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# PC-DVR User Manual

1/5

IP-CCTV Solution Manuals

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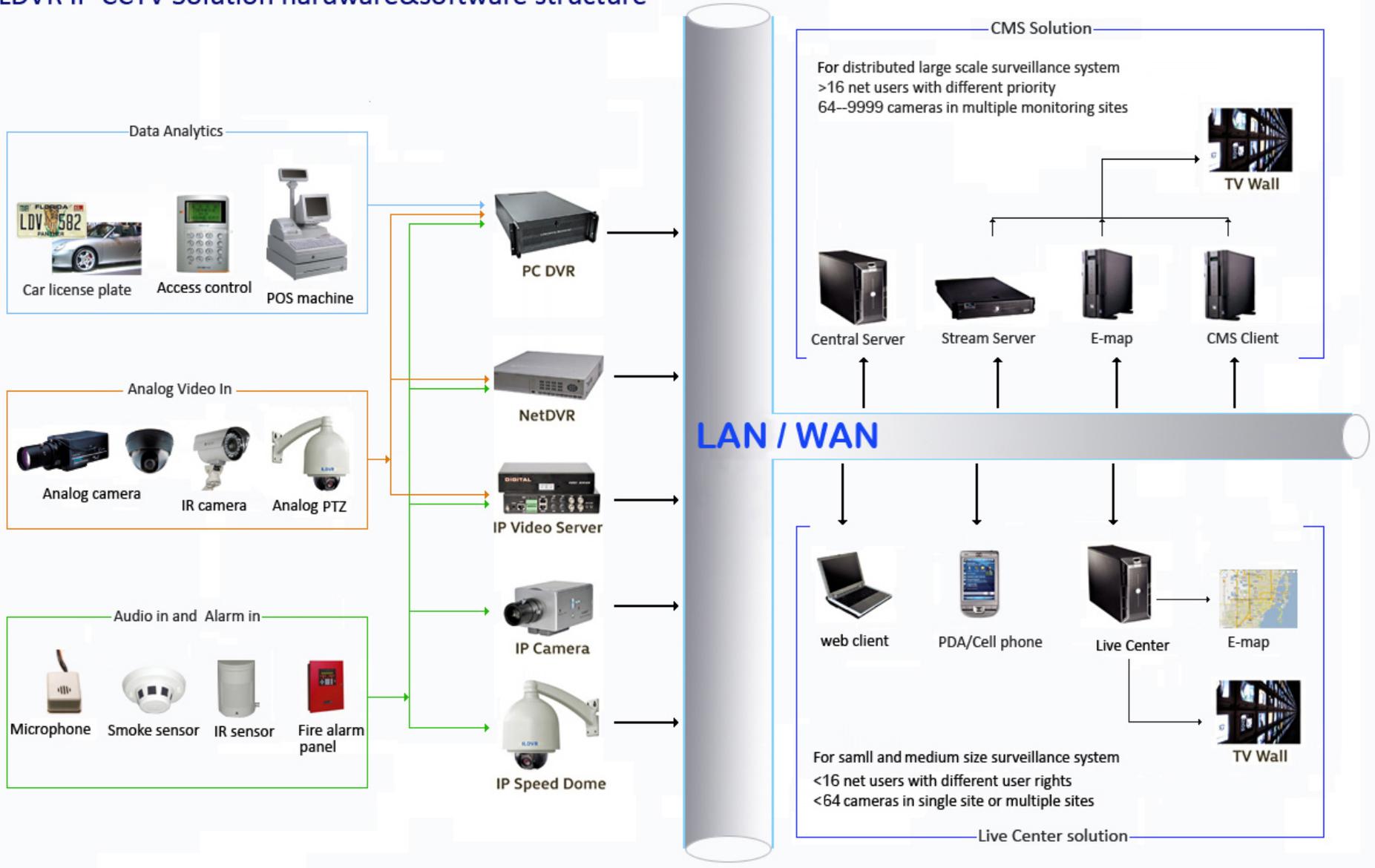
## Introduction of IP-CCTV Solutions

Thank you for using the ILDVR<sup>®</sup> IP video surveillance system. This operation manual illustrates how to set up the hardware and software. It also helps to explain each individual icon function and demonstrates how to use the system effectively in a stable environment. Prior to installing the system, operators should go through this manual thoroughly. Local suppliers may support them in due course.

### IP-CCTV Product Lines

Item	Product Name	Video Record Type	Reasons for choosing...
1	PC-DVR (DVR card)	Local HDD	High resolution and high quality video images with a friendly GUI interface. It's convenient to operate, easy to expand the cameras, and possesses powerful integration capabilities.
2	NetDVR (Stand Alone)	Local HDD	Stable, with no risk of computer viruses. Requires very low maintenance.
3	IP Camera	Local SD card and network	This is the next generation product in security surveillance. This product has everything you need, all built into one! The IP Camera is very cost effective and incredibly easy to install
4	IP Speed Dome	Network stream	This has all the traditional high speed dome features, but overcomes the coaxial cable distance limitation.
5	IP Video Server	Network stream (5001HS both SD card and network)	Convert your existing analog camera to an IP camera. Use this to upgrade your existing CCTV system to an IP-CCTV system
6	IP Matrix/TV-out (Decode card)	N/A	Utilize your existing TV-wall facility.

# ILDVR IP-CCTV Solution hardware&software structure



## 1. Product Features and Model difference

### System Key Features

- Hardware built to support H.264 compression
- Maintains the highest recording video quality while keeping hard drive memory usage to a minimum, even as it adapts to low and high speed network access
- Supports both analog camera and IP camera hybrid connections (including Mega Pixel camera, NetDVR, and IP server)
- Supports POS/ATM machine transaction with text data overlay recording
- Supports Access Control integration
- Supports digital watermarking, preventing any binary program from editing the recorded video
- Real-time full-motion video display & recording. Max. 64ch video inputs (either DVR card or IP camera) at 30 fps per channel
- Synchronous audio monitor and recording (optional) with an embedded VoIP function
- Motion Detection (Whole area or max. 12 detection zones per channel). Privacy mask feature
- Continuous record and event record options (Motion detection or external sensors)
- Data analytics includes Motion Event search, Sensor trigger alarm search, Object Search (Smart Search), POS Search and ACU Search)
- Network access via LAN, Ethernet, PSTN, ISDN, ADSL, etc.
- 10 different types of alarm notification, including SMS text message, email, E-map, etc.
- Pre-alarm / Post-alarm recording
- Remote Relay out (D/O) control and management
- Convenient keyboard and on screen PTZ control
- Allows for alarm and operating system logging
- Supports TV-wall Matrix

### Model difference

The DVR server supports different DVR cards mixed in one system, but it has a maximum limit of 64 cameras. Please refer to Appendix C for more info.

DVR card model	Cameras	Audio	Preview Resolution	Record / Playback Resolution	Dual-Stream
C4/C8/C16	4/8/16	4/8/16	704*576(PAL), 704*480(NTSC)	352*288(PAL), 352*240(NTSC)	Yes (except C16)
C+4/C+8/C+16	4/8/16	4/8/16	704*576(PAL), 704*480(NTSC)	528*384(PAL), 528*360(NTSC)	Yes
F8	8	8	704*576(PAL), 704*480(NTSC)	704*576(PAL), 704*480(NTSC)	Yes
G8/G16	8/16	8/16	704*576(PAL), 704*480(NTSC)	352*288(PAL), 352*240(NTSC)	No

## 2. Hardware and Software Installation

### 2.1 Compatible hardware List

The DVR Server software can only run on INTEL based platforms running Window NT/2000/XP/2003/Vista (32bit) operation system. Avoid using AMD, VIA and SIS chipset motherboards and/or onboard display cards. The DVR server System does not work properly with these hardware components.

	ITEM	REQUIREMENTS			ITEM	REQUIREMENTS
1	<b>Mother Board</b>	All Intel 8xx and 9xx chipset series ASUS, GIGABYTE, or INTEL motherboards are recommended		6	<b>Hard Disk</b>	No limitation
2	<b>CPU</b>	Pentium4 1.8GHz and/or higher frequency		7	<b>Audio Card</b>	No limitation
3	<b>RAM</b>	< 32 cameras	1.0 GB	8	<b>Power Supply</b>	ATX 600W or higher
		33-48 cameras	2.0GB	9	<b>Computer Case</b>	4U Industrial Computer Case
		49-64 cameras	3.0GB	10	<b>Keyboard</b>	PS/2 or USB
4	<b>Display Card</b>	Please choose ATI if using a decode card for TV-out. NVIDIA cards do not support overlay very well.		11	<b>Mouse</b>	PS/2 or USB
5	<b>Monitor</b>	1920×1080 pixels, HDMI/DVI/VGA support		12	<b>Net-card</b>	100Mbps or 1000Mbps
		1680×1050 pixels, HDMI/DVI/VGA support		13	<b>CDRW/DVDRW</b>	Optional
		1280×768 pixels, HDMI/DVI/VGA support		14	<b>FDD</b>	Optional
		1024×768 pixels, HDMI/DVI/VGA support		15	<b>USB Disk</b>	Optional

**Important! More than 95% of defected cards are damaged by over heating or electrical surges. We strongly recommend that you pay attention to 3 things when you install DVR system:**

- Choose a 4U industry computer case which embeds powerful cooling fans.
- Choose a power supply specifically designed for servers that can operate heavy workloads for long hours.
- Make sure to create a ground connection to your DVR computer case.

## 2.2 DVR card cable connection

All 3000H4xx series DVR cards (C/C+/D/F/G) support audio recording, audio spy and remote chat. To perform these features, you need:

- Support 16KHz sample ratio microphone (MIC) for the DVR card.
- Full duplex PC sound card (PCI). (Both Server and Live Center).
- Normal PC MIC for the PC sound card. (Both Server and Live Center).
- Support 16kbps output ratio audio speaker. (Both Server and Live Center).

### Card to card cable wiring inside case

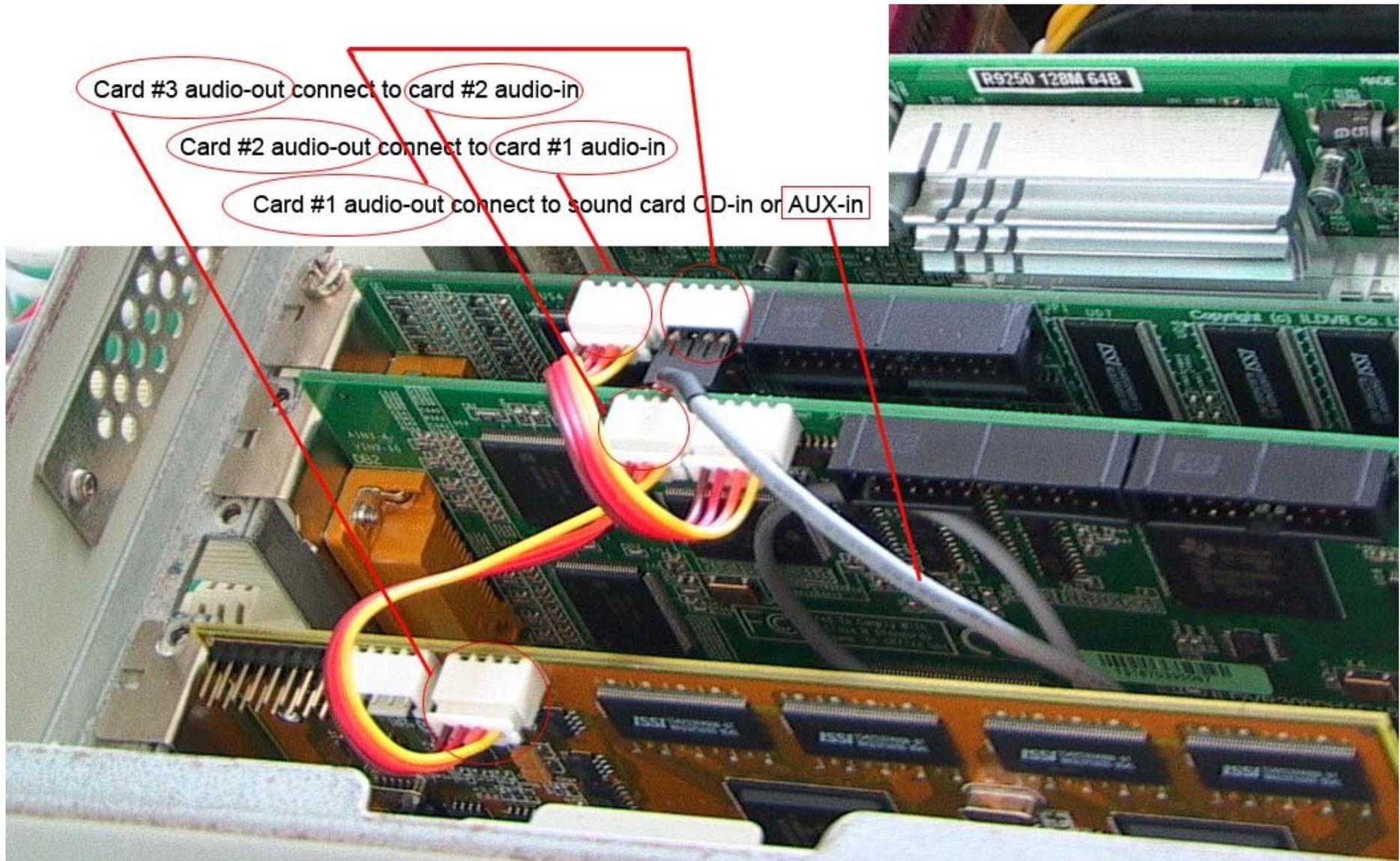
- Refer to the diagram on the next page. Connect the audio cable between the DVR card and the PC sound card for audio spy in the DVR Server preview mode.
- Card #1's audio-out connects to the CD-in or AUX-in of your sound card (if you only have one DVR card, this is the only step you need to follow).
- Card #2's audio-out connects to card #1's audio-in.
- Card #3's audio-out connects to card #2's audio-in and so on.

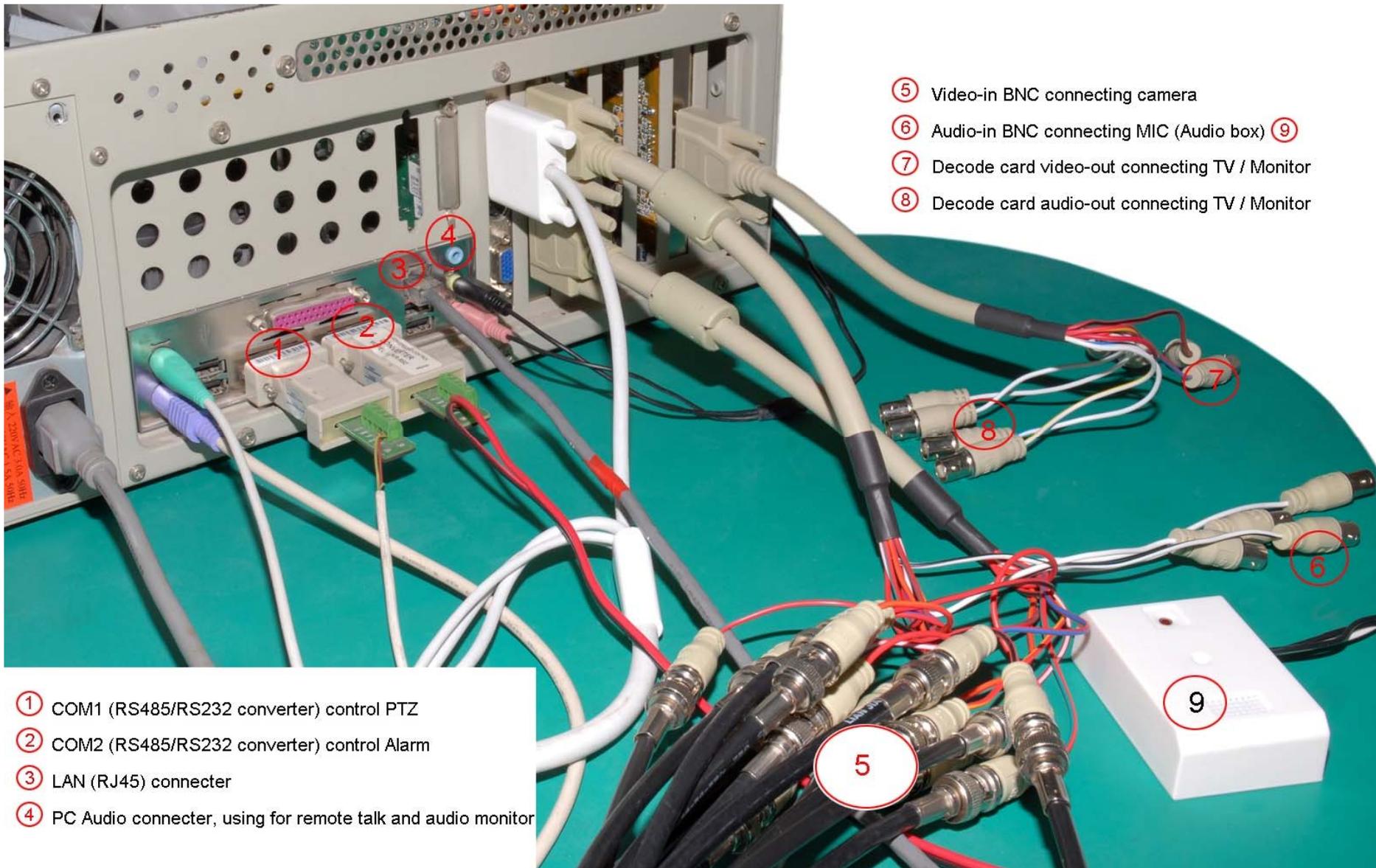
### Microphone to BNC connection

Connect the MICs (microphone) to the DVR card's BNC cable for audio recording and audio streaming.

### PC audio card Microphone and speaker connection

Connect the MIC (microphone) and speaker (or headphone) to the PC sound card for remote chat and remote audio spy.

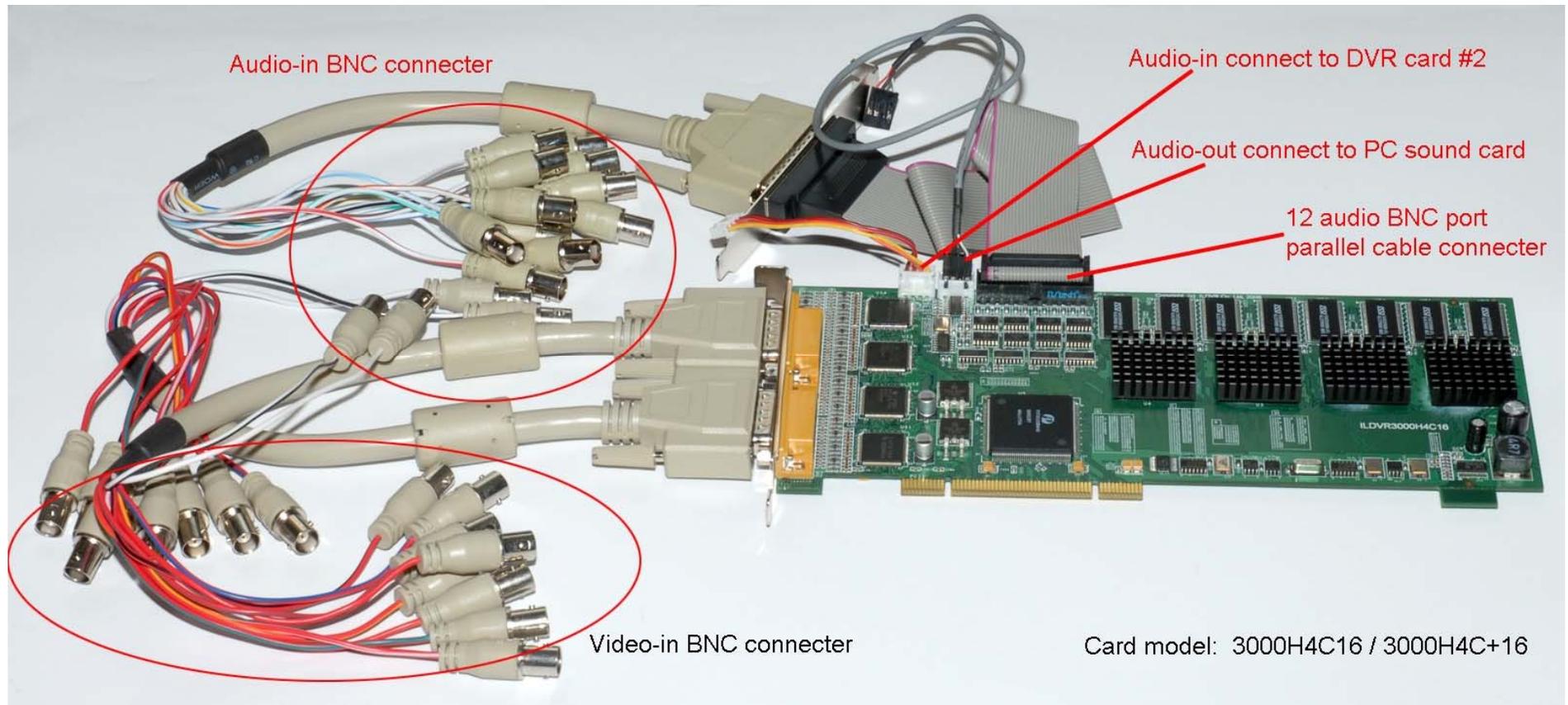




- ⑤ Video-in BNC connecting camera
- ⑥ Audio-in BNC connecting MIC (Audio box) ⑨
- ⑦ Decode card video-out connecting TV / Monitor
- ⑧ Decode card audio-out connecting TV / Monitor

- ① COM1 (RS485/RS232 converter) control PTZ
- ② COM2 (RS485/RS232 converter) control Alarm
- ③ LAN (RJ45) connector
- ④ PC Audio connector, using for remote talk and audio monitor

### 16-channel cards (3000H4C16/C+16/G16) audio cable wiring.



### 2.3 Windows OS display property settings

After you finish the Window OS installation, please install all the hardware drivers, for example: **Intel 915/945/965/975 Chipset INF UPDATE**, **ATI or NVIDIA display driver**, **Net card driver (necessary)** and **audio card driver**. If your system does not have DirectX V8.0 or later installed, please go ahead and install it.

For your attention, if you need protect your Windows system with password login. Please run registry editor (regedit.exe) then locate the key: “HKEY\_LOCAL\_MACHINE\Software\Microsoft\WindowsNT\CurrentVersion\Winlogon”, you can manually input 4 String Value to enable Windows Auto Login

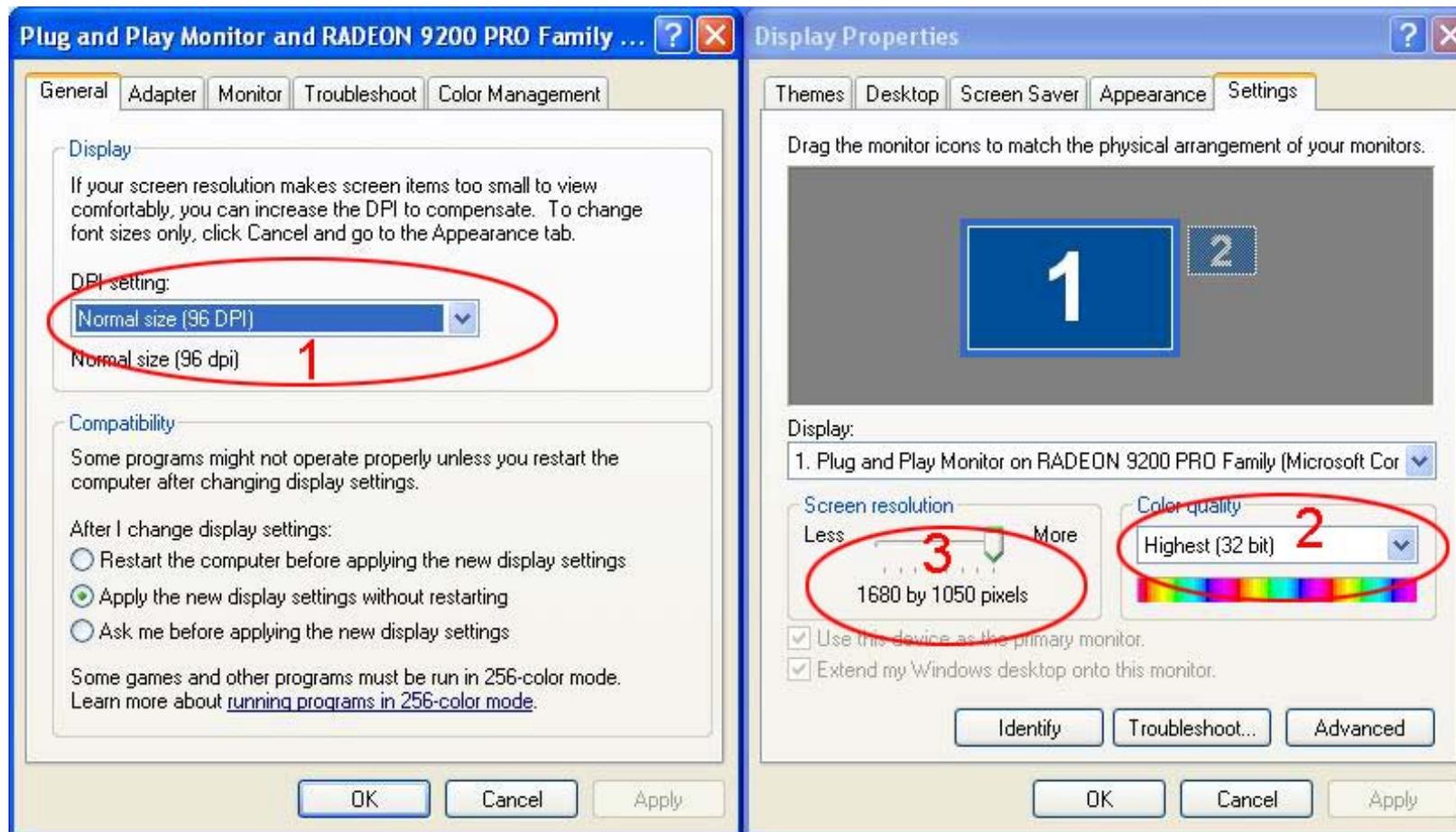
“AutoAdminLogon” set value to 1

“DefaultUserName” set value as your login ID

“DefaultPassword” set value as your password

“DefaultDomainName” set value as your domain (if you have)

### Personalize display setting



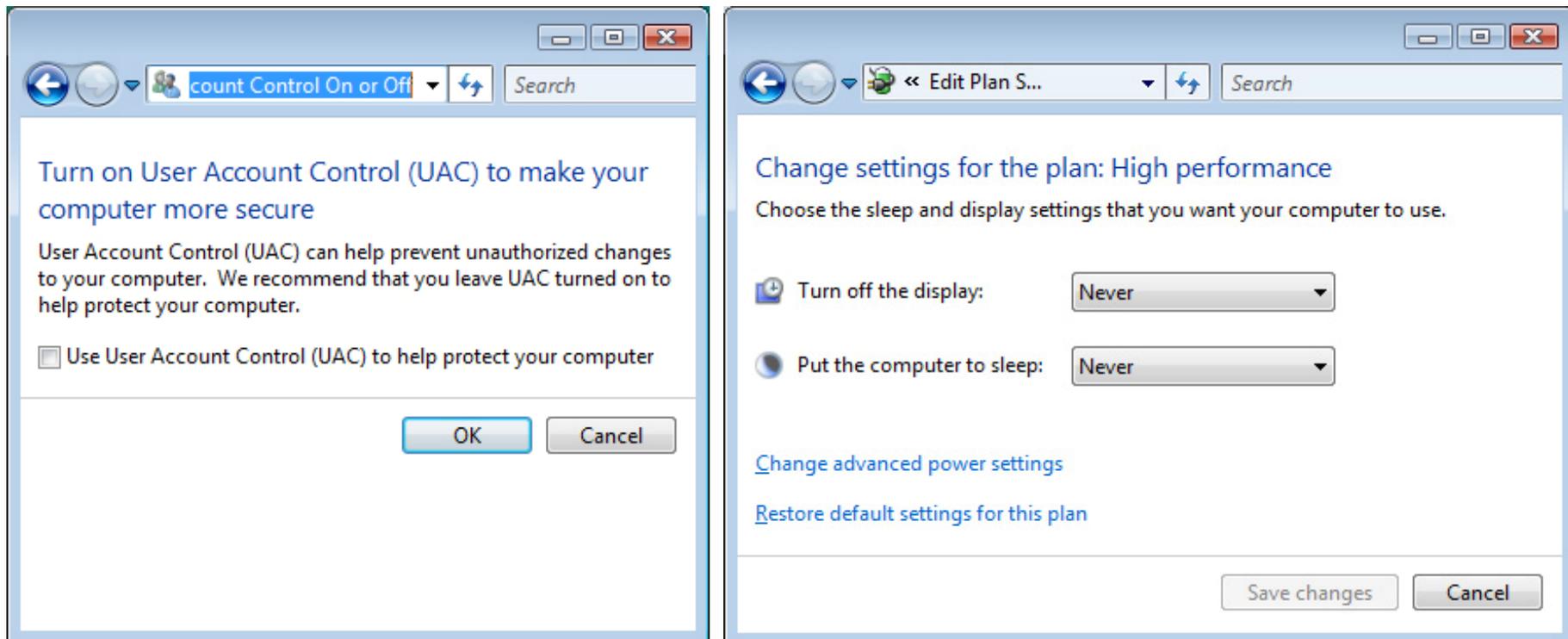
Set the font size to 96DPI Normal size. **Never set this to different font size because the DVR server software will not run properly.**

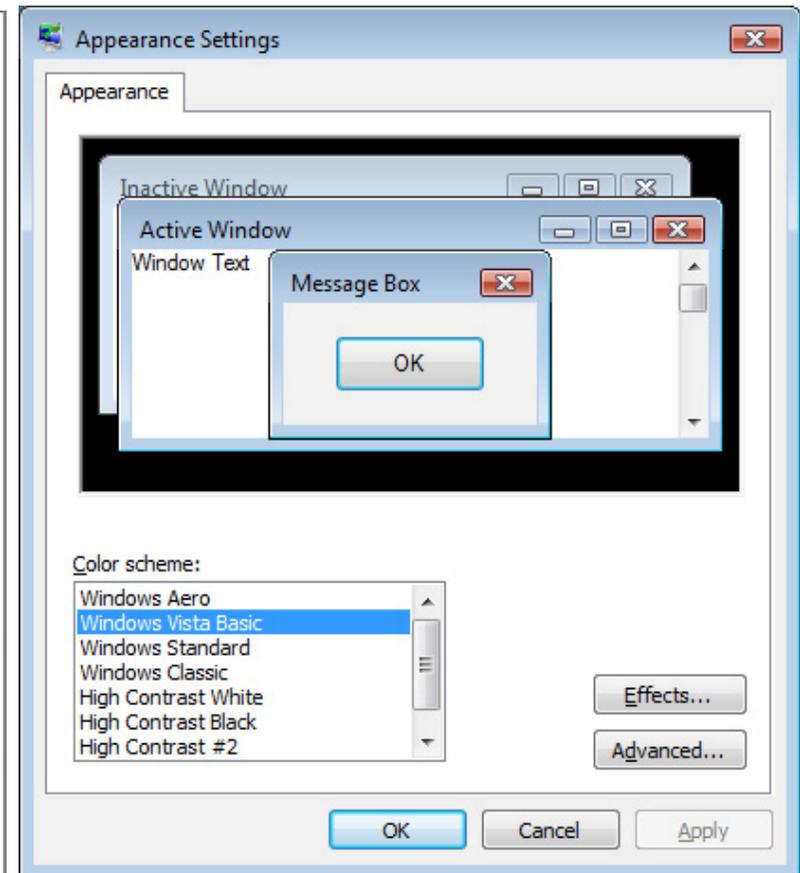
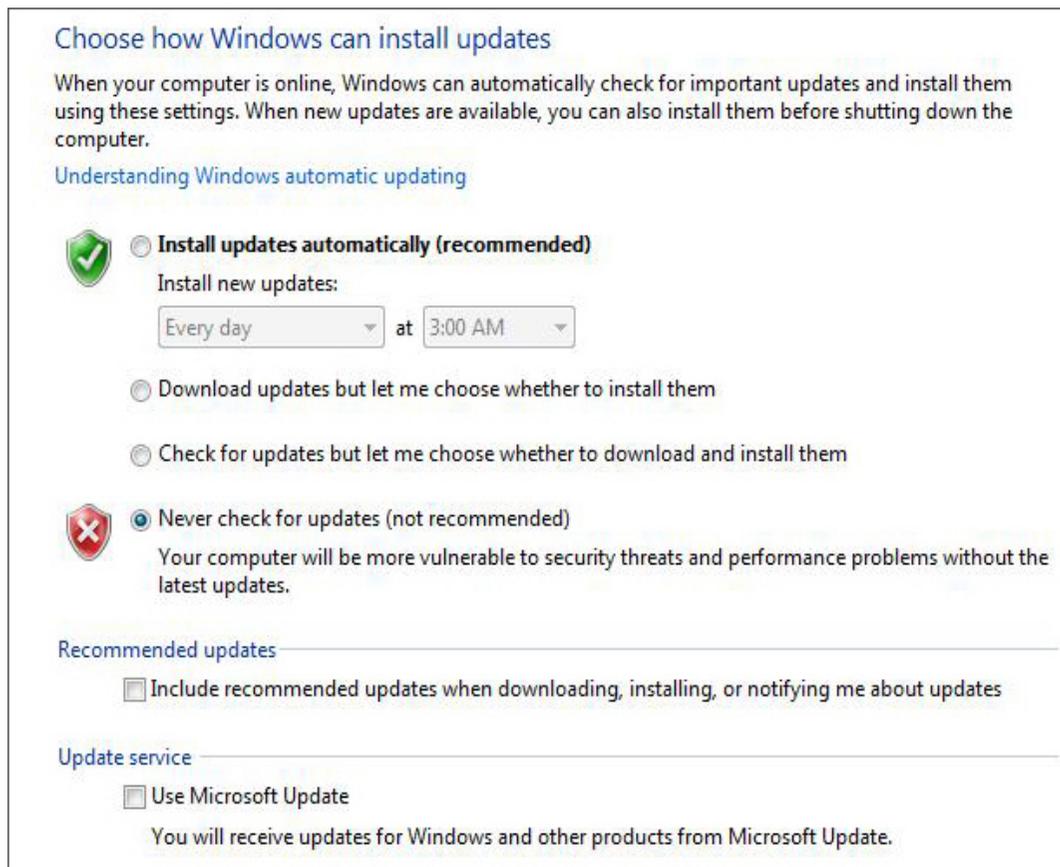
Set color quality to 32bit true color. Set screen resolution to one of following pixels: 1024×768, 1280×768, 1680×1050, 1920×1080 or as high as the monitor can support.

### Special setup in Windows VISTA

If you run the DVR Server v9.x on Windows Vista OS, please complete the following three steps after the Windows Vista installation. If you run the DVR Server and find that it is displaying abnormal video, please proceed to step 3 to correct the display setting. Refer to following illustration pictures.

- a. Turn off Windows Vista's UAC function and disable the Windows Sleep function.
- b. Disable the Windows Vista updates auto-check function.
- c. Change the **Windows Color and Appearance** setting to **Windows Classic** or **Windows Vista Basic**.

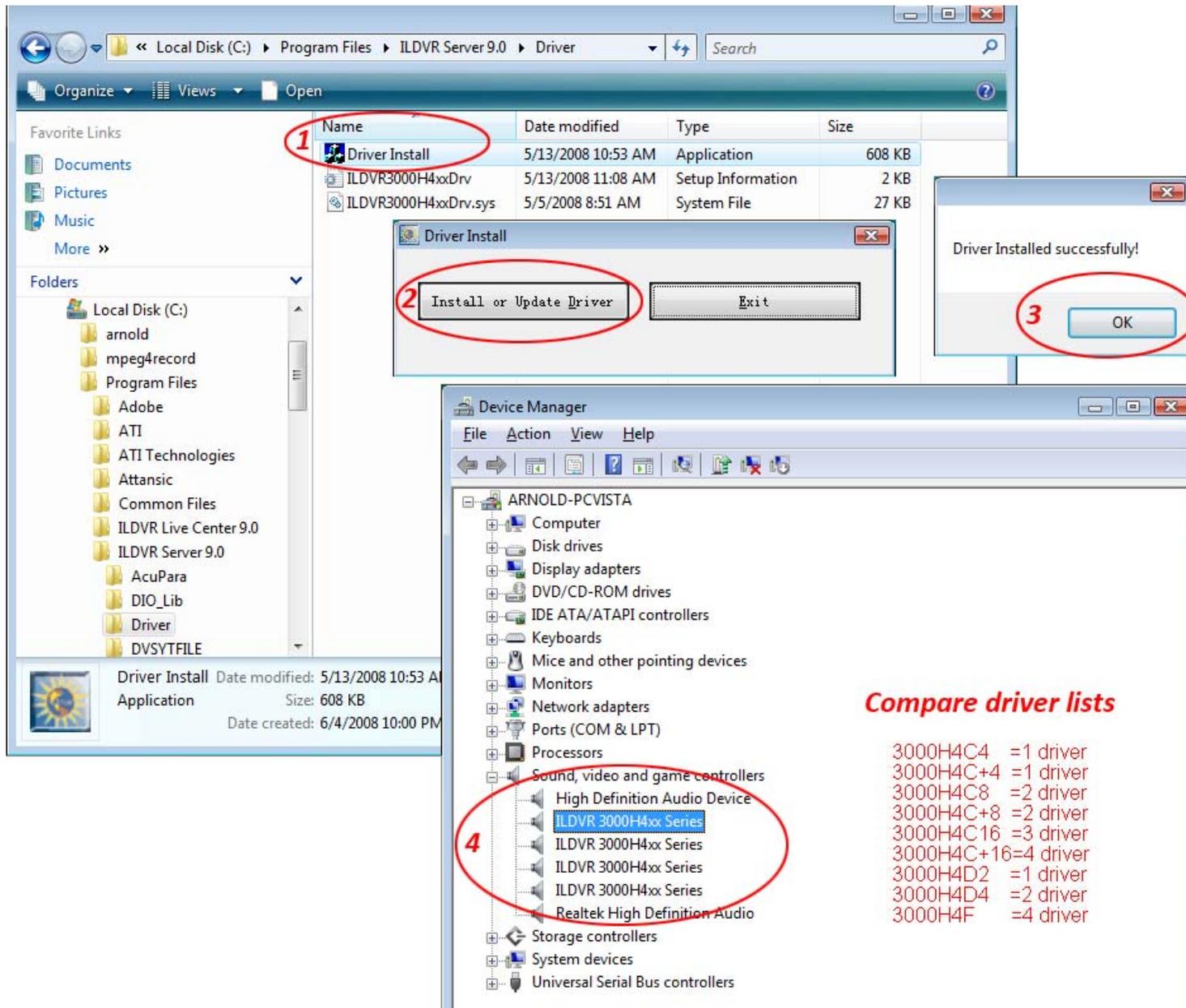




## 2.4 Card Driver and DVR software installation

### Install DVR card driver

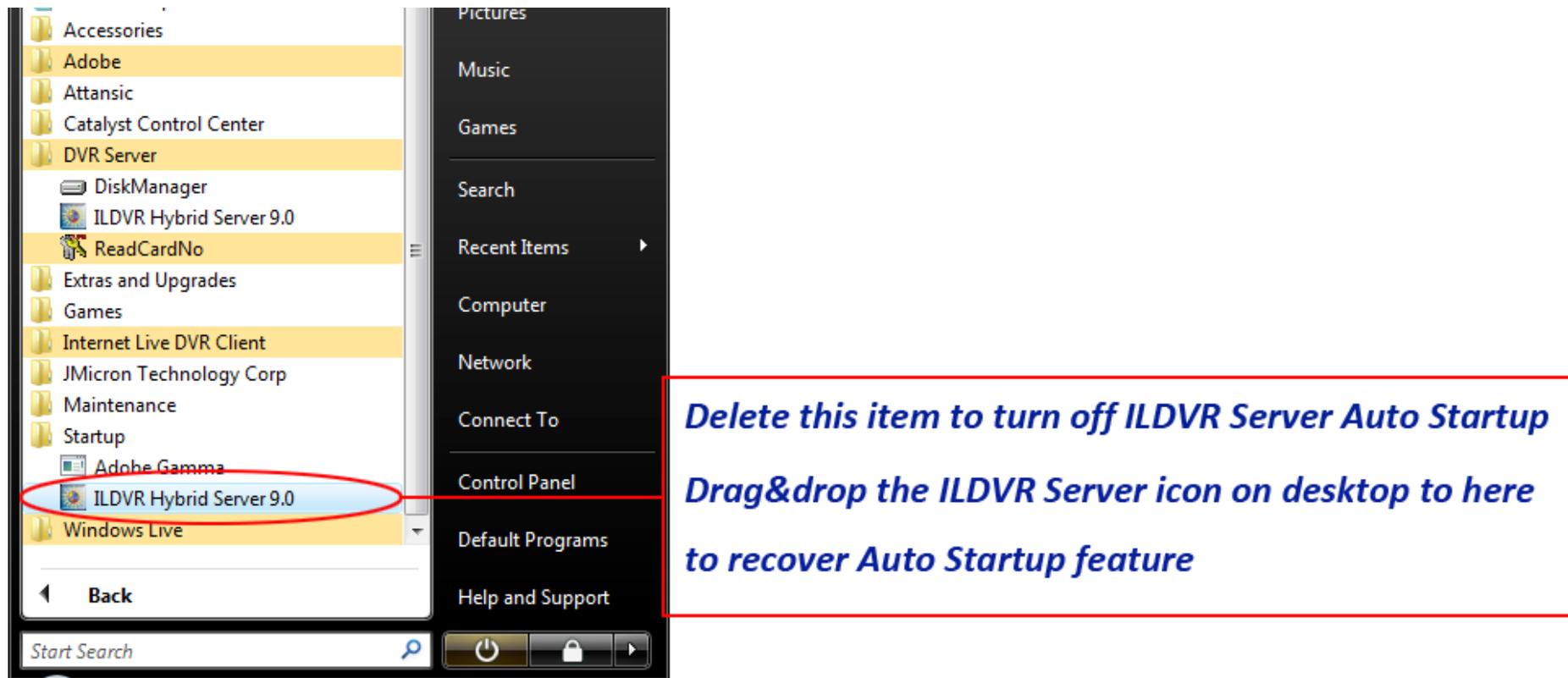
Locate the driver path: [CD]...\DVR\_Server\_v9.x\Driver\ (before the DVR server installation). After installing the DVR server software, you can locate the driver path at C:\Program Files\DVR\_Server\_v9.x\Driver\, run "Driver Install.exe". See step 1 to step 4 shown on the following picture.



## Install Hybrid DVR Server software

Locate the software path: [CD]...\DVR\_Server\_v9.x\Setup.exe and double click the Setup.exe to initial the setup. After finishing the installation, Disk Manager will automatically run. You must build up the DVR File System; otherwise the DVR Server cannot save the recorded video onto disks. You can also run the Disk Manager later on to organize your local disk drives whenever you feel the need to do so (see next section).

On the Windows desktop, there is a shortcut icon  that will show up automatically after the installation is complete. Double click on it to run the DVR server program. If you do not want the DVR system to auto run at windows startup, please delete the icon named "DVR\_Server\_v9.x" from the Startup menu. You can drag & drop the shortcut icon to the startup menu to recover the auto run feature after deleting it.



## 2.5 Disk Manager Operation

The DVR Server uses a pre-built DVR File System for video recording. You must first run **Disk Manager** to build up the DVR File System. The DVR system's default setting starts recording from disk drive E (drive C:\ is for the operating system and drive D:\ is used for backup). The following illustration shows that Drive C and Drive D are never recording (Assigned DataPacks=0). But if you pick up 168 DataPacks to allot, the DVR Server will change the Recording Start Disk to Drive D and keep 138 DataPacks of free space (306-168=138).

The screenshot shows the Disk Manager application window with the following data:

Disk Drives	Total Space(MB)	Free Space(MB)	Assigned DataPacks	Assignable FreePacks	Pick FreePack to allot
C:\ (NTFS)	29996	22704	0	88	0
D:\ (NTFS)	89996	78541	0	306	
E:\ (NTFS)	95001	21	370	0	163
F:\ (NTFS)	90240	132	351	0	164
					165
					166
					167
					168
					169
					170

Annotations in the image:

- System Disk:** Points to the C:\ (NTFS) row.
- Backup Disk:** Points to the D:\ (NTFS) row.
- Recording Start Disk:** Points to the E:\ (NTFS) row.
- From here Manage your disk space:** A callout box pointing to the 'Pick FreePack to allot' dropdown menu, which has '168' selected.

Buttons at the bottom: Create Database, Exit

### 3. Program Main Interface

Before you press the **DVR** power button, please make sure that all of the connector interfaces are firmly installed.

After checking the connections are firmly installed, press the **DVR** system power button. The Power LED will turn on and the application's interface will display after 1 minute following the completion of the system diagnostics. The more encoding channels you have installed, the longer it will take for the application program to load.

If the ILDVR Server auto startup shortcut has been deleted from the startup menu, please double click on the  icon, located on your windows desktop. Once the application program loads, you may proceed to the next step.

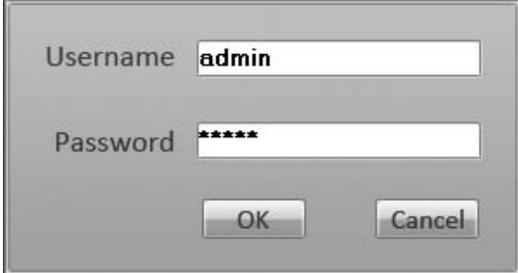
#### Login

Press the  button to display the login dialog box. Input your User ID and password, and then press OK.

The default User ID is “admin”, with no password.

**Note: If the DVR system is not being configured in User Manage Mode, the lock button will be unusable.**

**Show tips:** when the mouse moves close to, or stops at a hot button, a short description tip will show up immediately.



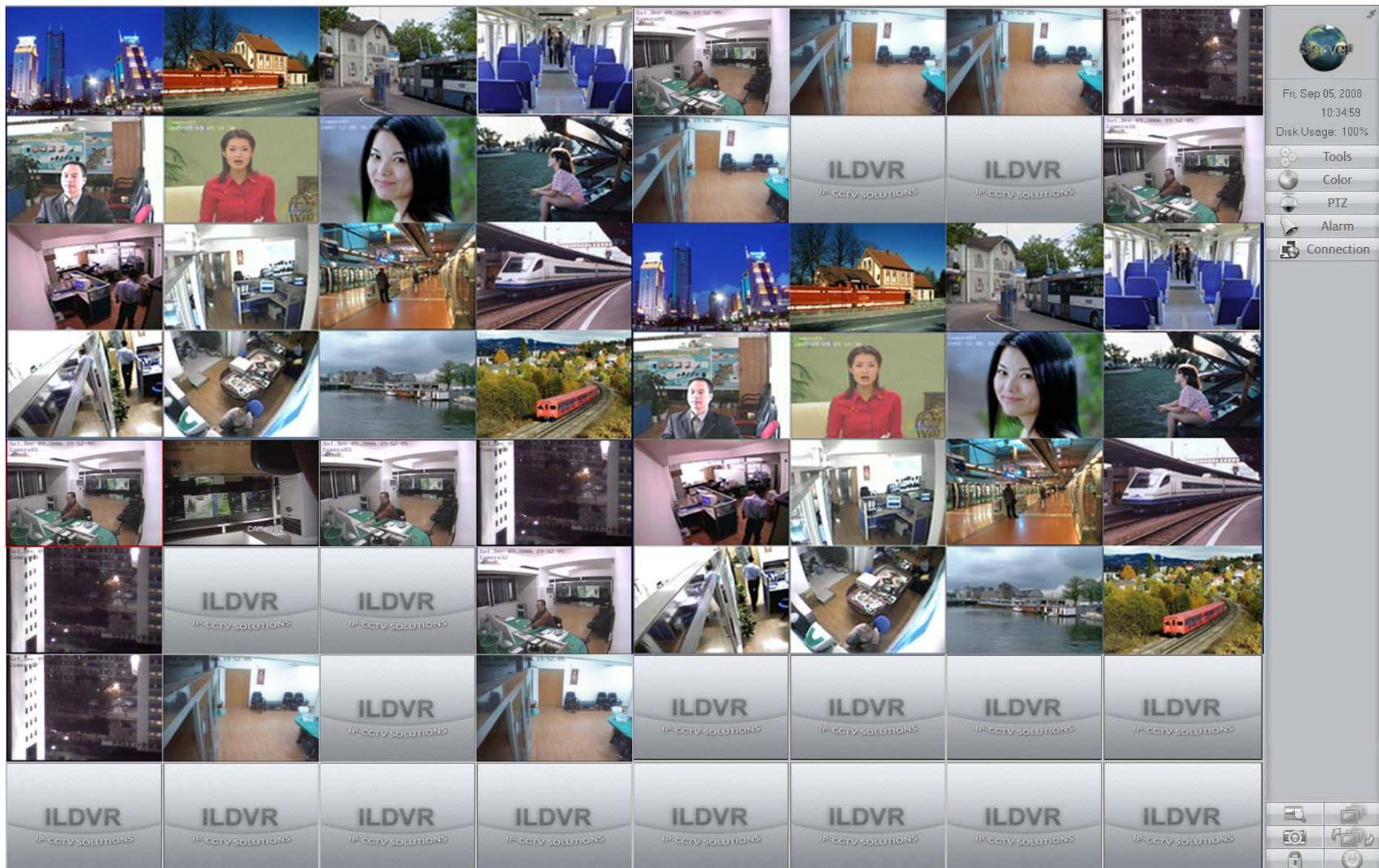
A screenshot of a login dialog box. It has a grey background and a white border. At the top left, it says "Username" followed by a text input field containing the text "admin". Below that, it says "Password" followed by a text input field containing six asterisks "\*\*\*\*\*". At the bottom right, there are two buttons: "OK" and "Cancel".

#### Full Screen Mode

To enter Full Screen mode on one camera view, just double click on the camera window. Double clicking the screen again will revert back to its original state. To enter Full Screen mode so that the Control Panel disappears and only the camera views are showing, just right click on any of the camera windows and click on “**Full Screen Display**”. Right clicking the camera window again and clicking on “**Full Screen Display**” will revert back to its original state.

#### Recording status

- a.  This icon indicates that the system is recording continually (**Continuous Record**)
- b.  This icon indicates that the system is recording in motion detect mode (**Motion Record**)
- c.  This icon indicates that the system is recording in sensor detect mode (**Sensor Record**)
- d.  This icon indicates that the system is recording manually (**Manual Record**)
- e. If there is no icon on the screen picture, the system is not recording (**No Record**)



## Date and time

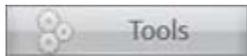
Fri, Sep 05, 2008  
10:34:59  
Disk Usage: 100%

Displays the date, time, and hard disk's free space status.

### Control Panel



Press one of the 5 main icons to open each section of the control panel. Clicking the icon again closes that section of the control panel.



### Tools Panel



System setup button – Click here to enter the system configuration interface.



Motion Detect setup button.



Electron Map setup button.



DVR board setup button – See Appendix C for more details.



POS/ATM system setup button – See Appendix E for more details.



ACU (Access Control Unit) system setup button – See Appendix F for more details.



POS & ACU event viewer button.



Enter IP device in order to add or delete an interface.



Switch button for TV-out Matrix Groups.



Emergency record button records video for 30 seconds.



Manually record with this button.



Press this button to write to the On Duty Log.



View Log button.



Remote Talk button – Click this button to begin a remote talk session.



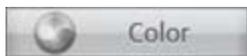
Run DVD/CD backup program.



Run external program.



Press this button to open Windows Explorer.



### Color/Audio Adjust Panel



Brightness

Contrast

Tone

Saturation

Voice

Move slider to adjust color settings.

Click color icon to restore default value.

Copy the current camera color settings to other cameras by clicking the “**Copy Settings To**” button.



### PTZ Control Panel



Light on/off button.



Blower (windshield wiper) on/off button.



Zoom in/Zoom out

Focus in/Focus out

Iris change



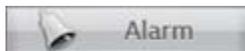
Click the direction icon to move PTZ in different directions. Use the circle button  if you would like to initialize auto scan.

Some protocols, such as Pelco-D, do not take advantage of this function. The  icon displays the active channel number on the screen. In this example, the PTZ camera is listed as 1.



Move the slider to adjust the Pan/Tilt speed. Press the  button and select “**Preset Setup**” to bring up the preset setup interface.

See section 9 for more information.



### Alarm Control Panel



A grey number icon indicates a sensor or D/O port that is not available for use. A light blue number icon indicates that this sensor or D/O port is working on guard mode. A dark blue number icon means this sensor or D/O port is either alarming, or is being operated manually.

### Quick control buttons (on the bottom left hand corner)



Playback button – Click this button to enter log file searching mode. If your DVR system supports dual monitor mode, the playback interface will display on the first monitor, while the preview camera will be forced to show on the second monitor. See Appendix D.



Capture image button.



Split viewing window button – Change the number of viewing windows with this button.



Split-view Auto-switch button – Click this if you would like to have the screen automatically switch through different camera groups.



Lock button – Click this button to lock or unlock the system.



Exit program button – Clicking this button will display the following dialog interface:



Click “OK” to exit ILDVR system.

## 4. DVR Server Configuration

### 4.1 System Configuration

In the **Tools Panel**, press the  button to enter the DVR’s **System Configuration**. If your DVR system supports dual monitor feature, the setup interface will display on the first monitor, while the preview video will show on the second monitor. See Appendix D.

# System Configuration

Version 9.2

## ▼ System Setup

Back up System Parameters

Import System Parameters

Camera Channel	4	Alarm-In Ports	8	Relay-Out Ports	8
Alarm&Relay Port	---	Audio Spy	Enable	Use Electronic Map	Disable
Alarm Relay Device	ALM-0808	Log Archiving Days	30	Switching Time	2 sec.
ATM/POS Support	Disable	Alarm Beep	Disable	Popup Alarm Camera	---
Access Control Support	Disable	Keyboard Stroke	Allow	G Series Card D1 Support	Disable
Grab Picture Save Path	D:\	Default Video Standard	NTSC	DVR Language	English

## ▼ Network Setup

Network Support	Enable	Video TCP Port	5100	Web port	1280
Cellphone Support	Enable	Cellphone Port	5101		

## ▼ Boot Setup

Exit to Windows     Exit and Shutdown     Auto Shutdown  H  M

Auto Reboot Date(Mon. - Sun.)           Reboot at  H  M

Auto Hide    Date Format     Time Format

Aug 26,2009  
PM 08:01:06



## System Setup

- a. **Backup System Parameters**  Saves the system settings for backup – Use this feature to keep your settings when upgrading or reinstalling software.
- b. **Import System Parameters**  This restores your system setting from a backup file.
- c. **Camera channel**  This displays the total number of camera channels.
- d. **Alarm-In Ports**  This displays the number of sensors (D/I).
- e. **Relay-Out Ports**  This displays the number of alarms (D/O).
- f. **Alarm&Relay Port**  Select the COM port used for the alarm control device.
- g. **Alarm Relay Device**  Select an alarm control device.
- h. **Audio Spy**  Enable or disable the audio monitor in preview mode.
- i. **Use Electronic Map**  Select this to display the Electronic Map when an alarm is set off.
- j. **Log Archiving Days**  Saves the System Log for this many days (max 99 days).
- k. **Switching Time**  **sec.** Set split-view auto-switch interval (max 180 Sec).
- l. **Alarm Beep**  This enables or disables the mini-speaker on the mother board to beep when there is an alarm.
- m. **Popup Alarm Camera**  **sec.** Setup an alarm camera to show the time whenever it pops up. This setting only takes effect when you right click on a camera view and selecting “Start alarm popup”.

n. **ATM/POS Support**  Enables or disables ATM/POS support. Set this to enable to activate the POS setup button on the main interface.

o. **Access Control Support**  Enable or disable Access Control Unit (ACU) support. Set this to enable to activate the ACU setup button on the main interface.

p. **Keyboard Stroke**  When setting the Keyboard Stroke to “**Allow**”, you are enabling it to be used normally. Setting this to “**Block**” will prevent anyone from using the PC keyboard function keys. In “**Block**” mode, the DVR interface is permanently on the screen. You cannot minimize it or shift to your Windows Desktop. The keyboard is only used to input 26 alphabet letters and digits 0 through 9.

For security reason, sometime the PC keyboard will be disabled on the DVR system. In this case, if you need to input something like a username and password, all you have to do is just double click on the blank Input Box and it will automatically bring up the DVR soft-keyboard (shown below).



q. **G Series Card D1 Support**  Set the 3000H4G8/G16 DVR card to save D1 resolution images at low frame speed (about 3 fps).

r. **Default Video Standard**  Setup default video standard.

s. **DVR Language**  Change language setting is only available for software versions that support multiple languages.

t. **Grab Picture Save Path**  ... Set the folder you would like to save all the captured images in. If you don't set a path, the DVR uses the default

path **D:\capture\camera\_name**. The **camera\_name** will be the alias you put in the Camera Setup interface.

### Network Setup

- a. **Network Support**  This enables or disables network connections.
- b. **Video TCP Port**  Set this to the TCP/IP port you would like to use for connecting remotely with Live Center.
- c. **Web port**  Set this to the TCP/IP port you would like to use to connect through Internet Explorer.
- d. **Cellphone Support**  Enable or disable PDA/mobile phone connection
- e. **Cellphone Port**  Set this to the TCP/IP port you would like to use for cell phone network access.

### Boot and Shut Down

For system stability, the system can be set to restart automatically.

- a.  **Exit to Windows** Select this if you would like Hybrid Server to automatically exit to Windows.
  - b.  **Exit and shutdown** Select this if you would like Hybrid Server to exit and shut down the computer.
  - c.  **Auto shutdown**  H  M Select the appropriate time you would like the system to automatically shutdown.
- Auto reboot date(Mon.~Sun.)**        Select the appropriate day or days you would like the system to automatically restart.
- Reboot at**  H  M Select the appropriate time you would like the system to automatically restart.

d.  **Auto hide** Select this if you would like Hybrid to minimize after starting up.

e. **Date Format** Sat, Jan 22, 2005 Select the date format you would like to use.

f. **Time format** 24 hour format Select the time format you would like to use.

## 4.2 **Camera Setup**

### Individual Setup

**Select camera** Camera01 Select the channel number to change the settings for.

**Name Camera** cam01 This is the channel's OSD (**On-Screen Display**). Write the description for this camera here (example, "Front Door").

**Work Status** Enable Select enable if you want to enable the camera to record. Selecting disable will disable the camera from functioning.

**Bitrate Type** Variable Select which bit rate mode you want to record in. VBR/CBR mode, VBR=Variable bit rate, CBR=Constant bit rate. For better network streaming performance and better image quality, please choose VBR.

**Frame Rate** 30 Select the recording frame rate (fps) you would like to use – Only available in VBR mode.

**Record Resolution** 352 \* 240 Select the recording resolution you would like to use. Pick 352\*240 for CIF resolution, or 704\*480 for D1 resolution.

**Video Archiving Days** Auto Select how many days you want Hybrid Server to record for. For example, if you set this to 7 days, once the 7 days are up it will delete the first archiving day to make room for new video data to be saved. If you run out of disk space before the 7 days, Hybrid Server will stop recording and issue a warning to notify you of the problem.

## Camera Setup

**▼ Individual Setup**

Select Camera  Name Camera

Work Status  Frame Rate

Bitrate Type  Record Resolution

Image Quality  Video Archiving Days

OSD Support  OSD Gray Scale

Mask Logo Path  Copy to  COPY

sub-stream

Netsend Image Quality

Netsend Resolution

Netsend Frame Rate

Send i-Frame Only

**▼ Group Setup**

Select Camera Group  Record Sub-stream

Group Camera

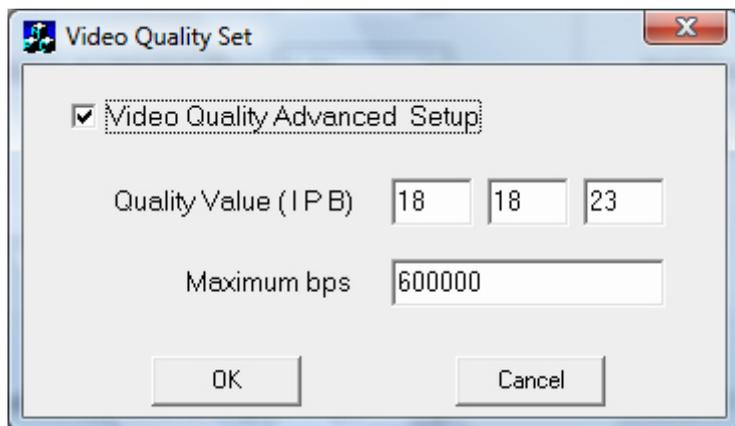
Pre-alarm Record  Post-alarm Record  Stream Type

Continuous Record  
  Motion Detect Record  
  Alarm in Trigger Record  
  Motion Detect or Alarm in 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																								
THU																								
FRI																								
SAT																								

May 10, 2009  
08:22:59

Image Quality  Select the recording image quality. Click the  button to bring up the following advanced bit rate control dialog box.



You usually don't need to change the default settings.

**OSD Support** YES Select **YES** if you would like the OSD date and time to be recorded on top of the video.

**OSD Gray Scale** Auto This is to set the color of the OSD display. Setting this to Auto will change the OSD to black if it's behind a white background and white if it's behind a black background. For a solid color OSD, chose between 0 (all black) and 255 (all white).

**Mask Logo Path** ... If you would like to apply a watermark feature, click the ... button and locate the logo you would like to use. The picture must be edited to fulfill the following requirements:

- A: Width and length must be in multiples of 16 pixels such as 96×80 pixel.
- B: Width and length must be equal or less than 128 pixels.
- C: The watermark picture must be saved as 24bit BMP file.

The following 3 items are sub-stream settings. These settings are unavailable for DVR cards that do not support dual stream (3000H4C16, 3000H4G8 and 3000H4G16).

**Netsend Image Quality** Best ... Select the network streaming image quality you would like to use. Click the ... button for advanced bit rate control.

**Netsend Resolution** 352 \* 240 Set the network streaming image resolution here. Select 352\*240 for CIF resolution, or 704\*480 for D1 resolution.

For the purpose of viewing high quality images remotely, it is best to use main stream for network streaming. To enable main stream viewing, set this to “**Disable**”.

For the purpose of viewing smooth video remotely on a low bandwidth network, please choose sub-stream for network streaming. To enable sub-stream, chose either CIF (352\*240) or QCIF (172\*120).

**Netsend Frame Rate**  Select the network streaming frame rate you would like to use.

**Send i-Frame Only**  Select “**Enable**” if you would like to save video data at one frame per second. This is used when hard disk space is very limited.

**Copy to**   This button saves the current camera settings to all cameras or to selected cameras only.

### Group Setup

The DVR system manages all cameras and their working time table by groups. One group of cameras uses one schedule. If you add one camera into two different groups, the first operation will be voided. Only the second setup will function.

**Select camera group**  Here you will select a group number to setup.

**Record Sub-stream**  Select “**Enable**” if you would like to record the sub-stream video for your group. The default is set to “**Disable**”.

**Group Camera**         
       Click the camera number(s) you would like to add to your group.

**Stream Type**  Select the video and audio recording mode for your group.

**Pre-alarm record**  Select the time would like to start recording before an alarm is triggered. When the ILDVR system is in **Motion Detect mode** or in **Sensor Detect mode**, it can record video prior to the alarm being triggered.

**Post-alarm record**  Select the time you would like to stop recording after an alarm has been triggered. When the ILDVR system is in **Motion Detect mode** or in **Sensor Detect mode**, it can stop recording video after the alarm has already ended.

## Schedule Setup



Tips: One block of pane  equals to half an hour. First, click the  icon of whichever type of record mode you would like to use. Then go ahead and click schedule diagram, holding down the left mouse button and moving it to select an area (drag & drop).

- Continuous Record** -  : The DVR System is always recording video. (e.g. Sun. Fri. and Sat.)
- Motion Detect Record** -  : The DVR System begins to record video only when it detects a moving object. (e.g. Mon.)
- Alarm in Trigger Record** -  : The DVR System begins to record video only when there is a sensor triggered alarm. (3:30 to 11:00 in Tue. Wed. Thu.)
- Motion Detection or Alarm in** -  : The DVR system begins to record with it either detects a moving object or one of the sensors has been triggered.
- No Record** -  : The DVR System stops recording any video.

To set up “**Motion Detect Record**”, click the  icon and select your schedule time by left clicking the mouse button and moving it to select an area. For example, the above picture implies that Monday is set on  motion detect record mode and Sunday is set on  continuous record mode. Tuesday, Wednesday, and Thursday, from 3:30 to 11:00, they have set up their schedule to operate on  sensor record mode, while from 14:00 to 22:30, they’re schedule is set to both  motion detect record mode and sensor detect record mode. Everything else is scheduled to record normally on  continuous record mode. To record motion detect alarm video from an IP camera, please refer to section 5 (Motion tab) to set an IP device locally.

**Note: The schedule for Alarm in Trigger Record (or Sensor Record) must match the schedule for Check Alarm in the Schedule Setup interface. If it is not set up this way, it will not work properly. For example, if you setup the DVR system with No Check (alarm) from 8:00 to 9:00 in Wed. even sensor alarm happen in this hour, DVR doesn't record any video in this hour.**

### 4.3 Alarm In and Relay Out Setup

The **Alarm In and Relay Out** function needs an alarm controller in order to work. We suggest an 8, 16 or 32-port alarm controller device.

#### Individual Setup

Select Alarm-in Port  Select a sensor to configure.

Work Status  Check “**Enable**” here if you would like to enable the alarm port.

Name Alarm-in Port  In this box, put in a description or name of the sensor.

Alarm Link PTZ Camera  
        Select which Speed Dome corresponds with this sensor alarm.

Alarm Auto-rotate Position  Select which preset you would like to use for the alarm's automatic rotation here (only available if preset is saved). If an alarm goes off, you can link a PTZ camera to move to a different position with a preset. To learn how to do this, please read section **4.4 - PTZ Setup and Motion Alarm**.

## Alarm in & Relay out Setup

### ▼ Individual Setup

Select Alarm-in Port Sensor01      Work Status Enable

Alarm Link PTZ Camera Name Alarm-in Port

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

Alarm Auto-rotate Position Preset01      Alarm Play Wave File ... Test

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10:36:49

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### ▼ Group Setup

Select Group Group01      NC/NO Type N/C      Alarm Write to Log Disable

Post-alarm Link Status    Stop       Stay       Delay      10 sec.

Select Alarm-in Port 1 2 3 4 5 6 7 8

Alarm Link Camera

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

Alarm Link Relay out Port 1 2 3 4 5 6 7 8

Alarm Check       No Check      Email Alarm Disable      SMS Alarm Disable

	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																								
THU																								
FRI																								
SAT																								

**Note:** When you install the ILDVR Speed Dome, please do not use preset #1 to link any alarm triggers. If you use preset #1, the camera configuration menu

will always pop up. This happens because the ILDVR Speed Dome is designed to use preset #1 for the popup configuration menu. If you need to utilize the Alarm Link PTZ Auto-rotate function, please choose preset #2 or greater.

Alarm Play Wave File  ... Test Setup the audio file path to play an alarm warning sound.

### Group Setup

The DVR system manages all sensors (alarm in) and their working time table by groups. These groups act just like the camera groups we already discussed earlier in Section 4.2. Each group of sensors uses its own schedule. If you add the same sensor in two different groups, the sensor in the second group will void the sensor in the second group.

Select Group  Select a group number to configure.

NC/NO Type  Select an N/C or N/O alarm type.

Alarm Write to Log  Enable or disable writing to the alarm log.

Post-alarm Link Status  Stop  Stay  Delay  sec. Choose what you would like to do with the DVR System's alarm linkage mode after an alarm time-out. Clicking "Stop" tells the system to stop the alarm alert immediately after an alarm time-out. "Stay" tells the system to continue the alarm alert after an alarm time-out. Clicking "Delay" will tell the system to extend the alarm alert short time (e.g. 10 seconds), then stopping the alert after an alarm time-out.

Select Alarm-in Port  1  2  3  4  5  6  7  8 Add sensor(s) to above selected group.

Alarm Link Camera  1  2  3  4  5  6  7  8 Here, you add linkage cameras to the above mentioned group. One camera can be chosen in multiple groups. These cameras respond to groups of sensors to perform "Sensor Record" according to the schedule of this group. Any one of the sensors in a group can trigger all camera links to this group.

Alarm Link Relay out Port 1 2 3 4 5 6 7 8

This adds an alarm device (alarm out port) to the above mentioned group. This operation works exactly the same like “Alarm Link Camera”. One Relay Out port can be reduplicate chosen in multiple groups. These ports respond to the group of sensor(s) to do the job “trigger alarm out” according to the schedule of this group. Any one of the sensors in a group can trigger all ports link to this group.

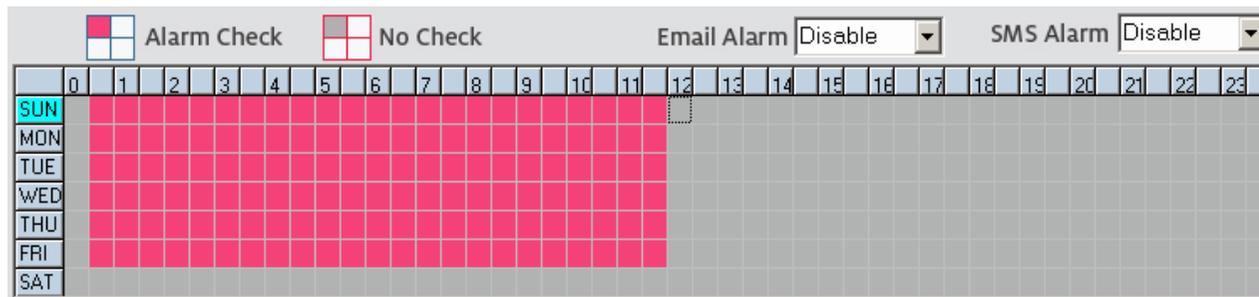
Email Alarm

Enable or disable email alarm support.

SMS Alarm

Enable or disable SMS alarm support.

#### Schedule Setup (Example used below)



Tips: One block of pane equals to half an hour. The procedures for this are identical to the way we setup the previous record schedule.

- a. **Alarm Check Time** - : The DVR System responds to the group of sensors at this time (00:30 to 12:00 from Sun. to Fri.).
- b. **No Check Time** - : The DVR System stops responding to the group of sensors at this time (12:00 to 0:30 from Sun. to Fri. and whole day of Saturday).

#### 4.4 PTZ Setup and Motion Alarm

##### PTZ Setup

PTZ Port

Set the PTZ connecting COM port. All of the PTZ’s in one DVR system share one COM port.

Select Camera

Select a camera to configure the following 4 items.

## PTZ Setup & Motion Alarm

### ▼ PTZ Setup

Select Camera  PTZ Port

PTZ Protocol  PTZ Address (ID)

PTZ Baudrate  PTZ Mount

Sep 05, 2008

10:37:12

### ▼ Motion Detect Alarm Link

Select Relay out Port  Name Relay out Port

Select Camera  Network Alarm Support

Motion Alarm Play Wave File  ... Test Email Alarm

Video Loss Alarm Play Wave File  ... Test SMS Alarm

Motion Alarm Link Relay out Port

Motion & Video Loss Alarm Check  Motion Alarm Check  Video Loss Alarm Check  No Check

	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																								
THU																								
FRI																								
SAT																								



PTZ Protocol

Set PTZ control protocol. The protocol name with H means high speed dome protocol.

PTZ Address (ID)  Set PTZ address, the address ID can be different from the camera sequential number.

PTZ Baudrate  Set the correct protocol baud rate. PTZ Mount  Set PTZ installation method.

### Motion Detect Alarm Link

Select Relay out Port  Name Relay out Port  Select a description for the alarm out port number.

The name you type in here will show up on the **Alarm Control Panel** in Live Center. The relay out port can be used to open a door, or maybe to turn on a light.

Select Camera  Select a camera to set up the following 7 items (a – g). Motion detect alarm must be configured one by one for the cameras.

a. Network Alarm Support  Enable or disable the network alarm.

**Important: To apply the function of “Motion Record” and “Network Alarm Support” in Live Center, you must enable Network Alarm Support.**

b. Motion Alarm Play Wave File  ... Test Set audio file path to play sound warning when motion alarm is set off.

c. Video Loss Alarm Play Wave File  ... Test Set audio file path to play sound warning when video is lost.

d. Motion Alarm Link Relay out Port         Select which relay out ports respond to this camera. One camera can trigger multiple ports.

e. Email Alarm  Enable or disable email alarm support.

f. SMS Alarm  Enable or disable SMS alarm support.

g. Schedule Setup (Example for above figure)

- **Motion and Video Loss Alarm Check** -  : The DVR System responds to either **Motion Detect** or **Video Lost** in this time frame (01:30 to 07:00, Sun. to Thur.).
- **Motion Alarm Check** -  : The DVR System only responds to **Motion Detect** in this time frame (09:30 to 20:00, Monday - Wednesday).
- **Video Loss Alarm Check** -  : The DVR System only responds to **Video Loss Alarm** in this time (yellow area).

- **No Check** -  : The DVR System stops responding to **Motion Detect** and **Video Loss Alarm** in this time (20:00 to 24:00, Monday - Wednesday).

**Note:** The ‘No Check’ setting will not impede the ‘Motion Record’ setting you have set up in the Camera Setup page in Section 4.2.

#### 4.5 Email and SMS Setup

##### SMTP Setup

Enter mail server name or IP address, login ID, password and all other information.

**SMTP Server**  Enter your mail server address.

**SMTP Port**  Enter the mail server SMTP port (sending mail TCP port).

**Authentication**  Enter the mail server authentication method.

**Login ID**  Login ID. **Password**  Login Password.

##### Email Setup

**Mail to**  Enter the recipient mailbox address here.

**Copy to**  Enter the second recipient mailbox address here.

**Mail from**  Enter the sender’s mailbox address here. This address must match the above mail server.

**Mail Subject**  Enter the Email subject here.

**Grab Picture as Attachment**  Enable or disable attaching a picture of the alarm camera.

## Email & SMS Setup

**▼ SMTP Setup**

SMTP Server  SMTP Port  Authentication

Login ID  Password

**▼ Email Setup**

Mail to  Copy to

Mail from  Mail Subject

Grab Picture as Attachment

**▼ Short Message Service (SMS) Setup**

SMS Device  COM Port for SMS

DVR Server Name

Cellphone 1  Cellphone 2

Cellphone 3

Sep 20, 2008  
16:50:34





### Short Message Service (SMS) Setup

**SMS Device**  Select the SMS device type you would like to use. We suggest you use SMS Text.

**COM Port for SMS**  Set the SMS device connecting COM port you would like to use. Please check it from **Windows Device Manager** after you install the GSM modem driver correctly.

**DVR Server Name**  Enter a description of your DVR system.

**Cellphone 1**  **Cellphone 2**  **Cellphone 3**  Input the recipient's cell phone number(s).

#### 4.6 Decode card TV-out Setup

Please make sure that you know how many TV-out ports are available on your DVR system. Typical decoder cards have 2 or 4 ports. The DVR Server supports up to 24 ports.

**Select Operation Group**  The DVR system manages the matrix settings by groups. All of the following operation steps are saved in this group until you change to operate another group. From the main interface, you can easily switch TV-out groups by clicking the switch button and selecting the target group name.

**Decode Card Video Port #**  Choose a TV-out port number to set your display parameters. Your TV-out display port settings must be configured one by one for all ports. All of the following 6 steps are saved in this port (video out 01) until you change to operate a different port. Please finish all 6 steps before you change to configure another port. Repeat steps 1 through 6 until all Video-out ports completed.

**Step 1:** **Set Output Video Standard**  Select an out-going video format to match the monitor video standard (NTSC or PAL).

**Step 2:** **Set Split View for above Video Port**  Select a split viewing mode for this port (TV-out port 01).

**Step 3:** **Switching Time**  Set a time (in seconds) to switch camera views. If you assign multiple cameras (step 6) to one window or sub-window, the

DVR system will automatically show these cameras in sequence at the interval you configured above.

### Decode Card TV Out Setup

▼ **TV-Out Matrix Setup**

Select Operation Group

Decode Card Video Port #

Set Output Video Standard

Set Split View for above Video Port  1 <sup>2</sup>

Switching Time

Select Sub-Window in above Split View

Stream Type Option

Map cameras to above sub-window:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39																									

Sep 05, 2008  
10:37:46





Select Sub-Window  
in above Split View

SubWindow1

**Step 4:** Choose one sub-window in the above split view (step 2) to assign cameras to. The sub-window must be assigned one at a time. The next two steps are saved in “sub-window1” until you change to operate another sub-window. Before changing another TV-out port, please repeat step 4, 5 and 6 until all sub-windows are completed.

Stream Type Option

Camera's Main\_stream

**Step 5:** Select the stream type for the cameras in next operation.

Map cameras to above sub-window:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21  
33 34 35 36 37 38 39

**Step 6:** Click the camera number to add it to sub-window1.

### Important Tips

- Due to the dual-stream function of the DVR card, you will have twice the number cameras for your TV-out. That means that every camera can be assigned twice. One is for the camera’s main-stream; the other is for the camera’s sub-stream. If you assign one camera multiple times through the same stream type, the DVR System will only remember the final operation. This means that the earlier “add in” operations will no longer be valid.
- If your DVR connects to an IP device, please check the resolution (D1 or CIF) of the network video and the settings for “Decode Card Working Mode” in the IP Device List interface. If this optional setting is disabled, even if you add in IP cameras to the TV-out, they will not show up on the screen. Set the decode mode to match the video resolution. D1 mode can support the exact amount of IP cameras equivalent to your TV-out ports. CIF mode supports twice as many.

## 4.7 User Management

### User Information

Local Password Support

Enable

Enable or disable the Local User Management function. Selecting “Enable” will activate the lock button  on the

main interface. When DVR system is locked, the network users can still log in and operate the system remotely. This is just to lock the DVR system locally.

Auto Lock

3 minutes

Select the auto lock idle time in minutes. The DVR software can be set up to lock automatically if left idle for a specific amount of time.

Network Password Support

Enable or disable the **Network User Management** function.

User ID

This shows the current user ID. You may input a new User ID in this box as well.

Administration Group

Select the user type for a new user ID. Only the Administration Group members have the rights to enter the User

Management interface.

Password

Here you can create or change a user's password.

Confirm Password

Re-type the password you entered in the above field.

Notes

Enter your user description in this field.

User ID	Auth. Level	
admin	Administrator	
USER02	operator	

New User

The User List shows all users and their user information. To delete a user ID, please select the user and click the “**delete**” button. Deleting a user ID will disable them from logging in locally and remotely.

New User

To add a new user into the system, firstly click this button to empty the “**User ID**” box and activate the “**Add User**” button.

Add User

Click this button to add a new user. You can set a maximum number of 16 users per system.

Change

Save all changes with this button. Click this button to save all settings when you finish the “**Operation Rights Setup**” for the current user.

Delete User

Click this button to delete current user.

## User Management

**▼ Users Information**

Local Password Support       Auto Lock       Network Password Support

User ID      

Administration Group

Password

Confirm Password

Notes

User ID	Auth. Level
admin	Administrator
USER02	operator

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16:52:26

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**▼ Operation Rights Setup**

Select Operation Item       Camera Viewing Rights Lock to

Select Camera

**Operation Rights**

Motion Setup

Matrix Control

Reset DVR Card

Color Adjust

View Map

Relay out Control

Search Log

Open Explorer

Exit Program

Add/Delete IP Camera

Delete File in Search

Minimize Program

**Setup Rights**

System Setup

PTZ/Motion Alarm Setup

Camera Setup

Email Setup

Alarm in/out Setup

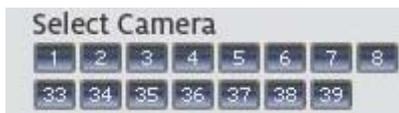
Matrix Setup

Power button icon

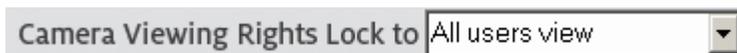
### Operation Rights Setup

Select Operation Item

Camera operation rights are divided to four types: camera view rights, camera playback rights, camera audio rights, and PTZ control rights. Each type of rights must be configured individually with the next operation step.

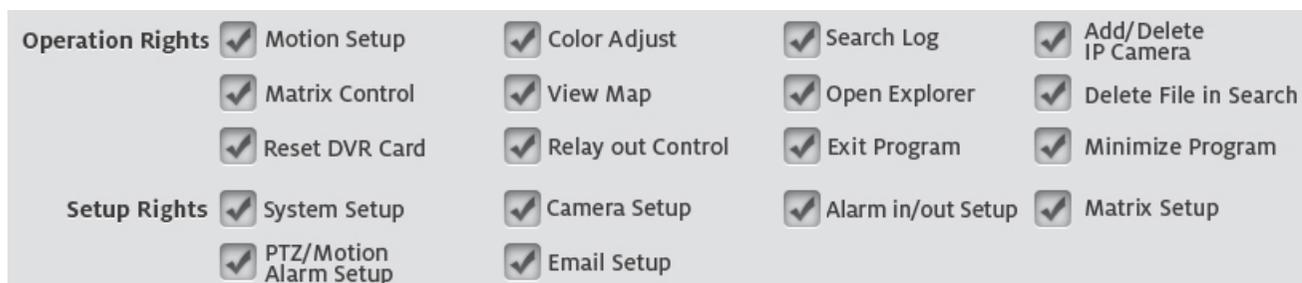


Click the camera number to authorize above “**camera operation rights**” for the current user.



This setting only takes effect when the DVR system locks. When you set this to the “**All users view**”, the screen hides the cameras that the users are forbidden to view. When you select the “**Current user view**”, the screen hides the cameras that the final operator is forbidden to view.

The following operation rights are the system operation rights. Click on the check icon to enable these rights for the current user.



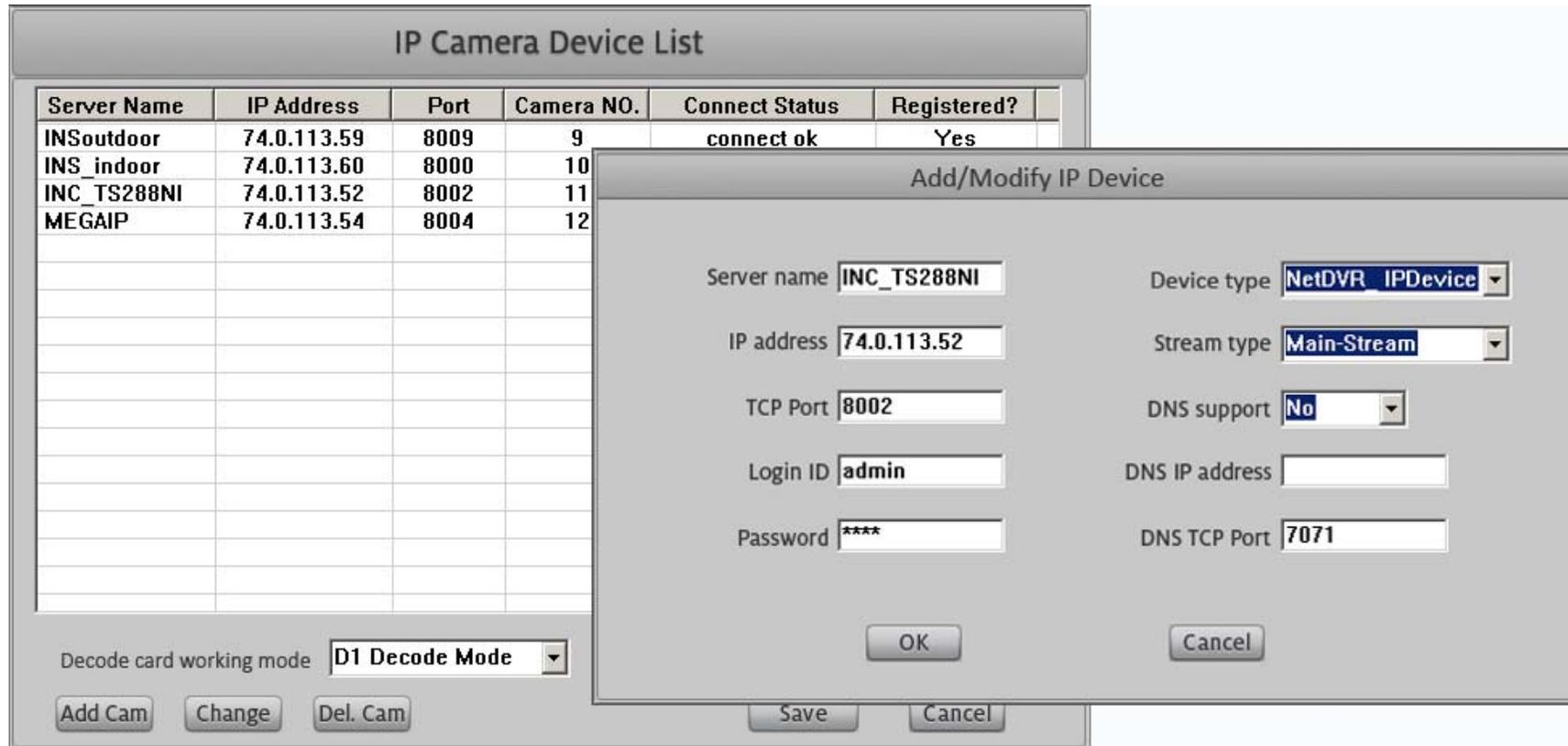
This is the exit button. Once you’re ready to exit the screen, press this button. A message box will appear asking you if you would like to save. Click “**Yes**” if you would like to save your changes; “**No**” to discard any changes you may have made.

## 5. IP Device Operation

### Connecting IP Device

In the tools panel of the main interface, click the  button to enter the **IP Camera Device List** interface (pictured below). The definition of ILDVR IPCam includes all models of IP camera, IP video server, IP speed dome and IL6000 series of NetDVR. IL8000NetDVR is new series of NetDVR. For non-ILDVR IP devices, the Hybrid

DVR server needs a device of USB Watch Dog to support. Please contact your dealer for more information.



Click the “**Add Cam**” button to add a new IP device. Click the “**Change**” button to modify an existing IP device. Click the “**Del. Cam**” button to delete an IP device.

All IP Device cameras are automatically arranged to the position behind the DVR card channel’s and are given a channel number by the sequence of add-in operations. Please check the **Connect Status** and **Register** information from the IP device list. After connecting the IP device successfully, you can perform Remote Configuration for the IP device if necessary. See next section.

If your DVR system has decoder card installed, please set the “**Decode card working mode**”. First check the network video resolution (D1 or CIF), then set the **Decode Mode** to match the network video resolution. Refer to section 4.6.

## IP Device Configuration

Before you perform a remote configuration, please make sure that your login ID has authorized administration rights. Right click on any part of the screen and scroll down and select “**NetDVR\_IPdevice Setup**” to enter the following IP Camera Setup interface. In default “**System**” setup page, you can modify the device name, IP address, TCP port number and read the device serial number and system version information.

The screenshot displays the 'IP Camera Setup' interface. On the left side, there is a vertical label 'IP Camera Setup'. At the top, there are five tabs: 'System', 'Channel', 'PTZ', 'Sensor', and 'Motion', with 'System' being the active tab. The main area contains several configuration fields:

- Server Name: PTZourdoor
- Server IP: 74.0.113.59
- Listen TCP Port: 8009
- Subnet Mask: 255.255.255.240
- Default Gateway: 74.0.113.49
- Net Cable Type: 10M/100M Auto (dropdown menu)
- Use PPPoE:
- PPPoE Login Name: (empty field)
- PPPoE Login Pass: (empty field)
- PPPoE IP: 0.0.0.0
- Serial No.: INS-5001HS0020080710AAWR190170010WC
- User name: admin
- User Pass: \*\*\*\*
- 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:6a
- Software Version: V2.0 build 090320
- Firmware Verion: V4.0 build 080811
- Hardware Version: 0x0

At the bottom of the interface, there are five buttons: 'Upgrade', 'Restart', 'Time Adjust', 'Save', and 'Exit'.

In the “**Channel**” setup page you can modify the camera name, video stream type, video quality, frame rate, bit rate, OSD parameters and setup privacy mask areas. The **Record Schedule** only takes effect locally at the IP device site. For example, if you setup the Record Schedule for the IP camera in this page, it will record to the SD Card.

System
Channel
PTZ
Sensor
Motion

IP Camera Setup

1
Camera Name 
Copy to

Main Stream
 Frame Rate 
Resolution 
Stream Type

Sub Stream
 Quality 
Bit Rate Type 
Max. Bit Rate

Show OSD
 Position X  Y

Show Week
 OSD 
OSD Type

Show logo
 Position X  Y

Privacy



Rec Schedule
Rec Day

Enable Rec
 Rec Type

Period1

→

Period2

→

Period3

→

Period4

→

Copy to

PostRec

PreRec

In the “PTZ” setup page, please set the protocol, baud rate, and address to match your PTZ camera. After you setup the PTZ preset positions, you have 3 choices to enhance the PTZ usage. You might want to save a home position to make the PTZ go back to its original view, or set a schedule to call the PTZ to move to a preset position, or set PTZ to scan roads or highways.

System
Channel
PTZ
Sensor
Motion

IP Camera Setup

Camera No. 
Copy to

Baudrate 
PTZ Protocol 
PTZ Address



**Preset Setup**

Name  Preset

Mode

Preset Name	No.	Mode
Nextdoor	1	Call
Parking	2	Call
Highway	3	Call

Sec Back

Home Position

PTZ Speed

Focus+ Focus- U

Iris+ Iris- L R

Zoom+ Zoom- D

In the “**Sensor**” setup page you can configure every external sensor settings such as on guard schedule, trigger PTZ preset and trigger camera to record. If your IP device doesn’t connect to a sensor or alarm-in equipment, the settings in this page will be negated.

The screenshot shows the 'Sensor' configuration page within the 'IP Camera Setup' application. The interface is divided into several sections:

- System/Channel/PTZ/Sensor/Motion:** A horizontal menu at the top with 'Sensor' selected.
- Sensor NO:** A dropdown menu set to '1'.
- Sensor Name:** An empty text input field.
- Copy To:** A dropdown menu and a 'Copy' button.
- Type:** A dropdown menu set to 'N/C'.
- SensorAlarmHandle:** A checked checkbox.
- Policy:** A group box containing:
  - On Screen Warning
  - Audible Warning
  - Upload To Center
  - Trigger Alarm Out
  - Days 1, 2, 3, 4 with checkboxes.
- Trigger rec camera:** A grid of checkboxes for days 1 through 16.
- Preset:** A group box containing:
  - Use
  - Camera dropdown menu
  - Preset dropdown menu
- Schedule:** A group box containing:
  - Day dropdown menu set to 'Mon.'
  - Period1, Period2, Period3, and Period4, each with start and end time dropdowns.
  - Copy To dropdown menu set to 'All' and a 'Copy' button.
- Buttons:** Upgrade, Restart, Time Adjust, Save, and Exit buttons at the bottom.

In the “**Motion**” setup page you can setup the Motion Detect alarm type, sensitivity level, on guard schedule, and trigger camera to record. The most important setting in this page is the “**Upload to center**” setting, which sends the motion detect alarm signal and video through the network. Even if you have video to view, if you don’t check this item, the motion record for the IP cameras will never take effect in the DVR system.

System
Channel
PTZ
Sensor
**Motion**

IP Camera Setup

Camera No.  Copy To

Alarm Type  Level

Handle Current Alarm



Policy

 On screen warning  
 Audio warning  
 Upload to center  
 Trigger alarm out  

1 
2 
3 
4

Trigger rec camera

1 <input checked="" type="checkbox"/>	5 <input type="checkbox"/>	9 <input type="checkbox"/>	13 <input type="checkbox"/>
2 <input type="checkbox"/>	6 <input type="checkbox"/>	10 <input type="checkbox"/>	14 <input type="checkbox"/>
3 <input type="checkbox"/>	7 <input type="checkbox"/>	11 <input type="checkbox"/>	15 <input type="checkbox"/>
4 <input type="checkbox"/>	8 <input type="checkbox"/>	12 <input type="checkbox"/>	16 <input type="checkbox"/>

Schedule

 Check Date 

Period1	<input type="text" value="00:00"/>	->	<input type="text" value="23:59"/>
Period2	<input type="text" value="00:00"/>	->	<input type="text" value="00:00"/>
Period3	<input type="text" value="00:00"/>	->	<input type="text" value="00:00"/>
Period4	<input type="text" value="00:00"/>	->	<input type="text" value="00:00"/>

Copy To

## 6. Motion Detect Setup

In the main interface Tool panel, click the  button to bring up the **Motion Detect Setup** interface. Here you will set each of your camera's motion detect zones, sensitivity, and dynamic scales.



**Motion Detect Setup**

Camera #  
INS350B\_C

Sound Alarm  
Disable

Link to PTZ

Dynamic Scale: 2%

Sensitivity: 3

Test  
Full  
Delete  
Exit

### Operation Steps:

**Step 1:** Hold down the left mouse button and draw a rectangular zone around the object you would like to monitor. You can make a total 12 zones for each camera. Default setting is set to full screen.

**Step 2:** Adjust the motion detect sensitivity scale. 6 = high sensitivity, 1 = low sensitivity.

**Step 3:** Set the **Dynamic Scale** to prevent small moving objects, such as cats or dogs, to trigger the motion detector. The Dynamic Scale is the ratio of a moving object's size compared to the whole image size. Low value means high sensitivity.

**Step 4:** Click the "Test" button to test your settings. The motion detect area will show in yellow grid.

**Step 5:** To setup motion detect record schedule, please refer to the Camera Setup in Section 4.2.

**Step 6:** To setup motion detect alarm schedule, please refer to the PTZ Setup & Motion Alarm in Section 4.5

## 7. System Search (Playback)

On the main interface, press the  button to enter **Playback mode**. If your DVR system supports dual monitor mode, the playback camera will display on the first monitor, while the preview camera will be forced to show on the second monitor. See Appendix D.

### Change split view

 Press this button for one camera view.  Press this button for four camera views.

 Press this button for nine camera views.  Press this button for sixteen camera views.

**Tips: Right click the picture to perform full screen viewing mode.**

### Change searching date

Press the  button to bring up the **Calendar**.

A highlighted **blue** number indicated that there is recorded data for that day.

A highlighted **green** number indicates the current active date.

A highlighted **gray** number indicates that there is no recorded data for that day.

Click  or  to change the month.

Sep, 2008						
Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				
Today: Sep, 29, 2008						

### Select play back camera



Click on a camera number to initiate the DVR system to play back the recorded data from the beginning of the day. The camera number icon has three status colors:

- 1 Grey color indicates that the camera has no recorded video for this day.
- 2 Light blue color indicates that the camera has recorded video for this day.
- 3 Dark color indicates an active camera.

### Adjust color

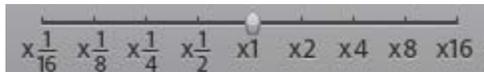


Press this button to adjust the image color and voice volume. See the **Color/Audio Adjust Panel** on page 8 of this manual.



Press this button to close the color panel.

### Adjust playback speed.



Double click the speed icon or move slider to adjust the playback speed.



From left to right: Previous minute, Next minute, Play/Pause, Stop, Next Frame.

### Fast search

Double click the time bar or move the slider to target time.



### Align the playing time



Press the button to synchronize all of the cameras to play at the same time marker.

The screenshot displays a PC-DVR software interface with the following components:

- Camera Feeds (3x3 Grid):**
  - Top-left: Office interior with a red leather sofa. Time: Tue, Jul 28, 2009 PM05:37:18. Label: IN3350B Outdoor.
  - Top-middle: Office interior with a desk and filing cabinets. Time: Tue, Jul 28, 2009 PM05:37:08. Label: IN3350B.
  - Top-right: Office interior with a red leather sofa and a coffee table. Time: Tue, Jul 28, 2009 AM00:00:31. Label: C-TE280N1.
  - Middle-left: Office interior with a woman at a desk. Time: Tue, Jul 28, 2009 AM09:00:03. Label: MEC1.3.
  - Middle-middle: Office interior with desks. Time: Tue, Jul 28, 2009 AM08:59:58. Label: IP Server.
  - Middle-right: Warehouse interior filled with cardboard boxes. Time: Tue, Jul 28, 2009 PM05:43:37. Label: Camera06.
  - Bottom-left: Warehouse interior filled with cardboard boxes. Time: Tue, Jul 28, 2009 PM05:43:32. Label: Camera08.
  - Bottom-middle: Outdoor parking lot with cars. Time: 07-28-2009 Tue 17:36:48. Label: IN3350B Outdoor.
  - Bottom-right: Outdoor parking lot with cars. Time: 2007-2009 Tue 17:36:48. Label: MEC1.3.
- Control Panel (Right Side):**
  - Display: Jul 28, 2009 PM 06:07:02.
  - Grid of 64 camera selection buttons (1-64).
  - Buttons: Stop (red circle), Home (house icon), ALL, Refresh (circular arrow), Settings (gear), Zoom In (+), Zoom Out (-), Full Screen (green arrow), and a power button at the bottom.
- Playback Timeline (Bottom):**
  - Timeline scale: 0 to 24 hours.
  - Legend: Continue (red), Manual (green), Motion (blue), Sensor (yellow).
  - Playback controls: Stop, Previous, Play/Pause, Next, and a zoom slider (x1/16, x1/8, x1/4, x1/2, x1, x2, x4, x8, x16).

## Other Operations in System Search



Review video clips and DVD/CD backups. See Section 10.



Capture a still picture while in play back mode by pressing this button. See Section 12.6.



Print the captured picture saved on the hard disk.



Backup your camera footage to the disk drive.



Press this button to play all cameras in current split view. If the cameras number exceeds the split window number, you should be asked for choosing.



Press this button to stop all playing video.



Zoom in on the video. Press this button to activate image the zoom function. With the left mouse button, draw a rectangle zone in the camera view and the image you highlighted will be magnified. Right clicking on the image will restore it back to normal. Press the zoom button again to end zoom mode. See examples of this function on the following 2 pages.

### 7.1 Search all record



Press this button to search all recorded data. The different colors indicate the different recording modes.

### 7.2 Search sensor record



Press this button to search the Sensor Record data.

### 7.3 Search motion record



Press this button to search the Motion Detect record data.

### 7.4 Search manually record



Press this button to search the Manual Record data.

30-07-2009 Thu 08:20:42

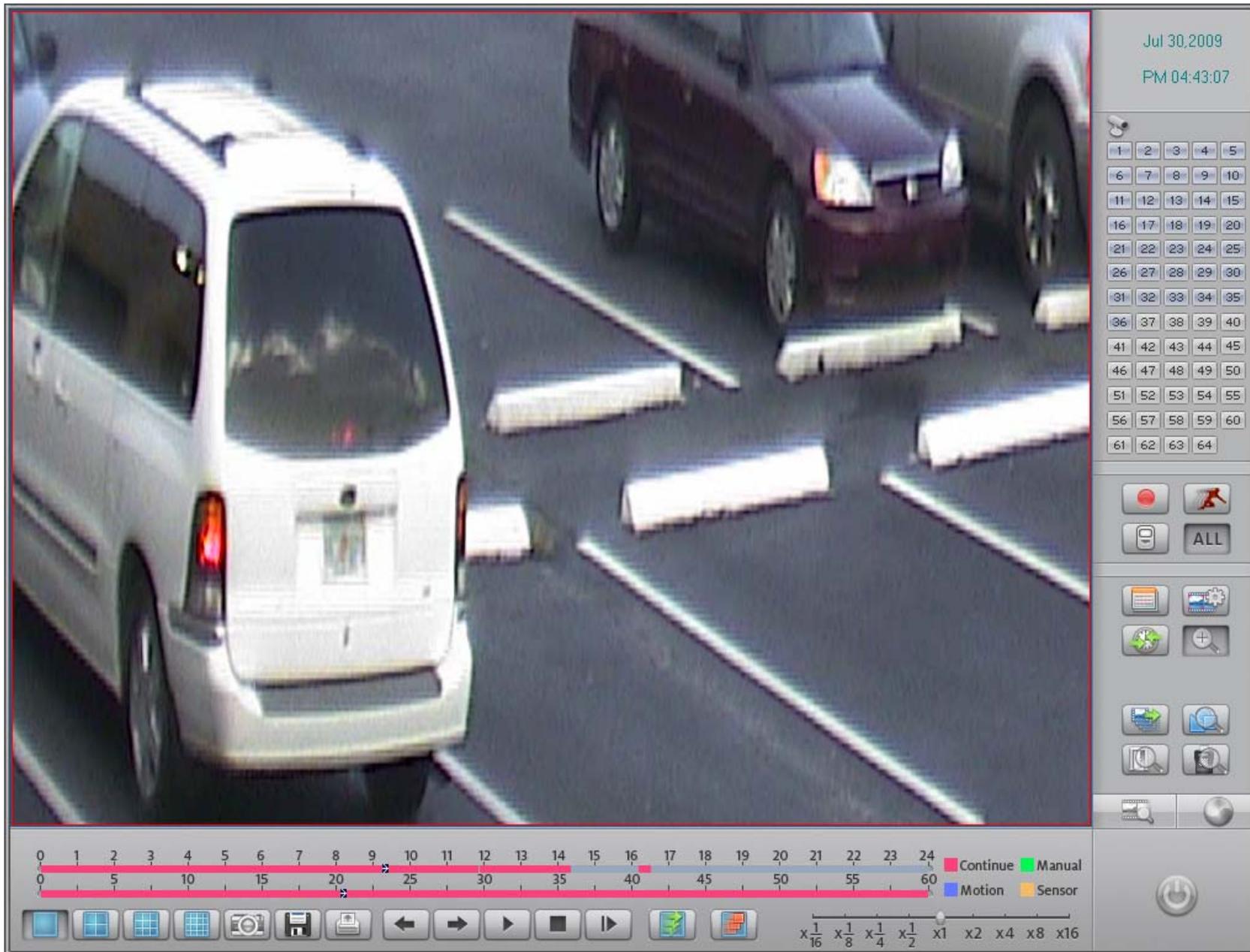
MEGA1.3

Jul 30, 2009  
PM 04:36:58

1 2 3 4 5  
6 7 8 9 10  
11 12 13 14 15  
16 17 18 19 20  
21 22 23 24 25  
26 27 28 29 30  
31 32 33 34 35  
36 37 38 39 40  
41 42 43 44 45  
46 47 48 49 50  
51 52 53 54 55  
56 57 58 59 60  
61 62 63 64

Continue Manual  
Motion Sensor

x $\frac{1}{16}$  x $\frac{1}{8}$  x $\frac{1}{4}$  x $\frac{1}{2}$  x1 x2 x4 x8 x16



## 7.5 Object search

**Object Search**, also known as **Smart Search**, is a useful tool to save time when looking for an event. It fully utilizes the DVR Motion Detect technology and data analysis function. No matter what kind of record type it is, the DVR always saves the camera image for data analysis. This makes it easy to search a certain area in one camera at fast speeds.

After one camera starts its playback, press button  to enter **Object Search mode**. Left click, hold and drag the mouse to draw a rectangular area (in green). The search engine will quickly analyze the movement in that particular area. The Object Search starts the second you press the button. The DVR system will skip all moments that don't show any movement and jump to display the motion video it has recorded. Press button  again to end Object Search.

### Notes:

- Clicking the “Align” button will stop the Object Search while it's still running.
- The sensitivity of Object Search depends on the Motion Detection settings. A reasonable sensitivity should be set according to the camera quality and its install surroundings. If a high sensitivity was set, the DVR system will take longer to search, even when there is no motion in the specified area. If a low sensitivity was set, the DVR system will not search even if there is some small range motion in specified area.

## 7.6 Incremental search

**Incremental Search**, also known as **Icon Search**, is a tool used to playback one camera at different periods of time, showing the video in multiple windows. Every sub-window shares an interval time, but the start time is incremental. Before you press the  button to enter Incremental Search mode, please make sure that the current split view mode is your expected split view.

Camera  Select which camera to search.

Time Scale  Set the time interval of the different sub-window.

From:  To:  Set the start time and end time.

The screenshot displays a PC-DVR software interface. The main area is a 3x3 grid of camera feeds from an office. Each feed shows a timestamp and the camera ID 'INC-TE288NI'. The timestamps are as follows:

- Top-left: 07-30-2009 Thu 08:59:54
- Top-middle: 07-30-2009 Thu 09:09:52
- Top-right: 07-30-2009 Thu 09:19:53
- Middle-left: 07-30-2009 Thu 09:29:50
- Middle-middle: 07-30-2009 Thu 09:39:51
- Middle-right: 07-30-2009 Thu 09:49:50
- Bottom-left: 07-30-2009 Thu 09:59:52
- Bottom-middle: 07-30-2009 Thu 10:09:49
- Bottom-right: 07-30-2009 Thu 10:19:49

On the right side, there is a control panel with the following elements:

- Current date and time: Jul 30, 2009 PM 04:55:16
- A numeric keypad (1-64) for camera selection.
- Buttons for Stop, Play, and ALL.
- Buttons for Home, Refresh, and a magnifying glass icon.
- Buttons for a globe icon, a plus sign, and a magnifying glass icon.
- Buttons for a magnifying glass icon and a magnifying glass icon.
- A power button at the bottom.

At the bottom of the interface, there is a search bar with the following controls:

- Camera: INC-TE288NI (dropdown menu)
- Time Scale: 10 Min (dropdown menu)
- From: 10:00:00 AM (dropdown menu)
- To: 4:53:47 PM (dropdown menu)
- Buttons for Search and Exit.

## 7.7 POS search

Press the  button to enter the **POS Search** interface. Select a camera and set a start time and end time. Press the “**Search**” button and all the POS record data will display on the left table. Just double click a record to begin playback.

## 7.8 ACU search

Press the  button to enter the **ACU Search** interface. Select a camera and set a start time and end time. Press the “**Search**” button and all the ACU record data will display on the left table. Just double click a record to begin playback.

# 8. System Alarm Control

## 8.1 Sensor alarm trigger relay out

This function needs an alarm controller to support it. Operation steps: (Refer to Section 4.3)

- Set alarm controller device type and connecting port.

Alarm Relay Device  Select alarm control device.

Alarm&Relay Port  Select alarm control device connecting COM port.

- Set the sensor’s Check Alarm schedule.
- Set link camera groups and relay out ports.

## 8.2 Sensor alarm trigger PTZ preset

This function requires a High Speed Dome (PTZ camera). Operation steps: (Refer to Section 4.3)

- Select Alarm-in Port  Select the sensor to configure.

#### Alarm Link PTZ Camera

-  Select which Speed Dome corresponds to this sensor.
-  Set the preset number. The speed dome will automatically move to this position when there is an alarm.

### 8.3 Motion alarm trigger relay out

This function requires an alarm controller. Motion detect alarms must be configured one by one for these cameras. Operation steps: (Refer to Section 4.4).

-  Select camera to configure.
-  Select which relay out ports respond to this camera. One camera can trigger multiple ports.
- Set the Motion Detect check alarm schedule.

### 8.4 Motion alarm trigger PTZ preset

This function requires a High Speed Dome (PTZ camera). Refer to Section 6, “**Motion Detect Setup**”.

Enter the motion detect setup interface and select the target camera to be configured. Press the “**Link to PTZ**” button to activate the optional settings. After setup finishes, press this button again to save all settings.

	<p>Select how many Motion Detect zones you want to use in a whole image area. You can chose up to 128 zones, where one preset represents one zone.</p> <p>Select one of the zones (for example, zone 01) and draw a rectangular pane (define a motion detect zone).</p> <p>Select the PTZ camera name.</p> <p>Select the preset name to link the above mentioned zone (zone 01).</p>
--	--

### 8.5 Sound alarm

This function requires a microphone for it to work. When the DVR system detects that the sound signal exceeds the preset bit rate, the mini-speaker connecting to the motherboard will beep.

- **Alarm Beep**  Set alarm beep to “**Enable**”.
- Enter motion detect setup interface, select target camera to be set. The operating audio channel is equal to the camera channel.
- Select a bit rate scale from “**Sound Alarm**” dropdown list. The maximum bit rate is 16000 bps (16Kbps).

## 8.6 Alarm send image to Live Center and CMS

The DVR Server can automatically send the alarm camera to Live Center and show the camera on the screen. Follow these steps:

**Network Support**  Enable network support. If you want to send sensor alarm camera, please refer to Section 4.3 for sensor’s Check Alarm schedule.

If you want to send motion alarm camera, please refer to Section 4.4 for Motion Detect Check Alarm schedule

### Configuration in Live Center:

**Network Alarm Support**  Set Live Center to monitor and respond to network alarm signals. Set Auto Connect means Live Center will check all servers (all IP address) in the **IP Address Alias List** in “IP Setup” tab. To set a specific connection group means Live Center only check that Operation Group’s IP address in “Window Setup” tab.

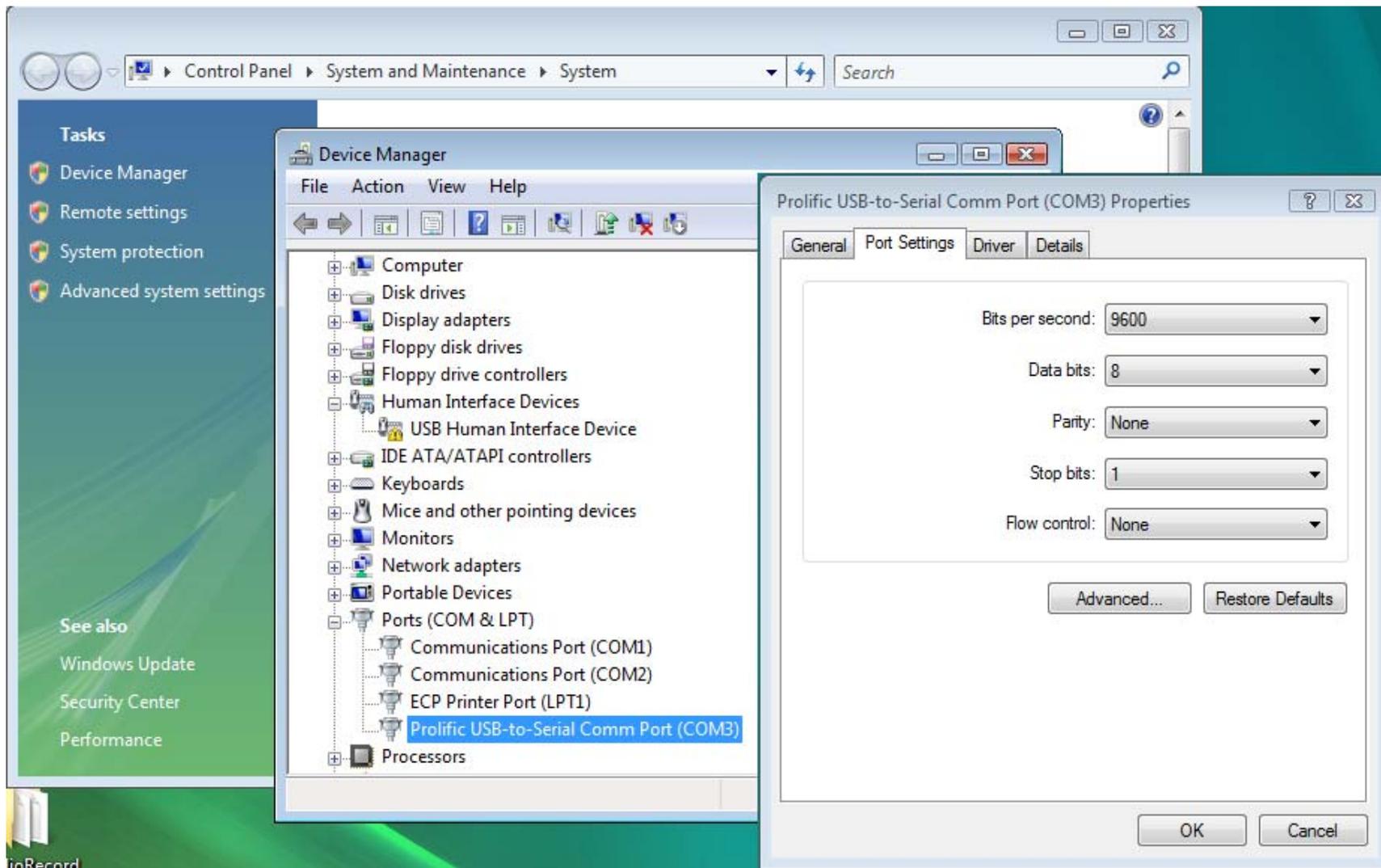
**Alarm Camera Default Stream Type**  Select the video stream type for the alarm video.

## 8.7 Alarm send email

The DVR Server will automatically send email notifications to appointed receivers. Please refer to “**Email &SMS Setup**” in Section 4.5

## 8.8 Alarm Send Text Short Message (SMS)

This function needs a GSM MODEM in order to work. The GSM modem is a type of USB interface plug & play device. After installing the GSM modem driver successfully, please go to **Windows Device Manager** and check the COM port number connecting to the GSM modem (usually the system sets this as either COM3 or COM4). Set the LDVR system short message COM port to match the COM port number in Device Manager. Set the SMS Device to SMS Text. Enter the receiver’s mobile phone number and click the “**Test**” button to test your settings. Use the pictures below as a reference.



## 8.9 Alarm playing audio

You can record your customized voice and save it on the local disk drive. The DVR System saves the file's location and plays it when an alarm goes off. Every sensor and every camera can be linked to any wave file.

Alarm Play Wave File  ... Test

### 8.10 Alarm Popup Image

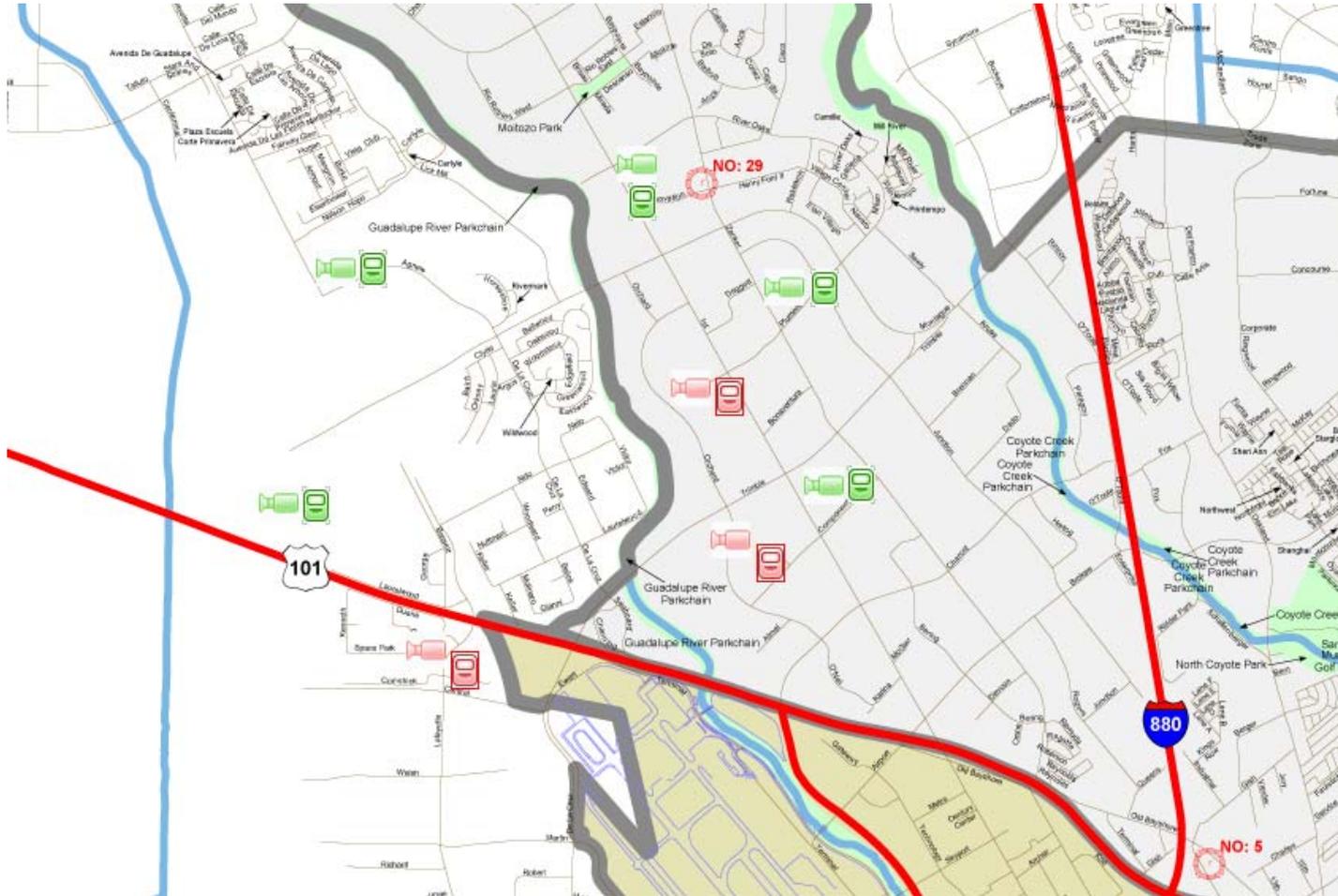
In the System Configuration interface, select **Popup Alarm Camera**   **sec.** a time from the drop down menu. On the screen's right-click menu, select **“Start alarm popup”**. When an alarm goes off, the alarm camera will pop up in full screen mode. Multiple alarm cameras will switch and popup according the interval you just adjusted.

### 8.11 Alarm Popup Electronic Map

Before using this function, please edit your customized electronic map and save it as a JPEG format on your local disk drive. In the System Configuration interface, set

the **“Use Electronic Map”** feature **Use Electronic Map**   to **“Use”**. On the main interface, you will want to press the  button to bring up the default Electronic Map. Follow the following steps:

- Click the Setup button to activate setup mode.
- On the default map **right-click menu** (just right click anywhere on the map to bring up the right-click menu), select **“Change map”** to initiate a new map.
- On the map right-click menu, select **“Add camera”** to add a camera onto the map
- On the map right-click menu, select **“Add sensor”** to add a sensor onto the map
- On the map right-click menu, select **“Delete all annunciator”** to delete all the cameras and sensors.
- **“Auto Delete Alarm”** means the map will auto hide after the alarm has stopped.
- **“Auto display map when alarm”** will automatically display the map when an alarm goes off, but you must check this to enable this function.



## 9. PTZ Preset Operation

Before using this feature please go back to “**PTZ Setup**” in Section 4.4 to configure all your PTZ cameras correctly. The DVR Server supports 4 methods of PTZ control: 1) PC keyboard, 2) Analog PTZ keyboard connecting to COM port, 3) PC mouse operation on GUI PTZ panel, and 4) PC mouse operation on screen camera.

### 9.1 PC keyboard PTZ control

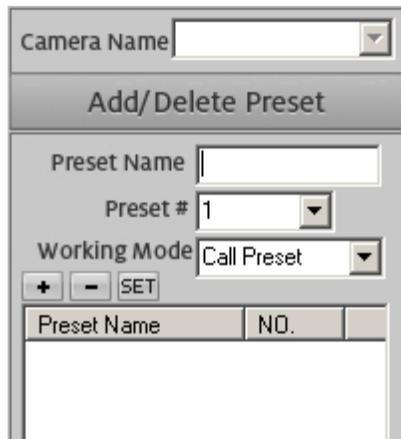
Please see Appendix A.

## 9.2 Analog PTZ keyboard connecting to COM port

Please refer to the operation manual or user's guide that came with the analog PTZ keyboard.

## 9.3 PC mouse operation on GUI PTZ Panel

On the main interface, press the “PTZ” button to open the PTZ panel. Move the mouse over the PTZ control button to show the PTZ button tips. Press the  button and select “Preset Setup” to bring up the following interface:



Preset Name	NO.
-------------	-----

### Save Preset steps

- Move PTZ camera to your target position.
- Input a “Preset Name” to describe your target position
- Select a preset # that you want to use for your target position.
- Click “+” button to save it to the system. The preset name will show in the list and on the screen.

### Delete Preset

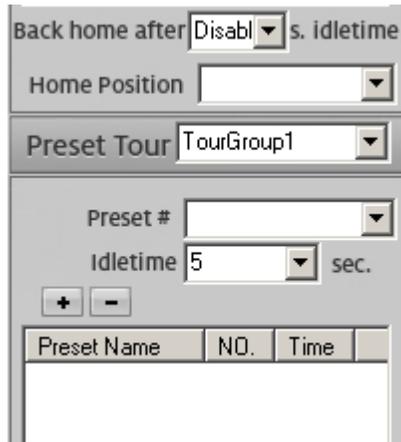
Select a preset name in the list and click the “-” button to delete it.

### Adjust Preset

If a preset has been saved, however, you would like to adjust its position, just move the PTZ to its new position and click the “Set” button.

## Call Preset

On the main interface, click the  button to bring up the **PTZ operation** menu. Highlighting “**Preset Call**” will show a sub-menu of presets. Clicking the preset will call on it.



Preset Name	NO.	Time
-------------	-----	------

	Preset Setup
Door	Preset Call ▶
Window	Preset Tour ▶
Wall	

## Save Preset Tour steps

- Select a Preset Tour group name from the dropdown list to save your settings.
- Select a preset name from the Preset # dropdown list.
- Select a time from the Idle Time dropdown list. Putting this setting at 5 sec. will delay the PTZ 5 seconds before it moves to its next position.
- Click the “+” button to add this preset into the Tour group. Repeat these steps to add more preset.

## Save Preset Home position

Set a time from the “**Back home after xx sec. idle time**” dropdown list and select a preset name for the home position. The PTZ will automatically move to your home position if no operations have occurred during the time you have set.

## Run Preset Tour

On the main interface, clicking the  button will bring up the **PTZ operation** menu. Highlighting “**Preset Tour**” will show the sub-menu of the Tour group. Click the name to run it.

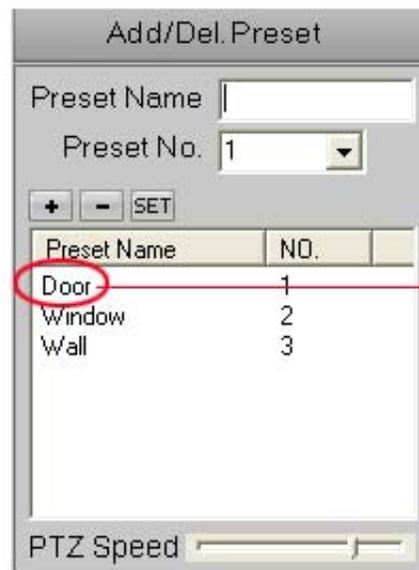
## Stop Preset Tour

After the preset tour starts up, you will have to stop it manually by operating any of the directional buttons.

### Advance Menu Operation

If you need change the system default settings of high speed dome, please refer to following steps. This operation only applies to the ILDVR Speed Dome.

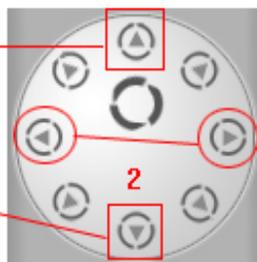
- Double click preset #1 or call preset #64 from the **Preset Setup** interface to bring up the PTZ system's **MAIN MENU**.



Double click preset 1  
to bring up the Main Menu

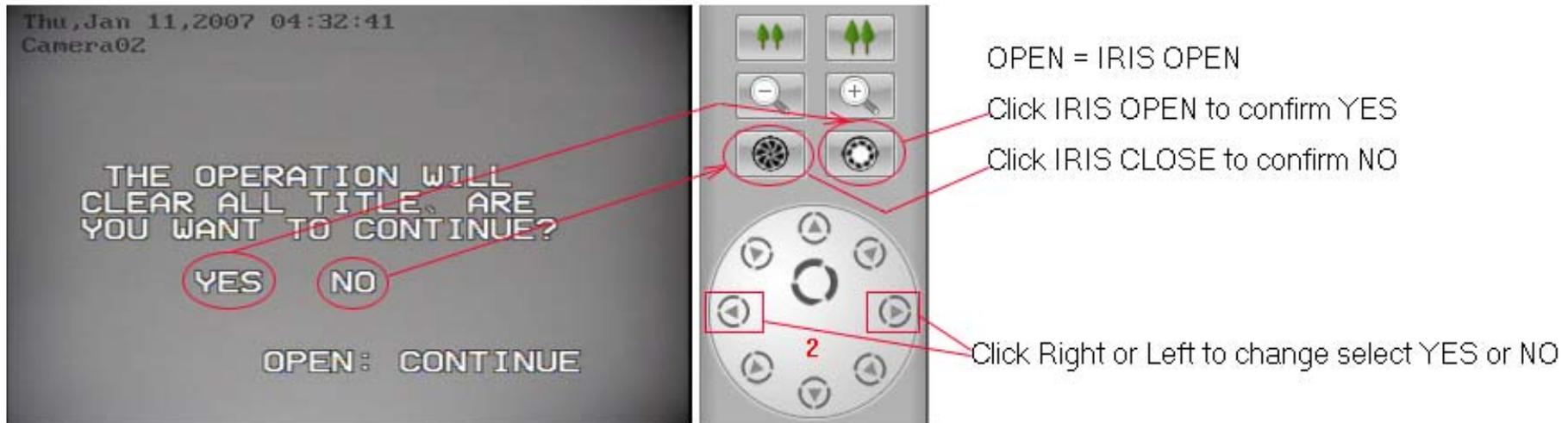
- When the main menu shows on the screen, click **“TILT UP”** or **“TILT DOWN”** to move the cursor to your selection. Click **“PAN LEFT”** or **“PAN RIGHT”** to enter the sub-menu or modify current selection if it's lacking its sub-menu. Repeat these steps until you finish all modifications.

Click UP or DOWN to  
change MENU item



Click RIGHT or LEFT to  
enter Sub-menu, or Save&Exit

- Special buttons like “CLOSE: EXIT”, “OPEN: CONTINUE”, and “PRESS OPEN TO ENTER” are represented through the “OPEN IRIS” and “CLOSE IRIS” buttons to finish the selection or enter/exit the menu. See the example below for better clarification.



#### Function Icons on the screen when the option DISPLAY is set ON

**Focus Control Mode:** When the camera is on focus near, the icon appears and when reach the nearest point, the icon appears. When on the focus far, the icon appears.

**Backlight Compensation:** when the monitoring object is dark or dim, you can open the backlight compensation according to actual need and the icon appears.

**White Balance:** when the image has color distort on the screen, you can set different modes to fix the problem. There are 6 options: ① Indoor Mode ② Outdoor Mode ③ Touch Mode ④ Automatic Trace of White Balance ATW. ⑤ Manual WB-MAN. ⑥ Automatic Mode.

**Zoom Control:** When the camera is on zoom in or zoom out, the icon will show up on the screen.

**B&W:** When the camera is on black and white status “B&W” appears on the screen.

**Minimum illumination:** The camera works on zero illumination status (lower than 1.0Lux).

#### 9.4 PC mouse operation on screen camera

Looking at the picture below, you can see how easy it is to control the PTZ by just using the screen. In the central area of the camera view, left clicking and holding down the mouse button gives you the opportunity of zooming in (by moving the mouse up on the picture) and zooming out (by moving the mouse down on the picture). Moving

the mouse to all four sides and all four corners of the screen can change the direction of the PTZ in that direction.



## 10. Data Backup

### 10.1 Backup by Time

**Backup by Time** is used to filter and output the recorded video from the original saved Data Pack (256MB per file). You can use a USB device or use the default path (**D:\\_Backup\_**) to backup your video file to. **Player.exe** is used to play back the backup video. It will automatically save to the Backup Path.

### Backup

Backup Path:

Select Start Time:

Select End Time:

Backup Data Size:

#### Backup Camera

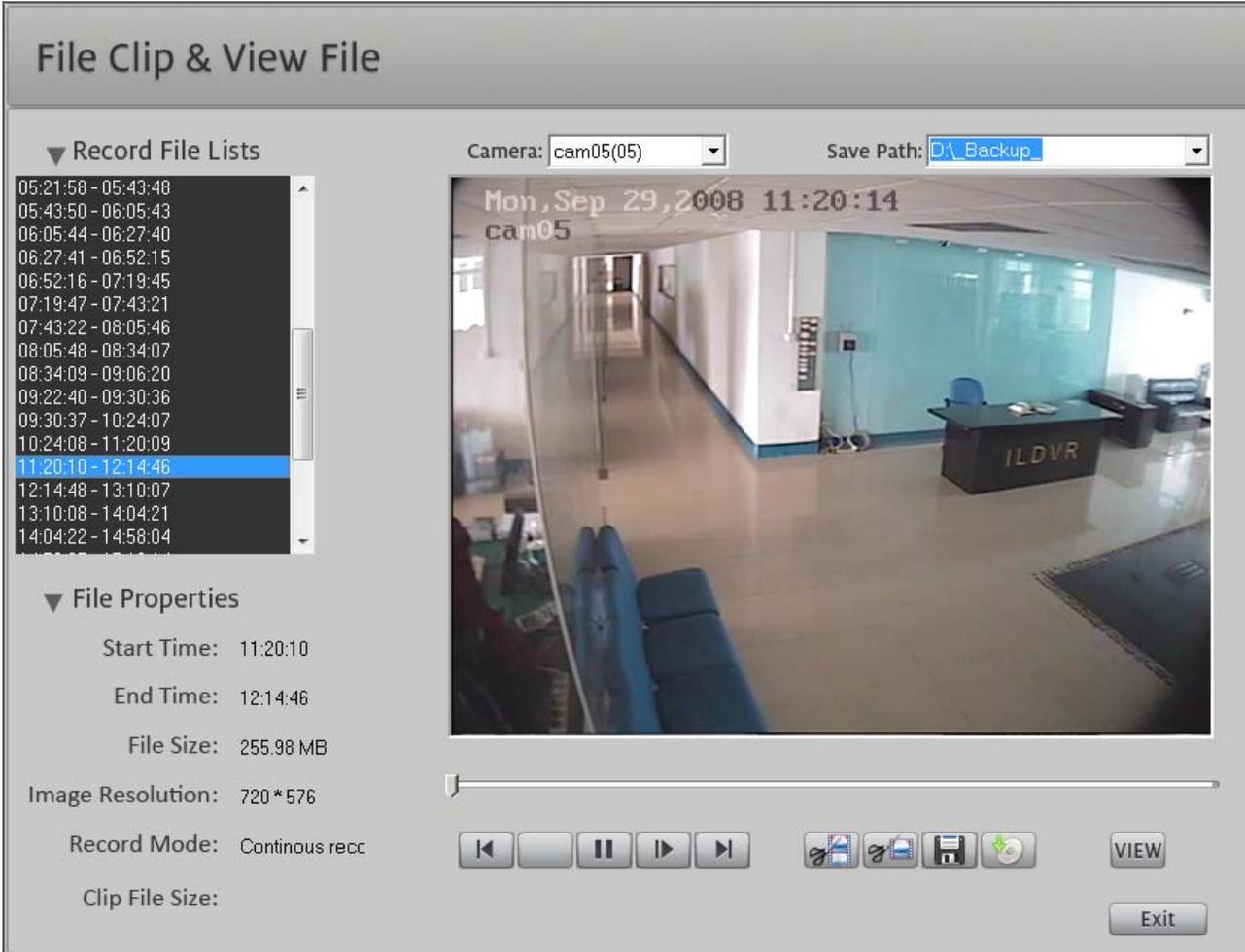
- Camera1
  - 090730073407-090730
  - 090730075641-090730
  - 090730082120-090730
  - 090730084623-090730
  - 090730091510-090730
  - 090730094700-090730
  - 090730102008-090730
  - 090730105340-090730
  - 090730112134-090730
  - 090730112735-090730
  - 090730115312-090730
  - 090730115625-090730
  - 090730120354-090730
  - 090730120708-090730
  - 090730123954-090730
  - 090730131354-090730
  - 090730134801-090730
  - 090730141939-090730
- INS350B
  - 090730073408-090730
  - 090730074212-090730
  - 090730080004-090730

#### Operations Steps:

1. In the Local Search interface, press the  button to enter your Backup interface.
2. Set the Backup Path.
3. Select the video start time.
4. Select the video end time.
5. Select the backup camera from your camera list. Click the  sign to expand the file list.
6. Click the “**Check**” button to display the target file size in the Backup Data Size box.
7. Click the “**Backup**” button to begin.

## 10.2 Video Clip

On the Local Search interface, press the  button to enter the **File Clip & Backup** interface.



### Operation steps:

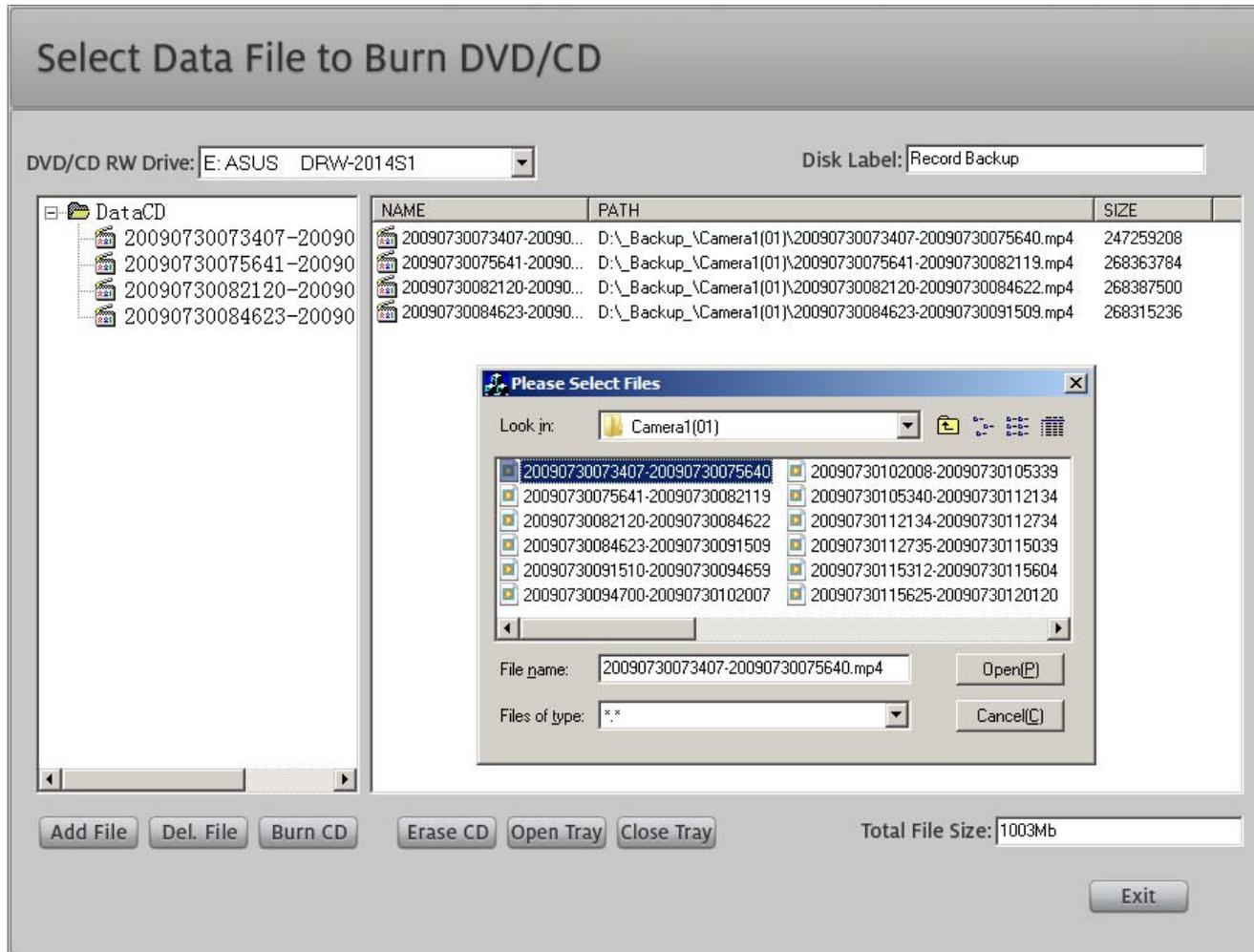
1. Set the clip file saving path.
2. Select the camera to search and clip
3. Double click a recorded file to play it from the Record File Lists.
4. Press the  button to begin video clipping.
5. Press the  button to end video clipping.
6. Press the  button to save the clipped file.
7. Press the **VIEW** button to play the clipped video.
8. Click the  button to delete the current viewing video clip.
9. Click the  button to delete all the video clips.
10. Press the  button to run the DVD/CD burning program. See next section.

Notice:

If you click the “View” button but there are nothing shows up in the “Record File Lists”, please check the “Save Path” folder. The default folder is set to D:\\_Backup\\_Camera## (## indicates the actual camera number).

### 10.3 Backup to CD/DVD

On the **File Clip & Back** interface, press the  button to run the **DVD/CD burning program**. This purpose of this function is to burn DVD and CD copies of the video that has been backed up by the two methods we just discussed earlier (see Section 10.1 and Section 10.2).

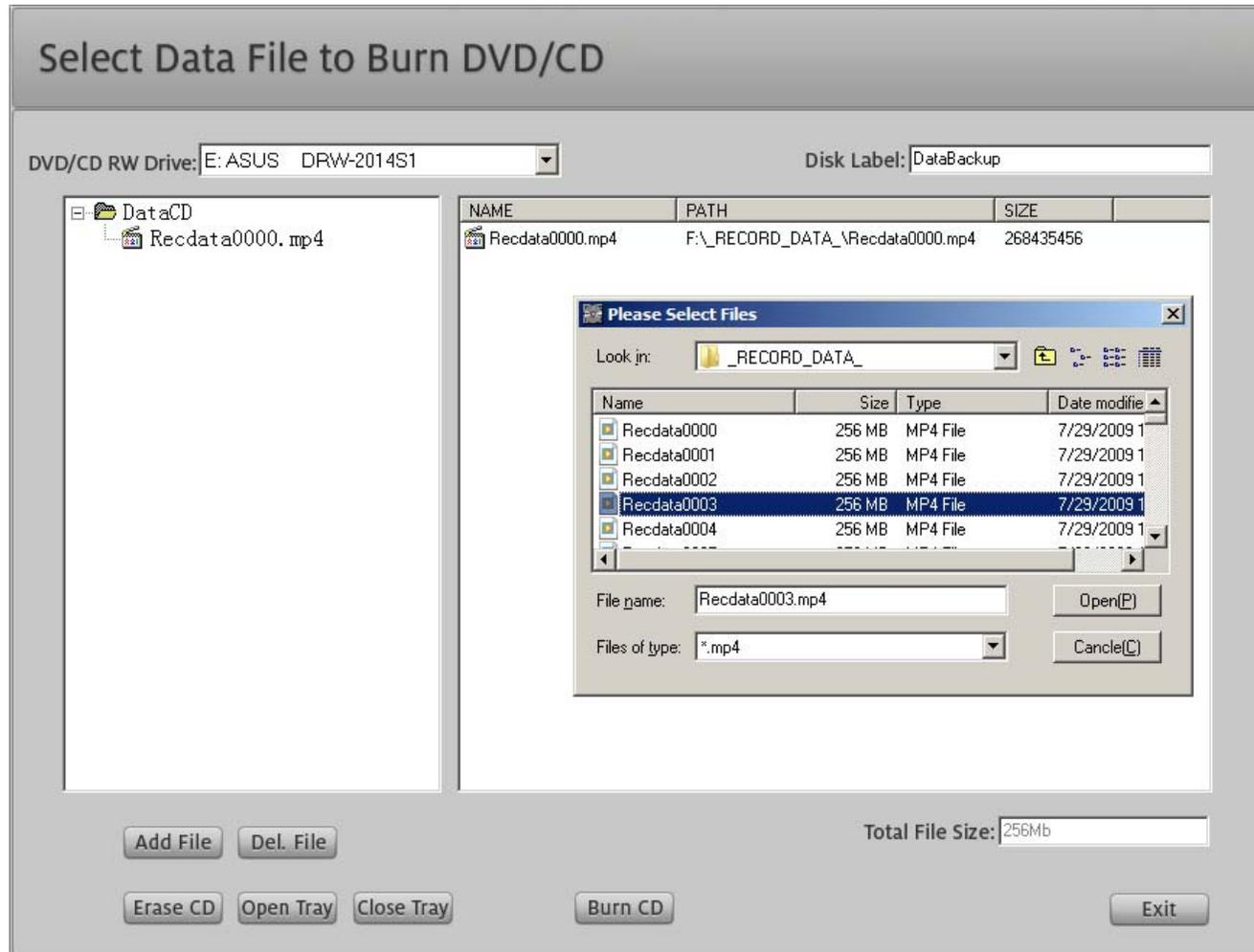


#### Operation steps:

1. Check the DVD/CD RW drive name to make sure that you have selected the right drive.
2. Label the DVD/CD that you will be backing up your files on.
3. Press the “**Add File**” button to import the video files that you would like to backup. You can press the “**Del. File**” button to change your selection.
4. Please check the “**Total File Size**” to make sure that your backup data is not exceeding the disk’s free space.
5. Press the “**Burn**” button to begin burning. If the DVD/CD disk is re-writable, you can press the “**Erase CD**” button to erase the data that is on it.

## 10.4 Burn data CD/DVD

On the main interface, press the  button to run **the DVD/CD burning program**. This program is designed to backup the video files of the original recordings.



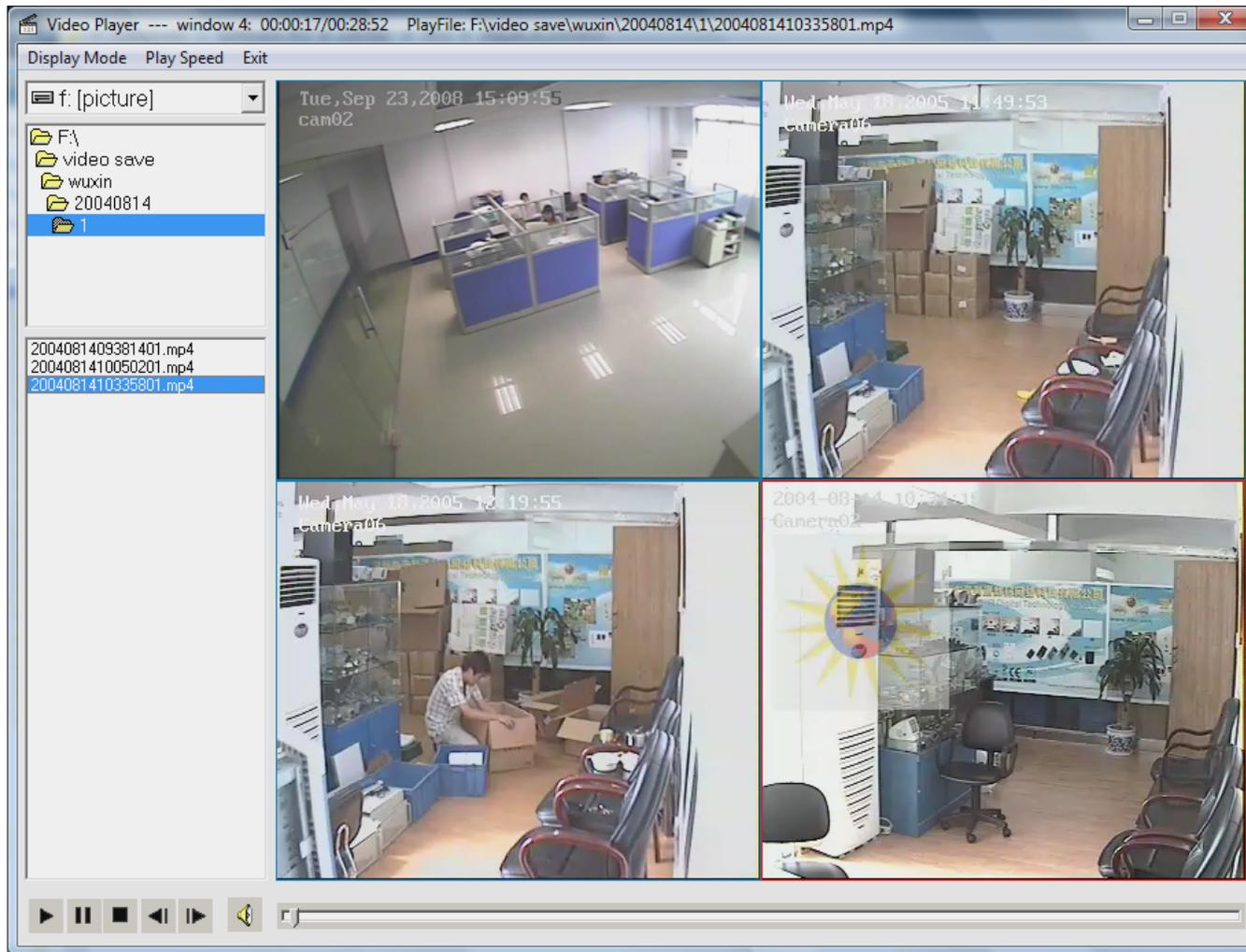
All the operation steps are exactly the same as Section 10.3.

### **Important:**

Because of the difference in design, the DVD/CD that you burn from here will take longer to play because of its larger file size (256MB per file). A normal DVD/CD ROM needs about 3 to 5 minutes to cache one file to the system's memory. Please properly select your backup method according to your needs.

## 10.5 Viewing Backup Data

If you successfully burn a backup onto a DVD or CD, the software used to playback the recorded video will always be included in the video folder. Insert the backup disc into any PC CD ROM and “**Player.exe**” will auto-run. Once it starts, Video Player will display 4 sub-windows on your screen.



### Operation steps:

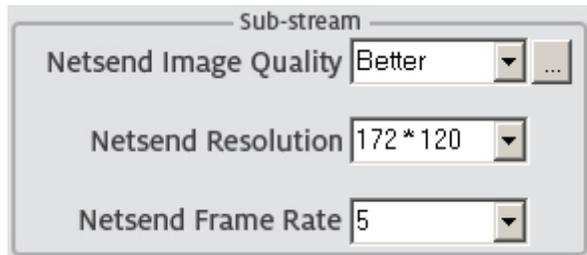
**Step1:** Select the disk drive from the drive's dropdown list.

**Step2:** Locate the video file's saved path from the folder list. If you open a folder that contains any video files in it, all of the video files will list in the table below.

**Step3:** Click on a sub-window to activate it. Double click a video file to play it in this sub-window.

## 11. PDA / Cell Phone Remote View

The DVR system supports 3 types of mobile phone operating systems: **Windows Mobile, Linux, and Symbian S60**. Please check your PDA/cell phone to see what type of video resolution it can support (usually it's either CIF or QCIF). Configure the “**Netsend Resolution**” on the Camera Setup interface to match your cell phone's resolution.



Sub-stream

Netsend Image Quality Better

Netsend Resolution 172\*120

Netsend Frame Rate 5

The mobile DVR uses sub-stream video transmission. In the “**Camera Setup**” interface, please set the camera's **Netsend Resolution to 172\*120**. It must be different than the recorded image size. Set the Netsend Frame Rate to a number less than 5.

Cellphone Port 5101

The DVR system uses port 5101 for the default mobile DVR TCP port number. You must configure your internet router (if you have one) to open this port for remote access. You can change the default TCP port number if necessary.

Visit **http://YourSeverAddress/mobiledvr** or directly input your DVR server's IP address (domain name) the web browser on your mobile device. **Please replace 'YourSeverAddress' with your own DVR server address**. The java program components will automatically download and install to your mobile phone. The process may take up to several minutes depending on your internet speed. After that, a login dialog will pop up asking you to input your login ID and password in order to access the DVR server. If your mobile phone has a good internet connection, waiting about 15 seconds will help you to achieve around a 3 to 5 fps viewing speed.

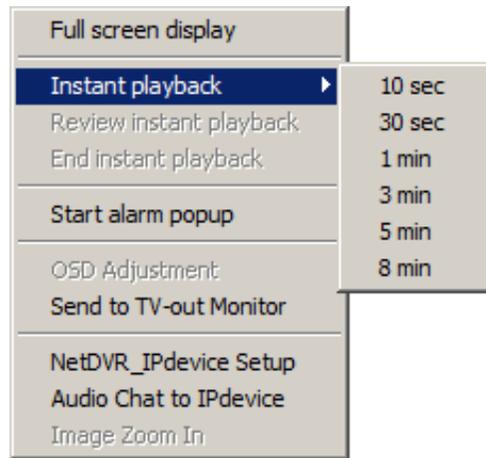
If this doesn't work for you, you can download/copy the 2 files **MobileDvr.jad and MobileDVR.jar** to any folder in your mobile phone. Run MobileDvr.jar to install the java program, which is inside the folder on your mobile device. You can find the 2 files on the ILDVR server installation folder (C:\Program Files\ILDVR Hybrid Server\).

## 12. Miscellaneous Operation

### 12.1 Instant Playback

In the camera's **Right-click menu**, select "**Instant playback**" and choose one of the time options to play video from within the last few minutes. In the Right-click menu, select "**End playback**" to end it.

**Note: If the camera is not on the status of recording video at the moment when you do Instant Playback, the camera will show black screen.**



The **Right-click menu** might change on different type of camera.

"**Start alarm popup**" will be available after you set a switch time for the **Popup Alarm Camera** in **System Configuration**

"**OSD Adjustment**" is not available for IP Camera

"**Send to TV-out Monitor**" will be available after you install decode card in the DVR system

"**Image Zoom In**" is only available for Mega IP Camera and NetDVR's camera

### 12.2 Audio spy

Audio spy lets you locally monitor the audio attached to every camera. This function needs a sound card and speaker to work. Please refer to Section 4.2 to configure Audio Record.

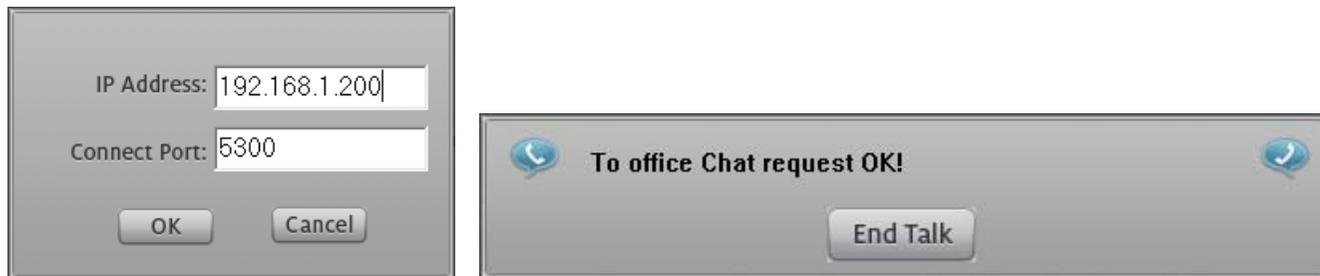


Refer to Section 4.1 to configure Audio Monitor.



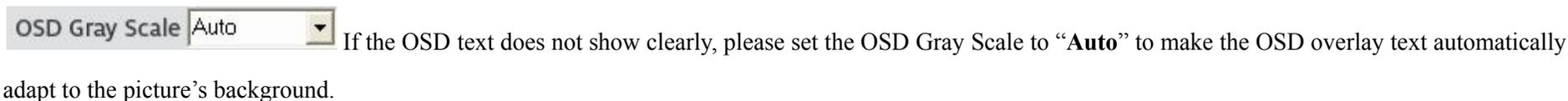
### 12.3 Remote Talk

The Remote Talk function needs a sound card, speakers, and a microphone to work. On the main interface, click the  button to enter **Remote Talk** mode. Enter the remote IP address and TCP port number and click “**OK**” when finished.



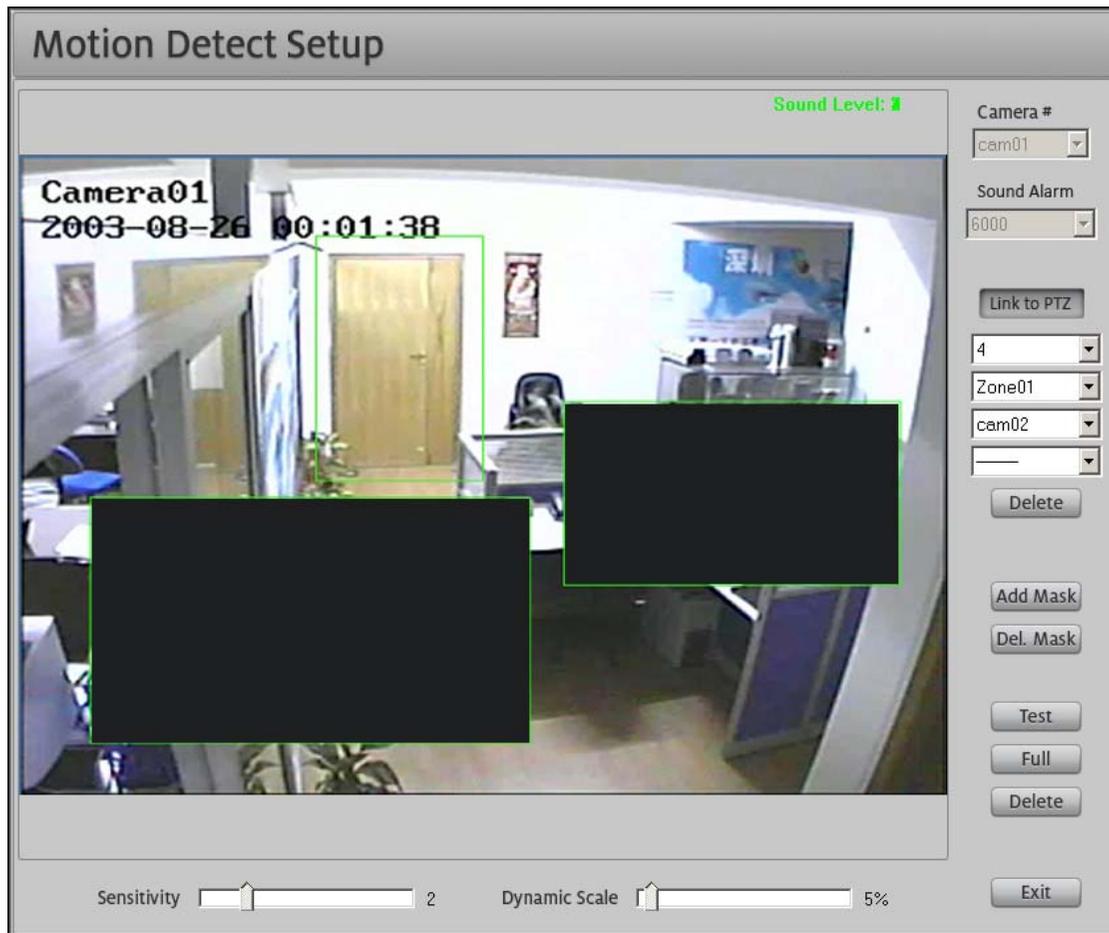
### 12.4 Adjust OSD Position

In the camera’s **Right-click menu**, select “**OSD Adjustment**” to bring up the OSD Position Setup interface so that you may drag & drop the OSD overlay text onto the target position on the camera picture.



### 12.5 Mask Private Area

This setting is similar to the **Motion Detect** setting. On the main interface, press the  button to display the **Motion Detect Setup** interface. Click the “**Add Mask**” button and draw a rectangular area in the camera by holding down the left mouse button and moving it around. This area will turn black immediately after you do this. You can set a maximum of 12 mask zones per each camera. Clicking the “**Del. Mask**” button will delete all mask zones.

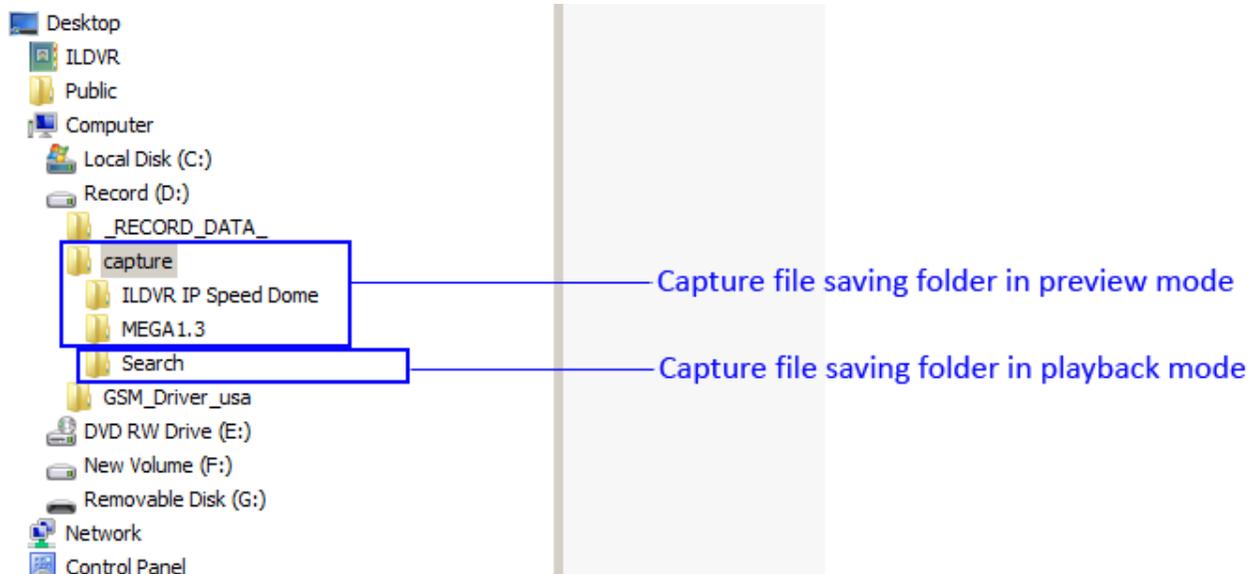


## 12.6 Capture Picture

### Capture image in preview mode

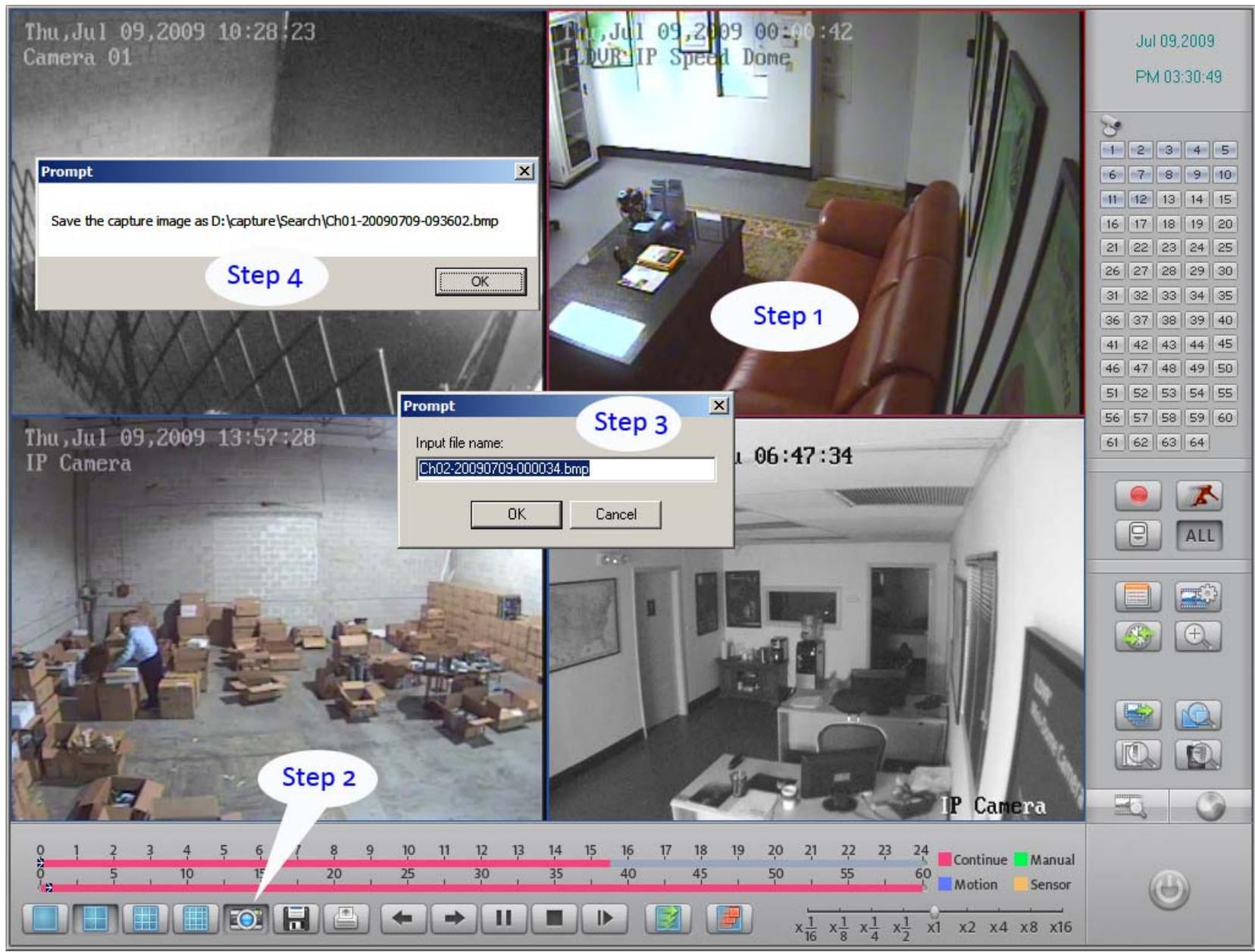
When you press the  button on the main interface, the DVR system will automatically capture one picture of the active camera and save it in the folder that you assigned in the System Configuration interface's "**Grab Picture Save Path**". If you didn't set a path, the DVR will use the default path D:\capture\**camera\_name**. The **camera\_name** is the alias you entered in the **Camera Setup** interface (See following illustration). The DVR only grabs the active camera picture, so if you wanted

to take a snap shot of the screen all you would have to do to is 1) click the target camera and 2) click the capture button.



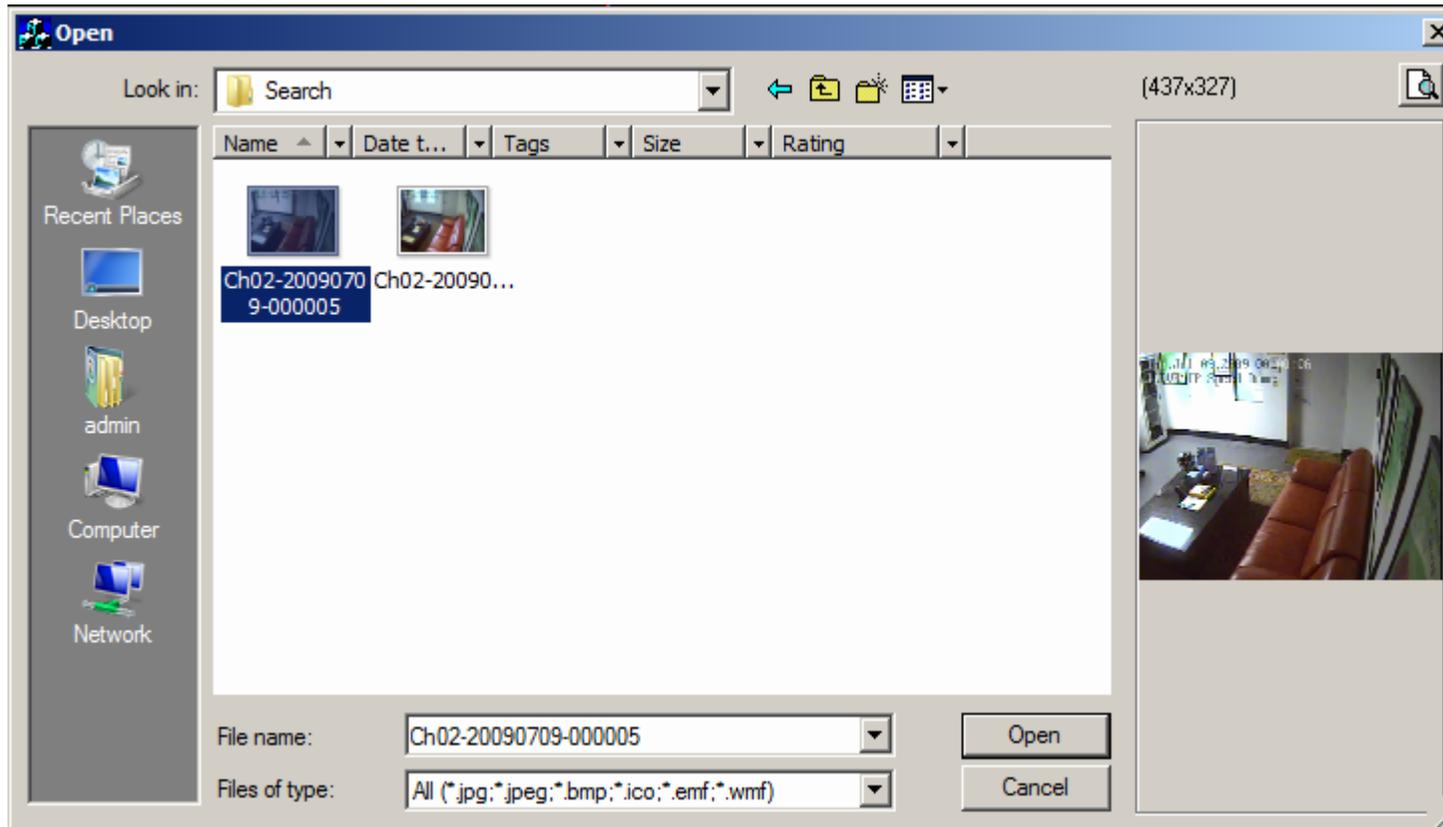
### Capture image in playback mode

In playback mode, click the  button to grab a picture from the active searching camera and save it into your saved pictures folder (default path) D:\capture\Search\filename. The **filename** is the name you entered in the dialog box. If you don't name it, the DVR will use the camera name or channel number plus the current time for the file name. See following illustration.



## 12.7 Print Picture

You can print the captured image if the DVR system has a printer installed. In the Search interface, press the  button to bring up the **Windows Open** dialog interface. Then you must locate and open the picture saved in the above section.



## 12.8 Manually Control Relay out

This function needs an alarm controller in order to work.



Open the alarm control panel on the main interface. Once you're on the main interface, click the D/O port number icon to manually trigger the relay out port. This function can be used to integrate other devices to turn on lights, open doors, and so on.

## 12.9 System Log

### Write on duty log

On the main interface, press the  button to display the “**On Duty Log**” interface. The administrator/operator will write his work report/event messages in here. Click the “**Finish**” button to save your work log. All messages you create and save will be stored in the system log.

### View system log

On the main interface, press the  button to display the following “**System Log List**” interface. Here you can search archived system logs or backup system logs within a longer time frame, compared to the default settings of 30 days for Log Archiving.

It is also very important to export the system log to a text file and send it to ILDVR for technical support if the DVR system is running abnormal.

## On Duty Log

User ID

On duty time

Off duty time

### Work Log

## System Log

Search by Date  Archived log type

Filters

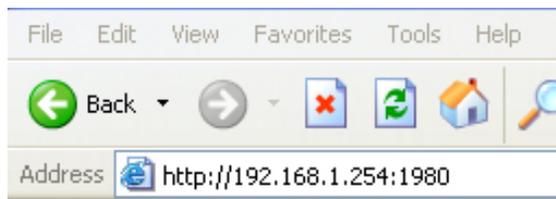
3:14:48 admin Capture image cam01  
3:14:52 admin Capture image cam01  
3:19:26 admin Capture image cam01  
3:34:48 admin Enter Video Playback  
4:41:53 admin Exit program  
12:43:17 Open POS Device LAN1 fail  
12:43:17 admin System Started  
12:43:21 admin Enter Video Playback  
12:43:56 admin Exit program  
13:01:51 Open POS Device LAN1 fail  
13:01:51 admin System Started  
13:02:04 admin Write to working log

### 13. IE Web Client

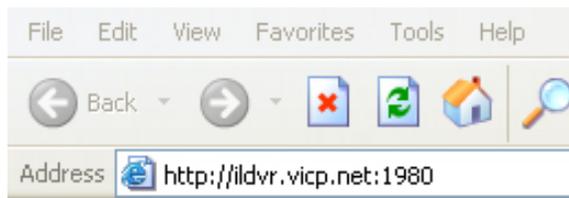
Both ILDVR Server and ILDVR Live Center supports the PC-DVR web client (IE CLIENT). Live Center works as a video server to forward video stream to the web client to reduce the DVR Server's network load and save network bandwidth.

#### 13.1 Download and install ActiveX Control

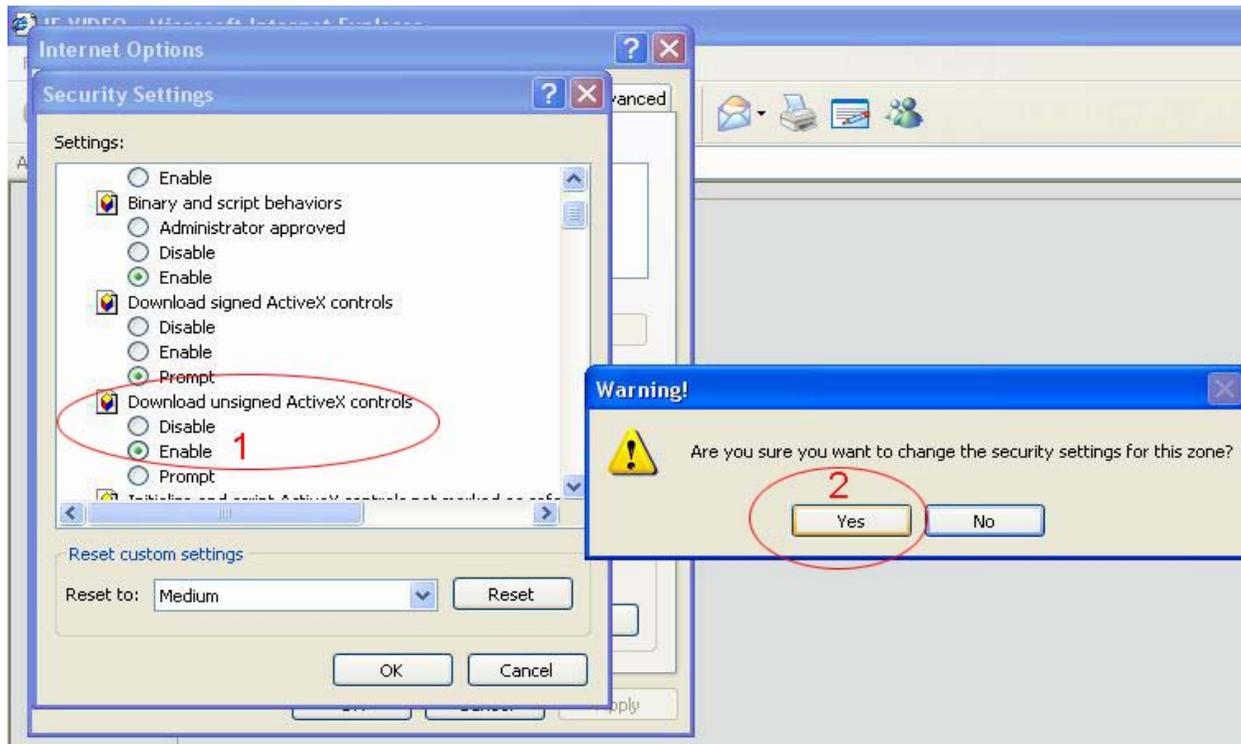
Run Internet Explorer and enter the DVR Server/Live Center IP address and web listening port in the address box. Press “**Enter**” and a security warning will appear after connecting with the DVR server. This warning is the Active X control that needs to be downloaded in order to use this feature. Click “**Yes**” to continue.



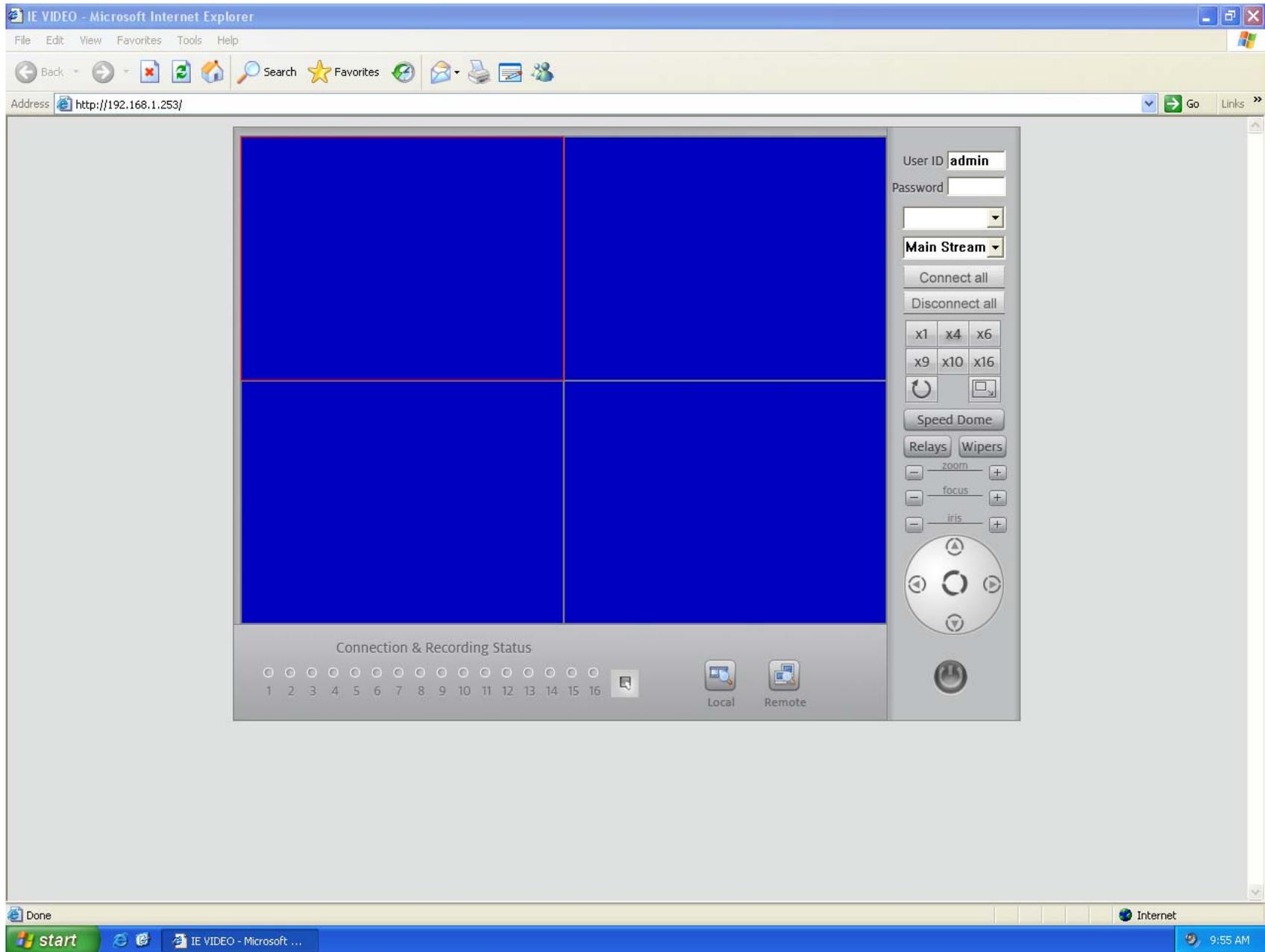
If you have correctly configured the DVR server with DNS/DDNS, you can also input the DVR server domain name and web listening port in the IE address box.



**Windows XP/VISTA security settings prevent users from installing unsigned ActiveX controls. You must turn off Windows firewall and change IE security settings to enable “Download of unsigned ActiveX controls”. After it's done installing the ILDVR web client, please restore your IE security setting back to its original settings. See the following 2 diagrams.**



After installing the ActiveX controls, the following web client interface will show on your screen. Click the camera number icon to connect each camera one by one, or click the “**Connect all**” button to connect all your cameras at once.



The screenshot displays a PC-DVR software interface. The main area is a 3x3 grid of camera feeds. The top-left feed is a blue screen with the text "No View Right". The other feeds show various indoor scenes: a long factory floor with workbenches, a reception desk, a hallway, and a storage area with boxes. To the right of the grid is a control panel with the following elements:

- User ID:
- Password:
- Stream selection dropdown: **Main Stream**
- Buttons: **Connect all**, **Disconnect all**
- Zoom buttons: **x1**, **x4**, **x6**, **x9**, **x10**, **x16**
- Refresh and crop icons
- Speed Dome button
- Relays and Wipers buttons
- Zoom, focus, and iris controls (each with - and + buttons)
- Navigation pad with directional arrows and a central refresh icon
- Power button

At the bottom of the interface is a "Connection & Recording Status" bar. It contains 16 numbered indicators (1-16) and a chat icon. Indicators 1-8 are blue, 9-10 are white, and 11-16 are grey. Below the indicators are "Local" and "Remote" icons.

## 13.2 Control panel

User ID   
Password

Enter user name and password to log in.

**Main Stream**

This displays the current active channel's camera name and stream type.

Connect all  
Disconnect all

Connect and disconnect buttons.

x1 x4 x6  
x9 x10 x16

Split viewing mode.



This is the full screen mode on/off buttons.

Speed Dome

Speed Dome control on/off.

Relays Wipers

Relay out control button.

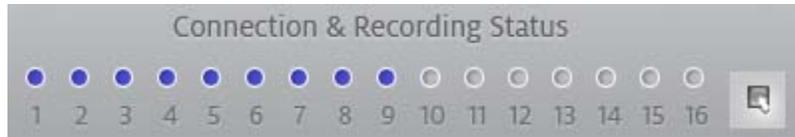
zoom +  
focus +  
iris +

Lens control button.



Pan/Tilt control button.

### 13.3 Remote Record



Channel number and status indicator button. Click this button to start recording onto your remote client's hard disk drive.

-  Connecting status indicator (**blue** color): Clicking this will change the status to  (**green** color) and the camera will start recording video.
-  No connection status indicator.
-  Record status indicator (**green** color): Clicking this will change the status to  (**blue** color) and the camera to stop recording.
-  Change-All button: Click this button to change every channels status. Click it again to restore every one of the status channels to its original setting.

### 13.4 Remote Search



Click the  button to enter the **Remote Search** interface. Choosing a specific date and camera will bring up all the recorded data into the right info box. Click any file to display it.

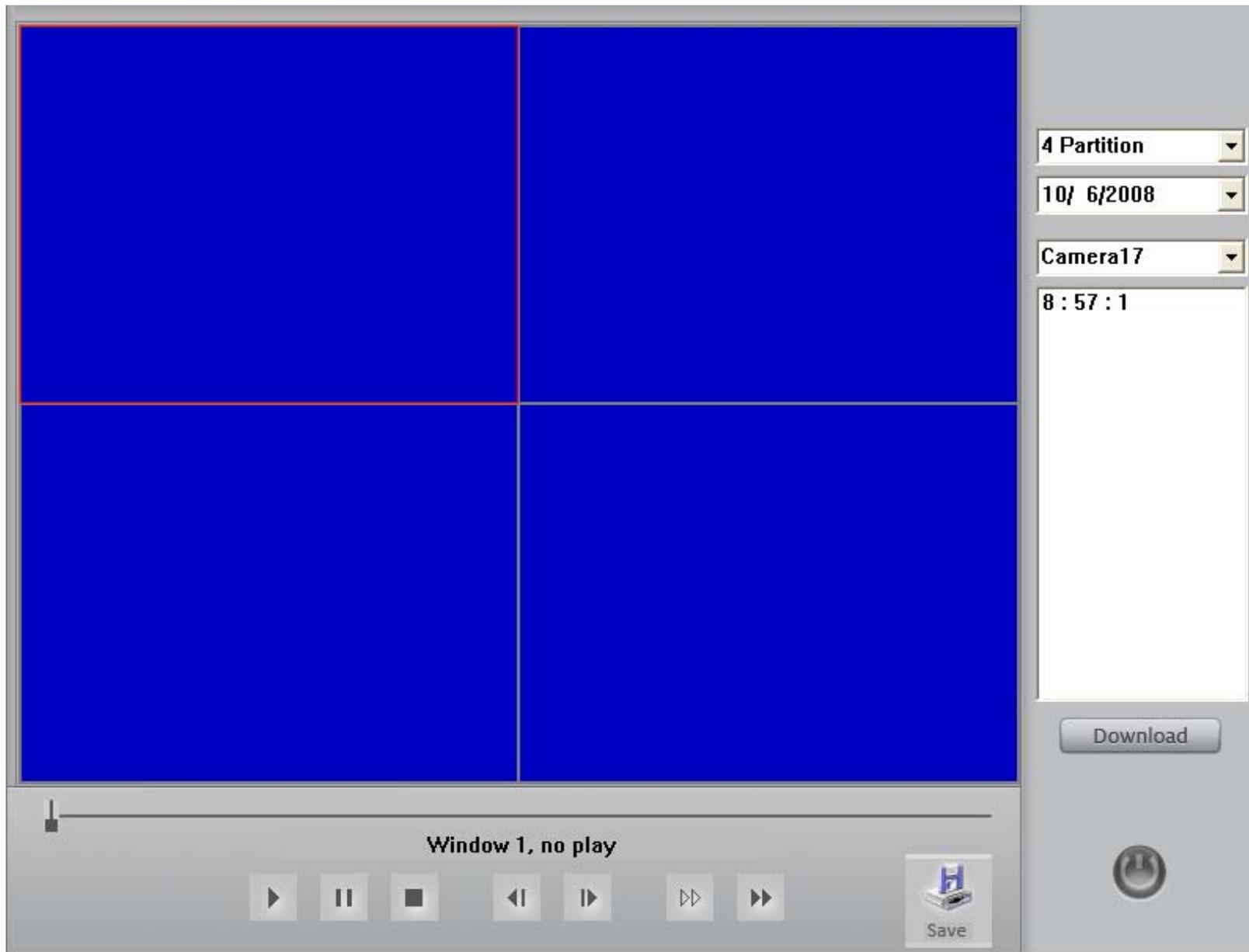


Control buttons from left to right: Play, Pause, Stop, Last Frame, Next Frame, Low Speed Play, Fast Speed Play.

**Note: The "Last Frame" button does not work because the remote search is playing streaming video. It will only work if you are looking at recorded data.**



Save button: Click this button to save the displayed camera video to your local disk. All video displayed will be recorded in the DVR server, but you can download the video when you are in remote playback simply by clicking this button.



### 13.5 Local Search



Click the  button to enter the **Local Search** interface (shown below). All displayed video are manually recorded on a local disk via the web client.

The screenshot displays the Local Search interface with four camera feeds and a search list. The feeds are:

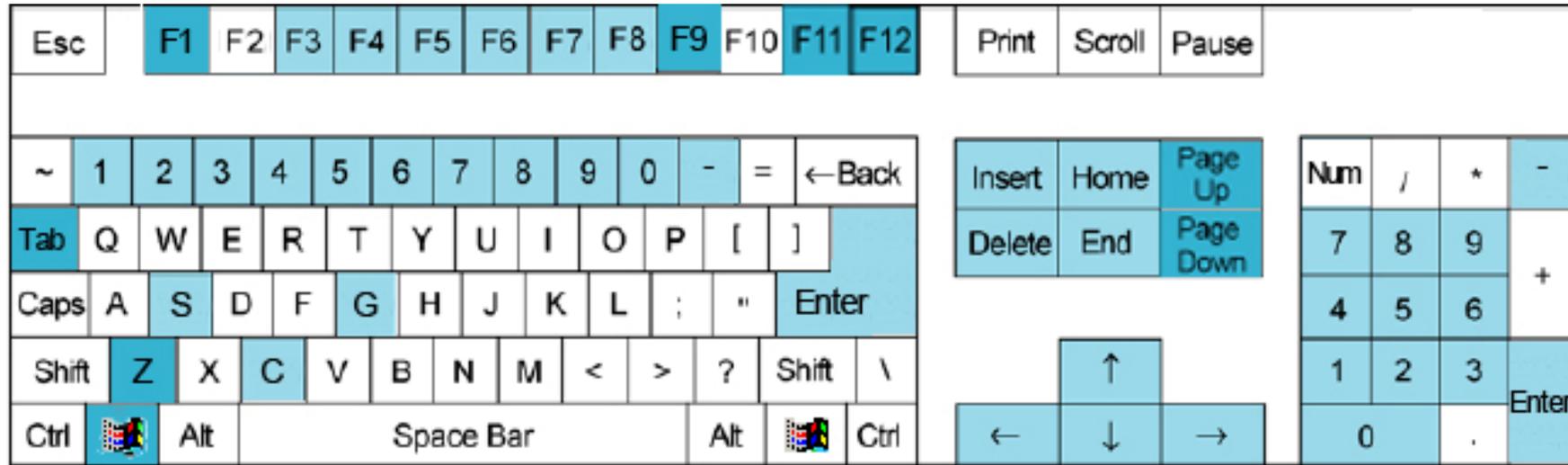
- Top-left: Camera01, Fri, Nov 18, 2005 AM08:31:56. Shows an outdoor area with a blue truck.
- Top-right: Camera02, Fri, Nov 18, 2005 AM08:26:06. Shows an indoor hallway with a person walking.
- Bottom-left: Camera04, Fri, Nov 18, 2005 AM08:24:55. Shows an indoor room with boxes and equipment.
- Bottom-right: Camera06, Fri, Nov 18, 2005 PM03:34:08. Shows an indoor office area.

On the right side, there is a search list with the following timestamps:

- 4 Partition
- 10/ 6/2008
- 13 : 54 : 41
- 15 : 0 : 5
- 15 : 34 : 3 (highlighted)
- 16 : 40 : 43
- 17 : 46 : 8
- 18 : 30 : 0
- 18 : 30 : 6
- 18 : 30 : 25
- 18 : 32 : 14
- 18 : 33 : 18
- 18 : 38 : 16
- 18 : 42 : 19
- 18 : 42 : 33
- 18 : 42 : 51
- 18 : 43 : 5
- 18 : 43 : 37
- 18 : 43 : 50
- 18 : 44 : 16

At the bottom, there is a playback control bar with the text "Window1, No Play" and several navigation buttons (play, pause, stop, previous, next, first, last). A power button is also visible on the right side.

## Appendix A: PC Keyboard PTZ Control Guide



 The light blue color keys are used to control the PTZ.  The dark blue color keys are used to control all other functions.

PTZ Control:

Keyboard	Function
↑	UP
↓	DOWN
←	LEFT
→	RIGHT
Home	ZOOM IN
End	ZOOM OUT
Insert	FOCUS IN

Delete	FOCUS OUT
S	Save Preset
G, Enter	Call Preset
C, -, Num0-9	Delete Preset
F3-F8	Run PTZ Tour, F3 - F8 means 3 to 8 second interval

Other Control:

Keyboard	Function
F1	Reserved
Tab	Switch camera / channel
Page Down	Switch to next camera / channel
Page UP	Switch to ahead camera / channel
F9	All cameras record 30 seconds urgently
F11	Single screen enlarge / shrink
F12	Full screen switch
WIN+ Z	Hide screen

## Appendix B: Edit PTZ protocol to run AUTO PAN

Some PTZ protocols do not support the **Auto Pan** feature. There is, however, a way to get around this flaw. In order to use the Auto Pan feature, you must edit the .ini file for the protocol you are using and change some specific values for the left and right movement. We're going to use protocol PELCO-D (H) as an example. Open C:\Program File\ILDVR DVR Server\PTZ\_Lib\Pelco\_D\_H.ini with Notepad.exe and locate the following sentence:

```
[AutoOpen]
Start3=0x90
Start4=0x00
```

Change the Start3 and Start4 in AutoOpen to one of the Left and one of the Right values listed below:

```
[Left] left direction
Start3=0x00
Start4=0x04
```

```
[Right] right direction
Start3=0x00
Start4=0x02
```

Changing the settings will force the PTZ to Auto Pan.

## Appendix C: Change DVR card's default setting

In the Tools panel, press the  button to open the **Video Card Setup** interface.

ILDVR 3000H4xx Series DVR cards channel settings list below.

Model name	Default channel setting	Support channel options	Support Dual-Stream?
3000H4C4	4×CIF	4×CIF 2×CIF + 1×D1 1×CIF + 2×D1	Yes
3000H4C8	8×CIF	8×CIF 6×CIF + 1×D1 4×CIF + 2×D1 2×CIF + 3×D1 4×D1	Yes
3000H4C16	16×CIF	16×CIF	No
3000H4C4+	4×CIF	4×DCIF 2×DCIF + 1×D1 1×DCIF + 2×D1	Yes
3000H4C8+	8×CIF	8×DCIF 6×DCIF + 1×D1 4×DCIF + 2×D1 2×DCIF + 3×D1 4×D1	Yes
3000H4C16+	16×CIF	16×DCIF 14×DCIF + 1×D1 12×DCIF + 2×D1 10×DCIF + 3×D1 8×DCIF + 4×D1 6×DCIF + 5×D1 4×DCIF + 6×D1 2×DCIF + 7×D1 8×D1	Yes
3000H4F8	8×D1	8×D1	Yes

### Video Card Setup

3000H4C4	4 × CIF
3000H4C+16	8 × D1
3000H4F8	8 × D1
3000H4C+8	4 × D1
3000H4C8	8 × CIF
3000H4C16	16 × CIF

3000H4G8	8×CIF	8×CIF	No
3000H4G16	16×CIF	16×CIF	No

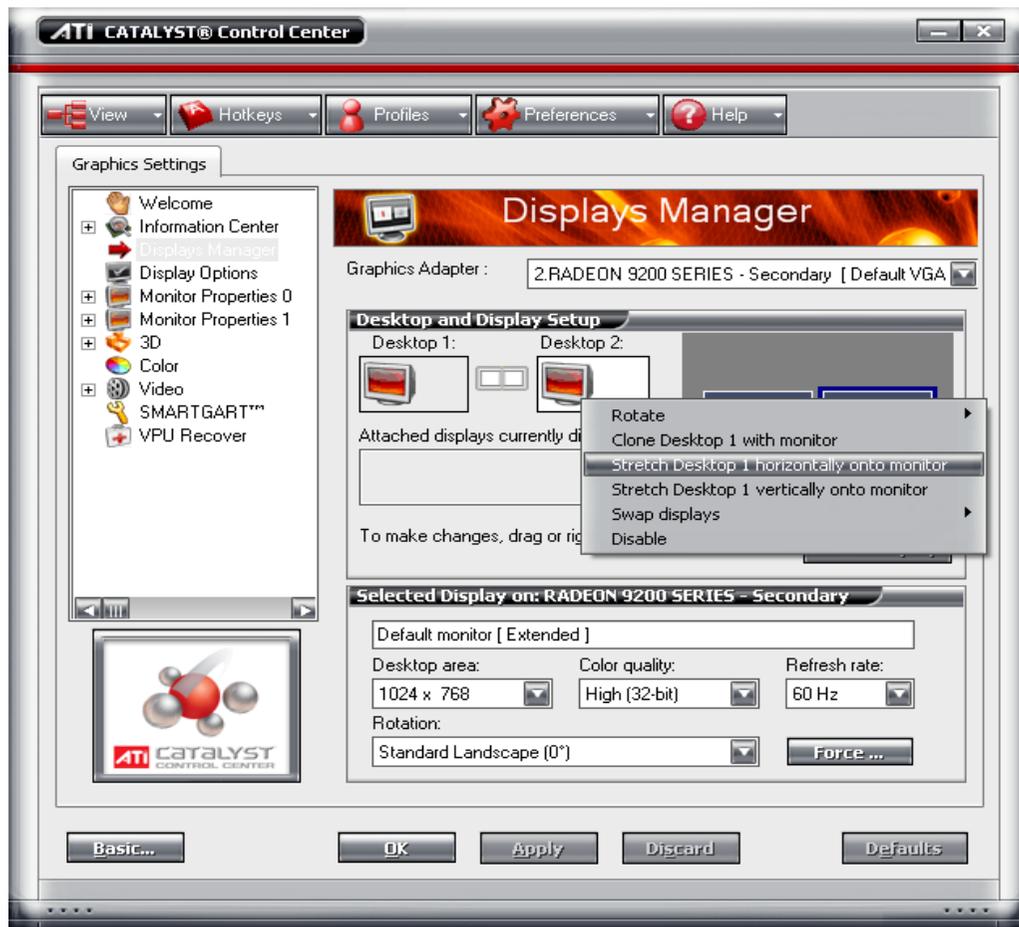
Notes:

- ILDVR3000H4C4 and 3000H4C8 cards support CIF and D1 AutoF resolution recording. D1 AutoF has a max. of 13-17 fps, depending on the PC's performance.
- 3000H4C+4, 3000H4C+8, 3000H4C+16 cards support DCIF and full D1 resolution recording.
- 3000H4G8 and 3000H4G16 cards only supports CIF resolution recording.
- 3000H4F8 only supports D1 resolution recording.
- When changing the DVR card settings from CIF to D1, you will lose half the channels you originally had. An 8 channel card now turns to 4 channels. You end up losing all the even channels in this process. For example, if you switch the 3000H4C+8 from CIF to D1, VID2, VID4, VID6, and VID8 will be disabled.
- To set D1 resolution recording, you will also need to set the Record Resolution to 704×480 in the Camera Setup. See Section 4.2.

## Appendix D: Dual-monitor Configuration

Due to architectural changes in the new Windows Vista Window Display Driver Model (WDDM), span mode (stretch desktop) cannot function with NVIDIA and ATI graphics drivers. To implement the dual-monitor feature, user must install Windows XP or Windows 2k OS.

The following illustrations show how to use ATI CATALYST Control Center to configure ATI series display cards and use the DVR system to implement dual-monitor capabilities. Please set each monitor's resolution to 1024x768.



Step 1:

Select Display Manager

Step 2:

Right click Desktop 2, and from the popup menu select “Stretch Desktop 1 horizontally onto monitor”.



Step 3:  
Set the desktop area to 2048x768. Now  
the second monitor is enabled.

## Appendix E: P.O.S./ATM machine integration

Effective POS/ATM surveillance systems use video text overlay technology to remotely monitor cashier areas, associate POS/cash register transaction data with videos, record videos and store all transaction data in Microsoft Access format for retroactive analysis, event monitor features, and output alarms for emergency situations.

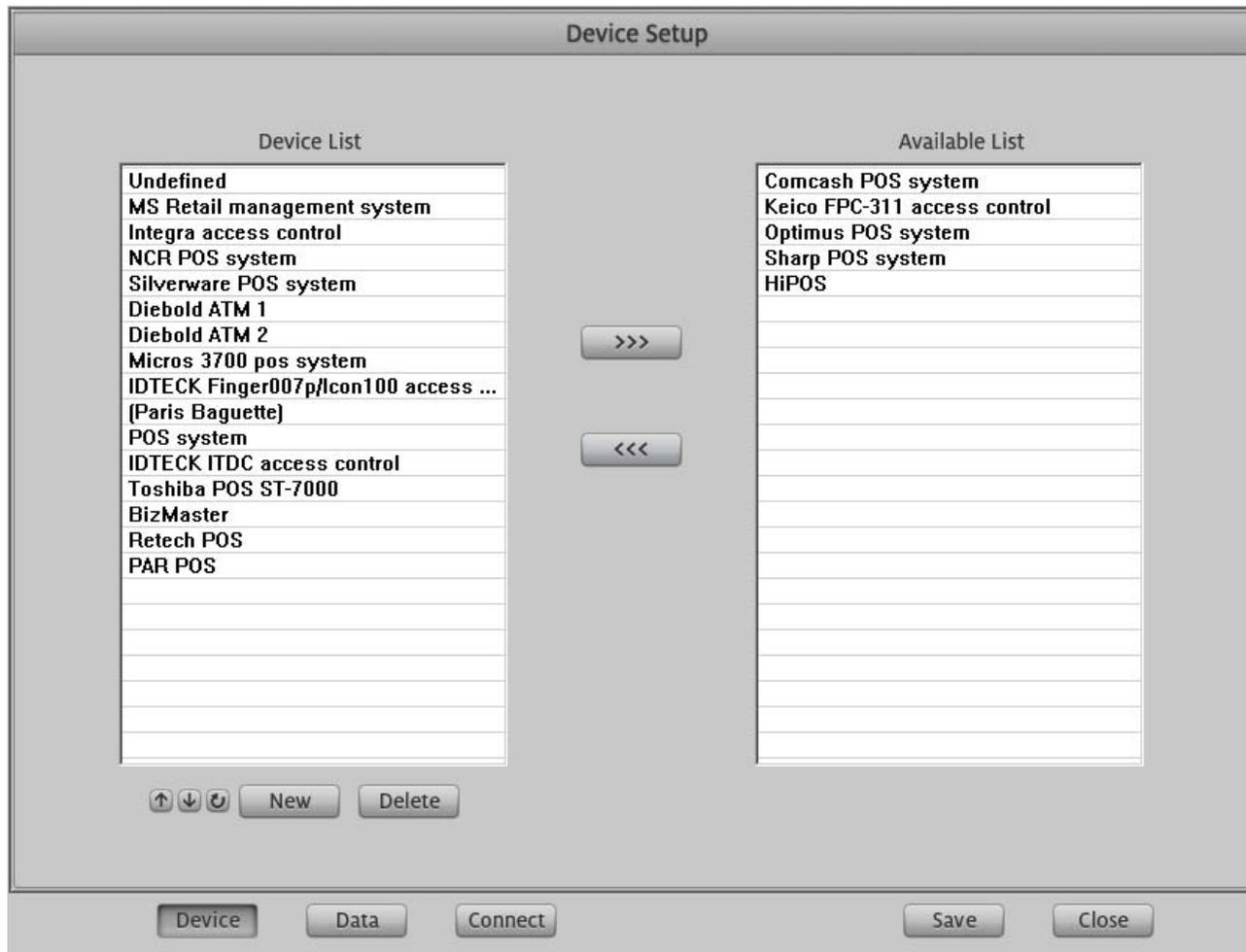
### 1. System Connections

ILDVR Server v9.x supports up to 48 POS/Cash register devices integrated into one PC-DVR system. COM ports can support a maximum of 16 connections each, while TCP ports can support up to 32 devices.

### 2. Device Setup

To use the ILDVR POS function, please enable “**ATM/POS Support**” in the System Configuration interface. On the Tools interface panel, click the  button to enter the **POS/ATM Function Setup** interface. There are 3 setup interfaces: **Device Setup**, **Data Filter Settings**, and **Connection Settings**. In the **Device page**, the “**Device List**” shows all the brand names of POS/ATM machines that the ILDVR system supports. The “**Available List**” shows all devices that can be used in the data filter configuration in the next section.

Please check your POS / ATM machine from the device list and move it to the Available List to enable it for use. If your device is not in the list, please click the “**New**” button so that you may add your device and name it for use. New devices must be setup correctly before being used. How to configure a new device? Please take a look at the next section.






 Click these buttons to put the device name in reverse or alphabetical order.

### 3. Data Setup

The DVR system captures data that transfers from a POS/Cash Register and analyzes the data according to the rules you set up. All rules must comply with the priority order. By default, the priority of 1 is set to “**Line**”. The priority of 8 is set to “**Addition**” (from left to right).

### 3.1 Rule of Line

On the “Line” setup interface, if there are no lines listed in the table, please click the “New” button to add a new Line. A “Line” represents a row of data in the table. If the Line already exists in the table, the “Update” button will replace the “New” button. You can select an existing “Line” in the table by clicking the “Update” button to modify it. Of course, you can delete a “Line” from the table by clicking the “Delete” button. This operation step applies to all the Rules setup interfaces.

Type	Position	Offset	Operation	Length	Data
Hexa	End	0	=	0	0A

- Type:** Choose a data type, either “Hexa” or “Ascii”
- Operation:** Select an operator used to compare ‘Data’ values with the data from the POS device.
- Position:** Select the position in which to search the data string.
- Offset:** Set the offset value.
- Data:** Set the Data to trigger the operation.

### 3.2 Trans

Set the rule for separating two sequential transactions. The setup operation steps are almost the same as Line (See above section).

### 3.3 Include

Set the rule for including a string or character to be displayed on the screen. The setup operation steps are almost the same as Line (See above section).

### 3.4 Exclude

Set the rule for excluding a string or character to be displayed on the screen. The setup operation steps are almost the same as Line (See above section).

### 3.5 Invalid

Set the rule for discarding a string or character. The setup operation steps are almost the same as Line (See above section).

**Notice: If you set different rules with the same “Data” value that causes conflict, the system will operate by priority orders. That means that the higher priority rule will be executed.**

### 3.6 Replace

Set the rule to replace a word or character by entering a “Data” value.

**Data Type:** Choose data type as ‘Hexa’ or ‘Ascii’.

**Old Data:** Input the original data string to be replaced.

**New data:** Input the new data string to replace the old one.

### 3.7 Event

Set the rule to trigger an alarm operation by entering a “Data” value.

**Beep:** Play sound warning.

**Mark:** Mark this event.

**Popup:** Pop up Event Monitor window.

### 3.8 Addition

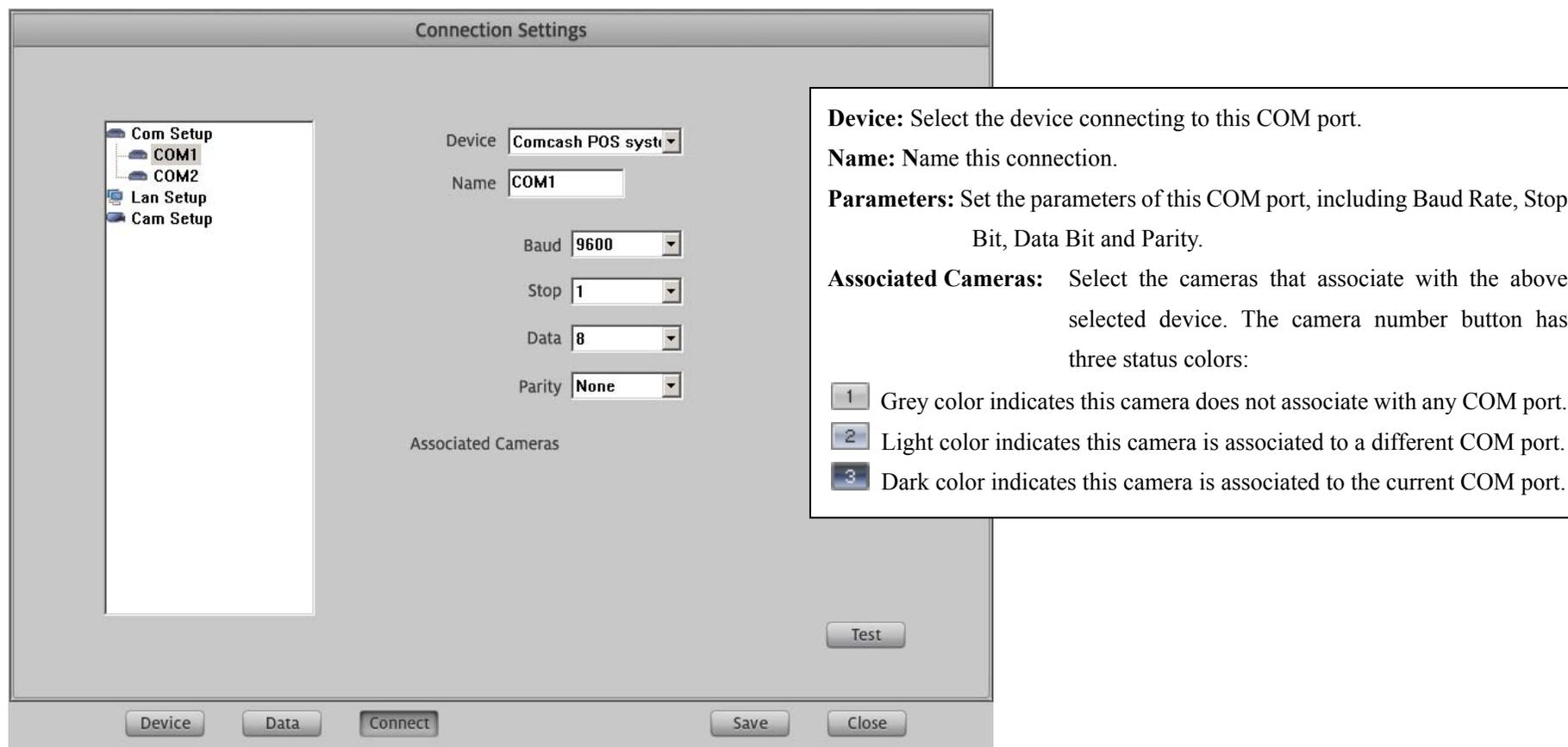
Set an additional rule for quick search by entering a “Data” value.

Type	Data	Notify

## 4. Connection Setup

## 4.1 COM Setup

On the **Connection Settings** interface, there is a tree-view on the left side that lists all the available COM ports in the DVR system. Select the COM port that you are trying to setup. After you finish, please click the “**Test**” button to see if the POS device connection works.

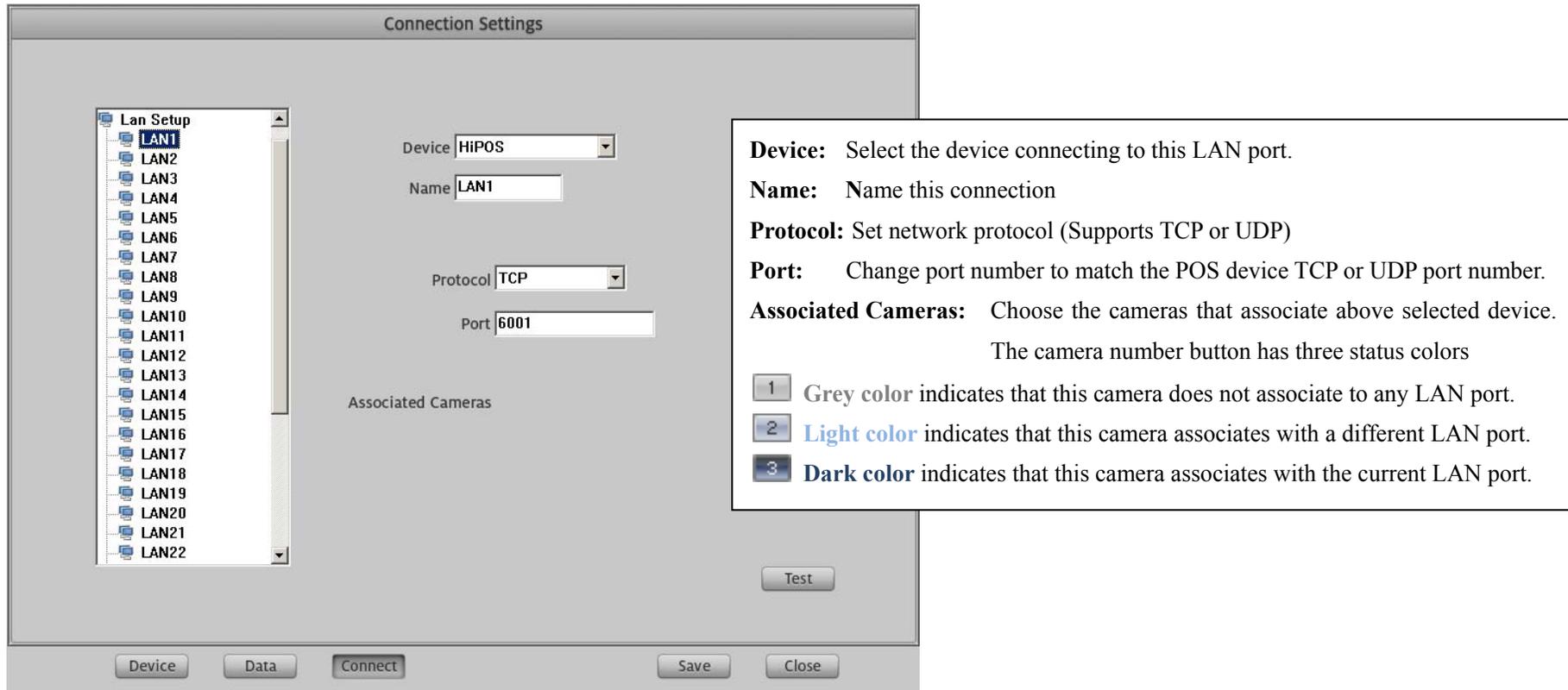


## 4.2 LAN Setup

ILDVR system supports multiple POS device connections through a single TCP/IP connection (32 in total), but you must assign an exclusive port number to every POS

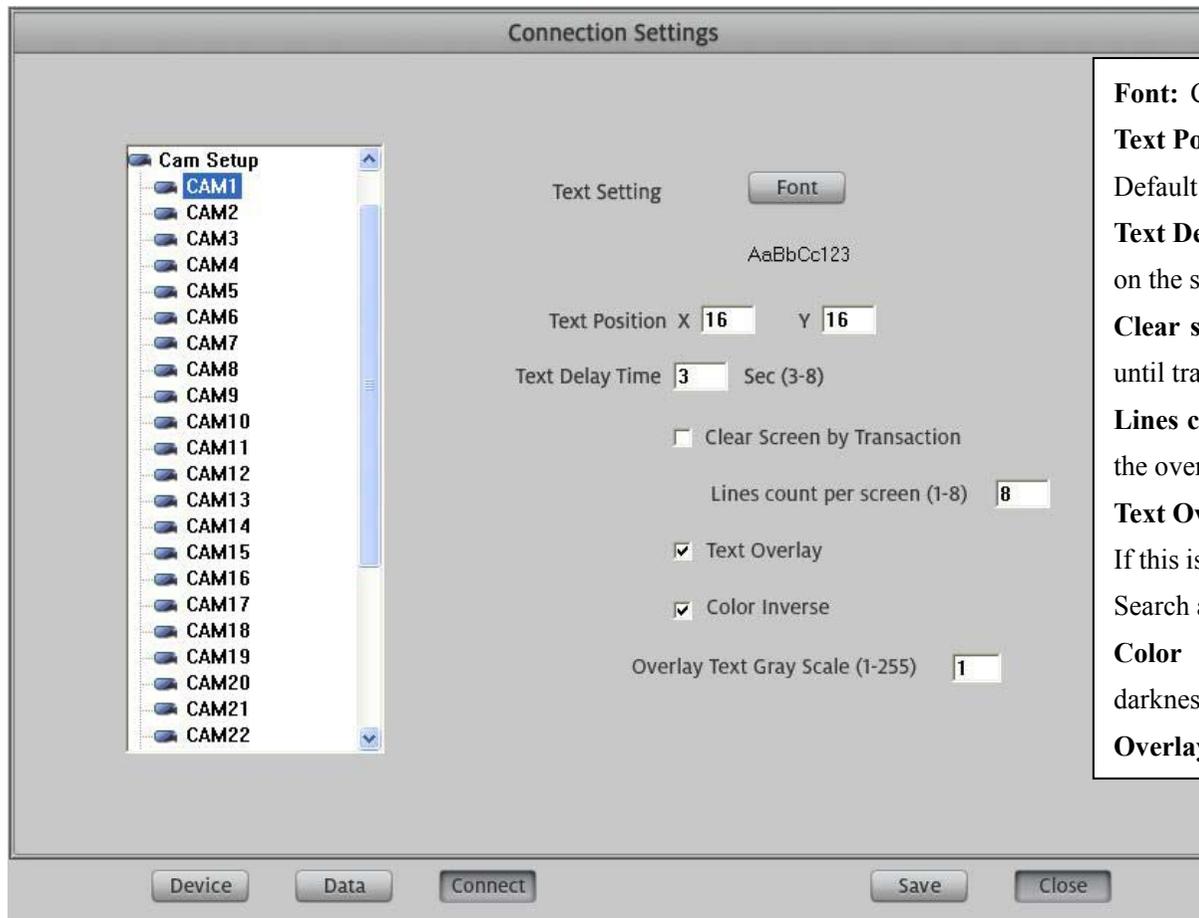
device you connect. To setup a LAN connection, please choose LAN from the tree-view list.

After finishing the setup, please click the “**Test**” button to test if the POS device is connected correctly. If it doesn’t work, please try using the **PING** command to test the network connection. If you have network connectivity, you might want to see if your router is blocking access to that specific port. If this is the case, just **enable port forwarding** (for security purposes, forward only the port numbers you are going to use) to the POS device. Look in your router’s instruction manual for more support on enabling port forwarding.



### 4.3 CAM Setup

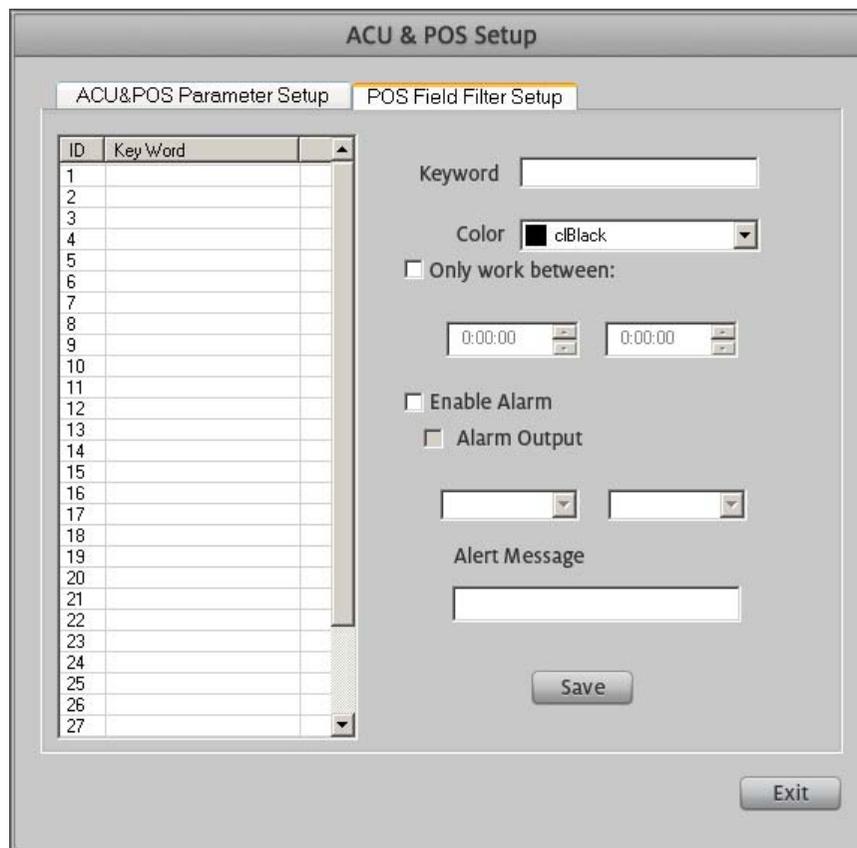
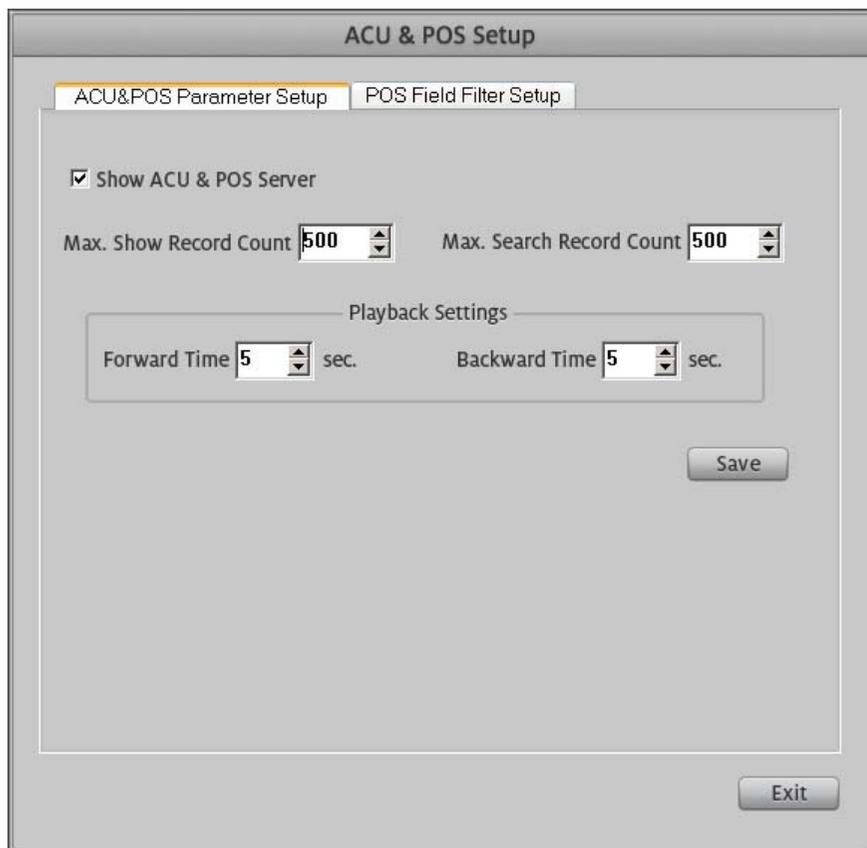
From left tree-view list, click any of the camera icons to configure its parameters as below.



## 5. P.O.S Event Monitor

On the **ACU&POS Monitor** interface, you can read all the connection details from the right table.





In the “**ACU&POS Parameter Setup**” interface you can configure how many POS transaction and search records to display in one search page (maximum of 1000). In the “**POS Field Filter Setup**” interface you can set a keyword font color for a quick search. For example, if you set the font color of EIGHT to red and the work time between 12:00:00 and 15:00:00, when the EIGHT appears in this period of time, it will display red on the screen. Choose a record and double click it. The video will display according to the **Forward Time and Backward Time** settings.

## Appendix F: Access Control System Integration

ILDVR Access Control System Integration (ACSI) supports Control Device (AC-215) and Management software (AS-215)

### 1. Connection between AC-215 and AS-215

#### 1.1 RS232 Direct connection

Connect an AC-215 device to the computer running the AS-215 software directly through a COM port. Listed below are the pin definitions. The PC Serial Port (COM port) should be assigned to an AC-215 Device in the Network Properties of the AS-215 Software. The default setting uses the standard RS232 interface with a 9600 baud rate. The RS232 connection can be used for only one AC-215 Device. The RS232 cable length should be less than 150 feet (50 meters).

AC-215	AS-215 (Standard RS232 interface)	
	DB9 Connector	DB25 Connector
GND	Pin 5	Pin7
TX	Pin 2	Pin 3
<b>RX</b>	<b>Pin 3</b>	<b>Pin 2</b>
DTR	Pin 4	Pin 20

AC-215	I/O Server(RJ45 RS232 interface)
GND	Pin 6
TX	Pin 2
RX	Pin 1
DTR	Pin 7

#### 1.2 IP connection

For multiple AC-215 Devices or for an installation project of more than 150 feet, you cannot use RS232 connections. A RS232 to TCP/IP converter (I/O server) is a device that converts RS232 signals into TCP/IP signals and is used for long distance communications. One I/O Server supports up to 32 AC-215 Devices. The pin definitions are listed in the above table.

The connection between the I/O server and the AS-215 (PC) uses a standard UTP interface.

### 1.3 Connection between ACSI and AS-215

The ILDVR Access Control System Integration (ACSI) monitors the communication between the AC-215 and AS-215 and attains the data from the AS-215. When a user swipes his ID card to establish the communication between the AC-215 and AS-215, he is also creating communication between the ACSI and AS-215.

#### Settings of RS232 Connection

There is a setting in the AS-215 management software [**Menu bar**→**Options**→**General**→**Transmit Transactions**] to send data (characters) to a selected COM Port. This means the ACSI's Serial Port (COM) acquires data directly from the AC-215 device.

#### Settings of IP connection

Refer to the I/O Server operation guide. Run Internet Explorer to enter the I/O server's remote setup web page and follow these steps:

On the left **Menu**, click **Mode** and choose a port you want to configure. From the **Mode** drop down list, select "**TCP/UDP Socket**" and set the local port which will be used for the LAN setup. Choose "**TCP client**" or "**TCP server**" for Protocol.

If the I/O Server works as a server, select "**TCP Server**" for Protocol. ACSI should be running as client

If the I/O Server works as a client, select "**TCP Client**" for Protocol. ACSI should be running as server.

After finishing Mode setup, click "**Submit**" to save settings.

#### Application mode

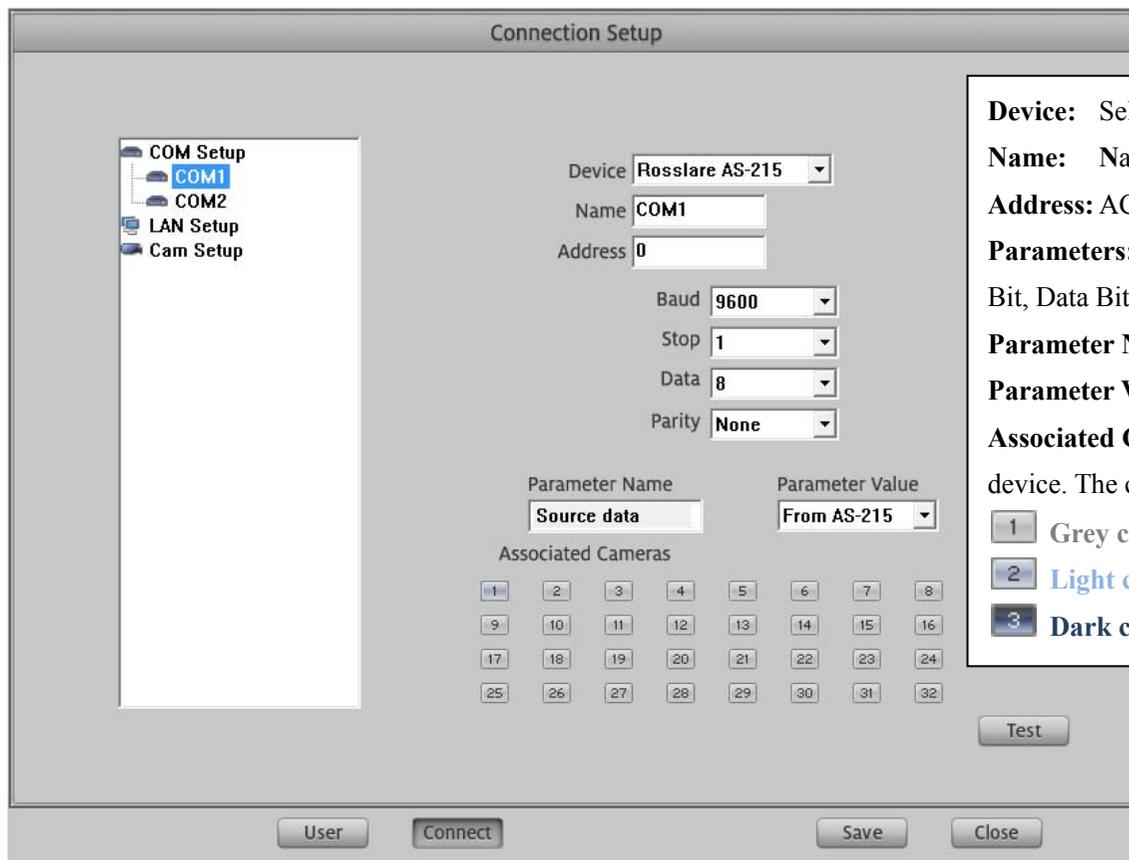
The connection between the ILDVR System and the Access Control System (AS-215 & AC-215) is limited to a maximum of 16 COM port connections and 32 IP connections

## 2. Connection Setup in ILDVR ACSI System

### 2.1 COM Setup

In the **Connection Settings** interface, there is a tree-view on the left hand side that lists all the available COM ports in the DVR system. Select the COM port that you would like to configure. After you finish configuring the COM port, click the "**Test**" button to test whether the POS device connection is configured correctly. If everything is configured correctly, the DVR system will pop up a dialog interface with codes or letters.

When a user swipes his ID card in save status, this user's detailed information will display in dialog, all the data which shown in dialog will be saved to path **C:\Program Files\ILDVR Server\Acupara\Data**, the file's suffix name is PUD. If the user's info does not show in dialog please check the settings and physical cable connection.



**Device:** Select the device connecting to this COM port.

**Name:** Name this connection.

**Address:** AC-215 Device ID.

**Parameters:** Set the parameters of this COM port, including Baud Rate, Stop Bit, Data Bit and Parity.

**Parameter Name:** Source data type.

**Parameter Value:** Select data “From COM Port” or “From Network”.

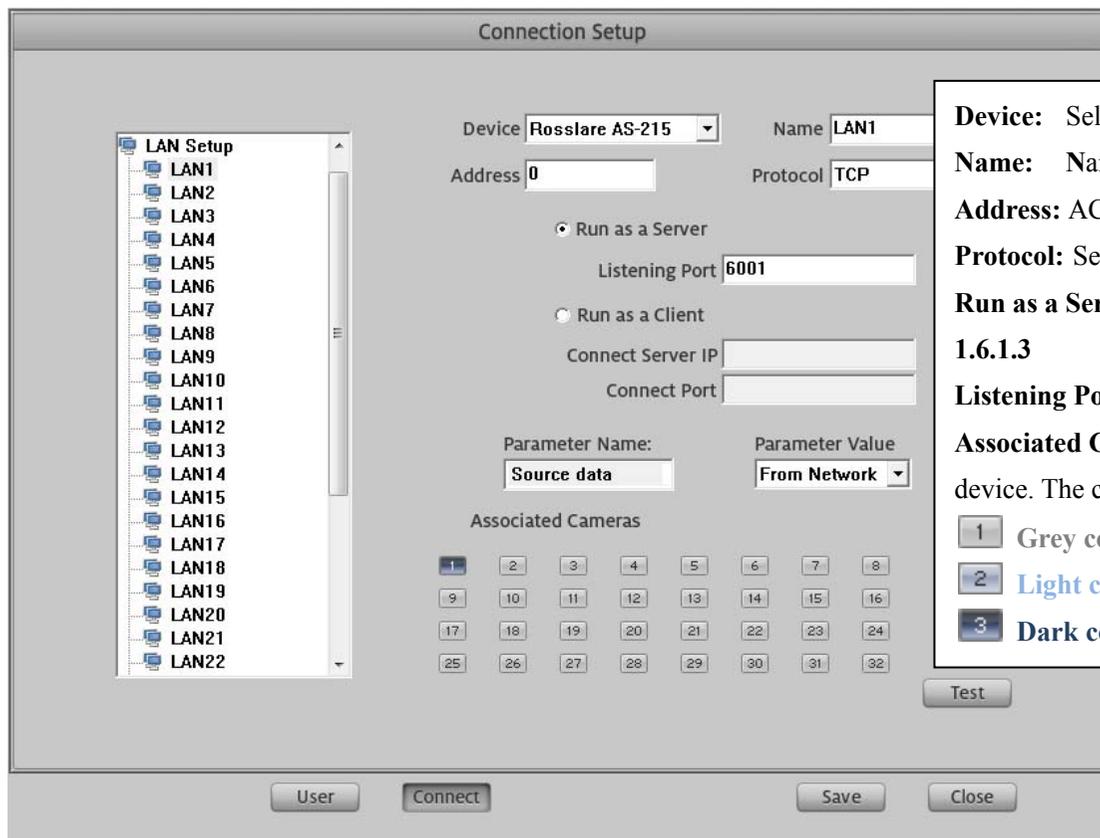
**Associated Cameras:** Choose the cameras that associate above selected device. The camera number button has three status colors

-  **Grey color** indicates this camera does not associate with any COM port.
-  **Light color** indicates this camera associates with a different COM port.
-  **Dark color** indicates this camera associates with the current COM port.

## 2.2 LAN Setup

ILDVR system supports multiple AC-215 device connections through single TCP/IP connection (32 in total). But every AC-215 device must have an exclusive port number. To setup a LAN connection, please choose **LAN** from tree-view list firstly.

After finishing the setup, please click the “**Test**” button to test if the AC-215 device is connected correctly. If it doesn’t work, please try using the **PING** command to test the network connection. If you have network connectivity, you might want to see if your router is blocking access to that specific port. If this is the case, just **enable port forwarding** (for security purposes, forward only the port numbers you are going to use) to the AC-215 device. Look in your router’s instruction manual for more support on enabling port forwarding.



**Device:** Select the device connecting to this LAN port.

**Name:** Name this connection

**Address:** AC-215 Device ID

**Protocol:** Set network protocol (Supports TCP or UDP)

**Run as a Server/Run as a Client:** Select device work mode. Refer to section 1.6.1.3

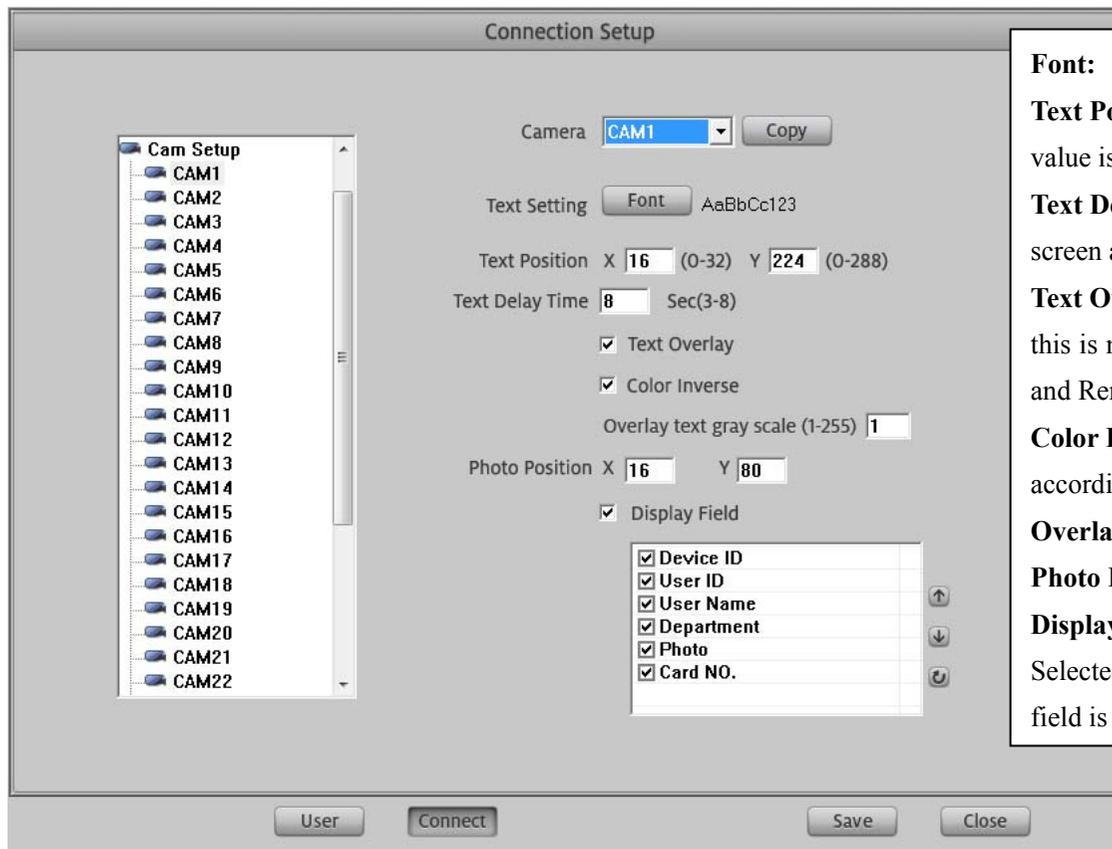
**Listening Port/Connect Port:** Set TCP or UDP port number.

**Associated Cameras:** Choose the cameras that associate above selected device. The camera number button has three status colors

- 1 Grey color indicates this camera does not associate with any COM port.
- 2 Light color indicates this camera associates with a different COM port.
- 3 Dark color indicates this camera associates with the current COM port.

### 2.3 CAM Setup

From the left tree-view list, click a camera icon to configure its parameters as below.



**Font:** Click the “Font” button to change the font.

**Text Position:** Set the overlay text position on the screen. Default value is X=16 -- Y=224.

**Text Delay Time:** Set the idle time for the overlay text to show on the screen after a user swipes their ID card, for example.

**Text Overlay:** Check this to enable the on screen overlay feature. If this is not checked, it is still possible to view the overlay text in Search and Remote Monitor.

**Color Inverse:** Set this to automatically change the font’s darkness according to the color of the background image.

**Overlay Text Gray Scale:** Set the font grayscale

**Photo Position:** Default value is X=16 -- Y=80

**Display Field:** Display or hide the field’s content on screen. Selected fields will be displayed on screen (max of 7 display fields). A field is a string of words or value of data.

### 3. User Management

Before using the ACSI system, please enter all of the user’s ID card information. There are 2 ways to do this. The first way is to input the user’s information one by one by clicking the “Add Item” button. The second way is to import the database from the AS-215 software.

#### 3.1 User Setup in ILDVR ACSI System



Device ID	1	User ID	6	Photo
User Name		Department		
Photo		Card NO.		

Add Del.

After you finish entering all the user ID information, it will list on the table shown on page 106.

**Lines:** Display how many lines of users in the table.

**Previous:** Show previous page.

**Next:** Show next page.

**Edit Item:** Modify selected ID card information.

**Del. Item:** Delete current selected user ID card.

**Del. Page:** Delete all cards in current page.

**Del. All:** Delete all pages. All of the information disappears.

**Edit Field:** Click this button to enter the **Edit Field** interface (shown below). New added fields show in the **Enabled Field** lists. All usable fields show in the **Selected Field** lists and display in the preview area. In this interface you can add new fields, delete an existing field, and change the user's display order.

**Rename Field:** Click this button to rename a field.

Preview

Device ID	User ID	User Name	Department	Photo	Card NO.	

Enabled Field

Default field 2
Default field 3
Default field 4
Default field 5
Default field 6
Default field 7

Add    Delete

Selected Field

Device ID *
User ID *
User Name *
Department
Photo
Card NO.

>    <

^    v

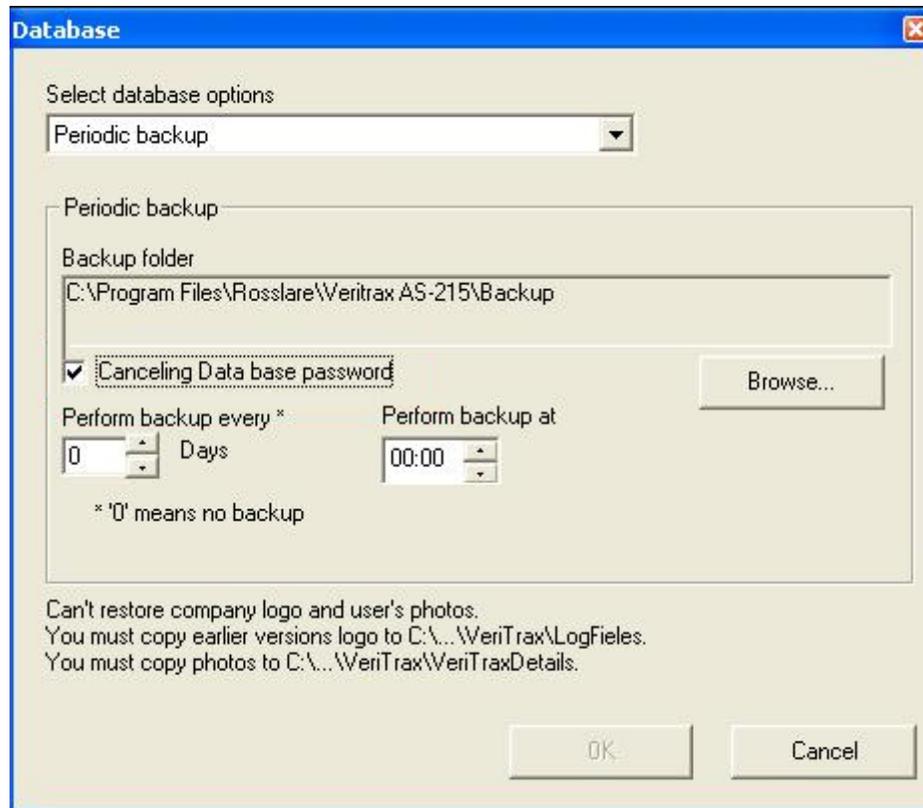
OK    Cancel

### 3.2 Import card information

#### Export database

Run the **Veritrax AS-215** program. Select the “**Card**” button in left tree view area to list all card information onto the table.

Go to menu **Tool** → **Database** to open Database interface.



Please make sure that “**Canceling Data base password**” is checked before you backup your database. You can click the “**Browse**” button to save the backup database into any folder on the disk drive.



### Import database

In the **User Information Interface**, click the “**Import**” button to enter the “**import database**” interface. Click the  button to locate the database path. After you import the database, the card information will list in the **Original Database** area. If you click the “**Default**” button, all of the data will be imported automatically and display their default value.

**Original Field:** List all fields existing in the database.

**Comp. Field:** Click button “>” to move the original field into this field, or click the “<” button to remove it.

**Disp. Field:** The actual display field name on the screen.

**Existent Field:** Select a field in the “**Comp. Field**” list. You can rename it by choosing the display name in the drop down list.

Notice: These original fields have the default names:

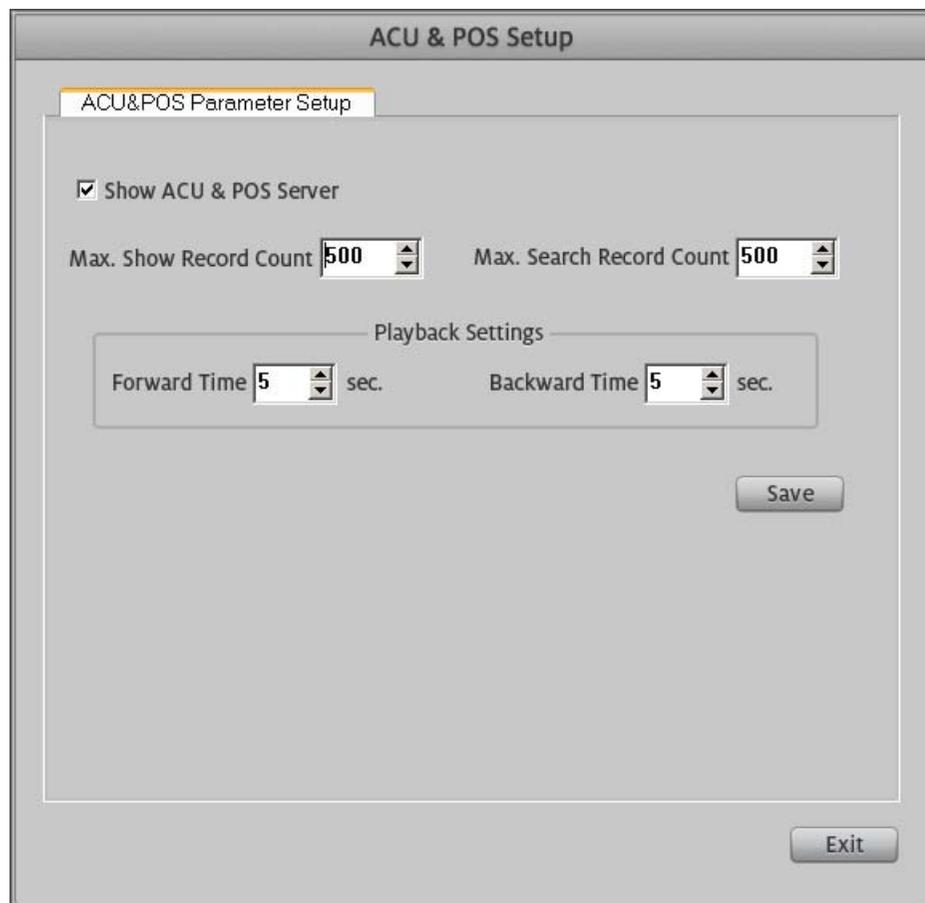
IEmployeeNum (User ID \*)      tFullName (User Name\*)      tFirstName,tLastName (User Name\*)

The screenshot shows a configuration window with the following elements:

- Select Database:** A text box with a browse button (...).
- Max Record:** A text box containing the number '3' and a 'Default' button.
- Original Database:** A large empty table area.
- Field Mapping Section:**
  - Original Field:** A table with 5 rows and 1 column.
  - Comp. Field:** A table with 5 rows and 1 column.
  - Disp. Field:** A table with 5 rows and 1 column.
  - Existent Field:** A dropdown menu with an arrow pointing down.
  - Navigation buttons: '>' (right), '<' (left), '^' (up), and 'v' (down).
- Preview List:** A large empty table area.
- Select Photo Path:** A text box with a browse button (...).
- Buttons:** 'Save' and 'Cancel' buttons at the bottom right.

#### 4. ACU Event Monitor

In the **Tools Panel**, click the  button to open the **ACU Event Monitor** interface. In the **ACU&POS Monitor interface**, you can read all the connection details from the right table. Click the “**Set ACU**” button to enter the “**ACU&POS SETUP**” interface (shown below).



**Show ACU&POS Server:** Check this option to enable the ACU Event Monitor interface to pop up automatically when the ILDVR ACSI system starts up.

**Max Show Record Count/Max Show Record Count:** Set the maximum record count that shows on the screen in one search.

**Play Back Settings:** Configure the Playback start and end time. Select a record and double-click. The video between the Forward Time and Backward Time will display on screen.

## Technical Support Information

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

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