

User Manual (updated December 7, 2011)

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Exacq Technologies, Inc. 11955 Exit Five Parkway, Bldg 3 Fishers, IN 46037 USA



www.exacq.com



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exacqVision[®] TABLE OF CONTENTS

1 System Installation Checklist	5
2 Installing exacqVision Software on Third-Party Clients and Servers	8
Server Requirements	
Networking	
Web Server	
Server Software Installation	
Client Software Installation	

3 exacqVision Software Overview	10
Client/Server Architecture	10
Logging In	11
Updating exacqVision Client Software	12
Operating Modes	13
exacqVision Help	13

4 S	etup Mode Overview	14
	Add System	15
	System Setup	17
	Add IP Cameras	20
	IP Camera Recording Setup	21
	Analog Camera Recording Setup	22
	Camera Setup	23
	Motion Masks, Video Masks, and Motion Windows	25
	Serial Profile Setup	27
	Serial Port Setup	28
	PTZ Configuration	30
	Audio Input Setup	33
	Trigger Input Setup	34
	Alarm Output Setup	35
	Video Output Setup	36
	Storage Setup	37
	Notifications	39
	exacqRecall Button Configuration	41
	Event Linking	43
	Event Monitoring	46
	Schedule	48
	Users Setup	50
	My Systems	52
	eDVR 4000 Device	53
	Client Setup	54
	Joystick Setup	55
	Group Setup	57
	Map Setup	58
	System Information	59



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5 Live Mode Overview	61
Layout Panel	62
PTZ Control	
Event Buttons	66
exacqReplay	67
Live Event Monitoring	68
Camera Groups	69
Camera Views	
Camera View Tours	
Live Maps	
6 Search Mode Overview	74
Searching for Video and Other Data	
Video Playback	
Smart Search	
Searching Maps	80
Searching Views	81
Searching Events	82
Search Serial	83
Exporting Files	84
7 Enterprise Management	87
Enterprise Cameras	87
Enterprise Notifications	88
Enterprise User Setup	89
Enterprise Server Setup	91
A Technical Support	92
B Regulatory Notice	93
C Warranty	94
D Manual Updates	95
Release 4.0	
Release 4.1	
Release 4.2	
Release 4.2	
Release 4.4	
Release 4.5	95
Release 4.6	95
Release 4.7	
Release 4.8	



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1

System Installation Checklist

	Quick Start
	Installation
	See the server's Quick Start Guide for information on installing the hardware.
	Establishing Initial Communications
	See the server's Quick Start Guide for information on establishing initial communications from the client software to an exacqVision Server.
+-	Configure IP Cameras
×÷	See the IP Camera Quick Start Guide for information on configuring the camera IP addresses, usernames, and passwords. This document can be found at http://www.exacq.com/support/specsheets.html.
X	Setup Mode (see Chapter 4)
	System Setup*
137	Set exacqVision server for static IP address.
	Configure the system name, time, and time zone.
P	Storage Setup
-8	Ensure all disks are selected for recording except the system drive ("C:\" in Windows or "/mnt/edvr/0" in Linux)
	 Ensure total disk space matches the expected value. Add IP Cameras
	Add IP cameras to the exacqVision servers.
	Camera Recording Setup (IP cameras)
	$\Box \text{Set resolutions} .$
	Camera Recording Setup (analog cameras)
	$\Box \text{Set resolutions} $
	 Disable cameras that are not connected.
	Serial Port Setup
	Set up serial port for RS-485 mechanical PTZ control.
	Set up serial port for input from serial devices.



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	Camera Setup
7.	Name camera.
	Enable onscreen display.
	Set motion mask on IP cameras (there are generally no motion windows set on a new camera). The default motion recording schedule won't trigger recording.
	Mask motion from irrelevant objects such as moving trees.
	Create windows in relevant locations, such as doors and hallways.
	\Box Configure quality just high enough to see relevant details ¹ .
	If supported by the cameras, set recording format to MPEG4 or H.264 instead of JPEG for better storage.
	Watch for blue border around live video window on setup page when motion is occurring to ensure that motion sensitivity and masking are appropriately configured.
	Configure mechanical PTZ presets.
	Schedule
	Motion is recorded by default. Change any cameras to continuously record or stop recording as needed.
	Audio is not recorded by default. Schedule audio recording if necessary.
	\square Schedule events for notification only when they are unexpected. (Not available in exacqVision Start.)
	Users
410	Add user accounts for the people who will use the system.
	Trigger Input Setup
2	Name input triggers to be used.
	Set radio button to normally open or closed to match physical switch.
24	Alarm Output Setup
	Name any alarm outputs to be used.
\sim	Notifications (Not available in exacqVision Start.)
	Create email profile for system health administrator.
	Create email profile for security events such as unexpected motion or input triggers.
	Create email profile for the installer.
	exacqRecall (Not available in exacqVision Start.)
	Create profile for video sources and duration to store on high-priority event.
	Insert blank CD or DVD in DVD drive.
69	Event Linking
	Create events to alert administrator via email of system health issues.
	Create events to record video on input triggers.
	Create events to email security administrator upon unexpected triggers or motion.
	Create event to burn CD via exacqRecall profile upon button push or other event. (Not available in exacqVision Start.)
	Create event to email installer when license subscription is near expiration.
1	Export Settings
1929	Save settings and license to a USB flash drive to aid the recovery process, if necessary.



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	Live Mode (see Chapter 5)
	Live
	Create views as required by users for live viewing or multi-camera search and playback.
	Install Client
V	Install the exacqVision Client on another computer and ensure that it can connect to the exacqVision Server using the static IP address and one of the configured user accounts.
O	Search Mode (see Chapter 6)
Ĭ	Search*
\bigcirc	Connect after 24 hours.
	Connect after 7 days.
	*Search to ensure cameras are not recording excessive amounts of motion; if they are, adjust motion sensitivity or windows/masks, or possibly adjust camera for low-light noise. Look at Storage setup page and extrapolate the storage duration to
	ensure that it meets requirements; if it does not, decrease frame rate, quality, or resolution.







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Installing exacqVision Software on Third-Party Clients and Servers

Server Requirements

Hardware Requirements

See the Exacq website at <u>https://www.exacq.com/products/vms_requirements.html</u> for current minimum hardware requirements. Actual hardware requirements vary considerably based on each user's application:

- CPU requirements increase greatly when hosting multiple concurrent web clients.
- The exacqVision server application requires a maximum of 4GB, although additional memory is required for the operating system, web hosting, or any other server applications.
- The storage system is often the performance limitation because of the large amount of read and write processes. Your storage system should be capable of sustained reads/writes at least twice the maximum data rate from all cameras. Exacq highly recommends using RAID 5 or RAID 6 for all video storage to reduce the likelihood of catastrophic failure.
- Enterprise-grade hard drives are highly recommended to handle constant video recording.
- The server operating system and exacqVision software should be installed on a dedicated, mirrored operating system drive.
- Servers should always be UPS-powered to avoid data corruption during power failure.

Operating System Requirements

See the Exacq website for minimum operating system requirements. In addition:

- If automatic updating is enabled, your server might stop recording video when the operating-system restarts.
- Anti-virus programs should scan *only the operating system and exacqVision software drives*. Virus scanning should be disabled on all video storage drives to avoid large decreases in drive performance.
- Port blocking is not recommended because many edge devices use multiple or dynamic port assignment.

MAC addressing requirements

exacqVision software is licensed based on MAC addressing. Servers with teamed NICs or other arrangements that obscure the MAC require an additional USB-based NIC to provide a licensing MAC.

Networking

For the greatest system reliability and performance, the network administrator should observe the following best practices:

- A dedicated VLAN and NIC port for all cameras.
- A dedicated VLAN and NIC port for storage networks (if used).
- A separate VLAN and NIC for all client connections.
- Cameras and servers should use fixed IP addresses. Clients can use DHCP.
- Camera-to-server network capacity should be twice to maximum video data rate.
- Server-to-thick-client network capacity should be 1.5 times the maximum total data rate of all simultaneously viewed cameras.



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Web Server

The exacqVision Web Services installer provides lighttpd as the default web service. For systems where more than five to ten concurrent client connections are expected, you should upgrade to Apache web services. For more information, see https://www.exacq.com/kb/?kbid=34927.

As noted previously, web services increase server hardware requirements and can require installation on a dedicated web server. For additional information on configuring web services, see the Exacq knowledge base at https://www.exacq.com/kb/.

Server Software Installation

- 1. For Windows servers, download the latest server and web services software installation from http://downloads.exacq.com/reseller/exacqVision.exe
- 2. For Linux servers, download the latest server and web services software installation from http://downloads.exacq.com/reseller/Ubuntu/Dapper/exacqVisionServer.deb.
- 3. Using an administrator account, run the executable to start the installation wizard.
- Configure the IP address, username, and password on all cameras by following the manufacturer's instructions or the *exacqVision IP Camera Quickstart Guide* found at <u>https://www.exacq.com/downloads/ev-ip-quickstart-0311.pdf</u>.
- 5. Test connectivity to each camera with the ping command.

Client Software Installation

- 1. Download the latest client software from https://downloads.exacq.com/downloads/exacqVisionClient.exe.
- 2. Using an administrator account, run the executable to start the installation wizard.
- 3. Confirm connectivity with the server using the ping command and server IP address. If the client PC cannot communicate with the server, contact the network administrator.
- 4. Start the exacqVision Client software and enter the configuration page.
- 5. In the site tree, select Add System.
- 6. Click New and enter the username admin, password admin256, and IP address (static) or hostname (fixed) that was configured in previous steps. Click Apply. If the new server appears in the system list table with a status of Connected, the initial server configuration is complete. If the server does NOT connect, but server connectivity was confirmed in previous steps, ensure that the PC anti-virus software is not blocking communications with the server IP addresses and ports.
- 7. Proceed to Chapter 4 to start exacqVision server configuration.







Client/Server Architecture

exacqVision software is based on a client/server architecture in which every computer is a client, server, or client/server combination. These configurations are defined as follows:

- A client computer provides access to a remote service on another computer over a TCP/IP network. The exacqVision Client software is a thick client, and the web browser is a thin client.
- A server computer provides services to client computers over the TCP/IP network. An exacqVision server
 receives and stores video from cameras; provides audio, video, and data as requested by thick clients; and hosts
 a web server (if enabled) for thin clients. The exacqVision Server software does not have a graphical user
 interface; only the client software allows interaction. A server can serve multiple simultaneous client
 connections, within hardware limitations.
- A client/server combination simultaneously operates client and server software. A loopback TCP/IP address of "localhost" (127.0.0.1) allows the client software to communicate with the server software on the same computer. exacqVision servers are configured at the factory as a client/server combination to provide a convenient initial configuration experience.







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Logging In

All exacqVision servers are shipped with two operating system accounts:

- Username: admin Password: admin256 Privileges: computer administrator
- 2. Username: **user** Password: user5710 Privileges: restricted user

NOTE: Exacq recommends that the default passwords be changed by the operator and written and secured to prevent unauthorized access or modifications to the system. As part of the initial exacqVision System configuration, Exacq recommends that the operator configure a new user on the exacqVision Server with restricted privileges and change the exacqVision Client settings in the user operating system account to connect to the local exacqVision Server via this user. See the Users Setup section of this manual or the context-sensitive online help file for instructions on creating a new exacqVision user.

When exacqVision servers start, they immediately start the exacqVision service, boot into the user account, and start the exacqVision Client software. Server log-in is not required to start video recording or communication with client PCs. All third-party servers start the exacqVision service on startup, but user accounts and automatic login must be manually configured.

The user account functionality is limited to using the exacqVision client software for maximum reliability. All server maintenance tasks (such as shutting down the exacqVision service) that are not performed within the exacqVision Client require logging into the operating system's administrator account.

Each operating system user account maintains separate settings for its exacqVision Client. These settings include usernames, passwords, and network addresses required for exacqVision Clients to access exacqVision Servers. By default, both the **user** and **admin** operating system accounts have settings that provide administrator access to the instance of exacqVision Server running on the local computer, which is always via the **localhost** (127.0.0.1) IP address.

Exacq recommends that all servers be configured with one system administrator account with Remote Desktop (Windows) or SSH (Linux) remote access for system support.

The exacqVision Server can be accessed from multiple exacqVision Clients, which can be running from the same computer as exacqVision Server or from remotely networked computers. The exacqVision Server has been preconfigured with one user.







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Updating exacqVision Client Software

Click the exacqVision logo in the upper-right corner of the page to open the About exacqVision Client window.

- 1. The window lists the current version and built date.
- 2. To check for software updates, click Connect to the Internet and Check for Updates. If you have already installed the most recent version of the software, a message is displayed; click OK to return to the About exacqVision Client window. If a more recent version of the exacqVision Client is available, the download process starts.

After the download is complete, close all instances of the exacqVision Client to complete the update. Click Yes to accept the download, and then follow the instructions in the Setup Wizard onscreen.









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Operating Modes



exacqVision systems have three main modes of operation, as represented by the following three icons:



Live Mode allows users the ability to view live video.



Search Mode allows users the ability to search for recorded video.



Setup Mode allows Administrators and Power Users the ability to configure systems.

Clicking on any of these icons changes the mode of operation. Each mode is explained in the following chapters.

exacqVision Help

You can access online help for your exacqVision System by clicking the Help button or the F1 key. On some platforms, online help is context-sensitive. To view online help, click the question mark button:



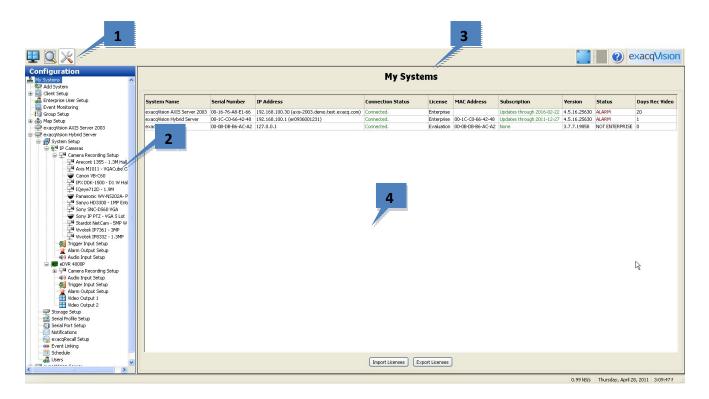






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Setup Mode allows you to configure systems, cameras, and other devices.

- 1. Config Mode Icon. This button runs the Config (Setup) mode.
- 2. **Configuration Tree.** This tree allows you to open the various configuration pages.
- 3. My Systems. This default Setup mode page displays systems that have been added.
- 4. Setup Page. This area displays the configuration pages selected from the configuration tree.







Add System

Configuration My Systems Add System Client Setup	System Information	Ac	ld System			
		Enabled	Address	System Name 🔺	Username	Status
Group Setup	Hostname/IP Address:		192.168.100.71	ER1106006284	admin	Not connected.
🗄 🎂 Map Setup	Port: 22609		192.168.100.30	exacgVision AXIS Server 2003	drittman	Connected.
🗄 🌇 My Enterprise	4 Port: 22009		192.168.100.1	exacgVision Hybrid Server	ExacgEngineering	Connected.
exacqVision AXIS Server 2003	Use Single Sign-On		127.0.0.1	exacqVision Server	admin	Not connected.
🗄 👸 System Setup	Always prompt for credentials		stardot.exacq.com	exacqVision Stardot Server	admin	Not connected.
Storage Setup			192.168.100.17	exacqVision Start 2 Server	gpearson	Not connected.
Serial Port Setup	O Use credentials entered below:		192.168.100.14	exacqVision Start Server	gpearson	Connected.
Notifications	Username:		192.168.100.77	Professional (Internal)	admin	Connected.
			10211001100111	New System	damin'	Not connected.
Event Linking	Password:			New System		Not connected.
- Junes and - June	Password Confirm:	8	2			
🕀 🦈 exacqVision Hybrid Server						
😨 🥏 exacqVision Start Server	Connection Speed					
🖅 💭 Professional (Internal)	O Dialup O DSL O LAN O Local					
	1 New Delete 6 Apply Cancel			9		
	Find Systems 7					
	IP address range:		to-	Find		
	Syst 🔺 Address Model Serial	1				

The Add System page allows you to add systems so that you can connect to them with exacqVision Client.

- 1. To add system, click New. (Alternatively, you can "find" a system, as discussed below.)
- 2. The new system is added to the System List. The System Information fields are enabled.
- 3. Enter the system's hostname or IP address. Contact the system administrator if you do not know this information.
- 4. By default, the port number is 22609; change this only if necessary for your network configuration.
- 5. Select one of the following login methods:
 - Use Single Sign-On is available only on systems with an Enterprise license. See the "Enterprise User Setup" section of this manual for more information.
 - To require a username and password entry every time exacqVision Client is started, select Always Prompt for Credentials.
 - To automatically log in to the system every time exacqVision Client is started, select Use Credentials Entered Below. Then enter a valid Username, Password, and Password Confirm.
- 6. Select the radio button that matches your Connection Speed. This tells the system how much audio to buffer in order to help maintain a smooth audio stream.
- 7. When finished, click Apply. If the entered information is valid, the system is automatically connected.
- 8. To disconnect or reconnect a system, select its box in the System List.
- 9. To find a system and its address on your network, enter the IP address range in the Find Systems area. The first three boxes must be the first three elements of the IP address; the fourth and fifth boxes are used to create a range of numbers for the final element of the IP address. Click Find to list all systems whose IP addresses are in the IP address range. When the search is complete (or when you click Stop, which replaces the Find button), you can select any of the systems to add the system to the System List and populate the Hostname/IP Address field. You must still enter a valid username or password to be able to connect to the system. Click Apply when finished.



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Connected systems in the System List also appear in the Configuration, Live, and Search trees. Disconnected systems do not appear in the trees.

NOTE: You cannot connect to more than one system that is licensed as an exacqVision Start server at a time. If you attempt to connect to a second Start server simultaneously, the first connection to a Start server is terminated.







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System Setup

The **System Setup** page allows you to set basic system parameters for the client application. The page is separated into the following four tabs:

• The **System** tab allows you to create a name for the system, export and import settings from other systems, import and export graphics, and manage the licensing of your system.

Sy	stem Setup
System Date/Time Network ActiveDirectory/LDAP System Identification System Name: exacqVision Hybrid Server Apply Cancel Export and Import Settings Import Settings Export Settings Cancel	License 429E8D-DBD3FC-0AE68D-03D840-FF10CB-38 MAC Address: 00-1C-C0-66-42-48 Status: Enterprise Subscription Expires: Updates through 12/27/2011 Licensed IP Cameras: 32 IP Cameras (14 used) Licensed Boards: 1 eDVR Board Import Export Apply Cancel

- 1. The MAC Address of the system's primary network adaptor is used to generate a license key. To obtain a license key online, provide the system MAC address to your dealer. Unlicensed exacqVision servers can connect to only one IP device at a time.
- 2. After the dealer obtains a license key from Exacq, enter the key in this box.
- 3. After configuring your system, it is recommended that you click Export Settings to export system settings to a USB or network drive and store it off-site for recovery from a disaster or malfunction.
- 4. If you ever need to restore the settings or simply import them from another system, click Import Settings and apply the saved settings.







• The **Date/Time** tab displays the exacqVision server's time information.

System Date/Time Network ActiveDirector	y/LDAP
System Date/Time Network ActiveDirector	YILDAP Time and Date Settings Sun Mon Tue Wed Thu Fri Sat 1 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 5 5 5 Time Zone: 1 1 04:11:35 PM 5 (GMT-05:00) Eastern Time (US & Canada) 1 1 5 ODST O Standard 1 1 1 Time Server: 1 1 1 1 1 IP Camera Time Server: 1 1 1 1 1
	Enable Override Apply Cancel

- 1. Select the time zone and daylight saving time (DST) information for the server's location.
- 2. On systems with Internet access, select Enable Time Server and enter a valid Internet time server. On systems without Internet access, select Enable Time Server and enter an internal time server (see your network administrator for more information).
- 3. If the IP cameras on the network need to synchronize with a time server other than the exacqVision server, select Enable Override and enter the server address.







• The **Network** tab displays your system's IP Address, Netmask, Gateway, and Primary DNS server.

System	Date/Time	Network	ActiveDirectory/L	/LDAP
			Network In	Interface Settings
			[Local Area Connection 2
				Status: Connected
				Description: Intel(R) 82566DM-2 Gigabit Network
			2	MAC Address: 00-1C-C0-66-42-48 Copy
				IP Configuration: O Dynamic 💿 Static
				IP Address: 192 , 168 , 100 , 1
				Netmask: 255 , 255 , 0
				Gateway: 192 . 168 . 100 . 254
				Primary DN5: 8 . 8 . 8
		3		Apply Cancel
			Bandwidth	h Settings
		4		OFF Apply Cancel
			IP Reconne	nection Settings
				300 Seconds Apply Cancel

NOTE: On a Linux-based system with multiple network interface cards (NICs), the DNS server is the same for all the NICs in the system. Therefore, changing the DNS on a single NIC changes the DNS for all the NICs in the system.

- 1. Select a network connection from the Network Interface Settings drop-down list to display its information. Systems with multiple NICs have more than one entry in the list.
- 2. Enter the IP Configuration information for the network connection. Gateway and Primary DNS information is required to connect with a network time server. Click Apply.
- 3. Select the correct bandwidth setting to limit network traffic from the server to client computers and iSCSI drives, and then click Apply. **NOTE:** This setting applies to outbound traffic from all NICs in the system.
- 4. Select the IP Reconnection Settings value in seconds. Click Apply.
- The Active Directory/LDAP tab is used only with systems with an Enterprise license. For more information, see the LDAP integration document appropriate for your platform found at https://www.exacq.com/downloads/LDAP/index.html.







Add IP Cameras

My Systems		3		IP	Came	ras			
Add System 國 Client Setup	_IP Camera Information		IP Camera List						
🔏 Enterprise User Setup	Device Type: AXIS VAPIX	-F.	E. Address	Type	Model	MAC	Firmware	Status	
🔜 Event Monitoring 🛛 🚺	Device Type: AXIS VAPIA	17 💌	192,168,1		216ED	00-40-80-96-69-82	4.47.1	Connected.	-
🗓 Group Setup	Username: root		✓ 192.168.1		2410	00-40-8C-73-5D-EC	4.47.2	Connected.	
Map Setup					241Q	00-90-8C-73-5D-EC	4.47.2		
AXIS Server 2003	Password: ••••							Not connected.	
😽 😽 System Setup	Passworu:				Q1755	00-40-8C-94-78-19	5.02	Connected.	
P Cameras	Password Confirm: ••••	C	192.168.1		M3014	00-40-8C-A0-E7-97	5.06-CST187764	Connected.	
E 🖓 Camera Recording Se	Password Confirm:	6	192.168.1	100.230 AXIS VAPIX	P1346	00-40-8C-A5-C6-A7	5.06.1	Connected.	
Audio Input Setup	the data and the data and		₩ 192.168.1	100.187 AXIS VAPIX	215 PTZ	00-40-8C-82-D7-BF	4.49	Connected.	
Trigger Input Setup	Hostname/IP Address:		192.168.1	100.222 AXIS VAPIX				Not connected.	
Alarm Output Setup			192,168,1					Not connected.	
Storage Setup	Port: 80		192.168.1					Not connected.	
Serial Profile Setup	5								
	New Delete		192.168.1					Not connected.	
I Serial Port Setup	Delete		192.168.1		M3011	00-40-8C-9A-2A-4C	5.01	Connected.	
Notifications			192.168.1	100.70 AXIS VAPIX				Not connected.	
	Apply Cancel							Creating new	
Schedule Schedule	Find IP Cameras Rescan Network Server last scann	ed for IP car 2	2010 at 7:11	1:22 PM.				Crocking now	
Event Linking Schedule Users Hybrid Server	Rescan Network Server last scann		2010 at 7:11		Circ			Creating news.	
Event Linking Schedule Users Hybrid Server	Rescan Network Server last scann	Address	2010 at 7:11	Model MAC		ware		Creating novem	
Event Linking Schedule Users Hybrid Server	Rescan Network Server last scann Reported Name AXIS 214 - 00408C817387	Address 192.168.100.199	2010 at 7:11 Type M AXIS VAPIX	Model MAC 00-40-8C-81-7:	-87	ware		Creating new	
Event Linking Schedule Users Hybrid Server	Rescan Network Server last scann Reported Name AXIS 214 - 00408/817387 AXIS 27404 Channel 1 - 00408/2999626 AXIS 27404	Address 192.168.100.199 192.168.100.86	2010 at 7:11 Type AXIS VAPIX AXIS VAPIX	Model MAC 00-40-8C-81-7: 00-40-8C-99-94	-87	ware		Creating new	
Event Linking Schedule Users Hybrid Server	Rescan Network Server last scann Reported Name AXIS 214 - 00408C817387	Address 192.168.100.199	2010 at 7:11 Type M AXIS VAPIX	Model MAC 00-40-8C-81-7:	-87 -26 3-C1	ware		Creating news.	
Event Linking Schedule Users Hybrid Server	Rescan Network Server last scann Reported Name AXIS 214 - 00408C817387 AXIS 5Q7404 Channel 1 - 00408C999626 AXIS M3204 - 00408C498611	Address 192.168.100.899 192.168.100.86 192.168.100.114	2010 at 7:11 Type M AXIS VAPIX AXIS VAPIX AXIS VAPIX	Model MAC 00-40-8C-81-7: 00-40-8C-99-94 00-40-8C-A6-94		ware		Crowing from	
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The **IP Cameras** page allows you to add IP cameras and devices to the system and configure their settings. The following features are available on the IP Cameras page:

1. The Find IP Cameras section scans for supported IP cameras available on the same network that the system is connected to. If you don't see an IP camera that you expect to see on the network, verify that the camera has been configured as instructed in the *exacqVision IP Camera Quickstart Guide* and that the camera can be pinged from a command prompt. If you make any changes to an IP camera, click Rescan Network and check whether it is listed.

NOTE: If you need to confirm which camera you are installing, right-click the camera in the IP Camera List or Find IP Cameras list to access the camera's website and view a video image.

- 2. Select a camera in the Find IP Cameras list to add it to the IP Camera List.
- 3. Alternatively, you can manually add a camera by clicking New and selecting the device type as follows:
 - If the appropriate manufacturer-specific driver is shown in the list, select it.
 - If that is not available and the device is ONVIF-compliant, select the ONVIF driver. (The level of integration can vary by manufacturer or model.)
 - RTSP-compliant cameras can stream video but not motion detection or camera configuration data.
- 4. Enter a username, password, and IP address as configured on the camera.
- 5. Click Apply to save the camera configuration.
- 6. To enable a camera, select its checkbox in the IP Camera List. The number of cameras you can enable is subject to licensing limits.

The camera should now also be listed in the Configuration, Live, and Search trees.

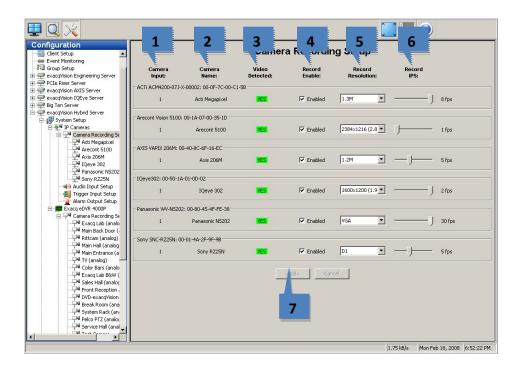


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IP Camera Recording Setup



The IP **Camera Recording Setup** page allows you to enable IP cameras to record video, configure the recording resolution, and configure the images per second (IPS) recording rate. The following features are available on the IP Cameras page:

- 1. The Camera Input column is always 1 for single-channel devices, or incremented for multi-channel devices.
- 2. The Camera Name column shows the assigned name of the camera.
- 3. The Video Detected column indicates whether the camera is connected and sending a video signal to the system. If so, a green "YES" is shown.
- 4. The Record Enabled column contains check boxes that allow you to enable or disable recording from that camera. By default, the check box is selected if a signal is detected; however, you can manually disable recording on a camera that is connected and sending a signal to the system.
- 5. The Record Resolution column contains drop-down lists with resolutions supported on each camera.
- 6. The Record IPS column contains sliders allow you to change the number of images recorded from each camera every second. The available IPS settings can vary between cameras.
- 7. Click Apply to activate any changes.







Analog Camera Recording Setup

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tems d System	1	2	3	4	5	7	
bystem pup Setup	Exact	P 4					
acqVision Demo Server	Camera	Camera	Video	Record	Record	Record	
System Setup	Position:	Name:	Detected:		Resolution:	IPS:	
QN4 IP Cameras							
Exacq eDVR 4000P	1	Exacq Lab (analog)	NO.	Enabled	2CIF 💌	-0-	15 IP5
Camera Recording Setup							
	2	Main Back Door (analog)	YES	Enabled	2CIF 🗸	-0-	15 IPS
Main Back Door (analog)						~	
- 🖓 Rittcam (analog)	3	Rittcam (analog)	YES	Enabled	2CIF 🗸	-0-	15 IPS
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- Main Entrance (analog)	4	Main Hall (analog)	YES	Enabled	2CIF 🗸	-0-	15 IPS
TV (analog)		(pr			[~	
	5	Main Entrance (analog)	YES	Enabled	2CIF 🗸	_1_	15 IPS
- P4 Exacq Lab B8W (analog)						~	
- 🖓 Sales Hall (analog)	6	TV (analog)	YES	Enabled	2CIF		15 IPS
Main Reception (analog)		() (and a)				~	1000
	7	Color Bars (analog)	YES	Enabled	2CIF		15 IPS
- 74 Break Room (analog)		color pars (analog)		Elendered	een r	~	10110
- 74 System Rack (analog)	8	Exacq Lab BW (analog)		Enabled	2CIF		15 IP5
- P4 Pelco PTZ (analog)	0	cryard can pile (analog)		Change	201	~	15155
Panasonic PTZ (analog)	9	Sales Hall (analog)	YES	Enabled	2CIF		15 IPS
	9	Sales hall (analog)		Chabled	2CIF		15125
- 4) Audio Input Setup	10	Main Reception (analog)	YES	Enabled	2CIF		15 IP5
Alarm Output Setup	10	main Reception (analog)		Chabled	2CIF	· •	15195
Device 1 Output 1				Dented	lacter (1)		10.000
Users	11	DVD - Indy 500 (analog)	YES	Enabled	2CIF 💌	-	15 IPS
Schedule			-	-	farm (11)	-	1000
Event Linking	12	Break Room (analog)	YES	Enabled	2CIF 💌		15 IPS
Serial Port Setup			1	-	[-	
POS/ATM Setup	13	System Rack (analog)	YES	Enabled	2CIF 💌		15 IPS
Notifications			100	_		_	
exacgRecal Setup	14	Pelco PTZ (analog)	YES	Enabled	2CIF 💌		15 IPS
torage Setup						-	
gVision Engineering Server	15	Service Hall (analog)	YES	Enabled	2CIF 💌	-0-	15 IPS
an's Office Debugger			1000				
	16	Panasonic PTZ (analog)		Enabled	D1	0	OFF
			6		8	*	

The analog **Camera Recording Setup** page allows you to enable cameras to record video, and configure the cameras' recording resolution and recording rate. This page is similar to the IP Camera Recording Setup page, with a few minor differences. The following features are available on the analog Camera Recording Setup page:

- 1. The Camera Position column is the physical input connect that the camera is connected to on the back of the exacqVision system.
- 2. The Camera Name column shows the assigned name of the camera.
- 3. The Video Detected column indicates whether the camera is connected and sending a video signal to the system. If so, a green "YES" is shown.
- 4. The Record Enabled column contains check boxes that allow you to enable or disable recording from that camera. By default, the check box is selected if a signal is detected.
- 5. The Record Resolution column contains drop-down lists with resolutions supported on each camera.
- 6. To change the resolution for all detected cameras on the system, click on the D1, 2CIF or CIF button.
- 7. The Record IPS column contains sliders allow you to change the number of images recorded from each camera every second. The available IPS settings can vary between cameras.
- 8. Click Apply to activate any changes.







Camera Setup



The **Camera Setup** page is where you configure the individual IP and analog camera settings such as camera name, onscreen display, PTZ settings, video settings, recording quality and motion and video masks. This page is identical whether you are configuring an IP or an analog camera, but certain features might be unavailable depending on the type of camera you are configuring. The following features are available on the Camera Setup page:

- 1. Use the Configuration tree to select the camera that you want to configure.
- 2. A live view of the selected camera is displayed.
- 3. Basic information about the camera is listed.
- 4. The Camera Name field allows you to change the name of the camera.
- 5. The On-Screen Display section allows you to select the information displayed in the camera's window on the live page, the location in the window where it is displayed, and the font of the displayed text.
- 6. See the "PTZ Configuration" section of this manual for information about the PTZ Control section of the Camera Setup page.

The rest of the Camera Setup page is discussed on the following page.

IMPORTANT NOTE

Many IP camera settings that are not available in the exacqVision software can be accessed through the camera's web page. To view an IP camera's web page, click the hyperlink in the IP Address field. If you don't see a hyperlink beside the IP Address field, it could be for one of two reasons:

- A. You are not logged in to the operating system with administrative privileges. You must log in to operating system account with administrative privileges to access the hyperlink.
- B. Your client computer is not located on the same IP subnet as the IP camera. This could occur if you are using the client from a home computer to access a server at your office, for example. This restriction should cause few issues because camera website settings are typically changed only during initial configuration.



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PTZ Serial Port: COM8 V Address: 3 V Protocol:	Pelco-D Settings Digital PTZ	
7 Video Settings 8	tecord Settings	9
Brightness = 50 % 0 Contrast = 50 % 0	Format Quality = 7 JPEG Pre Motion = 1	10
Saturation = 50 %	MPEG4 Post Motion = 1 Motion Detection	11
Sharpness = 100 %	Sensitivity = 6	12
16a Video Mask Edit Clear Apply Cancel	Smooth Begin = 0.25 sec	13
14 Edit Clear Apply Cancel Defaults 15a	Motion Mask Edit Clear Apply Cancel 16b Defaults 15b	

NOTE: The following settings on the Camera Setup page are not available on RTSP interfaces, and they vary on ONVIF and certain proprietary interfaces.

- 7. The Video Settings sliders allow you to adjust the image as it is displayed on your screen.
- 8. The Format section allows you to select the compression format.
- 9. The Quality slider allows you to modify the image quality by increasing or decreasing its size. Decreasing image quality saves disk space by reducing the size of the video that's being recorded.
- 10. The Pre Motion slider adjusts the number of seconds of video that are saved before the motion event occurs. For example, suppose Pre Motion is set to 5; when you play back motion video from that camera, you will see five seconds of video that was recorded before the motion event occurred, followed by the motion event itself.
- 11. Post Motion is the same as Pre Motion, except that the slider adjusts the number of seconds of video that are saved after the motion event has completed.
- 12. The Sensitivity slider allows you to configure how much motion must occur in the camera's view to trigger motion recording (if enabled on the Schedule page). A low sensitivity setting can reduce false motion created by video noise or shadows. If the page includes a Motion Window section (available with certain IP cameras), you can also change a percentage slider, which determines how much of the camera view must change to trigger motion recording.

NOTE: See the following section, "Motion Masks, Video Masks, and Motion Windows," for more details.

13. Smooth Begin and Smooth End prevent the undesired recording of certain motion events. Smooth Begin requires a minimum amount of time for motion to occur before motion recording begins; this prevents things such as a blinking light of a laser bar code scanner in a dark room, or cars passing on a road in the distance, from triggering motion recording. Smooth End determines how much video the system continues recording after the motion is no longer detected; this prevents the recording of choppy segments of frequent motion video.

NOTE: Smooth Begin and Smooth End are available only on analog cameras.

- 14. Crop Window, available on certain IP cameras, allows you to crop unimportant portions of a camera image in order to save disk space. Click Edit and then use the mouse cursor to draw a box on the video window. This box will be the portion of the camera's view that will be recorded and displayed (the rest of the view will be ignored). Click Apply to activate the crop; click Edit, Clear, and Apply to deactivate the crop.
- 15. The Defaults buttons restore factory settings to their respective sections. One Defaults button restores the Video Settings, and the other Defaults button restores the Record Settings.
- 16. See the following section, "Motion Masks, Video Masks, and Motion Windows" for more information about those portions of the Camera Setup page.



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Motion Masks, Video Masks, and Motion Windows

The following types of masks can be created on cameras connected to an exacqVision system:

- A Motion Mask is an area of a video window where motion is ignored
- A Motion Window is an area of a video window where motion is monitored (and the remainder of the screen is essentially masked).
- A Video Mask is used to block an area of a camera's view so that it cannot be seen onscreen in live or recorded video.

NOTE: The type of mask available varies by camera.

A motion mask reduces unwanted recording by ignoring motion events that occur in certain areas of an image. For example, if a camera is pointed at a room that has a moving ceiling fan in the field of view, you can avoid continuous motion recording by masking out the fan while still recording motion that occurs in the rest of the camera's field of view. Motion masks save storage space, extend recording time, and make it easier to visually see motion events on the video timeline on the Search page. A motion window is simply the opposite of a motion mask.

To create a motion mask or motion window, complete the following steps:

- 1. On the Camera Setup page, click Edit in the Motion Mask or Motion Window section. This displays a blue motion grid over live video from the camera.
- 2. Draw the mask directly in the grid. You can either individually click each rectangle to create the mask or window, or you can left-click while dragging the cursor across multiple rectangles.



3. Click Apply to enable the motion mask or motion window.

To delete a motion mask or window, click Edit, click Clear, and click Apply.





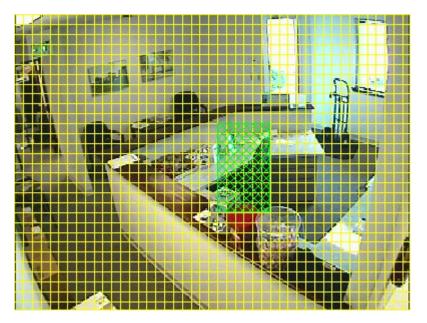


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A Video Mask is used to block an area of a camera's view so that it cannot be seen onscreen in live or recorded video. This can be useful if you don't want system users to see a combination safe or keypad that is in the camera's field of view, for example.

To create a video mask, complete the following steps:

- 1. On the Camera Setup page, click Edit in the Video Mask section. This displays a yellow grid over the live video from the camera.
- 2. Draw the mask directly in the grid by left-clicking while dragging the cursor over the area of the grid you want to mask. A green rectangle indicates the masked area.



3. Click Apply. The yellow grid disappears and green rectangle is replaced by a solid gray rectangle. This area is now masked from both live and recorded video. To clear the mask, click the Clear button.







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Serial Profile Setup

The Serial Profile Setup page enables the exacqVision server to integrate with serial data devices such as point-of-sale (POS) and bank machine systems.

Configuration My Systems		Se	rial Prof	file Setup	
Add System					
🗄 🐻 Client Setup	The second s				
Enterprise User Setup	Current Profile Properties			1	
	3 Profile Name: Ke	yword Test		Existing Profiles	
🗉 🍈 Map Setup				IP Marsh Port	
🗉 🚍 ANNANDALE	SOT marker:			Keyword Test	
- 💭 exacqVision AXIS Server 2003	4 SOT marker:				
😑 🚍 exacqVision Hybrid Server					
🗈 👘 System Setup	EOT marker:				
- 💭 Storage Setup	5				
Serial Profile Setup		ase Sensitive			
Serial Port Setup	Select	t Display Font			
- Notifications		c bispidy i one		New Delete	
exacqRecall Setup	6	nt Sample			
Event Linking		in compre			
Users				2	0
exacqVision Server				_	9
exacqVision Stardot Server	Live Display and Record Masks			Event Key Words	
E System Setup					
😔 Storage Setup	String	Mask	Mask	Cey Word	Enable 🔷
Serial Profile Setup		Display	Record		
🔄 Serial Port Setup				disco	<u> </u>
				clock	
				side door	
- 📾 Event Linking				front door	✓
- 🚜 Users					
	Case Se	nsitive		Case Sensitive	
	B Days for Data Rete	ntion: 60 🛟		Apply Cancel	10

- 1. To view an existing profile, click on it in the Existing Profiles field.
- 2. To add a new profile, click the New in the Existing Profiles box.
- 3. Enter a unique name in the Profile Name field in the Current Profile Properties box.
- 4. The SOT, or Start of Transaction, marker tells the exacqVision System when the transaction has started. For example, you could enter the first line shown on a receipt. **This entry is case-sensitive.**
- 5. The EOT, or End of Transaction, marker tells the exacqVision System when the transaction has ended. For example, you could enter the last line shown on a receipt. **This entry is case-sensitive.**
- 6. The Select Display Font button allows you to select the font you want to be displayed on the Live view.
- 7. Live Display and Record Masks allows you to black out lines so they are not visible on the live camera or through recorded data. (This can be used to hide credit card information.) Enter one or more signal words in the String field, and the system will black out the entire line on either the live display screen or recorded transaction or both. To mask the live video feed, select the Mask Display box; to mask the recorded transaction data, select the Mask Record box.
- 8. The Days For Data Retention field defaults to 60. To change this, use the arrows or type a new number.
- 9. Event Key Words (not available in exacqVision Start) allows you to set alarms that will be triggered through key words on a receipt after you link the profile through the Event Linking system.
- 10. When finished, click Apply.

NOTES: You can require case sensitivity for all strings or all key words by selecting the appropriate Case Sensitive option under each list. To enter the ESC (0x1b) ASCII character as the SOT, EOT, mask, or key word, enter "/x1b" in the appropriate field. CR, LF, or 80 characters terminates a line.

You have now created the new serial profile. If you entered any data in the Event Key Words box, you must link the profile to the appropriate Action through the Event Linking page, selecting Serial Profile as the Event Type.



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Serial Port Setup

The Serial Port Setup page allows you to configure serial ports on your exacqVision system so that they can be used to communicate with serial devices such as POS terminals or pan-tilt-zoom (PTZ) cameras. There are two Serial Port Setup sections — one for standard UART (Universal Asynchronous Receiver/Transmitter) and one for serial ports over IP.

Use	Name	Port	Profile / Protocol	Baud Rate	e Data	Bits	Stop Bits	Parity	Flow Contro	I Max Line Length
05	🚩 MarshPort	COM1	Marsh 📘	4800	8	*	1 💌	None 📑	🖌 None 📃 🐚	/ 80
nused	Y Test	COM3	None	9600	8		1	None	None	80
ſZ	🚩 Pelco	COM6	Pelco-D	4800	✓ 8	*	1 💌	None	🖌 None 📃 📩	2 80
									MaxLine	1
Select	Use	Name	Status	Profile	Ту	pe	Address	Port	Max Line Length	
Select		Name MarshIpPort	Status Connected.		TCP		Address 192.168.100.20			

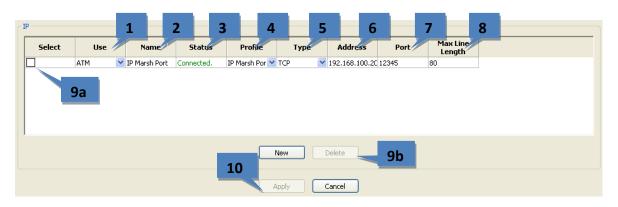
For a UART serial port, connect the wires to the serial port and then configure the port. The system automatically detects and displays the serial ports. You can configure the following settings on each port:

- Select the intended use of the serial port from the drop-down list in the Use column. The choices are unused, PTZ (pan/tilt/zoom), POS (point of sale), ATM (automatic teller machine), or Access Ctrl. Generally, the POS mode is used to record transactions at a cash register. By default, the last serial port listed is the built-in RS-485 port.
- 2. Enter a unique name in the Name field.
- 3. The Port is automatically selected by the Operating System.
- 4. The Profile/Protocol column allows you to select one of the profiles configured on the Serial Profile page.
- 5. The Baud Rate, Data Bits, Stop Bits, Parity, and Flow Control must match the device you are connecting to. See the device's documentation for more information.
- 6. The Max Line Length is 80 by default. Generally, you should not change this.
- 7. When you are finished, save the settings by clicking the Apply button at the bottom of the page.









For serial over IP, you must add the port by clicking New; the system does not automatically detect and list IP serial ports. You can configure the following settings on each port:

- 1. Select the intended use of the port (unused, POS, ATM, or Access Control).
- 2. Enter a unique and descriptive name for the port that will appear to client and Live view users.
- 3. The Status column displays whether the port is currently connected.
- 4. Select a profile from the drop-down list. Profiles, which are created on the Serial Profile Setup page, are used to filter an incoming serial string to isolate useful information.
- 5. Select the transport type as defined by the source device manufacturer's documentation.
- 6. Enter the IP address of the source device.
- 7. Enter the TCP port of the source device as defined by the device manufacturer's documentation.
- 8. Enter the maximum number of characters per line sent by the source device. If you are unsure of the correct value, use the default setting of 80. Setting this number too low could result in missing characters at the end of certain lines.
- 9. To delete an IP port, choose its Select checkbox (9a) and click Delete (9b).
- 10. When you are finished, save the settings by clicking the Apply button at the bottom of the page.



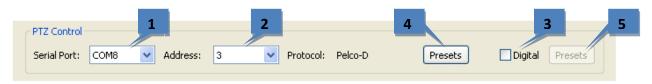




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PTZ Configuration

This section discusses the PTZ Control section of the Camera Setup page, which allows you to identify a camera as a PTZ device and configure PTZ presets.



- 1. Select the camera's COM port from the Serial Port drop-down list. This port is configured on the Serial Port Setup page.
- 2. Select the camera's Address as configured on the camera hardware. (The protocol is automatically displayed based on the Serial Port selected.)
- 3. To enable digital PTZ functions on the Live and Search pages, select the Digital checkbox. This is available even if the camera is not mechanically capable of PTZ functions.
- 4. The first Presets button opens the Analog PTZControl window, which is described on the following page.
- 5. The second Presets button opens the Digital PTZControl window, which is described after the Analog PTZControl description.

NOTE: When you create a PTZ preset, it is initially named New_preset_1 by default. Then, if a PTZ preset named New_preset_1 exists, the next PTZ preset is named New_preset_2. However, if you create a new digital preset, it will also be named New_preset_1, regardless of whether there is already a PTZ preset with that name. To avoid having both a PTZ preset and a digital preset with the same name, make sure you enter a unique name for each preset that you create.

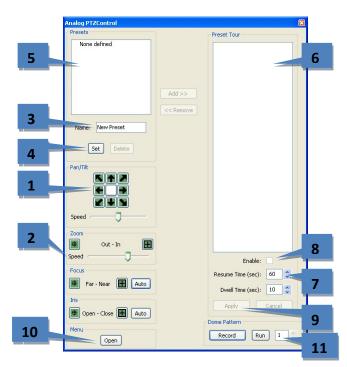






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Analog PTZ presets can be configured by clicking the left Presets button on the Camera Setup page.



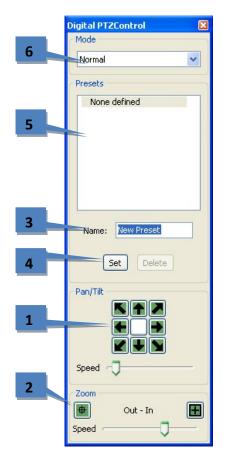
- 1. Use the Pan/Tilt buttons to point the camera at the desired preset location. If the camera moves too quickly or too slowly, move the Speed slider left (slower) or right (faster).
- 2. Adjust the Zoom, Focus, and Iris settings as desired (Focus and Iris are not available when configuring IP cameras).
- 3. Enter a name or number for the preset in the Name field.
- 4. Click Set to enable the preset.
- 5. After you click Set, the preset is listed under Presets.
- 6. To create a Preset tour, select a preset from the Presets list and click Add>> to show it in the Preset Tour list. Repeat for each remaining preset that you want to include in the tour. You can re-order the presets in the Preset Tour list by clicking and dragging them to the desired place in the tour. To delete a preset from the tour, select it in the Preset Tour list and click <<Remove. A preset can be included multiple times in the tour.</p>
- 7. Resume time is the number of seconds that a tour starts after a user manually controls PTZ functions while a tour is active. Dwell time is the amount of time that the camera stays on each preset.
- 8. Select Enable to activate the tour.
- 9. Select Apply to complete the process.
- 10. The Open button displays the camera manufacturer's onscreen menu. Actions required to accept onscreen information varies by manufacturer; clicking Iris Open and Focus Far are the most common.
- 11. To create a dome pattern (available only on certain analog cameras), click Record, move the camera in the pattern desired, and click Stop. Click Run to review the pattern.







Digital PTZ presets can be configured by clicking the Presets button next to the Digital checkbox on the Camera Setup page.



- 1. Use the Pan/Tilt buttons to point the camera at the desired preset location. If the camera moves too quickly or too slowly, move the Speed slider left (slower) or right (faster).
- 2. Adjust the Zoom, setting as desired.
- 3. Enter a name or number for the preset in the Name field.
- 4. Click Set to enable the preset.
- 5. After you click Set, the preset is listed under Presets.
- 6. Select a Mode for cameras with exacqVision-supported fisheye lenses. If you select Immervision, additional drop-down lists appear that allow you to select a model and mounting options. If you select Sentry360, enter values for X, Y, and R as provided by the manufacturer. If you are not using a fisheye lens, select Normal.







Audio Input Setup

Audio Input Setup									
Audio Input:	Audio Input Channel Name:	Record Enable:	Listen:	Recording Mode:					
eDVR 4000P									
1	TV	🗹 Enabled	Listen	Continuous Recording					
2	DVD	🔽 Enabled	Listen	Continuous Recording					
3	Audio Input 3	Enabled	Listen	Recording Disabled					
4	1K Test Tone	🗹 Enabled	Listen	Continuous Recording					
	1	Apply 2	4	5					

The Audio Input Setup page allows you to name and enable the audio inputs you want to record. The exacqVision System ships with the audio input positions disabled due to legal restraints on audio recording in some jurisdictions. You may want to seek legal guidance prior to recording any audio inputs.

- 1. Enter a name for the audio input channel.
- 2. Select Enabled to enable audio recording on the input.
- 3. Repeat this process until all audio inputs have been named, and then click the Apply button.
- 4. Click Listen to verify the audio input connected to a channel. This is sometimes helpful when assigning names to multiple audio inputs.
- 5. The Recording Mode column shows the recording mode selected for the audio input on the Schedule page.







Trigger Input Setup

System	Trigger Input:	Trigger Name:	Normal State:	Status:
t Setup			Horma State.	Status.
nt Monitoring p Setup	AXIS VAPIX 215 PTZ: 0	0-40-8C-9F-DD-03		
Setup				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Interprise	1	Input 1	ONO ONC	NORMAL
qVision AXIS Server 2003				
gVision Hybrid Server	- IQeye IQ732N: 00-50-1	1A-08-00-6D		
iystem Setup				
M IP Cameras	1	Trigger Input 1	ONO ONC	NORMAL
E 🖵 Camera Recording Se				
- Trigger Input Setup				
- 🎽 Alarm Output Setup	Pelco TXB-N: 00-04-7D-	-04-EA-FD		
Audio Input Setup	1	Trigger Input 1		NORMAL
eDVR 4000P	1	ingger input i	ONC ONC	NORMAL
Camera Recording Se				
🐳 Audio Input Setup	2	Trigger Input 2	⊙ NO O NC	NORMAL
Trigger Input Setup		·		
Alarm Output Setup	3	Trigger Input 3	0.00	MODMAL
Video Output 2	3	ingger input 5	ONO ONC	NORMAL
Storage Setup				
Serial Profile Setup	4	Trigger Input 4	ONO ONC	NORMAL
Serial Port Setup				
Notifications	5	Trigger Input 5		NODMAL
xacqRecall Setup	5	ingger input 5	ONO ONC	NORMAL
vent Linking				
Schedule	6	Trigger Input 6		NORMAL
Jsers				
qVision Server		Trianau Innut. 7		
ST46	7	Trigger Input 7	ONO ONC	NORMAL

The Trigger Input Setup page allows you to assign a name and configuration to the discrete inputs on hybrid systems and certain IP cameras with alarm inputs. These triggers can be configured to trigger video recording or a relay using the Event Linking page.

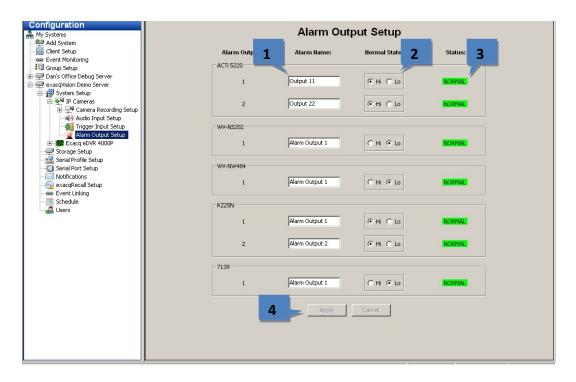
- 1. Enter a name for each trigger input in the Trigger Name column.
- 2. Configure the trigger input's Normal State as Normally Open (NO) or Normally Closed (NC).
- 3. The Status column indicates whether the trigger input is in its normal (green) state or in its alarm (red) state.
- 4. When you are finished configuring trigger inputs, click Apply.







Alarm Output Setup



The Alarm Output Setup page allows you to assign a name and configuration to the alarm outputs on hybrid systems and certain IP cameras.

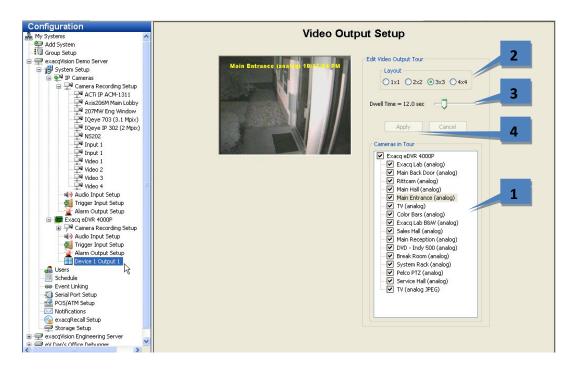
- 1. Enter a name for each alarm output in the Alarm Name column.
- 2. Configure the alarm output's Normal State as Hi (5VDC) or Lo (0VDC).
- 3. The Status column indicates whether the alarm output is in its normal (green) state or in its alarm (red) state. The output can be triggered to alarm state by an event configured on the Event Linking page.
- 4. When you are finished configuring alarm outputs, click Apply.







Video Output Setup



On hybrid systems, the Video Output Setup page allows you to configure your security spot monitor for touring (switching) between analog video cameras in various display modes.

- 1. Select the cameras that you want to include in the tour from the Camera in Tour check box. This displays video from the camera in the video window.
- 2. Select a Layout mode.
- 3. Move the Dwell Time slider to configure the length of time before the monitor switches to the next camera. The Dwell Time range is from 1 to 60 seconds.
- 4. When you are finished configuring the video output, click Apply to start the tour.

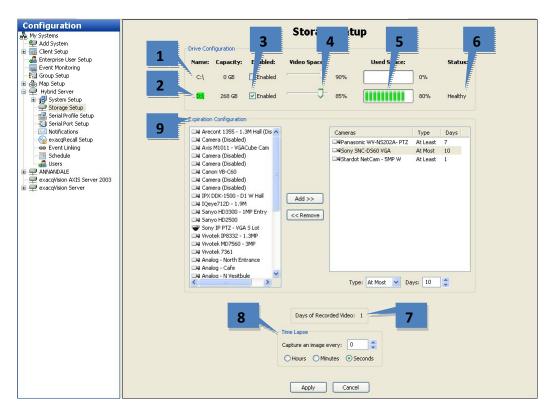






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Storage Setup



The **Storage Setup** page allows you to configure the system's hard drives for video storage.

- 1. The system drive ("C:\" in Windows, or "/mnt/edvr/0" in Linux) is reserved for the exacqVision software and operating system and is not enabled for video storage. Do not record video to this drive.
- 2. The storage drives are listed below the system drive.
- 3. To enable a drive for video storage, select its Enabled: box.
- 4. To adjust the maximum amount of drive space that can be used for data storage, adjust the Video Space slider for each storage drive. **NOTE:** Performance can decrease if you set the Video Space slider greater than 85%.
- 5. Used Space displays how much of the hard drive capacity is currently full.
- 6. Status displays the current state of the hard drive.
- 7. Days of Recorded Video indicates the age of the oldest video recorded on this system.

NOTE: The following features on the Storage Setup page are not available in exacqVision Start.

- 8. Time Lapse allows you to configure the system to capture images regularly even if the cameras are configured to record upon motion or alarm. This can show the system is operational even when motion is not occurring. Use the up and down arrows to the desired increment and then select either the Hours, Minutes, or Seconds radio button. Selecting zero to disable this feature.
- 9. Expiration Configuration allows you to set minimum or maximum time periods for video from each camera to be stored. For example, you could configure one camera's video to be stored for at least 30 days before it is deleted, and another camera's to be deleted after no more than 7 days. See the following IMPORTANT NOTE before using this feature.



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IMPORTANT NOTE

The system normally retains recorded video from all cameras for as long as possible, deleting the oldest video only when required to create room for newly recorded video. Thus, **it is recommended that you use the Expiration Configuration feature only when necessary**, such as when video must be deleted after a specific maximum time period as required by law.

When using the feature, the Days of Recorded Video indicator should be higher than the greatest number of minimum days configured for a camera in the Expiration Configuration area. For example, if you configure a camera's video to be stored for at least 30 days, the Days of Recorded Video indicator should be at least 30 (assuming the system has been recording video for at least 30 days). If the Days of Recorded Video indicator were lower than 30, video recording would stop for that camera until the oldest video stored from that camera got deleted (after 30 days).

To resolve issues with video expiration, you can expand your storage capacity by adding hard drives, reduce the minimum time that video needs to be stored, or reduce frame rates or quality settings for the applicable cameras. The best way to determine your needs is by trial and error; allow the system to record at your desired settings and then monitor the Storage Setup page to ensure that the settings will meet the storage requirements.

To configure video expiration, select a camera name in the list on the left and click Add>>. (You can select multiple cameras by pressing the Ctrl or Shift buttons.) Then select the camera name in the list on the right. You can configure two types of expiration:

- To delete video after a certain amount of time, select At Most from the Type drop-down list and use the arrows to select the maximum number of days the video should be stored.
- To save video for a minimum amount of time, select At Least from the Type drop-down list and use the arrows to select the minimum number of days the video should be stored.

Repeat for each camera that requires expiration rules. To remove expiration rules, select one or more camera names in the list on the right and click <<Remove. Click Apply when finished.







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Notifications

NOTE: The Notifications page is not available in exacqVision Start.

The Notifications page allows you to configure an e-mail server and message profile that will send an email message when an event occurs. To configure events that cause an email notification to be sent using these email settings, see the "Event Linking" section of this manual.

The Notifications page is separated into two tabs: E-mail Message Profiles and E-mail Servers.

E-mail Message Profiles E-mail Servers	
Description 👻	Subject
Sample Message Profile	Motion Detected Analog North Entrance
E-mail Message Profile Configuration	Delete Test Profile
Profile Description:	
Send Rate Limit: 0 🗘 seconds	
From:	
to 💌	
Subject:	
	-
	7

The E-mail Message Profiles tab allows you to determine the email notification recipients and the content of the notification.

- 1. Click New.
- 2. Enter a brief description in the Profile Description field. This description will also appear in the Action Target field on the Event Linking page.
- 3. To reduce the number of email notifications sent, select the minimum number of seconds between notifications from the Send Rate Limit box. This can be useful if you receive a large number of repeated messages about certain events. For example, if you configure a notification every time a motion event occurs, a thunderstorm at night could trigger thousands of emails over a short period of time. Limiting notifications about the motion events to a maximum of one every 15 or 30 minutes (900 or 1800 seconds) could drastically reduce unnecessary emails.
- 4. Enter the e-mail address of the person the email is coming from.
- 5. Enter the e-mail addresses of the recipients.
- 6. Enter a Subject and Message information that should appear in the email notification.

NOTE: Do not use special characters (such as &, @, #, and hyphens) in the subject and message text.

- 7. Click Add under Message Profiles to add the message profile to the Message Profiles list.
- 8. You can test the profile by selecting it from the Message Profile list and clicking the Test Profile button.



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The E-mail Servers Configuration tab allows you configure the outgoing SMTP mail server that sends email from the exacqVision system. This information can be provided by the network administrator.

Description	Address	Port
Sample E-mail Server	smtp.gmail.com	465
E-mail Server Configuration		Delete
Server Description: Outgoing Mail Server (SMTP)		
Address:		
Port: 25		
Authentication		
Username: Password:	Confirm Passwo 5	

- 1. Click New.
- 2. In the Server Description field, enter a unique, descriptive name of email server.
- 3. In the Outgoing Mail Server (SMTP) section, enter the address and port number (25 is the default) of the outgoing mail server.
- 4. If your email server requires authentication, enter a valid Username and Password in the Authentication section.
- 5. Click Add to add the email server to the list.
- 6. To change the order of the email servers, select a server from the list and then click the up or down button.









exacqRecall Button Configuration

NOTE: The exacqRecall Setup page is not available in exacqVision Start.

The exacqRecall Button quickly exports video and audio from specified inputs to a CD, DVD, or hard drive.

Configuration	Profiles Name Before After New Profile 30 min. 30 min.	2 exacqRecall \$ Edit Profile	Setup 5 Export Path: Burn CD/DVD Export Name: Export PS file only 6 Choose Item
1	New Delete Activity Status Profile: N/A		Status us: Available
	Status: Idle Output: N/A Write Progress: Elect Media when Done Save Refresh Status	Media Statu Typ	e: CD-R//CD-RW/DVD-R/DVD-RAM a Status us: Media Error be: N/A 2e: N/A exacqRecall NowI Cancel

- 1. If you want to create a profile that can be used on the Event Linking page, click New. Otherwise, skip to step 9 on the following page.
- 2. Enter a Name for the profile.
- 3. Select a Minutes Before value, which is the amount of video that occurred before the exacqRecall button was pushed that should be included in the export.
- 4. Select a Minutes After value, which is the amount of video that occurs after the exacqRecall button was pushed that should be included in the export. This can be useful when an event of interest is still occurring.
- 5. Select the destination of the export files from the Export Path drop-down list. If you choose a drive, enter a name for the drive in the Export Name field.
- 6. To enable export files greater than 4GB (up to 137GB), select Export PS File Only.
- 7. Select the cameras to be included in the export profile.
- 8. Click Apply to finish creating an exacqRecall profile and add it to the Profiles list. This button is not available until you modify the default profile name (New Profile).

NOTE: The system will NOT use the profile until you link it to an event on the Event Linking page using Button Input as the Event Type and exacqRecall as the Action Type.

The rest of the exacqRecall Setup page is described on the following page.



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	Vitor + Cui in Cliu yway Q7404 Dock Auto M2204 + 2 Mm New Delete	Apply Cancel
14	Activity Status 9 Profile: N/A Status: Idle	Drive Status Status: Available Type: CD-R/CD-RW/DVD-R/DVD-RAM
	Output: N/A 1 Write Progress:	Status: Media Error
12	Eject Media when Done Save	Type: N/A Size: N/A 13 exacqRecall Now! Cancel

- 9. Drive Status indicates whether the system has a writable CD/DVD drive and compatible formats.
- 10. Media Status indicates whether a blank disc is loaded in the drive and its format and storage size.
- 11. The Eject Media When Done option configures the CD/DVD drive to open automatically when the system finishes exporting the data to the disc. (Note that if the front door on the system is latched, the drive cannot open.) Click Save if you change the setting.
- 12. If you insert a disk while the exacqRecall Setup page is open, click Refresh Status.
- 13. To initiate an export, click exacqRecall Now! This opens the exacqRecall Export window.

exacqRecall Export	
Items to Export	Select Start and End Times
AXIS Server 207MW P3301 - 640x480 207 - VGA West Cubes 212 PTZ 223M - 2MP/VGA W Window: Axis 214 - 4CIF 216FD - VGA East Hallway Video 1 Video 2 Video 3 Video 4 Q1755 - 720P Entrance Camera 4CIF W Side Q7404 - 4CIF Color Bars Q7404 - 4CIF Color Bars Q7404 - 4CIF N Entryway Q7404 - 4CIF N Entryway	Image: Sum Mon Tue Wed Thu Pri Sat Sum Mon Tue Wed Thu Pri Sat 1 2 4 5 7 8 9 10 11 12 13 14 15 16 17 18 9 02 21 22 32 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 32 4 5 3 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 25 26 27 28 29 30 31 25 26 27 28 29 30 31 25 26 27 28 29 30 31 25 26 27 28 29 30 31 25 26 27 28 29 30
	Start Export

This window allows you to select cameras, a start and end date and time, and an export destination. When the export configuration is complete, click Start Export.

NOTE: Export PS Files Only allows you to export files larger than 4GB (up to 137GB).

14. The Activity Status box indicates the status of exacqRecall. This can include Idle, Gathering Video, Creating ISO Image, In Use, and so on. It also contains a Write Progress bar that shows how much of an active exacqRecall export has completed.







Event Linking

Add System Client Setup	Event U	st		Ev	ent Linking				
se Event Monitoring	Log	Event Type	Event Source	Action Type	Action Target	Pre Trigger	Post Trigger	Status	
Group Setup		Video Loss	Main Back Door (analog)	Output Trigger	Device 1 Output 1	0	0	Off	
🖵 exacqVision Engineering Server		Video Motion	Main Back Door (analog)	Output Trigger	eDVR Out1-AC1	0	0	Off	
PCIe Riser Server		Input Trigger	Front Door Main	Notify	Front Door	0	0	Off	
exacqVision AXQS Server	1	Input Trigger	Front Door Main	Record Audio	TV audio	5	5	Off	
exacqVision IQEye Server		Soft Trigger	Switch VOut1	Output Video 1	Color Bars (analog)	0	5	Off	
Big Ten Server		Soft Trigger	Soft Trigger 2	PTZ Preset	Sony RZ25N - cg	0	5	Off	
exacqVision Hybrid Server		Soft Trigger	bc button	PTZ Preset	Sony R225N - Flip	0	5	Off	
System Setup		Video Motion	Exacq Lab B&W (analog)	Record Video	Exacg Lab BbW (analog)	5	5	Off	
Camera Recording S	4	Soft Trigger	Light Switch	Output Trigger	eDVR Out1-AC1	0	0	Off	
Audio Input Setup		Soft Trigger	audio	Record Audio	DVD audio	5	5	off	
Trigger Input Setup		Soft Trigger	Light Switch	Record Video	System Rack (analog)	5	5	Off	
Alarm Output Setup		Soft Trigger	Switch Yout1A	Output Video 1	Color Bars (analog)	0	0	Off	
Exacq eDVR 4000P		Soft Trigger	Switch Vout A Pelco	Output Video 1	Pelco PTZ (analog)	0	0	OFF	
(E) - PN Camera Recording S		Soft Trigger	Switch VOut1	Output Trigger	eDVR Out1-AC1	0	5	Off	
Audio Input Setup		Soft Trigger	PTZ2COM	Output Video 1	Pelco PTZ (analog)	0	5	Off	_
Trigger Input Setup		Video Motion	TV (analog)	Record Video	TV (analog)	16	5	On	_
Alarm Outra & Color		Video	BY (analog)	NECOLO VIDEO	TV (anal	5		Q11	
Device 1		the second se	Deve 302		and the second se	1.0	~	_	
Storage Setup 2		Wdeo 3	Kala ane	4	Acti Meg 5		6	7	
Serial Profile Setup		64076				-			
- Serial Port Setup	Event	Туре	Event Source	A	ction Type Act	ion Target	Pr	e Trigger	Post Trigge
- Notifications		Motion	 Acti Megapixel 			ti Megapixel			5 -
💮 exacqRecal Setup		Loss	Arecont 5100			econt 5100			-
Gip Event Linking		t Trigger Port	Axis 206M IOeve 302			dis 206M levre 302	1	Seconds	Seconds
		Profile	-1 Panasonic NS2		Sutput Video 1 _1 Pa	masonic NS202	-1		
Schedule			Even D726M		145 CA	Www.0726M			

The Event Linking Setup page allows you to connect different types of events, such as the activation of an input trigger, to an action, such as recording video or triggering an alarm. Event linking provides quicker searches for specific event types. For example, you might normally search for motion video captured on a camera pointed toward a door; however, if the door has a sensor, you could improve your search by looking for video recorded whenever the door opened by linking that event with video recording.

You can see how it works by looking at the lists from left to right below the main Event List, as shown in the figure above. When the specified Event Type (2) occurs on an associated Event Source (3), Action Type (4) is triggered on an Action Target (5). These events are then stored in a database (if Log is selected in the Event List) to provide easy search capabilities. To create a new event, complete the following steps:

- 1. Click the New button to add the event to the Event List.
- 2. Select the Event Type.
- 3. Select the Event Source.
- 4. Select the Action Type.
- 5. Select the Action Target.

NOTE: See the charts on the following pages for information about available Event Types, Event Sources, Action Types, and Action Targets.

- 6. Pre Trigger allows you to store buffered data that was captured up to 100 seconds before the event occurred. This feature can be used only with certain Event Types. Very large Pre Trigger can negative impact system performance.
- 7. Post Trigger continues the Action Type for up to 100 seconds of video after the event concludes.
- 8. Click Apply to save all changes to the selected event.
- 9. The Log Settings field determines how long the event will be stored in the Event database, from zero to 365 days.



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The following Event Types are available:

Event Type	Description
Video Motion	Camera detects motion.
Video Loss	Analog video signal is disconnected.
Input Trigger	Discrete input on hybrid server or IP camera with alarm input is activated.
Serial Port	Key word entered on Serial Profile page is detected on a pre-selected port.
Serial Profile	Key word is detected on any Serial Port with that profile.
Button Input (if available)	Button on front of the system activated (typically used with exacqRecall).
Health	Detected problem involving the health of the exacqVision server hardware.
IP Camera Connection	Network can't connect to the IP Camera.
Soft Trigger	Signal sent from the client to the server.
Analytics	Video analytics event detected.

The Event Source list varies depending on the Event Type selected:

Event Type Selected	Event Source	
Video Motion	Any of the cameras connected to the exacqVision server.	
Video Loss	Any analog camera connected to the exacqVision server.	
Input Trigger	Any input trigger on the back of the server or IP camera connected to the server. The system defaults to a device and input number, but these can be customized on the Trigger Input page. See the "Trigger Input Setup" section of this manual for details.	
Serial Port	Any of the serial ports configured on the server. See the "Serial Port Setup" section of this manual for details.	
Serial Profile	Any of the serial profiles you have configured. You can select all key words associated with a serial profile by selecting the profile name, or you can select an individual key word configured in the profile.	
Button Input	Button 1 on the system (if available).	
Health	 Storage Alarm (all non-RAID drives are monitored) Subscription Expiration. Throttle Alarm (server storage overload) 	
IP Camera Connection	Any of the IP cameras connected to the exacqVision server.	
Soft Trigger	Select New to create a new soft trigger with a default name. Double-click to name it, or click Delete to remove it. You can also select any of the pre- configured soft triggers that are listed.	
Analytics	A list of video analytics events (configured through the analytics provider's interface).	







The following Action Types are available:

Action Type	Description
None	No action will be performed. The event will be logged in the Event Database and searchable on the Search page.
Record Video	Video will be recorded.
Record Audio	Audio will be recorded.
Output Trigger	A wired output trigger on the back of the server or IP camera will be activated.
Output Video 1	The analog monitor will switch to a full-screen view of the selected camera.
Notify	An email notification will be sent according to profile created on the Notifications page.
exacqRecall	Data will be saved to a CD/DVR based on an exacqRecall profile. See the "exacqRecall Button Configuration" section of this manual for details.
PTZ Preset	The camera will be pointed in a specific direction. See the "Camera Setup" section of this manual for details.

The Action Target list varies depending on the Action Type selected:

Action Type Selected	Action Target
None	No Action Target available.
Recorded Video	Any of the cameras connected to the exacqVision server.
Recorded Audio	Any of the audio inputs connected to the exacqVision server.
Output Trigger	Any output trigger on the back of the exacqVision server or IP cameras.
Output Video 1	Any of the analog cameras connected to the exacqVision server.
Notify	Any of the profiles that configured on the Notifications page.
exacqRecall	Any of the profiles that configured on the exacqRecall Setup page.
Preset	Any of the presets associated with the camera on the Camera Setup page.



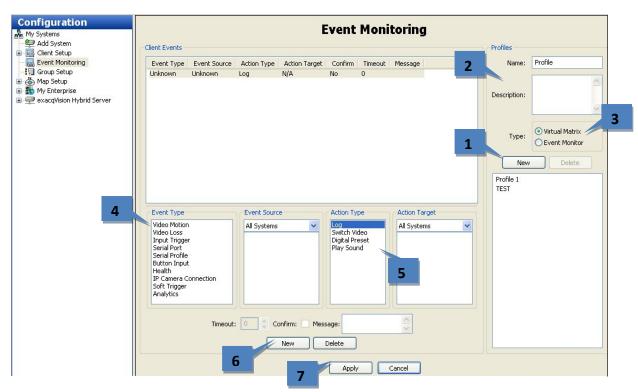




Event Monitoring

NOTE: The Event Monitoring page is not available in exacqVision Start.

The Event Monitoring page allows you to configure your exacqVision Client to react to events that take place on connected servers. First, you must create and define Event Monitoring Profiles, which are a set of actions (such as displaying live video or triggering a sound) that are triggered by events (such as motion or triggered inputs). Each profile can be activated and assigned to a specific video window on the Live page.



- 1. To create a new profile, click the New button in the Profiles section.
- 2. Enter a name and description for the profile.
- 3. Select the type of profile you would like to create:
 - A Virtual Matrix profile automatically displays video as it is triggered. For example, if you have a series of entrances in one profile, each time any of the entrances is triggered, the video panel will switch to the camera displaying the most recent door motion.
 - An Event Monitor profile displays an interactive list of events. Using the same example, the entrance event would be added to a list that you could click on to display the video. This can be useful if events are occurring on two cameras at the same time; instead of seeing each event for a split second, you can view each event for as long as necessary.
- 4. Add an event to monitor. This works in a similar way as the Event Linking discussed in the "Event Linking" section of this manual. Select an Event Type, and Event Source, an Action Type, and an Action Target. The options listed in Event Source vary depending on which Event Type (such as triggers, serial ports, and serial profiles) is selected and how it is configured. For more information, see the sections of Setup Mode Overview chapter that are related to the desired Event Type.



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5. The Action Type list allows you to select an action that will occur when the selected Event Type occurs on the selected Event Source. When you select an Action Type, a list of options is displayed in the Action Targets list. Following are the available Action Type options and their associated Action Target options:

Action Type	What Happens when the Event Type Occurs on the Event Source	Action Target Options
Log	A notification of the event is saved in the system log file.	None
Switch Video	Video from a camera is displayed.	All cameras enabled on all connected systems (or on the system selected from the drop-down list)
Digital Preset	A PTZ preset configured on a camera is displayed.	All PTZ presets configured on all connected systems (or on the system selected from the drop-down list)
Play Sound	A sound is played.	A list of sounds.

- 6. To add another event to this profile, click on the New button at the bottom of the page.
- 7. Click the "Apply" button when you have finished your profile.

You can now view your event profile in Live mode.







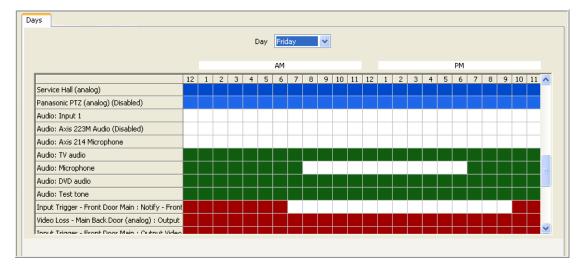
Schedule

The Schedule page allows you to configure your camera and event recording schedule. By default, an exacqVision system is scheduled to record motion and events. There are four modes of video recording, which are color-coded on the Schedule page: motion (blue), free run (green), alarm (red), and off (white).

NOTE: Free run is continual recording. This type of recording uses a large amount of disk space.

There are four scheduling tabs:

• The Days tab lists the cameras, audio inputs, and events on the left, and the hours of the day across the top. Select a day of the week from the Day drop-down list, select a recording mode, and then "draw" the schedule in the grid area. Click Apply to save the schedule, or click Apply to All Days to save the changes for every day of the week.



NOTE: Colors on the schedule for disabled camera and audio inputs are displayed in a lighter shade.

• The Cameras tab lists the days of the week in the left column and the hours of the day across the top. Select a camera from the Camera drop-down list, select a recording mode, and then "draw" the schedule in the grid area. Click Apply to save the schedule, or click Apply to All Cameras to save the changes for all cameras connected to the system.

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					Came	era:	AC	Ti IP	ACM	-131	1						~							
						Æ	M											P	M					
	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
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Wednesday																								
Thursday																								
Friday																								
Saturday																								

NOTE: You do not need to create a schedule in both views. Select the best tab for your situation.

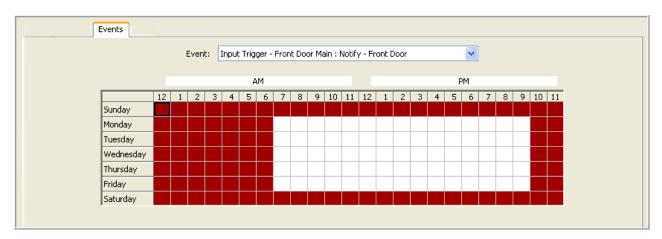


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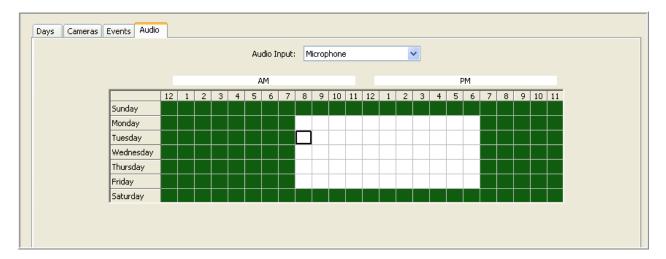


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• The Events tab enables the recording of events configured on the Event Linking page. It lists the days of the week in the left column and the hours of the day across the top. Select an event from the Event drop-down list, select Alarm (red) or Off (white), and then "draw" the schedule in the grid area. Click Apply to save the schedule, or click Apply to All Events to save the changes for all events configured on the system.



• The Audio tab lists the days of the week in the left column and the hours of the day across the top. Select an enabled audio input from the Audio Inputs drop-down list, select Free Run (green) or Off (white), and then "draw" the schedule in the grid area. Click Apply to save the schedule, or click Apply to All Audio In to save the changes for all audio inputs on the system.



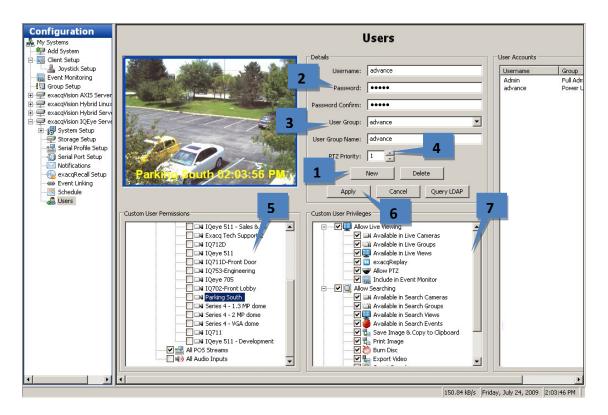






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Users Setup



The Users page allows you to add and delete users, configure a user's group access level, and assign permissions for viewing cameras. After a user has been added to the system, the user can log in and view live and recorded video according to the permissions assigned to them.

- 1. To add a new user, click New.
- 2. Enter the name of the user in the Username field, and a login password Password and Confirm fields.
- 3. Select a permission level from the User Group drop-down list:
 - Full Admin has access all features of the system.
 - Power User has access all features except for adding or deleting users.
 - Live Only can view live video from all connected cameras.
 - Search Only can search for recorded video.
 - Live + Search can view live video and search for recorded video from all connected cameras.
 - The User Group drop-down list also contains all users and custom groups whose permissions and privileges have been modified from one of the standard groups listed above. **NOTE:** Custom groups are not available on exacqVision Start servers.
- 4. You can also assign a PTZ Priority level to the user (not available in exacqVision Start). When two users attempt to control the PTZ functions of the same camera simultaneously, the user with the higher priority level is granted PTZ control (10 is the highest available priority). If a second user attempts to control PTZ functions on a camera that is already being controlled by a user with the same priority, control remains with the first user.
- 5. The Custom User Permissions section allows you to select which devices the user or group can see and operate in the exacqVision Client. You might have to deselect View Admin and User Admin under Custom User Privileges to allow the Custom User Permissions data to be edited.
- 6. When finished, click Apply.



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NOTE: The following feature on the Users page is not available in exacqVision Start.

- 7. The Custom User Privileges section contains the following list of privileges that can be assigned to a user:
 - Allow Live Viewing
 - Available in Live Cameras
 - Available in Live Groups
 - Available in Live Views
 - exacqReplay
 - Allow PTZ
 - Include in Event Monitor
 - Allow Searching
 - Available in Search Cameras
 - Available in Search Groups
 - Available in Search Views
 - Available in Search Events
 - Save Image & Copy to Clipboard
 - Print Image
 - Burn Disc
 - Export Video
 - Smart Search
 - Configuration

•

- User Admin
- View Admin

NOTE: If you change the permissions or privileges for a user or group, enter a name for the new custom group and click Apply.







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My Systems

My Systems								
System Name	IP Address	Connection Status	License	Subscription	Version	Status		
AXIS Server 2003	192.168.100.30 (exacq-axis-2003.demo.test.exacq.com)	Connected.	Enterprise	Updates through 2012-03-01	4.2.3.22224	ALARM		
Hybrid Server	192.168.100.1 (er0936001231)	Connected.	Enterprise	Updates through 2014-07-10	4.2.3.22224	ALARM		
Vision Server	127.0.0.1	Connected.	Evaluation	None	3.7.7.19858	NOT ENTERPRISE		

The My Systems page lists all added systems, along with their serial number, IP address/hostname, connection status, license type, MAC address, subscription information, version information, status (such as, Normal, Alarm, or Motion), and days of recorded video.

NOTE: To display or remove a column on the My Systems page, right-click any column header and select the column from the pop-up menu.

The following actions can be performed on the My Systems page:

- To connect to or disconnect a system, right-click its connection status and select a Connect option or Disconnect from the pop-up menu. To connect to or disconnect multiple consecutive systems simultaneously, click on the connection status for the first system, and then press Shift while you drag the cursor up or down (and then right-click).
- To view the System Information page for a system, double-click the information listed in any column for that system.
- To view model number and serial number information for a system, right-click the system name.
- To view a MAC address and license key for a system and copy it to the clipboard, right-click its information in the License, MAC Address, or Subscription column for that system and select Copy to Clipboard (select the right arrow if necessary to see that option). You can then paste the information into an email or other applications.
- To update a license key for a system, right-click its information in the License column, select Update, and select one of the options. If you select Update the License from File, you can browse to a .KEY file that contains license information and click Open. If you select Update the License from Text, you can type the license key manually and click OK.

NOTE: Alternatively, you can click Import Licenses at the bottom of the page to enter multiple licenses from a .CSV file, or click Export Licenses to compile all listed licenses into a .CSV file to import into another client.

- To view additional version information for a system, right-click the information in the Version column for that system.
- To view additional information about Alarm or Motion status, hover the mouse pointer over the word while it appears in the Status column.

NOTE: If the physical connection between the client computer and server is interrupted while you are connected to the server in exacqVision Client, the Connection Status will be displayed as Network Activity Timeout. The status will then be displayed as Disconnected after a specific amount of time that varies among operating systems.







eDVR 4000 Device

qVision Client					
					exacqVisio
iguration		Devic	e Setup		
iroup Setup					
xacqVision Demo Server	Device Information		Temperature Monitor		
System Setup					
P Q P Cameras	Device Type:	Exacq eDVR 4000P	Temperature Threshhold (Degrees Celsius):	33 🗘	
Exacq eDVR 4000P	Device S/N:	SR0615000945	(vegrees ceaus).		
- Camera Recording Setup					
- Pil Exacq Lab (analog)			Apply	Cancel	
- P4 Main Back Door (analo					
- P ⁴ Sales Hall (analog)					
Main Reception (analo					
- DVD - Indy 500 (analo					
7 ⁴ DVD - Indy 500 (analo 7 ⁴ Break Room (analog)					
7 ³⁴ DVD - Indy S00 (analo 7 ⁴⁴ Break Room (analog) 7 ⁴⁴ System Rack (analog)					
- 74 DVD - Indy 500 (analo - 74 Break Room (analog) - 74 System Rack (analog) - 74 System Rack (analog)					
- P4 DVD - Indy S00 (analo P4 Break Room (analog) P4 System Rack (analog) P4 Pelco P12 (analog) P4 Service Itali (analog)					
→4 DVD - Indy S00 (analo) →4 Break Room (analog) →4 System Rack (analog) →4 Pelco PTZ (analog) →4 Service Hall (analog) →4 Pansonic PTZ (analog)					
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→ Y 000 - Indy 500 (analog) → Y 500 (analog) → Y 500 (analog) → P System Rack (analog) → P System Rack (analog) → P Sencior H2 (analog) → Sencior H2 (analog) → Analo note Setup → Analo note Setup → Analo note Setup → Device 1 Output 1 s s dedde nt. Linking in port Setup in Port Setup					
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PVD - Indy SOQ (analo Perceate Recon (analog) P4 System Rack (analog) P4 System Rack (analog) P4 Perce Hal (analog) P4 Pancer Hal (

The eDVR 4000 Device is the compression board installed in exacqVision hybrid video servers that manages the analog video cameras connected to the systems. If an eDVR 4000 board is installed in the system, the Device Information field displays the eDVR Device Type and Serial Number.

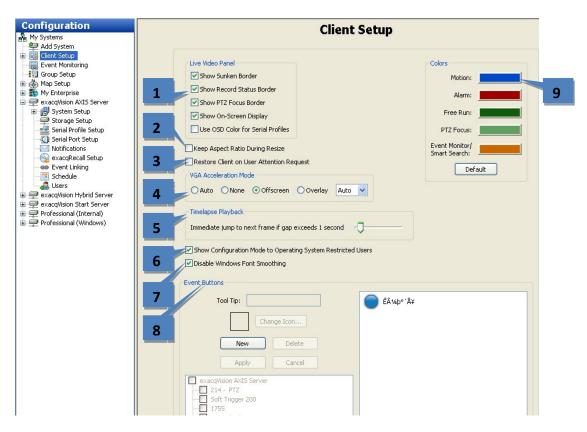
You can also set a temperature threshold that can be linked to an event action using the Event Linking page.







Client Setup



The Client Setup page allows you to customize your client based on your personal preferences.

- 1. The Live Video Panel section allows you to disable the colored borders that indicate motion or alarm recording or PTZ focus in Live mode. You can also disable sunken borders to decrease the separation between video windows (this can be useful if you want to place two separate video streams from a single panoramic camera next to each other and view them a single, nearly seamless video window).
- 2. Keep Aspect Ratio During Resize maintains video aspect ratios when exacqVision Client is made larger or smaller.
- 3. Restore Client on User Attention Request displays a minimized client if an event occurs requiring user attention.
- 4. The VGA Acceleration Mode (Video Graphics Adapter) section resolves display issues caused by the video card.
- 5. The Timelapse Playback section (not available in exacqVision Start) controls the amount of display time between video gaps due to time-lapse recording or discontinuous motion. Normally, the system automatically jumps to the next video frame after a one-second gap. You can decrease the dwell time to zero by sliding the interval control to the left or increase the dwell time up to 15 seconds by sliding it to the right.
- 6. The Show Configuration Mode to Operating System Restricted Users checkbox (not available in exacqVision Start) allows you to hide the Setup button for a client who has a restricted Windows setting. Only the Live and Search icons are displayed to these restricted users if you select this option.
- 7. Select Disable Windows Font Smoothing (not available in exacqVision Start) if fonts are not appearing as desired.
- 8. Event Buttons (not available in exacqVision Start) allows you to create a shortcut to any Soft Triggers you have configured in Event Linking. To create an Event Button, click New. Enter a description in the Tool Tip field and click Change Icon... . Select a default or custom icon and click Open. Select the Soft Trigger from the list provided and then click Apply. The icons will be displayed next to the Soft Trigger icon on the Live mode toolbar. You must select a different icon for each Soft Trigger shortcut.
- 9. The Colors section (not available in exacqVision Start) controls the default border colors for Motion, Alarm, Free Run, PTZ Focus, and Event Monitor. To change a color, click on the colored bar of the border type, select a basic color or create a custom color, and then click OK.



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Joystick Setup

NOTE: The Joystick Setup page is not available in exacqVision Start.

The Joystick Setup page allows you to configure any standard USB joystick to work with your exacqVision system.

Configuration	Joystic	ck Setup
New York System	Preferred Joystick	
E RE Client Setup	- 1000	
Joystick Setup	A Joystick 1	Calibrate 2
Event Monitoring	Update Ava	ilable Joysticks
-RU Group Setup	Joystick Configuration	6
My Enterprise		
⊕ ♀ Ouster!	Position Controls	Zoom Controls
	Sensitivity 49/100	Zoom M Sensitivity 49/100 9
exacqVision Arecont Ser		No Zoom
	wert Y Axis	Rosenium Invert Rudder
⊕ 🖳 exacqVision D1 480 Serv	Instion Control Source	Zoom Control Source 8
⊕ exacqVision Hybrid Serv	● X/Y ARB ● POV 4	C Z Axis C Rudder
	Button 1	Button 2
exacqVision Linux Server	PTZ Zoom In 🔹	😗 PTZ Zoom Out 🔹
Reverse Pelco Serve	Button 3	Button 4
⊕	3 Increase PTZ Zoom Speed	Decrease PTZ Zoom Speed
exacqVision Stardot Sen exacqVision Z Series Ser	Button 5	Button 6
	Increase PTZ Pan/Tilt Speed	Decrease PTZ Pan/Tilt Speed
	Button 7	Button 8
	🚺 Next Video Panel 🔹	Previous Video Panel •
	Button 9	Button 10
	😑 View This Camera Only 🔹	🚯 Toggle Digital PTZ 🔹
	Button 11	Button 12
	🕕 Traverse The Camera Tree 🔹	😗 Goto PTZ Preset Number 1 🔹
	11 Apply	Cancel

- 1. If you have more than one joystick connected to your USB ports, select the preferred joystick and click Apply.
- 2. If the position control is drifting while the joystick is in its resting position, click Calibrate.
- 3. Move the Position Controls Sensitivity slider left to decrease position control sensitivity, or right to increase position control sensitivity.
- 4. To invert the north and south movement of the camera or view, select Invert Y Axis.
- 5. If your joystick has a Point of View source, you can switch your joystick functionality from X/Y Axis to POV in the Position Control Source box.
- 6. The Zoom Controls section allows you to adjust the zoom features on your camera. Twist the joystick to zoom in or out. The zoom status is reflected by the green button.
- 7. If the green zoom box doesn't move when the joystick is twisted, change the Zoom Source Control setting.
- 8. If you want to zoom in by twisting left instead of twisting right, select Invert Rudder.
- 9. Move the Zoom Controls Sensitivity slider left to decrease zoom sensitivity, or right to increase joystick sensitivity.
- 10. Program the joystick buttons as described on the following page.
- 11. Click Apply to save the joystick settings.







You can also program one or more joystick buttons using the drop-down menus as follows:

Button 1 PTZ Zoom In <no action=""></no>	PTZ Zoom In/Out	Zooms the camera in and out. Click the buttons several times until the camera is in the desired position.
Butto PTZ Zoom In PTZ Zoom Out Increase PTZ Zoom Speed	Increase/Decrease PTZ Zoom Speed	Adjusts the zoom speed of the camera.
Butto Decrease PTZ Zoom Speed Increase PTZ Pan/Tilt Speed	Increase/Decrease PTZ Pan/Tilt Speed	Adjusts the pan and tilt speed of a mechanical PTZ camera.
Next Video Panel Butto View This Camera Only	Next/Previous Video Panel	Changes the PTZ focus to the next/previous camera in the video panel.
Traverse The Camera Tree Goto PTZ Preset Number 1 Goto PTZ Preset Number 2 Goto PTZ Preset Number 3 Goto PTZ Preset Number 4	View This Camera Only	Switches a camera in a multi-camera layout panel to a 1x1 layout. Clicking the button again returns it to the original layout.
Butti Goto PTZ Preset Number 5 Goto PTZ Preset Number 6 Goto PTZ Preset Number 7 Goto PTZ Preset Number 7 Goto PTZ Preset Number 9 Goto PTZ Preset Number 10 Goto PTZ Preset Number 11	Toggle Digital PTZ	Switches between digital and mechanical PTZ. NOTE: If the camera does not have mechanical PTZ, this setting toggles between digital PTZ and off.
Goto PTZ Preset Number 12 Goto PTZ Preset Number 13 Goto PTZ Preset Number 13 Goto PTZ Preset Number 14 Goto PTZ Preset Number 15	Traverse The Camera Tree	Moves to the next camera or set of cameras in the site tree, depending on the Layout button selected.
Goto PTZ Preset Number 16	Goto PTZ Preset Number 1-16	Moves the camera to the presets defined on the Camera Setup page.



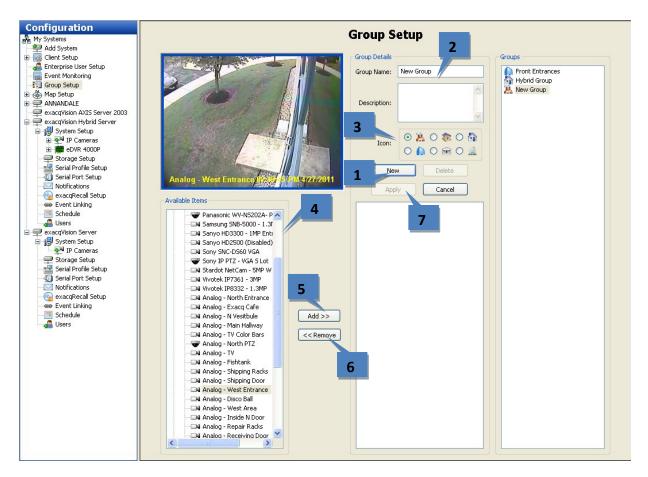




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Group Setup

NOTE: The Group Setup page is not available in exacqVision Start.



The Group Setup page allows you to create logical groups of cameras connected to one or more systems. This is a useful when you have multiple systems with a large number of cameras spread across a large building or campus, and you would like to place cameras in logically named groups such as First Floor, Second Floor instead of viewing your cameras in default groups based on their connection to the systems. You can also search for video from entire camera groups instead of adding each camera individually during the search.

- 1. Create a new group by clicking on the New Group button.
- 2. In the Group Details section, enter a name and description for the group.
- 3. Select an icon to represent the group in the Live and Search site trees.
- 4. Select a camera from the Available Items list. Video from the camera is displayed in the video window.
- Click Add>> to move the camera name to the empty field. Continue adding cameras until your group is complete.
- 6. To remove a camera from the group, select it in the group list and click <<Remove.
- 7. When finished, click Apply.

These groups can now be used to monitor live video or search recorded video.

NOTE: To display specific cameras in specific positions, create a view as described in the "Camera Views" section of this manual.

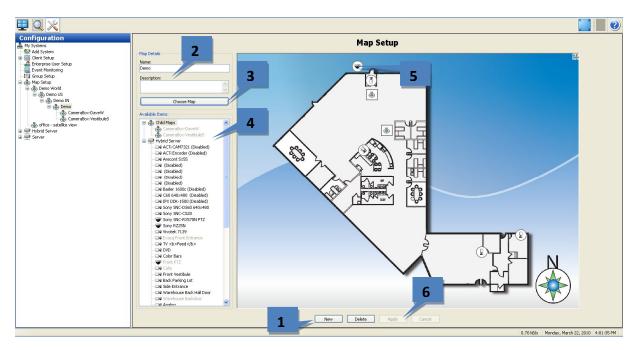


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Map Setup

NOTE: The Map Setup page is not available in exacqVision Start.



The Map Setup page allows you to organize your cameras and other devices visually using a graphics file.

- 1. Click New.
- 2. Enter a Name and Description for the map.
- 3. Click Choose Map to open the Map File window, which allows you to browse for the graphic file that you want to use for the map (it is recommended that you use a compressed graphic file, such as a PNG or JPEG, to improve responsiveness). Select the file and click Open to display the map.

NOTE: To create a child map for an existing map, select the existing map before you click New. This allows you to place an icon representing the child map on the existing (or parent) map. Notice that the child map is listed under the parent map when you click New.

- 4. The systems that you are currently connected to are listed in the Available Items section. Expand the systems to display the devices associated with it. Any child maps that you create for this map are also displayed in Available Items.
- 5. To add an icon representing a device or child map, drag the name of the device or map from the Available Items section onto the new map. When you view the map in Live Maps, double-clicking an icon displays video or data from the device (or opens the child map), and alarm and trigger icons display their current status. To remove an icon from a map, right-click it and select Remove Selected Item. To flip the icon to point the other way, right-click it and select Mirror Icon. To rotate the icon, right-click it, select Icon Rotation, and select any of the available options. To change the appearance of the icon, right-click it, select Icon Balloon, and select any of the available options. Repeat this step until all icons are placed on the map.

NOTE: If the map has a parent map, a small map icon representing the parent map is displayed in the upperright corner. You can drag this parent map icon anywhere on the map.

6. To complete a map, click Apply.



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System Information

onfiguration My Systems Add System Client Setup	System Usage 2
Event Monitoring Terunt Monitoring Terup Setup My Enterprise Min Enterprise Min Enterprise User Setup excav(sion AVS Server 2003 excav(sion Hybrid Server excav(sion Server	User. Level Address Streams Audt webs Power User 192,166,100,26 0 NO guest. Live + Search + exacqReplay 192,166,100,20 0 NO guest. Live + Search + exacqReplay 210,227,113,117 0 NO cvl Power User 173,166,139,50 0 NO StreamPI Stre
3	System Log Yes Search Opslaying 277 records. V2/2/2011 The Plugin Search V2/2/2011 V1 V2/2/2011 Clert 76,108,154,104 disconneted due to ley schange timeout. Clert 192,161,102,102,20

The System Information page displays information about users that are currently logged into the system, plugin file version information number and status, and the system log. This page is displayed when you click on the system name in the Configuration tree.

- 1. System Usage displays the users that are currently logged in, the user's access level and IP address, and the number of streams being viewed.
- 2. Version Information displays the version numbers for each exacqVision system file. This information can be useful when contacting technical support.
- 3. To view the system log, select the start and end date and, select the type of messages you want to see from the Level drop-down list, and click Search. All messages that meet the search criteria are listed.
- 4. To sort the list, any of the column titles.
- 5. To view the system log with a text editor, click Export and save the file. Then you can open the file from the location where you saved it.
- 6. Maximum Days Storage determines the maximum number of days that information is maintained in the system log.

NOTE: If you cannot see all the fields and buttons on the System Log tab, drag the horizontal bar under the System Usage section up.







The System Information page also includes a Login History tab and an Audit Trial tab when you are connected to a compatible system (not available in exacqVision Start).

Start: 1	Displaying 13 records.		4		Q Search	
5/ 2/2011	Time	Address	Username	Туре		
57 272011	5/2/2011 4:57:43	192.168.3.44:63321	admin	Logout		
02:44 PM	5/3/2011 2:58:39	192.168.3.44:53320	admin	Login		
	5/3/2011 3:51:29	192.168.3.44:53320	admin	Logout		
End:	5/3/2011 3:56:43	192.168.3.44:61250	admin	Login		
Liiu.		192.168.3.44:61319	admin	Login		
5/ 4/2011 🔽		192.168.3.44:61319	admin	Logout		
of iteor	5/3/2011 4:18:45		admin	Logout		
03:44 PM	1 5:13:53		admin	Login		
U3:44 PM	2 6:15:54		admin	Logout		
	l 7:11:24		admin	Login		
Search	5/4/2011 8:53:06		admin	Logout		
	5/4/2011 9:05:24		admin	Login		
Export	5 1 2:54:54	192.168.3.222:4763		Logout		

To view the login history for the system, complete the following steps:

- 1. Select a start date and time and end date and time.
- 2. Click Search to list all login and logout actions in that time range.
- 3. To filter the list, enter a word in the Search column. Only actions containing the word are then displayed.
- 4. To resort the list, click any column title.
- 5. Click Export to save the information as a separate log file.

Start: 1	Displaying 56 records.					5 Q Search	6
EL 1/2011	Time	Address	Username	Туре	Sources	Details	1
5/ 1/2011 📉 💌	5/2/2011 8:16:28	192.168.3.44:63321	admin	Client		Client will audit itself.	
00-44 PM	5/2/2011 8:16:28	192.168.3.44:63321	admin	Login			
02:44 PM	5/2/2011 8:39:58	192.168.3.70:49243		Logout		Double dick to view YMI	
End:	5/2/2011 8:54:53	192.168.3.44:63321	admin	Configura	AV3130-Front (Start)	Double-click to view XML.	
Enu:	5/2/2011 12:43:4	192.168.3.44:63321	admin	Live	AV3130-Front (Start)	Subscribe, double-click to view XML.	
5/ 4/2011 🔽	5/2/2011 12:43:5	192.168.3.44:63321	admin	Live	AXIS 215PTZ	Subscribe, double-click to view XML.	
37 472011	12:43:5	192.168.3.44:63321	admin	Live	AV3130-Front (Start)	Unsubscribe, double-click to view XML.	
03:44 PM 😂		192.168.3.44:63321	admin	Live	IQM31N-Barb (Start)	Subscribe, double-click to view XML.	
03:44 PM		192.168.3.44:63321	admin	Live	AXIS 215PTZ	Unsubscribe, double-click to view XML.	
		192.168.3.44:63321	admin	Live	IQM31N-Barb (Start)	Unsubscribe, double-click to view XML.	
Search	5/2/2011 2:04:19		admin	Configura		Double-click to view XML.	
		192.168.3.44:63321	admin	Configura		Double-click to view XML.	
Export		192.168.3.44:63321	admin	Soft Trigg		Double-click to view XML.	
		192.168.3.44:63321	admin	Soft Trigg	Audit Test	Double-click to view XML.	
		192.168.3.44:63321	admin	Audit Trail		5/2/2011 12:04:00 PM - 5/2/2011 2:04:00 PM, double-click to view XML.	
Maximum Days Storage —	5/2/2011 2:05:27		admin	Audit Trail		5/2/2011 12:04:00 PM - 5/3/2011 2:04:00 PM, double-click to view XML.	
		192.168.3.44:63321	admin	Logout			
30 🗘 🔔		192.168.3.44:53320	admin	Client		Client will audit itself.	
		192.168.3.44:53320	admin	Login			
Apply	5/3/2011 3:09:00		admin	Audit Trail		5/3/2011 2:05:00 PM - 5/3/2011 3:05:00 PM, double-click to view XML.	
		192.168.3.44:53320	admin	Logout		et a di bara 16	
Cancel	5/3/2011 3:56:43		admin	Client		Client will audit itself.	
		192.168.3.44:61250	admin	Login		where the second s	
	5/3/2011 3:59:12	192.168.3.44:61319 192.168.3.44:61319	admin admin	Client		Client will audit itself.	

To view an audit trail of various actions that have been performed on the system, complete the following steps:

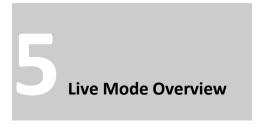
- 1. Select a start date and time and end date and time.
- 2. Click Search to list all login and logout actions in that time range.
- 3. To filter the list, enter a word in the Search column. Only actions containing the word are then displayed.
- 4. To view an action in XML, double-click its entry.
- 5. To resort the list, click any column title.
- 6. Click Export to save the information as a separate log file.
- 7. Select the maximum number of days that the actions should be stored on the system and click Apply.



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Live Mode is the primary page for viewing live video.

- 1. Live Mode Icon. This button runs the Live Mode.
- 2. Layout Panel. Select a video window layout.
- 3. Site Tree. Browse exacqVision systems, cameras, PTZ cameras, alarms, audio inputs, and more.
- 4. Navigation Pane. Select a button to display cameras, views, and more on compatible systems.
- 5. Messages. Read system messages and information about operating the system. (Click to cycle information.)
- 6. **Date and Time**. See the current date and time on the client computer.
- 7. Video Windows. View video in the selected layout.
- 8. About exacqVision Client. View information about the client software.
- 9. Show Help. Open the user manual.
- 10. Hide/Show Navigation Panel. Expand or hide the tree. (Or press the F4 key.)
- 11. Fullscreen Mode. Enlarge the display by hiding the title and task bars. (Or press the F11 key.)
- 12. Launch PTZ Controls. Open the PTZ Control window.
- 13. Soft Triggers. Display the status of any soft triggers on connected exacqVision Pro/Enterprise servers.
- 14. Event Button. View additional soft triggers on Pro/Enterprise servers, as added on the Client Setup page.



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Layout Panel



You change the layout of the video windows by clicking on one of the Layout buttons. When you select a layout, it becomes the new default. The system automatically fills the video windows with the cameras from your Live Site Tree in the order they are listed.

NOTE: The available Layout buttons vary based on the number of cameras connected and the width of the exacqVision Client window.

There are several methods for adding cameras to your Video View Panel.

- Select a Layout button on the Toolbar.
- Double-click a camera name listed in the site tree. The system displays that camera in the upper-left video and fills the rest of the windows in order below that camera in the list.
- Drag and drop a camera from the site tree into a video window. The window can be empty or full when you do this.
- Press F3 or the joystick button to display the Find Camera dialog, type the name of a connected camera, and then click Find. This method allows you to display a camera without using a mouse. When you type a sufficient number of characters to uniquely identify a camera name, the full name of the camera will automatically appear; for this reason, this feature works best when cameras are uniquely named. For example, if camera names start with numerical characters (such as 1-Front Entrance, 2-Back Entrance, and so on), you can quickly find a camera by simply entering one or two numbers in Find Camera.

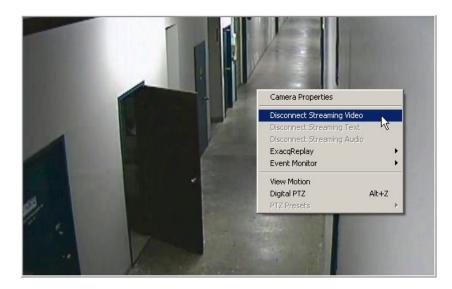
Find Cam	era for Video Panel 1	×
Find:		Find
	📕 Match Case	Cancel



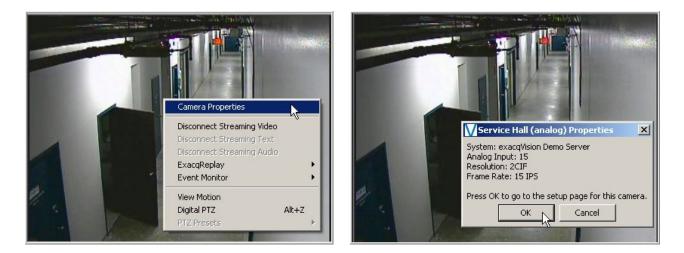
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You can delete a camera from the Video View Panel by right-clicking anywhere in the square and selecting Disconnect Streaming Video.



You can also access the Camera Setup page directly from Live Mode by selecting Camera Properties, and then clicking the OK button.



NOTE: To view the video window panel in the largest area possible, press Alt and Enter simultaneously on the keyboard. This combines the previously mentioned keyboard functions (F4 to hide the navigation tree and F11 to hide the title and task bars) with the F8 function, which hides the message bar, the date/time bar, and the toolbar. To reverse this mode and show all the hidden items, press Alt+Enter again.



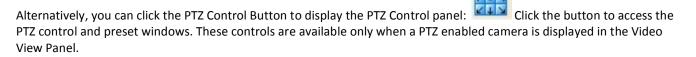




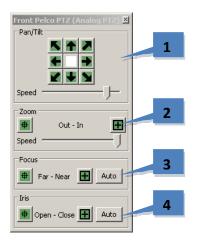
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PTZ Control

To control the pan/tilt/zoom features of a PTZ camera without a joystick, move the mouse cursor over the camera's video window to display a green cross in the center of the window. When you move the cursor, arrows appear that show you which way you can pan and tilt. You can zoom in and out using your mouse wheel.



The PTZ panel and preset panel contain the name of the camera being controlled in the title bar. You can click and drag on the title bar of the PTZ Controls to move them anywhere on your screen.



- 1. To control pan and tilt, click the green arrow buttons. Adjust the pan/tilt Speed slider if necessary.
- 2. To control zoom, click the Out or In button. Adjust the zoom Speed slider if necessary.
- 3. To control focus on a compatible camera, click the Far or Near button. Click Auto for auto-focus.
- 4. To control the iris on a compatible camera, click the Open or Close button. Click Auto for auto-iris.

NOTE: You can also control PTZ using the arrows, Page Up key, and Page Down key on your keyboard. The arrow keys move your camera to the left, right, up, and down. Page Up zooms in, and Page Down zooms out.

Even without a PTZ camera, digital PTZ allows you to zoom in and pan around an image (if digital PTZ has not been disallowed during setup). To enable digital PTZ, right-click the video window and select Digital PTZ. This also can be used to de-warp video captured by cameras with exacqVision-supported fisheye lenses.





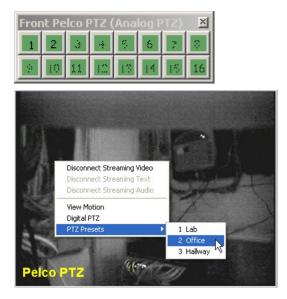






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To view PTZ presets, select a green number buttons in the presets window. (For directions on how to setup a Preset button, the "Camera Setup" section of this manual.) Hover the cursor over the Preset buttons to view the preset name you entered when configuring the PTZ camera. You can also use your mouse to access the PTZ presets by right-clicking anywhere in the PTZ Video Panel, selecting PTZ Presets, and then selecting the name of the preset.









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Event Buttons

NOTE: Event Buttons are not available in exacqVision Start.

Your exacqVision system allows you to activate soft triggers from the client screen to trigger events defined in Event Linking. This can include activating outputs, activating exacqRecall, or recording video.

After you have set up a soft trigger, a Soft Trigger icon appears in the toolbar at the top of the Live Panel screen.

|--|--|--|

Click the icon to access the Soft Trigger window.

Soft Triggers	×
exacqVision Hybrid Server	
Soft Trigger 1	NORMAL
Soft Trigger 2	NORMAL
bc button	NORMAL
Light Switch	NORMAL
🗖 🗖 da test	NORMAL
audio	NORMAL
Swicth Vout1A	NORMAL
Light Switch Light Switch Light Switch Switch Vout1A Switch Vout1 Switch Vout A Pelco	NORMAL
Switch Vout A Pelco	NORMAL
PTZ2COM	NORMAL
exacqVision Engineering Serve Tv Soft Trigger Jim's Trigger to Delete #1	NORMAL NORMAL
PCIe Riser Server	
exacqVision AXIS Server	
Soft Trigger 1	NORMAL
Soft Trigger 2	NORMAL
exacqVision IQEye Server	
Example1	NORMAL
Example2	NORMAL

To activate any of the preset soft triggers, select the corresponding checkbox. Notice that status changes from Normal (green) to Alarm (red), indicating that the soft trigger has been activated. To deactivate the soft trigger and return to a normal status, deselect the checkbox.

Alternatively, you can also create one or more soft trigger shortcuts using the Event Button feature on the Client Setup page in Setup Mode. See the Client Setup section of this manual for detailed instructions.







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exacqReplay

exacqReplay allows you to quickly replay a limited amount of recorded video. You can review the most recently recorded video in increments of 5 or 30 seconds or 1, 5, or 15 minutes. To do this, right-click the camera's video window, select exacqReplay from the pop-up menu, and select the desired time increment.



If video was recorded in the selected time period, the exacqReplay window opens and the video is downloaded.



- 1. The number of downloaded frames and total frames in the video segment are displayed in the status bar.
- 2. The green bar tracks the download progress. You can play and scrub through video that has been downloaded.
- 3. This button allows you to play video in reverse fast (double) speed.
- 4. This button allows you to play video in reverse in normal speed.
- 5. This button allows you to pause video play.
- 6. This button allows you to play video forward in normal speed.
- 7. This button allows you to play video forward in fast (double) speed.
- 8. This button allows you to stop the video download in progress.
- 9. This button allows you to play video backward one frame at a time.
- 10. This button allows you to play video forward one frame at a time.



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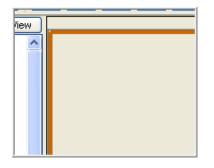
Live Event Monitoring

NOTE: Live Event Monitoring is not available in exacqVision Start.

Event Monitoring allows you to view events that have been detected. To do this, right-click a video window, select Event Monitor, and then select the event profile you want to view.



This displays an orange border around the video window; video is not displayed in the window until an event triggers.



You can stop the Event Monitoring display by right-clicking in the active video panel and disabling the active event monitoring profile. If you configured your profile as an Event Monitoring mode, the Event Monitor box appears below this video window (you can move it and resize it as needed). When a video event takes place, it is automatically listed in the box. Click on an event line to display video from the associated camera.

	Event (Monitor				×
1		Time	Event Type	Event Source	Action	Act 🔨
	12	7/10/2007 2:58:46	Video Mot	Eng Lobby	Video	Eng
	B R	7/10/2007 2:58:46	Video Mot	Eng Back D	Video	Eng
2	- 20	7/10/2007 3:01:44	Video Mot	Eng Back D	Video	Eng
		7/10/2007 3:03:24	Video Mot	Enq Back D	Video	Enq 💙
	<					>

- 1. Click the blue rewind button to replay the event as it was triggered.
- 2. Click the red X to acknowledge the event and remove it from the list.

If you configured your profile in Virtual Matrix Mode, you will not see an Event Monitor box as motion triggers recording. Instead, the video is automatically displayed as motion occurs.



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Camera Groups

NOTE: Camera Groups are not available in exacqVision Start.

exacqVision allows you to organize your cameras into groups that allow you to efficiently view the cameras in the order you choose regardless of how they are listed in the site tree. (See the "Group Setup" section of this manual for details on creating camera groups.)



- 1. To view video from the cameras in the group, click the Groups button in the Navigation Pane.
- 2. Double-click the first camera in the group to quickly display cameras from the entire group.



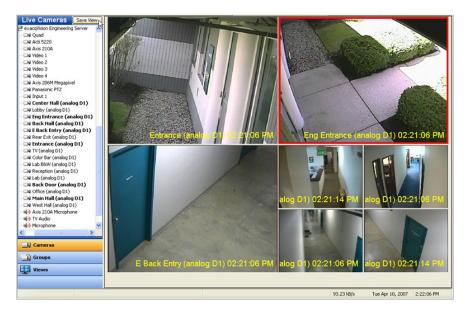




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Camera Views

You can organize your cameras into preset views that you can save and display from the site tree. To do this, select a Layout button in the Live mode and drag the cameras, audio, and POS data into the video windows, then click the Save View button at the top of the site tree.



This opens the EDVR Views window.

EDVR Views - Save View	
Views	
View Name: New View 0	Tour Name:
Description:	3 Description:
New Folder Delete	Dwell Time: 5
ipusergroup back door JAW JAW JAW JAW JAW2 Test Test Test Test tester testas Entrances DPTZ Test SeanTEst34 bctest5 bctest5 bctest5 New View 0	Add >> Add >> << Remove

- 1. Enter a unique name and description for your view in the Views section. The system and camera names will be displayed when you hover over the view name in the site tree.
- 2. Click Apply to save the view to the list.
- 3. You can organize views into folders by clicking New Folder in the Views section. Enter a name and description for the folder. Drag and drop views into the folder as desired.



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To display a view in the live video windows, click the View button in the Navigation Pane.



This displays all configured views in the site tree. Select the view to display video from the cameras saved in the view.





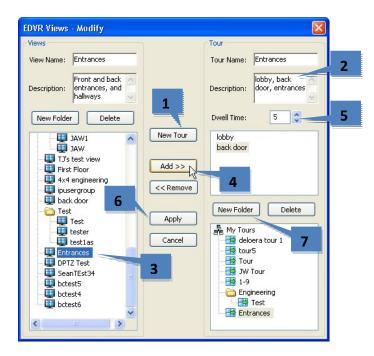




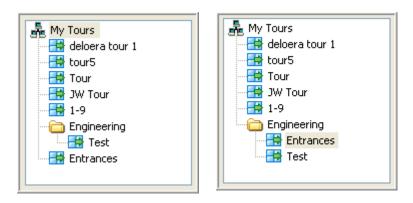
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Camera View Tours

To automatically cycle through two or more views, create a camera view Tour. Click Save View or Modify at the top of the site tree to open the EDVR Views window.



- 1. Click New Tour.
- 2. Enter a unique name and description for the tour in Tour section.
- 3. Select a view from the view list in the left side of the window.
- 4. Click Add>> to add the view to the tour list. Repeat for additional views.
- 5. Select a Dwell Time. This is the amount of time, in seconds, that each view will be displayed.
- 6. Click Apply to save the camera view tour.
- 7. You can also organize your tours in folders by clicking New Folder in the Tour section and then dragging and dropping the appropriate tours in the folder.



You can now activate the tour from the site tree.

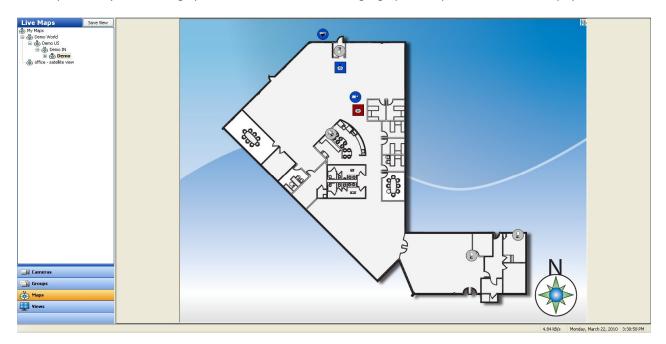






Live Maps

NOTE: Live Maps are not available in exacqVision Start.



Live Maps allows you to manage your cameras and devices using a graphical representation of their physical location.

Live Maps allows you to select from a list of maps that you have imported into exacqVision. When you select Maps from the navigation pane, all the maps that you have entered are listed, organized based on parent and child maps.

To display a map in the video view panel, double-click its name in the list or drag it into a video window. The map can be displayed in 1x1 mode or with video from other cameras. A configuration with multiple windows displays video or data from as many devices associated with the map as possible in the available video windows. Multiple maps can be displayed in the same configuration.

Each map contains icons showing the location of devices. Camera icons change color to represent the current recording status (blue for motion, for example). You can display video or data from the device that it represents by double-clicking the icon or by dragging it to a video window. Trigger and alarm icons indicate the status of associated triggers and alarms.

Each map can contain icons representing parent or child maps (exacqVision Enterprise only). To view a child map, doubleclick the following button:



To view a parent map, double-click the small map button 👪 in the upper-right corner of the map window.

For information on setting up maps, see Map Setup. For information on searching for video on devices in a map, see Searching Maps.

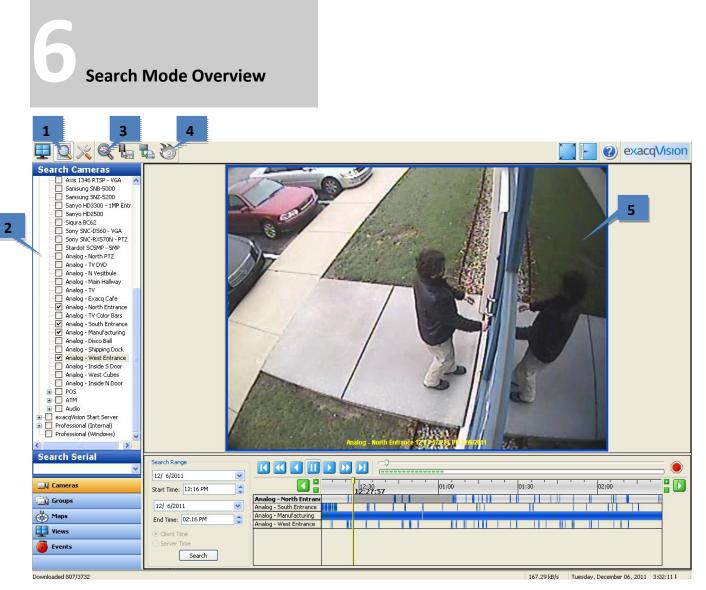
NOTE: Maps can be created on a client computer, but they are associated directly with all exacqVision servers that have cameras and devices associated with the map. Thus, any map that you create can be seen by other users when they are connected to any server that the map is associated with. To see which servers a map is associated with, right-click the map on the Live Maps page and select Properties. All associated servers are listed in the properties window, and you can view the setup page for the map by clicking the OK button that appears.



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The Search page allows you to search for recorded video, events, and other data.

- 1. Search Mode Icon. This button runs the Search mode.
- 2. Camera Selection Tree. Select cameras, audio, or data sources to search.
- 3. Smart Search. Search for video in specific portions of a video window. (Not available in exacqVision Start.)
- 4. **Export Buttons**. Save Picture, Save Video, Print Picture, and Burn Saved Files to CD or DVD.
- 5. Video Playback Window. Video is played back here.

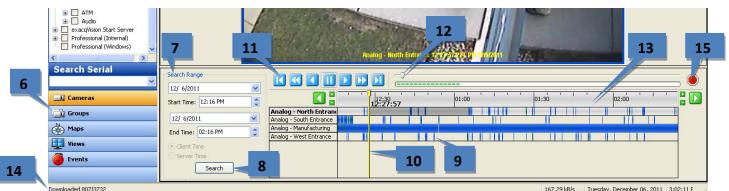
The rest of the Search page is described on the following page.







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167.29 kB/s Tuesday, December 06, 2011 3:02:11 F

- Navigation Pane. Display lists of individual cameras, camera groups, maps, views, or events to search for. 6.
- 7. Search Range. Select a date and time for the start and end of the search period.
- 8. Search Button. Click Search to find video based on the search settings.
- Recorded Video Bar. These color-coded bars represent video that has been recorded. 9.
- 10. Video Cursor. This shows where in the timeline the displayed video was captured.
- 11. Video Playback Controls. Standard playback controls (left from right): step back, reverse 2x, reverse normal speed, pause, play normal speed, play 2x, step forward.
- 12. Scrub Bar. Quickly scrub back and forth through video.
- 13. Video Timeline. To expand or shrink the timeline, click the plus and minus buttons (or scroll your mouse wheel while the mouse cursor is on the timeline). To change the start or end time of the timeline, click the green left or right arrow buttons.
- 14. Download Status. This shows you how many frames have been downloaded and the total number of frames that meet the search criteria.
- 15. Stop Download Button. Click this to stop downloading video. Note that the download status indicator disappears when you press this button.







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Searching for Video and Other Data

To search for video and other data, complete the following steps using the figure on the previous page as a guide:

- In the camera, group, map, or view tree, select one or more sources (cameras, audio inputs, POS, and so on). To search every source on an exacqVision server, check the box next to the server in the Camera Selection Tree (and then deselect any sources individually if desired). You can also select individual sources using the check boxes next to each camera.
- 2. Select the date and time you want to search. Click Search.

NOTE: If the client computer and the server are located in different time zones, you can select between Client Time or Server Time. Search result listings are applicable to the selected time zone, and the time offset between the time zones is shown in parentheses. The Client Time and Server Time options are visible if you are connected to a server in another time zone.

3. When your search is complete, the camera names selected appear under the timeline with color-coded recording bars representing recorded data. A color legend for the recorded video bars is located below the Search Range area; if you cannot see it, click the horizontal bar between the video window and the search results and drag it up.

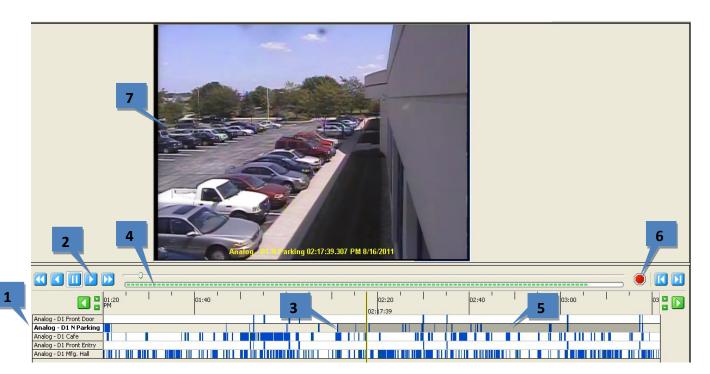






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Video Playback



To play back video, complete a search as described in the previous section and complete the following steps:

- 3. Select a camera for video playback by clicking on a camera name in the search results area. To select multiple cameras for playback, press and hold the Control key and then click each of the camera names. To select a range of consecutive cameras, press and hold the Shift key, click the first camera name in the range, and then click the final camera name in the range.
- 4. Click the play button to start displaying video at the beginning of the timeline.
- 5. To play video starting at another point on the timeline, double-click a recorded video bar in the appropriate location under the timeline. Or, you can click once on the recorded video bar and then click the Play button.
- 6. The green progress bar shows how much of the total video has been downloaded. The number of frames downloaded and the total number of frames are also displayed in the status bar.
- 7. The background behind the recorded video bars turn gray to show how much of each camera's video has been downloaded.
- 8. To stop video download, click the Stop button. All video downloaded before you pressed the Stop button can still be viewed.
- 9. To digitally zoom in on a single camera, double-click its video playback window. To return to the multi-camera view, double-click the remaining video playback window.

After the download has started, you can scrub back and forth through the video using the scrub bar and video playback controls. You can view only the portion of the video that has downloaded. You can quickly scan the video by dragging the slider to the left or right or by pressing Enter or Backspace on the keyboard. (Enter and Backspace play every frame of video as quickly as the system hardware allows, unlike the normal Play and Reverse buttons, which play video at actual speed even if frames must be skipped to do so.)



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When you play back video associated with POS data, any associated video is displayed in sync with the POS overlay data, as shown in the following figure. Notice the data displayed on the right for the transaction that was just completed in the video window. Unprintable characters are automatically deleted from the serial data display.



In some cases, wind or some other invisible motion sets off the camera. On an analog camera, you can highlight the motion that triggered the recording to identify the cause by right-clicking anywhere in the playback window and select View Motion. Blue motion boxes mark the area where the motion occurred. When you want to remove the motion boxes, right-click in the Video Playback window again and select View Motion to remove the checkmark. **NOTE:** This feature is not available on most IP cameras.







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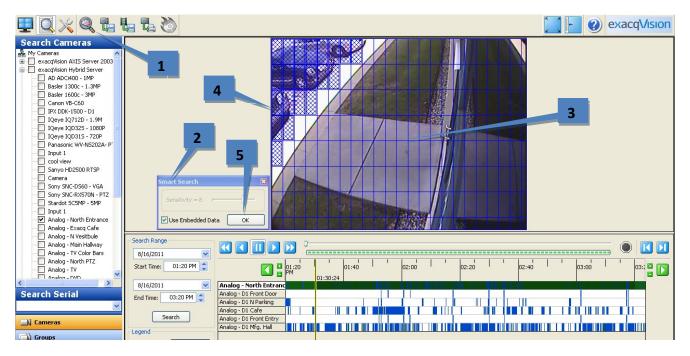


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Smart Search

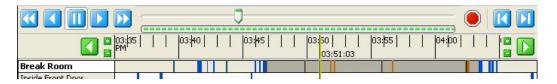
NOTE: Smart Search is not available in exacqVision Start.

Smart Search allows you to search for occurrences of motion in specific areas of a video window in 1x1 layout mode. To activate Smart Search, complete a search as described in the previous section and then complete the following steps:



- 1. Click the Smart Search button.
- 2. The Smart Search box opens.
- 3. A grid is displayed over the video window.
- 4. Use the mouse cursor to select grid boxes in the region of interest where you want to view all instances of motion. The selected boxes are filled in with blue; to deselect a box, click it again. To select multiple adjacent boxes, click and drag the cursor.
- 5. Click OK in the Smart Search box. The system searches for all video from the original search that contains motion in the region of interest.

When the Smart Search is complete, the number of frames containing motion in the region of interest is displayed. Click OK to view the frames. Smart Search frames appear in orange in the video results bar:



When orange bars appear in the video results bar, only the Smart Search frames that they represent are played back in the video playback window; any non-Smart Search frames in that time range are skipped.







Searching Maps

NOTE: Search Maps is not available in exacqVision Start.

You can also search for video from cameras associated with a map. (See the "Map Setup" section of this manual for information about importing and configuring maps.)



Select Maps from the Navigation Pane, and then select the map you want to search by clicking the appropriate checkbox. This selects all cameras associated with the map or its child maps. You can deselect any of the cameras to eliminate them from the search. Alternatively, you can expand a map without selecting its checkbox, and then select individual cameras to include in the search. You can include cameras from multiple maps in a single search.

Select the date and time you would like to search by using the Calendar and Start Time fields, and then click the Search button. Video from all the selected cameras and maps will be displayed in the Video Playback window.





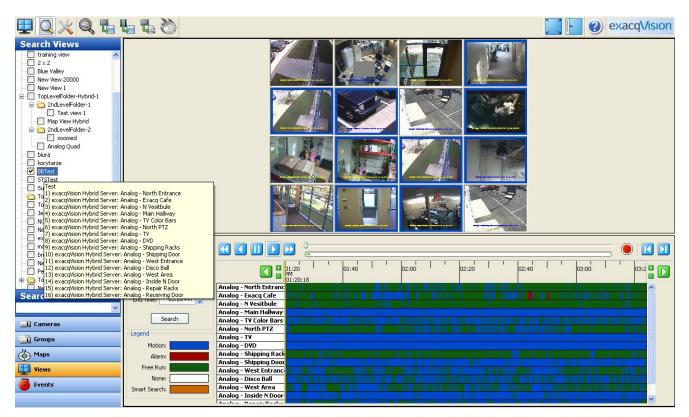


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Searching Views

NOTE: Search Views is not available in exacqVision Start.

You can also search for video recorded on all cameras in a specific view.



Select Views from the Navigation Pane, and then select the View you want to search by clicking the appropriate checkbox. Select the date and time you would like to search by using the calendar and Start Time field, and then click the Search button. All of the cameras in the View are then displayed in the Video Playback window.





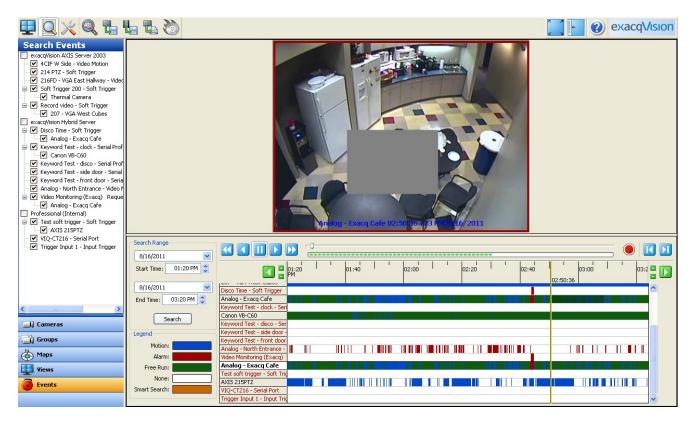


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Searching Events

NOTE: Search Events is not available in exacqVision Start.

If you want to narrow your search to a specific event previously configured in Event Linking instead of all recorded video, select Events from the Navigation Pane. You can search for the event to locate associated video or audio. To do this, click the Events button on the Navigation pane and the Event you want to search. Then Select the desired date and time and click the Search button.



The red bars indicate instances when the event triggered video or audio recording. To search for the video associated with this particular event, click the Cameras button in the Navigation Pane, and then conduct a search on the camera associated with that event.







Search Serial

The Search Serial drop-down list contains any key words associated with a profile configured on the Serial Profile Setup page. If the key word is linked to an event on the Event Linking page, you can search for the event using Search Serial.

Following is an example of how Search Serial could be used:

- 1. Suppose you have a cash register connected to an exacqVision server, and you want to be able to search for video of all tobacco purchases at that register.
- 2. Use the Serial Profile Setup page to create a profile called Register 1. Also, add and enable a Key Word "tobacco."
- 3. On the Event Linking page, create an Event with a type of Serial Profile or Serial Port. Select "Register 1 tobacco" as the source, Record Video as the action, and the camera pointed at Register 1 as the target.
- 4. On the Serial Port Setup page, add the register as a POS device using the Register 1 profile.
- 5. On the Search page, select the POS device from the tree and the associated camera.
- 6. Select "tobacco" from the Search Serial drop-down list.

Search Serial		
		*
tobacco	N	
BAGELS	5	
CUCUMBER	-	
milk		
0263		
disco		
clock		
side door		
front door		
Voed		
ruleId=		
KAMERRA		

- 7. Select the desired time range.
- 8. Click Search. All instances of "tobacco" that occurred in the POS data on the register during the time range are shown on the timeline in red. The associated video is shown in blue.
- 9. You can now play back the video and associated POS data side-by-side.

NOTE: If you do not see the Search Serial drop-down list, make sure that you haven't selected the Events button from the Navigation Pane.







Exporting Files

After you have downloaded a video segment, you can use the Export buttons to save a picture or video, print a picture, or burn saved files to a CD or DVD (including DVD+R and DVD+RW). Left to right, the icons are Save Picture, Save Video, Print Picture, and Burn Saved Files to CD or DVD:



NOTE: You can also copy a picture to a clip board and paste it into a document. When you find the image you need, rightclick anywhere in the Video Playback window and select Copy Image to Clipboard. The image will be stored, and you can paste it into another document.

To export video from up to 16 cameras (or a single camera on exacqVision Start), complete the following steps:

- 1. Locate the start of the video clip. The video must be downloaded (its background on the timeline must be gray) before it can be exported. Right-click the timeline (or right-click the video window) and select Mark Export Start from the pop-up menu. A green line on the timeline indicates the Export Start location.
- 2. Locate the end of the video clip. Right-click the timeline (or right-click the video window) and select Mark Export Stop from the pop-up menu. See the illustrations below for examples. A red line on the timeline indicates the Export Stop location.
- 3. Right-click the timeline or video window and select Export Video from the pop-up menu.
- 4. In the Export Video window, select a file name and location.
- 5. Select a file type (as described below).
- 6. Click Save.



The export file defaults to a standalone *.exe file, which plays on its own and can be run by a Windows user who does not have access to an exacqVision Client. Alternatively, you can save the clip as a *.ps, *.avi, or *.mov file if you are emailing it to another exacqVision Client user; this will reduce the size of the clip. If you are running the client on a Linux or Mac operating system, you should save the clip as a *.ps file unless you are emailing it to a Windows user.

File name:	frontdoor0904	4	Save
Save as type:	Standalone Exe (*.exe) Standalone Exe (*.exe)	•	Cancel
	PS files (*.ps) AVI Files (*.avi) QuickTime files (*.mov)	5	

NOTE: See the chart on the following page for information about file compatibility on each operating system. Also, an *.exe file can be created using any operating system even though it can be viewed using only Windows.







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Quicktime and AVI File Export Players

		Windows Players		Linux Pl	ayers	Mac Players
Video format	WMP*	Quicktime Player	VLC	MPlayer	VLC	Quicktime Player
AVI MJPEG	2	₽ with DivX decoder	2	2	?	with DivX decoder
AVI MPEG4	₽ with DivX	₪ with DivX decoder	2	2	2	기 with DivX decoder
AVI MPEG4 with ASP	with DivX	₽ with DivX decoder	2	2	2	₪ with DivX decoder
AVI H.264	with DivX	₽ with DivX decoder	2	2	?	기 2 with DivX decoder
Quicktime MJPEG		2	?	2	2	ß
Quicktime MPEG4		2	2	2	2	2
Quicktime MPEG4 with ASP		₽ with 3ivx MPEG4 decoder	2	2	2	2 with 3ivx MPEG4 decoder
Quicktime H.264		2	?	2	?	2

*WMP = Windows Media Player

Download players at the following URLs:

- Windows Media Player
 http://www.microsoft.com/windows/windowsmedia/default.mspx
- Quicktime Player
 http://www.apple.com/quicktime/download/
- VLC Player
 http://www.videolan.org/vlc
- MPlayer http://www.mplayerhq.hu/design7/dload.html

Download codecs at the following URLs:

- Sivx MPEG4 decoder
 http://store.3ivx.com/3ivxStore/?features=dec&platform=win&license=plus&Go=Go
- DivX decoder
 http://www.divx.com/en/downloads
- Quicktime codec resources
 http://www.apple.com/quicktime/resources/components.html?os=Windows&ctype=696d6463&csubtype=48323634
- Perian Codec for Quicktime http://www.perian.org







To save data to a CD or DVD, insert a writable CD or DVD and click the "Save to a CD or DVD" button at the top of the toolbar to display the Burn Disc window.



NOTE: If you do not have a CD burner, the Save to a CD or DVD button will not be enabled. If you are running the client on a Mac, you can drag and drop the files into your Burn Folder to create links to these files and click Burn.

) Exacq		dit Disc Name	SSTcorp CD/DVDW TS-H5	552L
Disc Contents	Size	Date Modified	Path	
Entrance May1	1.61 MB	6/1/2007 10:26:36 AM	C:\Documents and Setting	gs\HP_Adminis
✓ Lobby (analog	743.90 KB	2/17/2007 03:25:27	C:\Documents and Setting	gs\HP_Adminis
Status_exacqVi	0.30 KB	2/17/2007 03:50:52	C:\Documents and Setting	gs\HP_Adminis
✓ Status_exacqVi	0.30 KB	2/17/2007 03:50:52	C:\Documents and Setting	s\HP_Adminis
✓ TV (analog).ex	1.05 MB	2/17/2007 03:39:23	C:\Documents and Setting	gs\HP_Adminis
✔ TV (analog)1.e	21.28 MB	2/17/2007 03:43:04	C:\Documents and Setting	gs\HP_Adminis
✓ TV (analog)2.ps	14.99 MB	2/17/2007 03:49:34	C:\Documents and Setting	gs\HP_Adminis
✔ TV (analog)3.exe	9.39 MB	2/17/2007 03:50:54	C:\Documents and Setting	gs\HP_Adminis
Open File	Delete File			Change Directory
Disc Info			1	
ASC THEO				

- 1. You can change the name of the disc by clicking the Edit Disc Name button.
- 2. The Disc Contents list displays all of the video clips in your directory. Select the clips you want to burn.
- 3. To review a video clip, select the file and click Open File.
- 4. The Disc Info box displays important information about your disc capacity. The first number listed (MB) is the amount of space required to burn all of the video clips you have selected. The next number represents the capacity of the disc you have inserted; if you forget to insert a disc, this number is zero. If you insert or replace a disc, click Refresh Disc to update the numbers.
- 5. Click Burn Disc to open the Disc Burning Progress window. Review the Burn Options before proceeding.
- 6. Click the Burn button to start the writing process.

Burn Options	<u></u>			
Eject disc wh	en done: nal files after succes	cful burn		
it incomove origi		on ar b'arm		
Burn Progress				
Press the burn bu	tton to start the disc	: burning pi	ocess.	
Time Elapsed (hh:	mm:ss): 00:00:00			
Time Elapsed (hh:	mm:ss): 00:00:00			









NOTE: Enterprise Management features are available only if you are connected to a system with a valid Enterprise license.

Enterprise Cameras

The Enterprise Cameras page under My Enterprise in the Configuration site tree allows you to see expanded information about all cameras connected to enterprise exacqVision systems listed under My Systems.

item					En	terprise Came	ras						Q Searc
etup Ionitoring etup		System Name	Camera Name	IP Address	Connection 9	Record Status	MAC Addre	Туре	Model	Firmware	IPS	Resolution	Format
up	1	exacqVision Hybrid Server	Arecont 1355 - 1.3M Hall	192.168.101.111	Connected	Continuous Recording	00-1A-07-04	Arecont Vision	1355	65129	7 fps	1280×1024 (1.3M)	H.264
prise	2	exacqVision Hybrid Server	Axis M1011 - VGACube C	192.168.101.24	Connected	Motion Recording	00-40-8C-A2	AXIS VAPIX	M1011	5.20.1	30 fps	640x480	H.264
rprise Cameras	3	exacqVision Hybrid Server	Canon VB-C60	192.168.103.0	Connected	Scheduled Off	00-00-85-D4	Canon	¥B-C60	1.1.0.3687	15 fps	640x480	MPEG4
rprise User Setup	4	exacqVision Hybrid Server	IPX DDK-1500 - D1 W Ha	192.168.102.60	Connected	Continuous Recording	00-0C-0C-01	IPX	DDK-1500	1.43	15 fps	720×480	MPEG4
on AXIS Server 2003	5	exacqVision Hybrid Server	IQeye712D - 1.9M	192.168.101.196	Connected	Continuous Recording	00-50-1A-02	IQeye	IQeye712D	Version V3.0/9(101130)	8 fps	1600×1200 (1.9M)	JPEG
ion Hybrid Server	6	exacqVision Hybrid Server	Bosch Dinon - D1 W Cub	192.168.102.65	Not connected	Scheduled Off		ONVIF			•	-3	
on Server	7	exacqVision Hybrid Server	Panasonic WV-NS202A-	192.168.101.226	Connected	Motion Recording (in motion)	00-80-45-53	Panasonic	WV-NS202A	2.70P7	5 fps	640x480	JPEG
	8	exacqVision Hybrid Server	Samsung SNB-5000 - 1.3	192.168.102.66	Not connected	Continuous Recording		Samsung Techwir			-	-	-
	9	exacqVision Hybrid Server	Sanyo HD3300 - 1MP Ent	192.168.103.60	Connected	Motion Recording	08-00-7B-88	Sanyo	VDC-HD3300	CM 2.03-02 C5 1.01-00	30 fps	1280×960	H.264
	10	exacqVision Hybrid Server	Sanyo HD2500	192.168.103.61:8080	Not connected	Continuous Recording		Sanyo			-	-	-
	11	exacqVision Hybrid Server	Sony SNC-DS60 VGA	192.168.102.165	Connected	Motion Recording	00-1D-BA-31	Sony	SNC-D560	1.10	10 fps	VGA	MPEG4
	12	exacqVision Hybrid Server	Sony IP PTZ - VGA S Lot	192.168.102.166	Connected	Motion Recording	00-1D-BA-0F	Sony	SNC-RX570N	3.14	30 fps	VGA	MPEG4
	13	exacqVision Hybrid Server	Stardot NetCam - SMP W	192.168.103.76	Connected	Motion Recording	00-30-F4-D0	StarDot	NetCamSC 5MF	1.1.65	11 fps	UHR-3.9(2560×1600)	JPEG
	14	exacqVision Hybrid Server	Vivotek IP7361 - 3MP	192.168.102.222	Connected	Motion Recording	00-02-D1-0E	Vivotek	IP7361	IP7361-W/TK-0200b	30 fps	1600×1200	MPEG4
	15	exacqVision Hybrid Server	Vivotek IP8332 - 1.3MP	192.168.102.220	Connected	Motion Recording	00-02-D1-0E	Vivotek.	IP8332	IP8332-VVTK-0101a	30 fps	1280×800	H.264
	16	exacqVision Hybrid Server	Analog - North Entrance	-	Connected	Motion Recording	-	Analog	eDVR 4000P	1.6.1.23070	15 IP5	2CIF	MPEG4
	17	exacqVision Hybrid Server	Analog - Exacq Cafe	-	Connected	Motion Recording	-	Analog	eDVR 4000P	1.6.1.23070	15 IPS	2CIF	MPEG4
	18	exacqVision Hybrid Server	Analog - N Vesitbule	-	Connected	Motion Recording		Analog	eDVR 4000P	1.6.1.23070	15 IPS	2CIF	MPEG4
	19	exacqVision Hybrid Server	Analog - Main Hallway	-	Connected	Motion Recording		Analog	eDVR 4000P	1.6.1.23070	15 IPS	2CIF	MPEG4
	20	exacqVision Hybrid Server	Analog - TV Color Bars	-	Connected	Motion Recording	-	Analog	eDVR 4000P	1.6.1.23070	15 IPS	2CIF	MPEG4
	21	exacqVision Hybrid Server	Analog - North PTZ	-	Connected	Motion Recording (in motion)		Analog	eDVR 4000P	1.6.1.23070	15 IPS	2CIF	MPEG4
	22	exacqVision Hybrid Server	Analog - TV	-	Connected	Motion Recording (in motion)	-	Analog	eDVR 4000P	1.6.1.23070	15 IPS	2CIF	MPEG4
	23	exacqVision Hybrid Server	Analog - Fishtank	-	Connected	Motion Recording (in motion)	-	Analog	eDVR 4000P	1.6.1.23070	15 IPS	2CIF	MPEG4
	24	exacqVision Hybrid Server	Analog - Shipping Racks		Connected	Motion Recording	-	Analog	eDVR 4000P	1.6.1.23070	15 IPS	2CIF	MPEG4
	25	exacqVision Hybrid Server	Analog - Shipping Door		Connected	Motion Recording	÷	Analog	eDVR 4000P	1.6.1.23070	15 IPS	2CIF	MPEG4
	26	exacqVision Hybrid Server	Analog - West Entrance	-	Connected	Motion Recording (in motion)	-	Analog	eDVR 4000P	1.6.1.23070	15 IPS	2CIF	MPEG4
	27	exacqVision Hybrid Server	Analog - Disco Ball		Connected	Motion Recording		Analog	eDVR 4000P	1.6.1.23070	15 IPS	2CIF	MPEG4
	28	exacqVision Hybrid Server	Analog - West Area		Connected	Motion Recording (in motion)		Analog	eDVR 4000P	1.6.1.23070	15 IPS	2CIF	MPEG4
	29	exacqVision Hybrid Server	Analog - Inside N Door		Connected	Motion Recording		Analog	eDVR 4000P	1.6.1.23070	15 IP5	2CIF	MPEG4
	30	exacqVision Hybrid Server	Analog - Repair Racks	-	Connected	Motion Recording	-	Analog	eDVR 4000P	1.6.1.23070	15 IPS	2CIF	MPEG4

In addition to viewing camera information, this page allows you to do the following:

- Double-click any column in a camera's listing to view its Camera Setup page.
- Right-click in the Record Status column to activate exacqReplay on the selected camera. See the "exacqReplay" section of this manual for more information.
- Sort any column by clicking on the column title.







Enterprise Notifications

Enterprise Notifications work the same as standard Notifications, except that notification profiles and email servers can be configured on multiple systems simultaneously. See the "Notifications" section of this manual for information about configuring message profiles and email servers. When you are finished configuring the profiles and servers, select a profile to display the list of exacqVision Systems that it can be applied to. To associate a profile with one or more systems, select each system's checkbox in the Select column on the E-mail Message Profiles tab.

Configuration	E-mail f	Message	Profiles	E-mail Servers			Enterprise	Notificatio	ns	1					
Event Monitoring	E-mail Message Profile Configuration														
	Des	cription	*						60005						
🗄 🍈 Map Setup			essage Pr	rofile			Profik	Profile Description: Test W Profile							
🖃 🌇 My Enterprise	Te	est W Pr	ofile				Sepd.	Rate Limit: 0	~	second	c.				
- H Enterprise Cameras									Y	Jocome					
Enterprise Notifications A Enterprise User Setup							From:	support@exacq.com							
exacqVision AXIS Server 2003							Ito	drittman@exacq.	com						
E 🐺 System Setup							to	 Oncontraction 							
Storage Setup								628							
Serial Profile Setup															
- 🛺 Serial Port Setup															
- Motifications							1								
- 🚱 exacqRecall Setup							Subje	ct: Store 123 issue							
ee Event Linking							Messi	age: test issue from 12	2						
Schedule													<u></u>		
Users exacqVision Hybrid Server															
													×		
Professional (Internal)													Apply to Systems Grid		
	N	lew				De	lete						Apply to systems and		
	evac	qVision S	v Svetome -												
		Select Al	I System:	5											
		Select	Delete	System Name	Description	Rate	From	То	cc	BCC	Subject	Message	Status		
				ER1106006284		0							DISCONNECTED		
				exacqVision AXIS Server 2003	Test W Profile	0	support@exacq.com	support@exacq.com			Store 123 issue	test issue from 123	DELETED		
		I		exacqVision Hybrid Server	Test W Profile	0	support@exacq.com	support@exacq.com			Store 123 issue	test issue from 123			
				exacqVision Server		0							DISCONNECTED		
				exacqVision Stardot Server		0							DISCONNECTED		
				exacqVision Start 2 Server	1	0							DISCONNECTED		
				exacqVision Start Server		0							NOT ENTERPRISE		
				Professional (Internal)		0							NOT ENTERPRISE		
													Apply Cancel		

Repeat the same process on the E-mail Servers tab to associate an email server with one or more systems.

ress 🔺		E-mail Servers			Enterpris	e Notifica	tions			
		1 42 1 / 22 / Second	30		E-mail	Server Configuration				
	_	Usernam				erver Description: S	ample Empil Conver			
mtp.gmail.	com	exacqsam	ple							
					Out	going Mail Server (SM	TP)			
						Address: smtp.gmail	.com			Port: 465
					Aut	hentication				
						Lisername: exacosa	mple			
						Password:				
						Carling anna				
						Conrinn:				
				15						Apply to Systems Grid
Vew				De	lete					Abbia co pascenis end
aVision Sv	stems									
Select All 9	Systems	Show Passwords in Clearb	evt							
				The second	(1				
Select I	Delete	System Name	Address	Port	Username	Password	Confirm	Description	SSL/TLS	Status
	_									DISCONNECTED
~			smtp.gmail.com			****	**	Sample Email Server	Supported	
										DISCONNECTED
										DISCONNECTED
						1				DISCONNECTED
										NOT ENTERPRISE
		Professional (Internal)		0						NOT ENTERPRISE
	Vew cqVision Sy Select All S	Vew CqVision Systems - Select Al Systems Select Delete 2 2 2 2 2 2	Vew cqVision Systems Select All Systems Select Delete ER 1106006204 ER 106006204 Cmarcel Content AVIS Server 2003	Select All Systems Show Passwords in Cleartext Select All Systems Show Passwords in Cleartext Select Delete System Name Address ER 1106006284 exacqVision AV35 Server 2003 smtp.gmail.com a exacqVision AV35 Server 2003 smtp.gmail.com a exacqVision Stardot Server exacqVision Stardot Server exacqVision Stardot Server exacqVision Stard Server exacqVision Stard Server	Vew De cyVision Systems Select Al System Some Passwords in Cleartext Select Al System Some Management Select Al System Andress Port ER1106006204 C C C C C C C C C C C C C C C C C C C	vew Delete Out cvvision 5ystems Show Passwords in Cleartext Select All Systems Show Passwords in Cleartext Select Delete System Value exacqVision AttS Server 2003 sntp.gmail.com 465 exacqVision Stardot Server exacqVision Stardot Server 0 exacqVision Stardot Server 0	Vew Delete Vew Delete Select All Systems Show Passwords in Cleartext Select Nations Show Passwords in Cleartext 0 Select Nations Show Passwords in Cleartext Select Nations Show Passwords in Cleartext Select Nations Show Passwords in Cleartext Select Nations Show Passwords in Cleartext Select Nations Show Passwords in Cleartext Sever Sever Sever Sev	Very Delete Very Delete Select Delete Select Show Passwords in Cleartext Select Delete Password exacquision Systems Select Delete Password exacquision Systems Select Delete Password exacquision Systems Select Show Passwords in Cleartext Select Select Select <td>Were Delete Outgoing Mail Server (SMTP) Address: Image: Confirm: Image: Confirm:</td> <td>were securition Systems outgoing Mal Server (SMTP)</td>	Were Delete Outgoing Mail Server (SMTP) Address: Image: Confirm: Image: Confirm:	were securition Systems outgoing Mal Server (SMTP)







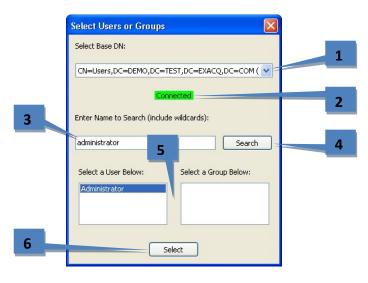
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Enterprise User Setup

The Enterprise User Setup page under My Enterprise allows you to create user accounts for multiple systems simultaneously.

Creating New Users Using LDAP Integration

To create a new user using LDAP integration, click Query LDAP on the Enterprise User Setup page to open the Select Users or Groups window.



- 1. If the enterprise servers span multiple domains, select the domain of the user or group that you want to add from the Select Base DN drop-down list.
- 2. If the status indicator does not show that the server is connected, contact the network administrator.
- 3. Enter the user's or group's network name. This is normally the username used to log in to network computers.
- 4. Click Search to display matching users or groups.
- 5. Click on the correct user.
- 6. Click Select. The main Enterprise User Page then lists servers with active LDAP integration.

Select	Delete	Server	Password	Confirm	User Group	Status
		Dans Trunk Server				DISCONNECTED
		exacqVision ACTi Server				DISCONNECTED
		exacqVision Arecont Serv				DISCONNECTED
		exacqVision AXIS Server				DISCONNECTED
		exacqVision D1 480 Serve				LOAP DISCONNECTED
		exacqVision Hybrid Serve				LOAP DISCONNECTED
~		exacqVision IQEye Server	-		Live + Search	PENDING ADD
		exacqVision Linux Server				DISCONNECTED
		exacqVision Panasonic Se				DISCONNECTED
		exacqVision Pelco Server				DISCONNECTED
		exacqVision Sony Server				DISCONNECTED
		exacqVision Stardot Serv				LDAP DISCONNECTED
		exacqVision 2 Series Ser				LOAP DISCONNECTED

7. In the Select column, activate the checkboxes for servers that the user or group should have access to.

Click Apply to save changes. On the Add System page, select Use Single Sign-on so that the exacqVision Client will pass the client computer's login credentials to the server for validation when it starts. Failing to select Single Sign-on could cause failed login attempts because of mismatched passwords.

NOTE: Server entries with a red background have been configured for LDAP integration but are not currently connected. If a server is not licensed as an enterprise system, NOT ENTERPRISE appears in its Status column.



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Creating New Users Without LDAP Integration

To create a new user without LDAP integration, complete the following steps.

	Details		
1	Username:	New User	
	Password:		
2	Confirm:		
2	User Group:	Live + Search	5
	Create N	lew User Query LDAP	
3	Select All in Grid	Show Passwords in Cleartext	4

- 1. Enter the username, password, and password confirmation.
- 2. Select a user group from the drop-down list.
- 3. Activate the Select All in Grid checkbox if the user account's default setting should be applied to all listed servers.
- 4. To see the actual passwords instead of asterisks, select the Show Passwords in Cleartext checkbox.
- 5. Click Create New User to list the servers that the user can be added to.

- User Config	juration —		Details Username Password Confirm User Group	Admin Admin L L Live + Search o Grid Rows Quer	/LDAP	8	User Acc User 082 10n 12C 1cs aaf abb abb abb acc acc acc acc acc
Select	Delete	Server	Password	Confirm	User Group	Status	acc acc acc
		exacqVision AXIS Server 2003				NOT ADMIN	acc
		exacqVision Hybrid Server	*****	****	Full Admin	OK	acc
						NOT ENTERPRISE	acm
		exacqVision Stardot Server				DISCONNECTED	aco act
			7				actu actu Actv add adda adda adda adda adda Adda Adda
			Select Delete Server	User Configuration User and Password Confirm User Group Apply t Select All in 0 Select Delete exacqVision Stardot Server exacqVision Stardot Server exacqVision Stardot Server	User Configuration User Configuration User anne: Admin Password: Confirm: User Group: Uve + Search Apply to Grid Rows Quer Select Al in Grid Show Password Select Al in Grid Show Password exacqVision AXIS Server 2003 exacqVision Stardot Server exacqVision Stardot Server exacqVision Stardot Server	Detais Username: Admin Password:	User Configuration User annee: Admin Password: User Group: User Group: User Group: Delete Select All in Grid Show Passwords in Cleartext

- 6. In the Select column, activate the checkboxes for servers that the user or group should have access to. The user group can be changed for each server if required.
- 7. Click Apply.
- 8. The Status column displays the status of the selected account on each system. The status can be OK, Pending, Not Enterprise, Disconnected, or Deleted.



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Enterprise Server Setup

Enterprise servers can be integrated with network management systems (Active Directory, OpenLDAP, or Kerberos) to synchronize user accounts from your computer network and exacqVision servers. Before proceeding with this option, you must configure the integration as explained in the LDAP integration document appropriate for your platform found at https://www.exacq.com/downloads/LDAP/index.html.







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Exacq Technologies is committed to providing exceptional technical and engineering support. When you need help with your exacqVision product, please be ready with a complete description of the problem, including any error messages or instructions on re-creating the error.

Technical support can be contacted as follows:

Exacq Technologies, Inc.

11955 Exit Five Pa	arkway, Bldg 3
Fishers, IN 46037	' USA
Phone:	+1-317-845-5710
Fax:	+1-317-845-5720
e-mail:	support@exacq.com
Web:	http://www.exacq.com







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Federal Communications Commission (FCC) Radio Frequency Interference Statement

The Exacq Product contains incidental radio frequency-generating circuitry and, if not installed and used properly, may cause interference to radio and television reception. This equipment has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of the Federal Communications Commission (FCC) Rules. These limits are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area may cause interference to radio and television reception, in which case users will be required to correct the interference at their own expense. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, users are encouraged to try to correct the interference by one or more of the following measures: Reorient the television or radio receiving antenna, and/or relocate the Exacq product and the radio or TV with respect to each other. If necessary, users should consult the manufacturer or an experienced radio/television technician for additional suggestions. Users may find helpful the following booklet prepared by the Federal Communications Commission: "How to Identify and Resolve Radio-TV Interference Problems," which is available from the Government Printing Office, Washington DC, 20402 (stock #004-000-00345-4).

CE Notice

Marking by the **C E** symbol indicates compliance of this device to the EMC directive of the European Community. Such marking is indicative that this device meets or exceeds the following technical standards:

- EN55022: Conducted Emissions
- EN55022: Radiated Emissions
- 61000-4-2 Electrostatic Discharge
- 61000-4-3 Radiated Immunity
- 61000-4-4 Electrical Fast Transients
- 61000-4-5 Surge Immunity
- 61000-4-6 Conducted Immunity

Electromagnetic compatibility (EMC) requires the use of shielded cable and ferrite cores for all wiring added by the user. Good shielding techniques should be applied in the user's system.







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Following are manual updates since the most recent major revision of the exacqVision Client software:

Release 4.0

- Added Active Directory/OpenLDAP chapter.
- Added information about Query LDAP buttons in Users Setup and Enterprise User Setup sections.
- Added Live Maps, Searching Maps, and Map Setup sections.
- Updated System Setup section.

Release 4.1

- Added serial over IP information to Serial Port Setup section.
- Updated PTZ Control section.

Release 4.2

- Updated My Systems section with new columns.
- Updated Add IP Cameras page layout.
- Merged Import/Export Graphics into Import/Export Settings on System Setup page.

Release 4.3

- Added Send Rate Limit feature to Notifications section.
- Added Server Time and Client time options to Search Mode Overview section.
- Added note about Linux systems with multiple network interface cards to System Setup section.

Release 4.4

- Added search for POS to Video Playback section.
- Added Pre Motion to Camera Setup section.

Release 4.5

- Added license import and export information to My Systems section.
- Added information about selecting individual serial key words to Event Linking section.
- Added note about the Case Sensitive options to the Serial Profile Setup section.

Release 4.6

- Revised entire manual with new formatting, reorganization, and updated information.
- Added Enterprise Cameras and Enterprise Server Setup sections to new Enterprise Management chapter.
- Added Login History and Audit Trail tabs to System Information section.
- Added references to features available in exacqVision Start, exacqVision Professional, and exacqVision Enterprise.



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Release 4.7

- Updated Search Mode Overview chapter to reflect graphical and functional changes.
- Added Enterprise Notifications section.
- Added the ability to connect to and disconnect from multiple systems simultaneously to My Systems section.
- Added support for fisheye lenses to PTZ Configuration and PTZ Control sections.
- Added Always Prompt for Credentials to Add System section.
- Added Restore Client on User Attention Request feature to Client Setup section.
- Revised Health entry in Event Source table in Event Linking section.
- Clarified procedure for video clip export.
- Clarified that Audio Input Setup, Trigger Input Setup, Alarm Output Setup, and preset tours are also applicable to IP cameras.
- Clarified the difference between views and groups and revised Creating Views section accordingly.
- Clarified the procedures in the Camera Setup and Motion Masks, Video Masks, and Motion Windows sections.
- Clarified the procedures in the Users Setup section.
- Revised System Setup section for clarity and accuracy.
- Added information about keyboard shortcuts and auto-adjustment in Layout Panel section.
- Clarified that Event Monitoring, Searching Maps, Searching Groups, Searching Events, and multi-camera export are not available in exacqVision Start.
- Additional minor editing and clarification modifications.

Release 4.8

- Updated exacqRecall Button Configuration section to include several new features.
- Updated Search Mode Overview section to include updated interface.
- Updated Exporting Files section to include modified Mark Export Start/Stop functionality.
- Updated Serial Profile Setup section with additional notes.
- Updated Video Playback section to include modified serial data functionality.
- Updated Client Setup section to include Show Sunken Border feature.
- Updated Event Monitoring section to include new Action Type (Play Sound)
- Updated Map Setup and Live Maps sections to include new features (alarm and trigger icons).
- Updated Camera Setup section to include new Post Motion recording feature.





