveX

For most clients, they usually use IE browser to view cameras remotely. The main progress includes three steps:

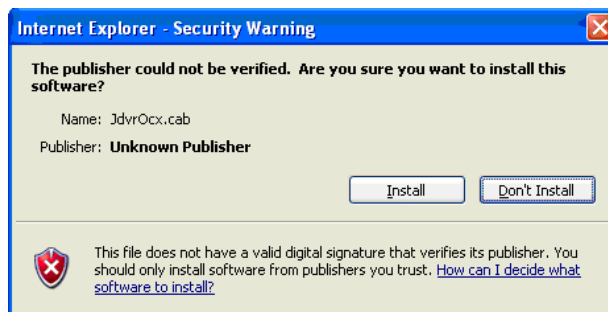
1. Install IE ActiveX on website
2. Use IE ActiveX

1. Install IE ActiveX on website

Open IE browser



Click "Install ActiveX Control" and Install IE ActiveX.



Or click "Download Installation package" to download the IE ActiveX and install locally.

2. Use IE ActiveX

After installing IE ActiveX, you can view cameras remotely in IE browser.



Input Username and Password. By default, Username is "admin", no password. And click "login" enter IE ActiveX interface.

Note: The User Name and Password should be the same as the User Name and Password in Network User of DVR Settings.



Click "Link All" at the right side of the control panel to remote view the cameras.



If you want to set up more parameters, you can click "Settings" at the right side of control panel.



1. Connection with UI Code

If you want to get access to a PC DVR system out of your LAN, you can use UI Code, which avoids complex settings of port forwarding or DDNS for connection between LANs.

IE ActiveX connection is similar to JDCS connection, for details refer to "[UI Code Settings in JDCS](#)".

After the settings are finished, right click on one IE ActiveX channel and click "Connect".

The following figure is a demo for IE Control remote viewing.

2. Connection with Domain/IP

For remote access, you can use domain or IP address. This connection method is suitable for access within LAN.

- 1). Check "Link by Domain/IP" to activate domain/IP connection settings.
- 2). Enter domain or IP address of the local PC to access.

- 3). Input correct Com Port. (By default, initial communication port is 9101, and following are 9102,9103,...), click "OK".
- 4). Right click on the IE Control channel and click "Connect".

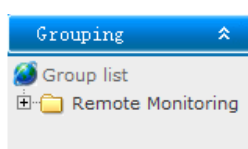
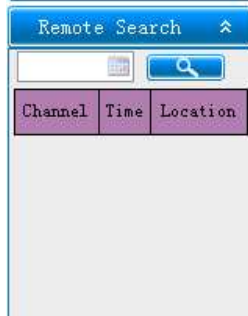
IE ActiveX Functions



1. Link All: Connect all channels
2. Link None: Disconnect all channels
3. Disconnect: Disconnect single channel
4. Connect: Connect single channel



5. PTZ control: Control the direction and actions of PTZ. Iris, Focus and Zoom: Control the image quality of each channel



6. Record All: Record all connected channels.

7. Record None: Stop recording of all the recording channels.

8. Snapshot Manager: Manage the pictures which were snapshotted.

9. System Logs

10. [Settings](#): IE Control Settings panel is similar with that of JDCS:

[Video](#)

[Source/Group, Local](#)

[User, Storage and](#)

[Advanced](#).

11. Playback: Playback the recording files which locate in client-end PC

12. Remote Search: Search the recording files which locate in host-end PC

13. If you have more than 25 channels in JDVR, for example 50 channels. You can group all channels in 2 groups (25 channels per one). In this way, the requirement of network will be reduced. It is ok if you have enough network bandwidth for 25 channels at the same time.



Layout: 1 screen, 4 screens, 9 screens, 16 screens, 24 screens.

Select Group: Set groups for different host PC in connection.

Display Ratio: Original proportion or Covered window

Connect: Connect

to the current channel in host.

Disconnect: Disconnect the channel.

Start Recording : Start recording.

Stop Recording : Stop recording.

Enable Audio : Enable audio monitoring of current channel.

Disable Audio : Disable the audio monitoring.

Remote Playback

Control: Control
Playback.

About IE ActiveX:

Version information
about IE ActiveX.