

Network Video Recorder

User Manual (updated September 13, 2013)

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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	9
Server Software Installation	9
Client Software Installation	9

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

4 C	Config (Setup) Page Overview	14
	Add Systems	. 15
	System	. 16
	Add IP Cameras	. 21
	IP Camera Recording	. 22
	Analog Camera Recording	. 23
	Camera Settings	. 24
	Motion Masks, Video Masks, and Motion Windows	. 27
	Serial Profiles	. 29
	Serial Ports	. 31
	PTZ Configuration	. 33
	Audio Inputs	. 36
	Trigger Inputs	. 37
	Alarm Outputs	. 38
	Video Output	. 39
	Storage	. 40
	Event Linking	. 44
	Schedule	. 47
	Archiving	. 49
	Users	. 54
	Systems	. 55
	Device	. 57
	Client	. 58
	Views	. 60
	Tours	. 61
	Layouts	. 62
	System Information	. 63



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5 Live Page Overview	64
Layout Panel	
PTZ Control	
exacqReplay	
Camera Views	72
6 Search Page Overview	74
Searching for Video and Other Data	
Video Plavback	
Searching Views	
Search Serial	
Exporting Files	
A Technical Support	
B Regulatory Notice	87
C Warranty	88
D Manual Updates	
Release 4.6	
Release 4.7	
Release 4.8	
Release 4.9	
Release 4.11	
Release 5.0	
Release 5.2	
Release 5.4	
Release 5.6	
Release 5.8	



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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.
\gg	Config (Setup) Page (see Chapter 4)
	System*
ß	Set exacqVision server for static IP address.
	Configure the system name, time, and time zone.
	Storage
-0	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.
N	Camera Recording (IP cameras)
Ģ₩	Camera Recording (analog cameras)
r	
	 Set frame rates . Disable cameras that are not connected.
	Serial Port
	Set up serial port for RS-485 mechanical PTZ control.
	Set up serial port for input from serial devices.

	Camera Settings
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.
	□ 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.
	Users
499	Add user accounts for the people who will use the system.
J. J. J.	Trigger Input
	Name input triggers to be used.
	Set radio button to normally open or closed to match physical switch.
246	Alarm Output
	Name any alarm outputs to be used.
	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.
62	Event Linking
60	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 email installer when license subscription is near expiration.
a 🗖	Export Settings
	□ Save settings and license to a USB flash drive to aid the recovery process, if necessary.







	Live Page (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.
Q	Search Page (see Chapter 6)
	Search*
\mathbf{Q}	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 page and extrapolate the storage duration to ensure that it meets requirements; if it does not, decrease frame rate, quality, or resolution.





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 <u>http://downloads.exacq.com/reseller/Ubuntu/Dapper/exacqVisionServer.deb</u>.
- 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 https://www.exacq.com/downloads/ev-ip-quickstart-0311.pdf.
- 5. Test connectivity to each camera with the ping command.

Client Software Installation

- Download the latest client software from <u>https://downloads.exacq.com/downloads/exacqVisionClient.exe</u>.
- 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 Systems.
- 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 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.







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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Main Pages



exacqVision systems have three main operating pages, as represented by the following three icons:



Live Page allows users the ability to view live video.



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

Config (Setup) Page 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 and additional information about 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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Config (Setup) Page Overview

					3) exacq	Visio
onfiguration Systems Add Systems				Sys	stems		Q Search		
Client Event Monitoring		System Name	Serial Number	IP Address	Connection Status	License	Subscription	Version	Statu
🗃 Groups							•		
🗓 Maps		3ware Server	00-1C-C0-A0-20-42		Connected.	Enterprise	Updates through 2017-04-13		
😨 Enterprise	2	JimB Test Server	00-11-11-64-86-2A	192.168.3.218	Connected.	Licensed	Updates through 2015-01-01	4.11.1.31740	NOT E
3ware Server	3	Professional (Internal)		192.168.100.77	Locating system.				
exacqVision Arecont Server	4	exacqVision AXIS Server			Login failed - invalid username				
exacqVision Hybrid Z Server	5	exacqVision Arecont Server	evArecontDemo	arecont.exacq.com (evarecontdemo)	Connected.	Enterprise	Updates through 2017-07-12		
System	6	exacqVision Hybrid Z Server	evHybridDemo	192.168.100.1 (evhybriddemo)	Connected.	Enterprise	Updates through 2017-07-08		
Add IP Cameras	7	exacqVision Linux Z Server	evLinuxDemo	linux.exacq.com (evlinuxdemo.exacq.org)	Connected.	Enterprise	Updates through 2017-06-08		
Camera Recording	8	exacqVision Start Server	evStartDemo	start.exacq.com	Connected.	exacqVision Start	Updates through 2017-03-13	4.10.6.31674	NOT E
JOEve IOD32S -									
				Ш					
Immervision Fie Steam Steam Steam Steam Stamsung SNB Samsung SNB Samsung SNB Sony SNC-DS6(Sony SNC-RX5; PEngineering 3 Vivotek IP8161 Mutio Inputs Addio Inputs Addio Inputs Camera Recording Addio Inputs Strager Inputs Alarm Outputs Stride Output 1 Storage Serial Profiles Serial Profiles Serial Profiles Storage Serial Profiles Storage Serial Profiles Storage Strial Profiles Storage Storage				11 Import Licenses	Export Licenses				

The Config (Setup) Page allows you to configure systems, cameras, and other devices.

- 1. Config (Setup) Page Icon. This button opens the Config (Setup) Page.
- 2. **Configuration Tree.** This tree allows you to open the various configuration pages for each connected system. Each of the pages are described in detail in the following sections.
- 3. **Systems.** This default Config page displays systems that have been added.

NOTE: Connected S-Series storage servers are also listed in the tree, but only those configuration pages that are applicable to storage are available for each one. The options on each S-Series configuration page are also restricted as needed.



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Add Systems

nfiguration stems			A	dd Systems	
Add Systems	System List				System Information
Event Monitoring	Enabled	Address	System Name	Us *	Hostname/IP Address:
Groups		localhost	localhost	ad	
Maps		192.168.100.20	New System	ad	Port: 22609
Views	V	192.168.100.16	New System	ad	Use Single Sign-On
Tours	V	192.168.100.66	New System	ad	5 Always prompt for credentials
Layouts Enterprise	V	192.168.3.15	New System	ad	Use credentials entered below:
		192.168.3.157	streampi	ad	Se d'édentidas entiered below.
Storage	V	192.168.3.183	Support Lab G	2 ad =	Username:
Notifications			New System	4	Password:
- A Users	•	m		•	Password:
ASIS S Series					Connection Speed
ASIS Windows	New			Delete	Dialup O DSL O LAN O Local
exacqVision Acti Se	_				
exacqVision Arecont Server	Location:		I	mport Export	Apply
exacqVision Axis Server	- I	nport on Startup			
exacqVision Bosch Server	5-10-1				
exacqVision Edge Server - A			10		11
exacqVision Edge Server - A	as	9	IP address range:	-to-	Find
exacqVision Ganz Server			IP address range:	· · · -to-	FING
exacqVision Hikvision Server					
exacqVision Hybrid Server	Syste	Address	Model Serial		

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

- 1. To add a 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 for details.
- 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 Users" 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 a 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), 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.
- 10. Enter a network location or web site where a server configuration file is located and click Import to load the list to the client computer. (This will not delete any systems already added.) Select Import on Startup to automatically load the list whenever exacqVision Client is started.
- 11. Click Export to save the server configuration file for import on another system.

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

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

em	Date/Time	Network Activ	eDirectory/LDAP	Watchdog Timers	Hardware Monit	toring Update		
Syst	em Identific	ation		Licens	se		2	
System Name: exacqVision Pelco Server			253	7107-FB02C3	BEBBD9-	464007-1AF93	3-F7	
			Cancel		MAC Address:		5-CF-AC 1	Сору
Setti	ings	4	3			Enterprise		
		Import	Export	Subs	cription Expires:	Updates thro	ugh 3/13/2017	
		Import	Export	Licens	sed IP Cameras:	32 IP Camera	s (21 used)	
		Cancel			Import	Export	Apply	Cancel
		m Information	5]				
		odel Number	IPS-2000-R2					
		otherboard	Intel Corporati	-				
		OS		23510J.86A.0865.2		04/04/2008)		
	Processor Intel(R) Pentium(R) CPU Total Memory 2 GB			m(R) CPU E6500 @	2.93602			
	Total Memory 2 GB Operating System Ubuntu 10.04.3 LTS			3175				
	Service running since 2/27/2013 3:56:25 PM							

- 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.
- 5. System information provides basic information about the system hardware.



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

	System
System Date/Time Network	
System Date/Time Network	Time and Date Image: Sum Mon Tue Wed Thu Fri Sat 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 System Time: 10:47:15 AM Ime Zone: Ime Zone: Ime Zone: Ime Zone: Ime Zone: Ime Server: ODST Standard Ime Server: Ime Server: Ime Server: Ime Server: Ime Server: Ime Server: Ime Server: Ime Server: Ime Server: Ime Server: Ime Server: Ime Server: Ime Comera Time Server: Ime Server: Ime Server: Ime Server: Ime Server: Image: Imable Override Apply Cancel Ime Server: Ime Server:

- 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
System Date/Time Network	
Network Interface	1
Local Area Conne	action 2 🗸
Status:	Disconnected - Settings pending
	Intel(R) 82579LM Gigabit Network
2 MAC Address:	00-30-48-B3-34-2A Copy
IP Configuration:	Opnamic Ostatic
IP Address:	0.0.0.
Netmask:	0.0.0
Gateway:	0.0.0
Primary DNS:	0.0.0
	Apply Cancel
Remote Client Bandwidth T	hrottling
4 OFF	Apply Cancel
IP Reconnection	
10 💌 Se	conds 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 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 **Watchdog Timer** tab displays information about the system's factory-installed watchdogs, if available. The watchdogs can restart systems or capture cards if they lock up. The information on the tab is not configurable.

Watchdog Time	ers	
Watchdog Time	ers	
Device	Enabled	Timeout
eDVR 1000P	YES	60 Seconds

• The **Hardware Monitoring** tab (available only on certain systems) displays information about the system voltage, temperature, and fan speed. The Status message changes to a red ALARM if a minimum or maximum value of a monitored parameter is reached.

 Date/Time	Network	ActiveDirector	y/LDAP Watch	dog Timers	Hardware Monitoring		
	5	Status : OK					
	C ^N	/oltage					
		Source	Value (V)	Min (V)	Max (V)	Status	
		VCORE	1.000	0.540	1.490	ок	
		12V	12.038	10.800	13,200	ОК	
		AVCC	3.376	2.970	3.630	ОК	
		3.3VCC	3.376	2.970	3.630	ОК	
		VDIMM	1.496	1.350	1.650	OK	
		5VCC	5.056	4.500	5.500	OK	
		VTT_CPU	1.048	0.920	1.340	ОК	
		VSB	3.312	2.970	3.630	ОК	
		VBAT	3.264	2.970	3.630	ОК	
		Temperature			100008		
		Source	Value (C)	Max (C)	Status		
		System	32	80	ОК		
		CPU	30	80	ОК		
		Peripheral	23	80	OK		
	F	an Speed					
		Source	Value (RPM)	Min (RPM	l) Status		
		Fan1	1057	250	OK		
		Fani					







• The **Update** tab allows you to remotely update the exacqVision Server software. The server's current exacqVision Server version is listed at the top of the tab. Click Check for Updates; if a newer exacqVision Server release is available, it will be listed in the Version drop-down list.

After you select an exacqVision Server release, click Update. Update Status tracks the progress of the update. After your first update, the Last Status will provide information about the most recent update.

NOTE: Alternatively, you can select Show Advanced Options to open the Location field, which contains a network share location accessible by the client and server. Copy the update list and all server software updates to the location specified.

			System
System	Date/Time	Network	ActiveDirectory/LDAP Watchdog Timers Hardware Monitoring Update
			Version: 5.3.3905.38757 Update Status: Last Status:
			Show Advanced Options
			Check for Updates Version:
			Update

Please note the following additional information about remote updates:

- The exacqVision system will stop recording for several minutes during the update, and then it will automatically begin recording when the update is complete.
- Available exacqVision Server releases can vary based on the system's license and subscription status.
- Remote updates on the System page require the exacqVision Server and exacqVision Client both to be connected to the Internet.
- If the server and client are not connected to the Internet, you can copy your license file to a flash drive or other portable media device. Then upload the license file to the Offline Software Update Packaging Utility on exacq.com under Support and Downloads.







Add IP Cameras

z Server IP Camera List	6				IP Camera Informati	on
rid Server Enables	Address	Туре 🔺	Model	MAC	Device Ty	on pe: ACTi •
e Server	192.168.102.179	Sony	SNC-DS10	00-1D-BA-0F-62-3A	-	
x Z Server	192,168,103,75	StarDot	NetCamSC 1.3MP	00-30-F4-EA-00-1D	Hostname/IP Addre	255:
	192.168.101.81	StarDot	NetCamSC 1.3MP	00-30-F4-D2-11-80	-	ort: 80
imeras	192.168.102.228	Vivotek	IP7142	00-02-D1-0C-DC-E9		5rt: 60
ra Recordii	192.168.102.225	Vivotek	IP7361	00-02-D1-0F-2B-9D	Usernar	me: Admin
ti KCM-39	192,168,102,248	Vivotek	FD8162	00-02-D1-17-B4-A3	-	
econt AV5	192.168.103.41	Vivotek	DCS-6620G	00-13-46-D9-02-66	Passwo	ord: •••••
nky Cam					Password Confi	rm: •••••
					*	
sler BIP-16				•		
ick New				Delete		
ick inclusion						
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kVision DS		or TP cameras on 12/13/20	12 st 10:22:25 AM			
INZ KVision DS kVision DS Rescan Net	Nork Server k	or IP cameras on 12/13/201		Medal	Mac	Firmura
Inz KVision DS axsys IN-D TRK200 Er KERCON ER KING AND	Nork Server k	Address	Туре 🔺	Model	MAC	Firmware
Inz KVision DS axysy IN-D/ TRK200 Er TRK200 Er Vdc100dr Meported N ACTi	Nork Server k	Address 192.168.102.8	Type 🔺	ACM5611	00-0F-7C-01-60-29	A1D-220-V3.14.18-AC
nz Find IP Camera kVišion DS E xxys IN-D) TRK200 Er 1-AA100 ACTi ACTi ACTi	Nork Server k	Address 192.168.102.8 192.168.102.7	Type A ACTi ACTi	ACM5611 ACM5601	00-0F-7C-01-60-29 00-0F-7C-01-A8-53	A1D-220-V3.14.18-AC A1D-220-V3.13.16-AC
In2 Find IP Camera KVision DS Rescan Net sxys IN-D) TRK200 Er TRK200 Er TRK200 Er ACTi ≥ ACTi ≥ Hold IP Camera Rescan Net ACTi ≥ ACTi ≥	Nork Server k	Address 192.168.102.8 192.168.102.7 192.168.102.7 192.168.102.1	Type A ACTi ACTi ACTi ACTi ACTi ACTi ACTi AC	ACM5611 ACM5601 ACM1231	00-0F-7C-01-60-29 00-0F-7C-01-A8-53 00-0F-7C-01-AB-40	A1D-220-V3.14.18-AC A1D-220-V3.13.16-AC A1D-220-V3.12.15-AC
Inz KViston DS F Rescan Net Xxsys IN-DI TRK200 Er TRK200 Er L-AA100 ACTi L-AA100 ACTi ACTi ACTi ACTi ACTi	Nork Server k	Address 192.168.102.8 192.168.102.7 192.168.102.1 192.168.102.1	Type A I ACTi ACTi ACTi ACTi ACTi ACTi ACTi ACTi	ACM5611 ACM5601 ACM1231 ACM1511	00-0F-7C-01-60-29 00-0F-7C-01-A8-53 00-0F-7C-01-AB-40 00-0F-7C-01-D6-8B	A1D-220-V3.14.18-AC A1D-220-V3.13.16-AC A1D-220-V3.12.15-AC A1D-220-V3.13.16-AC
Int. Find IP Camera KVision DS axsys IN-D- TRK200 Er TRK200 Er Reported N TRK200 Er ACTi 2 L-AA100 ACTi V-SF246 ACTi elelQ VIQ ACTi	Nork Server k	Address 192.168.102.8 192.168.102.7 192.168.102.1 192.168.102.6 192.168.102.23	Type ACTi ACTi ACTi ACTi ACTi ACTi ACTi ACTi	ACM5611 ACM5601 ACM1231 ACM1511 ACM8511	00-0F-7C-01-60-29 00-0F-7C-01-A8-53 00-0F-7C-01-AB-40 00-0F-7C-01-D6-8B 00-0F-7C-01-E6-E0	A1D-220-V314.18-AC A1D-220-V3.13.16-AC A1D-220-V3.12.15-AC A1D-220-V3.12.15-AC A1D-220-V3.13.16-AC
Init IP Camera KVision DS axsys IN-DD TRK200 Er TRK200 Er TRK200 Er TRK200 Er AcTi L-AA100 ACTi V-SF346 ACTi deolQ VIQ- ACTi MCTi MCTi ACTI ACTI	Nork Server k	Address 192.168.102.8 192.168.102.7 192.168.102.1 192.168.102.1 192.168.102.23 192.168.102.24	Type A ACTi ACTi ACTi ACTi ACTi ACTi ACTi	ACM5611 ACM5601 ACM1231 ACM1511 ACM8511 TCM4301	00-0F-7C-01-60-29 00-0F-7C-01-A8-53 00-0F-7C-01-A8-40 00-0F-7C-01-D6-88 00-0F-7C-01-E6-E0 00-0F-7C-02-7C-47	A1D-220-V3.14.18-AC A1D-220-V3.13.16-AC A1D-220-V3.12.15-AC A1D-220-V3.12.15-AC A1D-220-V3.13.16-AC A1D-220-V3.13.16-AC A1D-310-V4.09.22-AC
Int: Find IP Camera KVision DS Rescan Net Rescan N	Nork Server k	Address 192.168.102.8 192.168.102.7 192.168.102.1 192.168.102.4 192.168.102.2 192.168.102.2 192.168.102.4	Type A ACTi ACTi ACTi ACTi ACTi ACTi ACTi ACT	ACM5611 ACM5601 ACM1231 ACM1511 ACM8511 TCM4301 TCM4101	00-0F-7C-01-60-29 00-0F-7C-01-A8-53 00-0F-7C-01-A8-40 00-0F-7C-01-D6-88 00-0F-7C-01-E6-E0 00-0F-7C-02-7C-47 00-0F-7C-03-CB-BA	A1D-220-V314.18-AC A1D-220-V313.16-AC A1D-220-V312.15-AC A1D-220-V313.16-AC A1D-220-V313.16-AC A1D-310-V4.09.22-AC A1D-310-V4.10.07-AC
Initian III Camera KVision DS axsys IN-Dr TRK200 Er TRK200 Er TRK200 Er TRK200 Er TRK200 Er TRK200 Er Acti // Acti Ledogix TV ACTi dealog VIQ ACTi msung SN ACTi msung SN ACTi	Nork Server k	Address 192.168.102.8 192.168.102.7 192.168.102.7 192.168.102.6 192.168.102.4 192.168.102.24 192.168.102.4 192.168.102.38	Type A ACTi ACTi ACTi ACTi ACTi ACTi ACTi ACT	ACM5611 ACM5601 ACM1231 ACM1511 ACM1511 TCM4301 TCM4301 TCM4101 TCM1511	00-0F-7C-01-60-29 00-0F-7C-01-A8-53 00-0F-7C-01-A8-53 00-0F-7C-01-A8-40 00-0F-7C-01-D6-88 00-0F-7C-02-7C-47 00-0F-7C-02-7C-47 00-0F-7C-03-CB-8A 00-0F-7C-04-79-E8	A1D-220-V314.18-AC A1D-220-V313.16-AC A1D-220-V312.15-AC A1D-220-V313.16-AC A1D-220-V313.16-AC A1D-310-V4.09.22-AC A1D-310-V4.10.07-AC A1D-310-V410.07-AC
Init Find IP Camera KVision DS Rescan Net xsxys IN-D Reported N TRK200 Er Reported N TRK200 Er ACTi I-AA100 ACTi delog VIQ- ACTi vS3546 ACTi deol VIQ- ACTi msung SN ACTi xC-HD460C ACTi yD510 ACTi	Nork Server k	Address 192.168.102.8 192.168.102.7 192.168.102.7 192.168.102.6 192.168.102.6 192.168.102.23 192.168.102.24 192.168.102.38 192.168.102.38	Type A ACTi ACTi ACTi ACTi ACTi ACTi ACTi ACT	ACM5611 ACM5601 ACM1231 ACM1511 ACM8511 TCM4301 TCM4101 TCM1511 TCM1511	00-0F-7C-01-60-29 00-0F-7C-01-A8-40 00-0F-7C-01-A8-40 00-0F-7C-01-66-80 00-0F-7C-01-66-80 00-0F-7C-02-7C-47 00-0F-7C-02-7C-47 00-0F-7C-04-79-88 00-0F-7C-04-7A-3E	A1D-220-V31316-AC A1D-220-V313316-AC A1D-220-V312316-AC A1D-220-V312316-AC A1D-220-V31316-AC A1D-310-V41007-AC A1D-310-V41007-AC A1D-310-V41007-AC A1D-310-V41007-AC
In: Find IP Camera KVision DS axys IN-D TRK200 Er TRK200 Er TRK200 Er TRK200 Cr action Camera ACTi ACTI	Nork Server k	Address 192.166.102.8 192.168.102.7 192.168.102.7 192.168.102.1 192.168.102.23 192.168.102.24 192.168.102.24 192.168.102.3 192.168.102.3 192.168.102.3	Type A ACTi ACTi ACTi ACTi ACTi ACTi ACTi ACT	ACM5611 ACM5601 ACM1231 ACM1511 ACM8511 TCM4301 TCM4301 TCM4101 TCM1511 TCM7011 TCM7011	00-0F-7C-01-60-29 00-0F-7C-01-A8-53 00-0F-7C-01-A8-53 00-0F-7C-01-26-48 00-0F-7C-01-26-68 00-0F-7C-02-7C-47 00-0F-7C-02-7C-47 00-0F-7C-04-79-18 00-0F-7C-04-79-18 00-0F-7C-04-7F-5C	A1D-220-V314.18-AC A1D-220-V31215-AC A1D-220-V31215-AC A1D-220-V31215-AC A1D-220-V31216-AC A1D-210-V31216-AC A1D-310-V40027-AC A1D-310-V41007-AC A1D-310-V41007-AC A1D-310-V41007-AC
Initian State Stat	Nork Server k	Address 192.168.102.8 192.168.102.7 192.168.102.7 192.168.102.6 192.168.102.6 192.168.102.23 192.168.102.4 192.168.102.4 192.168.102.4 192.168.102.3 192.168.102.41 192.168.102.41	Type A ACTi A	ACM5611 ACM5601 ACM1231 ACM1511 ACM8511 TCM4101 TCM4101 TCM1511 TCM5011 TCM5011 TCM5001	00-0F-7C-01-60-29 00-0F-7C-01-A8-53 00-0F-7C-01-A8-53 00-0F-7C-01-C8-58 00-0F-7C-01-C8-E0 00-0F-7C-01-E6-E0 00-0F-7C-03-CB-EA 00-0F-7C-03-CB-EA 00-0F-7C-04-79-E8 00-0F-7C-04-7F-50 00-0F-7C-04-7F-80	A1D-220-V314.18-AC A1D-220-V31316-AC A1D-220-V31215-AC A1D-220-V31215-AC A1D-220-V31316-AC A1D-310-V4.0922-AC A1D-310-V4.007-AC A1D-310-V4.007-AC A1D-310-V4.007-AC A1D-310-V4.007-AC A1D-310-V4.007-AC
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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

Systems Add Systems	Ntera 1		Configural				Cam	era R	Recordi	ng					6b				
Client Client Very Coups Maps Maps	Types ACTi ACTi AVIS VAPIX	-	Configurat		2		4			Frame Rate (fps):	•	Resolution:	5	3			Quality: 1	to Cameras Gra	
Views	American Dynamics Arecont Vision		Cameras																1-
Tours	BOSCH		IVI Colori	Al Cameras											Q	Sec.		0	
Enterprise	E Canon														- Incode and				-
exacgVision ACTi Server	Ganz		Inpu	t 🔺 Camera Name	IP Address		Video Detected Enab		cord Status	MAC Address	Type	Model	Firmware	Frame Rate	Resolution	Format	Qualt		di se
exacqVision AXIS 2008 R2 Serve	HikVision		1	180 x 2 CEILING Mount		Connected	Yes			00-0F-7C-08-D3-6F			A1D-311-V5.08.06		• HD	H.264	10		4a - 7
exacqVision Bosch Server	IPX		1	AD ADCI400		Connected	Yes	 Motion 		00-30-46-01-1C-7F			2.20			• H.264	• 9	•	
exacgVision Edge Server - Axis			1	Arecont AV3135	192.168.101.121	Connected	Yes	 Motic 		00-1A-07-06-BE-87		3135	65155		 1984x1216 		• 6		
RexacgVision Edge Server - Axis	IQeye		1	Arecont 2105M	192.168.101.100	Connected	Yes			00-1A-07-01-02-31		2105M			 1600×1184 		• 5	-	1
exacqVision Edge Server - Axis exacqVision Edge Server - Axis	⊕ 🗹 Inaxsys		✓ 1 ✓ 1 ✓ 1 ✓ 1 ✓ 1 ✓ 1 ✓ 1 ✓ 1 ✓ 1	Axis M5014	192.168.101.42	Connected				00-40-80-89-77-85		M5014	5.40.11.1			➡ H.264	• 2		
exacqVision Edge Server - 1076	Panasonic		1	Axis MS014 evAPI	192.168.101.42	Connected	Yes			00-40-80-89-77-85		M5014			 1280x720 	 H.264 	• 8	*	1
exacqVision Ganz Server - JQ/0	E RTSP		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Camera	192.168.102.120	Connected	Yes			00-04-63-3C-AC-67		VG5 AutoDome HD			 704x480 	 H.264 	• 3	-	1
exacqVision Ganz Server exacqVision Hikvision Server	😥 🗹 Sanyo		1	Canon VB-C60	192.168.103.0	Connected	Yes	Motic		00-00-85-D4-E2-27		VB-C60			• 640x480	 JPEG 	• 10	-	1
	B Sony		1	Ganz TDPM00 IN2M	192.168.102.80	Connected	Yes	 Motion 		00-1C-88-00-00-C5		TPDM00 1N2M			• VGA	■ MPEG4	• 8		
exacqVision Hybrid Server	😥 🗹 StarDot		1	HkVision DS-2CD8253F-EI		Connected				00-40-48-66-65-EB			V4.0.3 Build 120821		 1600×1200 		8	*	
System	i Vivotek		1	HikVision DS-2CD8253F-EI	192.168.103.72	Connected	Yes	 Motion 		00-40-48-66-65-EB			V4.0.3 Build 120821		 352x240 		- 6		
Add IP Cameras	Recording Statuses			Inaxsys IN-D04M36A	192.168.102.16	Connected	Yes			00-0F-7C-07-32-EF		IN-DO-#M36A	A1D-311-V5.01.07-			H.254	8		
Camera Recording	Continuous Recordin	9		IPX DDK-1500	192.168.102.60	Connected	Yes	 Moto 		00-0C-0C-01-A0-3E		DDK-1500	1.53		 720x480 	 MPEG4 	• 9		
- C Audio Inputs	Continuous Recordin	9	1	IQEye IQD325		Connected				00-50-1A-26-09-45		1QD325	Version V3.3/9(120		 1080P 		• 8		
Trigger Inputs	Event Recording			WV-SP509 ImmerVision		Connected	Yes	 Motio 		08-00-23-95-14-A3		WV-SP509	1.30		 1920x1080 		• 10		
- Alarm Outputs	Motion Recording		1	Sentry360 FS-IP 2000	rtsp://192.168.102		Yes	Schell	eduled Off		RTSP			30	1280x1024	H,264			
Exacq sDVR6516	Motion Recording (in			Scallop-Main Samsung SNB-5000	rtsp://192.168.102		Yes .	 Sche 	eduled Off eduled Off		RTSP			30	1280x720 1280x720	H,264 JPEG			
Camera Recording	Recording Disabled		✓ 1✓ 1	Samsung SNB-5000 Scalop-Ful	rtsp://192.168.102		Yes -	 Sche 	eduled Off eduled Off		RTSP			30	1280x720 5120x1280	JPEG HL254			
Audio Inputs	Scheduled Off	1.5		Scalop-Full Sanvo VCC-HD4600P	rtsp://192.168.102. 192.168.103.65		Yes .	Schell		08-00-78-81-28-27		VCC-HD4600P	CM 2.03-02 CS 1.0				-	-	
- Trigger Inputs	Connection Statuses			Sanyo VCC-HD4600P Sanyo VCC-HD2500	192.168.103.65	Connected	Yes -	Moto		08-00-76-81-28-27 08-00-76-88-41-07		VCC-HD4600P VCC-HD2500	CM 2.03-02 CS 1.0 CM 2.02-02 CS 1.0		 1280x720 1920x1080 		• 8	•	
Alarm Outputs	Connected			Sanyo VCC-HD2500 Sony SNC-D560 - VGA			res	- Moto				VCC-HD2500 SNC-D560				 H.254 MPEG4 	• 8		
Video Output 1	Connecting					Connected	Yes	 Moto 		00-1D-8A-31-58-C6		SNC-DS60 SNC-RX570N			VGA	MPEG4 MPEG4		•	
Video Output 2	- ✓ Connecting - ✓ Disabled			Sony SNC-RX570N		Connected	Yes	Mobs		00-1D-BA-0F-93-CF							▼ 8		
- Storage			1	Sony SNC-CH140	192.168.102.201	Connected	Yes	Moto		00-24-BE-D2-27-ED		SNC-CH140	1.73.01						
Serial Profiles	Not Connected		✓ 1 ✓ 1 ✓ 1 ✓ 1 ✓ 1 ✓ 1 ✓ 1 ✓ 1	StarDot NetCamSC 5MP	192.168.103.76	Connected	Yes			00-30-F4-D0-11-83		NetCamSC 5MP			 FULL (UHR- 1600x1200 		7 10		
Serial Ports	- Recording Disabled			Toshiba IK-WD12A		Connected	Yes	Cont		00-02-01-0F-2C-38		FD7161	FD7161-TOBA-0100		 1600x1200 1600x1200 				
- Notifications	Video Loss		21	Toshiba IK-WB30A	192.168.102.226	Lonnected	Yes	Cont	runuous Recordi	00-02-D1-08-42-DF	NVO08K	IP7161	IP7161-TOBA-0100	0	1600x1200	MPEG4	* 8		1
	Resolutions																		
Auto Export	· •																		1
P Event Linking	1080P	~																	1
- Schedule	- 21280x1024	6a																	1
Subsers	- 2 1280x720	54																	1
exacqVision Linux Z Server	- 2 1600x1184 (1.8M)																		1
exacqVision Panasonic Server	- C 1600x1200																		1
exacqVision Pelco Server	I 1920x1080																		1
exacqVision Samsung Server	984x1216 (2.4M, day)																		1
exacqVision UDP Server	2032x1920														7				1
exacqVision Vivotek Server	₹ 352x240																		1
	-₩ 5120x1280																		1
	✓ 512041280															<			1
	- ₩ 640x480																		1
																			1
	- ₹ 720×480	*		27 of 27 cameras														Cancel	4

The IP **Camera Recording** page allows you to enable IP cameras to record video and configure recording settings. The following features are available on the IP Cameras page:

- 1. The Filters list allows you to select which cameras are displayed in the Cameras list, based on categories such as camera type, recording status, resolution, and more.
- 2. The Cameras list displays all cameras on the selected server that match the criteria selected in the Filters list. Cameras can be sorted by clicking the title of any column. Several of the columns can also be hidden or displayed by right-clicking any column title, although the checkboxes, camera names, and recording settings (frame rate, resolution, format, and quality) cannot be hidden.
- 3. To search for a camera in the list, enter text in the Search field. If any of the information about a camera entry matches the Search text in any displayed or hidden column, the camera entry is shown; all other camera entries are hidden. To display the rest of the cameras that match the Filter criteria, delete the text in the Search field.
- 4. The Enable 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. Recording settings can be changed individually for a camera by selecting any of the drop-down lists in the Frame Rate, Resolution, Format, and Quality columns. The options available in each drop-down list can vary by manufacturer and model. If a drop-down list is not displayed for a camera in any of the fields, the camera does not support any other settings for that parameter.
- 6. Alternatively, to apply a quality setting to multiple cameras simultaneously, select the checkbox (a) in the first column for each applicable camera (or select the Select All Cameras checkbox), select Quality checkbox (b), choose a video quality from the drop-down list (c), and click Apply to Cameras in Grid (d). The quality should now be modified for all selected cameras, as shown in the Quality column in the Cameras list (e).
- 7. Click Apply to activate any changes.



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Analog Camera Recording

Configuration ystems Add Systems Cent Event Monitoring Genet Verus Maps Verus Veru	Fiters Fiters Continuous Recordin Continuous Recordin Continuous Recordin Fiters Fiters	2	Configura 4CII		Frame Rate (fps		a Recordin	g fion: 2CIF		6d Format: H.264	66	Quality	e: 6f r: 8 Apply to Camera	on.
Tours	Motion Recording (in mo	(Selec	t All Cameras							Q Search			8
Enterprise	Recording Disabled		Input	Camera Name	Video Detected	Enable	Record Status	Model	Firmware	Frame Rate	Resolution	Format	Quality	
exacqVision ACTi Server	Scheduled Off		2	Analog - Main Hall	Yes	2	Continuous Record	Exacq sDVR6516	6.2.0.26	30	✓ 4CIF	▼ JPEG	▼ 10	
exacqVision AXIS 2008 R2 Serve	Resolutions	6a	3	Analog - Vestibule	Yes	1	Continuous Recordi	Exacq sDVR6516	6.2.0.26	15	 4CIF 		- 4	•
exacqVision Bosch Server		ua	5	Analog - Color Bars	Yes	1	Continuous Recordi		6.2.0.26	15	▼ 4CIF		- 4	
exacqVision Edge Server - Axis	4CIF		6	Analog - Front Door	Yes	Ū	Continuous Record	Exacq sDVR6516	6.2.0.26	15	 4CIF 	▼ H.264	- 4	
exacqVision Edge Server - Axis	- 🖌 Frame Rates (fps)		8	Analog - Front Parking	Yes	1	Continuous Recordi	Exacq sDVR6516	6.2.0.26	15	- 4CIF		➡ 10	•
exacqVision Edge Server - Axis			10	Analog - Ops Entry	Yes		Continuous Record	Exacq sDVR6516	6.2.0.26	15			• 4	• •
exacqVision Edge Server - IQ76			11	Analog - West Door	Yes	1	Continuous Record	Exacq sDVR6516	6.2.0.26	15	✓ 4CIF	▼ H.264	• 4	•
exacqVision Ganz Server			12	Analog - West Windows	Yes	~	Continuous Recordi	Exacq sDVR6516	6.2.0.26	15	 4CIF 		- 4	-
exacqVision Hikvision Server	- V Formats	<<	13	Analog - Back Lot	Yes	~	Continuous Record	Exacq sDVR6516	6.2.0.26	15			▼ 4	
exacqVision Hybrid Server			14	Analog - S Double Door	Yes	~	Continuous Recordi	Exacq sDVR6516	6.2.0.26	15	 4CIF 	▼ H.264	- 4	•
🚍 System	H.264		16	Analog - Server Room	Yes	~	Continuous Recordi		6.2.0.26	15	 4CIF 	 JPEG 	▼ 5	-
🛓 📯 Add IP Cameras	JPEG		1	Analog - TV	Yes	~	Continuous Record		6.2.0.26	30	 4CIF 		v 10	•
🗄 🚽 Camera Recording	Qualities		4	Analog - DVD	Yes	~	Continuous Record		6.2.0.26	15	 4CIF 		- 4	
- 🕼 Audio Inputs	4		7	Analog - Exacq Cafe	Yes	-	Continuous Recordi		6.2.0.26	15	→ 4CIF		- 7	-
- 🔄 Trigger Inputs			9	Analog - Disco Ball	Yes	~	Motion Recording	Exacq sDVR6516	6.2.0.26	15	 4CIF 	▼ H.264	▼ 8	•
Alarm Outputs			15	Analog - Door	-		Recording Disabled	Exacq sDVR6516	6.2.0.26					
Exacq sDVR6516 Concern Recording Wadio Inputs Trigger Inputs If Alarm Outputs Concern Video Output 1 Concern Video Output 2	v 8 v 10 v − v − v Analog										7			
Storage video Output 2			Displaying	16 of 16 cameras								App	v Car	rel
🖅 storage 🔍 👻	4 III +		Displaying	g to or to carrier as								Appl	y Car	ncei

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

- 1. The Filters list allows you to select which cameras are displayed in the Cameras list, based on categories such as recording status, resolution, and more.
- 2. The Cameras list displays all cameras on the selected server that match the criteria selected in the Filters list. Cameras can be sorted by clicking the title of any column. Several of the columns can also be hidden or displayed by right-clicking any column title, although the Enable column, camera names, and recording settings (frame rate, resolution, format, and quality) cannot be hidden.
- 3. To search for a camera in the list, enter text in the Search field. If any of the information about a camera entry matches the Search text in any displayed or hidden column, the camera entry is shown; all other camera entries are hidden. To display the rest of the cameras that match the Filter criteria, delete the text in the Search field.
- 4. The Enable 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. Recording settings can be changed individually for a camera by selecting any of the drop-down lists in the Frame Rate, Resolution, Format, and Quality columns. The options available in each drop-down list can vary by manufacturer and model. If a drop-down list is not displayed for a camera in any of the fields, the camera does not support any other settings for that parameter.
- 6. Alternatively, to apply a quality setting to all displayed cameras simultaneously, enable the Select All Cameras checkbox (a), select one or more of the Frame Rate (b), Resolution (c), Format (d), or Quality (e) checkboxes, select a setting for each selected parameter, and click Apply to Cameras in Grid (f). Note that the resolution can be alternatively be changed for all cameras using the 4CIF, 2CIF, and CIF buttons. The settings should now be modified for all selected cameras, as shown in the Cameras list.

NOTE: If a parameter is greyed out in the Configuration section, a setting universal to all selected cameras is not available for that parameter.

7. Click Apply to activate any changes.

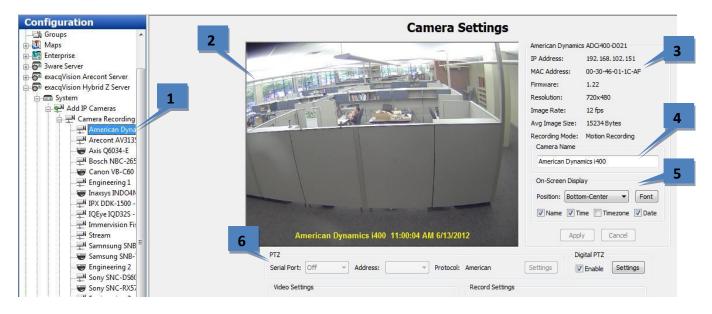


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Camera Settings



The **Camera Settings** 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 Settings 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 as it appears throughout exacqVision.
- 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. Select one or more items to display, and then select the position of the items. Click Font to change the appearance of the text.
- 6. See the "PTZ Configuration" section of this manual for details about the PTZ section of the Camera Settings page.

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







PTZ	al Port: Off	Address:	Protocol	: American		Digital PTZ	s
7	eo Settings		8	Record Settir			g
	ightness = 7 % ontrast = 7 %	-0		Format 	Quality = 9	0	10
Sa	aturation = 7 %	-0()	Motion Det	Post Motion = 1		11
	narpness = 7 % /ideo Mask	-0		Sensitivity Smooth Be	= 8		12
16a	Edit	Clear Apply	Cancel	Smooth En			13
	Crop Window Edit	Clear Apply	Cancel	Motion Mas	k Clear App	oly Cancel	
14		Apply Defaults	15a	16b	Apply Defaults	15b	

NOTE: The following settings on the Camera Settings 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 Settings page.



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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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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 Settings 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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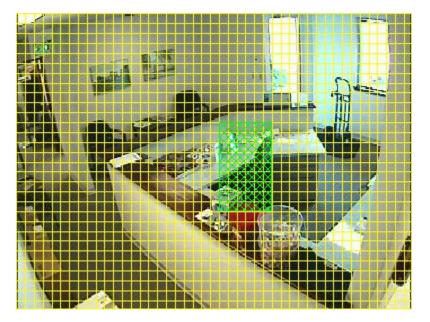


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A Video Mask is used to block an area of a camera's view so that it cannot be seen onscreen in live or recorded video. This can be useful if you don't want system users to see a combination safe or keypad that is in the camera's field of view, for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

To create a video mask, complete the following steps:

- 1. On the Camera Settings 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.







Serial Profiles

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

Configuration Systems Add Systems Client	8 Serial Profiles
exacqVision Start 2 Server Storage Storage Serial Profiles Control Profiles Con	1 Days to Retain Data: 60 Apply Cancel Profile Configuration Name: 3 SOT marker: 4 EOT marker: 5 Case Sensitive: 7 6 Font Font Sample
	7
2	New Delete New Delete

- 1. To view an existing profile, select it from the list.
- 2. To add a new profile, click the New below the list of profiles.
- 3. Enter a unique name in the Profile Name field in the Current Profile Properties box.
- 4. The SOT Marker, 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 Marker, 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 Font button allows you to select the font you want to be displayed on the Live view.
- 7. The Line Masks and String Replacements tabs are discussed on the following page.
- 8. The Data Retention section allows you to select the number of days that serial data is stored before it is automatically deleted.
- 9. When finished, click Apply.

NOTES: You can require case sensitivity for all strings 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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The Live Mask tab 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 the live display screen, on the search results, or in both cases, as selected.

Event Keywords Line Masks String Replacements		
Select All		
String	Live	Search
	~	
Case Sensitive		
New		Delete

The String Replacements tab allows you to modify serial data to a human-readable format. In the String column, enter information as it appears in the serial data; in the Replace column, enter substitute information that is easier to read and understand. Select whether the strings should be replaced in serial data on the live display screen, on the search results, or in both cases.

<pre> <log\x20type="1" <="" log=""></log\x20type="1"></pre>	Image: Second		Access\x20Event\x0A	-1
00			cieccos pieses entering piere	
	Image: A start of the start	-	\x20	_
<portal></portal>	Image: A start and a start	-	Door\x20	
	1	-	\x0A	
<reader></reader>	Image: A start and a start	Image: A start and a start	Reader\x20	
	1	-	\x0A	
<personid></personid>	-	-	Employee\x20ID\x20	
	1	-	\x0A	
carresscardids			Card\v20TD\v20	

NOTE: Certain characters must be entered in ASCII format. For example, spaces should be entered as "x20," and carriage returns should be entered as "x0A." It might require several adjustments to make the replacement text appear exactly as desired.







Serial Ports

The Serial Ports 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 Ports sections — one for standard UART (Universal Asynchronous Receiver/Transmitter) and one for serial ports over IP.

Uart													
lient vent Monitoring Use	Name	Statu	s Port	Profile / Protocol	Baud Ra	te Data	Bits Stop B	lits Parit	v Elo	w Control	Max Line Length	Line Ending Tin	reout
iroups POS	▼ Marsh P		COM1	Serial Marsh Port	▼ 4800	- 8	▼ 1	▼ None				60	cour
Maps Unused	COM2	Unuse			4800	8	1	None			80	60	
ews Unused	▼ COM3	Unuse	d COM3	None	4800	8	1	None	No		80	60	
ours Unused	COM4	Unuse	d COM4	None	4800	8	1	None	No	ne	80	60	
terprise Unused	COM5	Unuse	d COM5	None	4800	8	1	None	No	ne	80		
kacqVision ACTi Server	COM6	Open	COM6	Pelco-D	▼ 4800	▼ 8	▼ 1	 None 	▼ No	ne 💌	80	10)
acqVision AXIS 2008 R2 S	COM7	Unuse	d COM7										-
xacqVision Bosch Server				None	4800	8	1	None	No	ne	80	Apply	Cance
xacqVision Edge Server - A xacqVision Edge Server - A xacqVision Edge Server - A				None	4800	8	1	None	No	16	80	Apply	Cance
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xacqVision Edge Server - A xacqVision Edge Server - A xacqVision Edge Server - A xacqVision Edge Server - I(xacqVision Ganz Server xacqVision Hijkrision Serve xacqVision Hijkrid Server		Name	Status	Profile	🛦 Туре	Ade		P	ort I	1ax Line Ler		g Timeout	Cance

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:

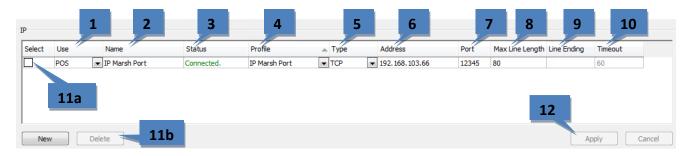
- Select the intended use of the serial port from the drop-down list in the Use column. The choices are unused, PTZ (pan/tilt/zoom), POS (point of sale), ATM (automatic teller machine), or Access Ctrl. Generally, the POS mode is used to record transactions at a cash register. By default, the last serial port listed is the built-in RS-485 port.
- 2. Enter a unique name in the Name field.
- 3. The Status column displays the current status of the serial port.
- 4. The Port is automatically selected by the Operating System.
- 5. The Profile/Protocol column allows you to select one of the profiles configured on the Serial Profile page.
- 6. 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.
- 7. The Max Line Length is 80 by default. Generally, you should not change this.
- 8. Line Ending is the number of characters received before an end-of-line character is inserted automatically. This prevents lines from becoming extremely large.
- 9. Timeout is the number of seconds after which an end-of-line character is entered if a serial device has not sent text. This is useful if the serial data does not have an end-of-line character but it hasn't reached the number of characters entered in Line Ending.
- 10. When you are finished, save the settings by clicking the Apply button at the bottom of the page.

The IP section is explained on the following 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 Profiles 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. Line Ending is the number of characters received before an end-of-line character is inserted automatically. This prevents lines from becoming extremely large.
- 10. Timeout is the number of seconds after which an end-of-line character is entered if a serial device has not sent text. This is useful if the serial data does not have an end-of-line character but it hasn't reached the number of characters entered in Line Ending.
- 11. To delete an IP port, choose its Select checkbox (9a) and click Delete (9b).
- 12. When you are finished, save the settings by clicking the Apply button at the bottom of the page.







PTZ Configuration

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

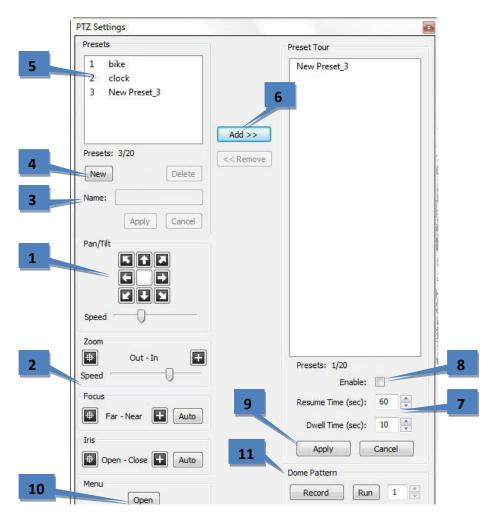


- 1. Select the camera's COM port from the Serial Port drop-down list. This port is configured on the Serial Ports page.
- 2. Select the camera's Address as configured on the camera hardware. (The protocol is automatically displayed based on the Serial Port selected.)
- 3. The Settings button under PTZ opens the PTZ Settings window, which is described on the following page.
- 4. 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.
- 5. The Settings button under Digital PTZ opens the Digital PTZ Settings 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.







PTZ presets can be configured by clicking the left Presets button on the Camera Settings 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 New to enable the preset.
- 5. The preset is listed under Presets. The total number of presets configured and supported is shown under the list.
- 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 certain PTZ functions (such as a tour, a linked event, or a soft trigger) can resume after a user manually controls PTZ functions. 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 vary by manufacturer; clicking Iris Open and Focus Far are the most common.



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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 Settings page.

	Digital PTZ Settings
3	Mode
6	Normal
5	Presets
	Presets: 0/16
4	New Delete
3	Name: New Preset
	Apply Cancel
1	Pan/Tilt
1	
2	Zoom
	🖶 Out - In 🕂
	Speed

- 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 New to enable the preset.
- 5. The preset is listed under Presets. The total number of presets configured and supported is shown under the list.
- 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.



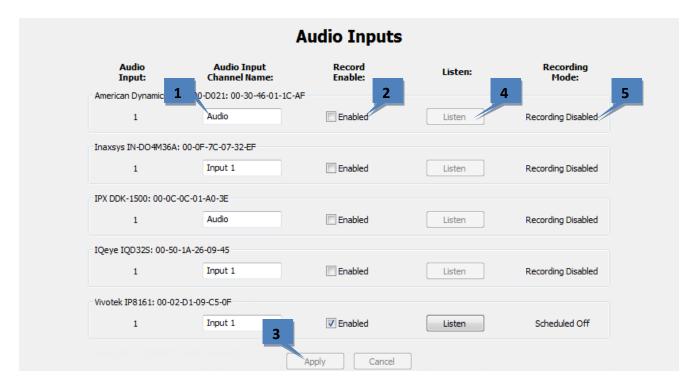
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35

Audio Inputs



The Audio Inputs 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.

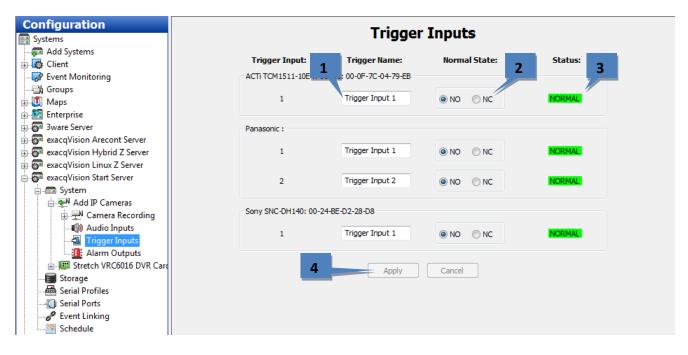
- 1. Enter a name for the audio input channel.
- 2. Select Enabled to enable audio recording on the input.
- 3. Repeat this process until all audio inputs have been named, and then click the Apply button.
- 4. Click Listen to verify the audio input connected to a channel. This is sometimes helpful when 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 Inputs



The Trigger Inputs 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.

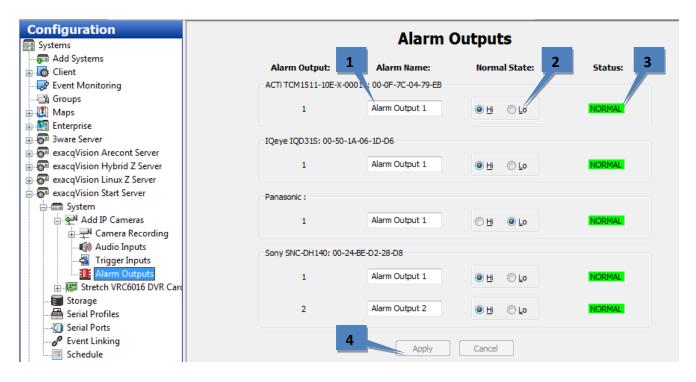
- 1. Enter a name for each trigger input in the Trigger Name column.
- 2. Configure the trigger input's Normal State as Normally Open (NO) or Normally Closed (NC).
- 3. The Status column indicates whether the trigger input is in its normal (green) state or in its alarm (red) state.
- 4. When you are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







Alarm Outputs



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

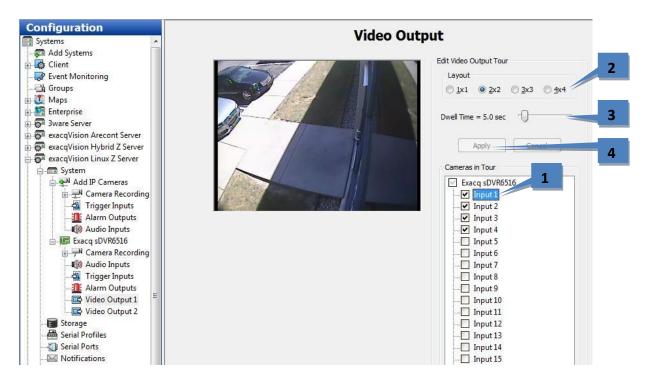
- 1. Enter a name for each alarm output in the Alarm Name column.
- 2. Configure the alarm output's Normal State as Hi (5VDC) or Lo (0VDC).
- 3. The Status column indicates whether the alarm output is in its normal (green) state or in its alarm (red) state. The output can be triggered to alarm state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







Video Output



On hybrid systems, the Video Output 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.







Storage

The **Storage** page allows you to configure the system's hard drives for video storage and monitor the health of drives and RAID arrays. Up to three tabs are available on the Storage page:

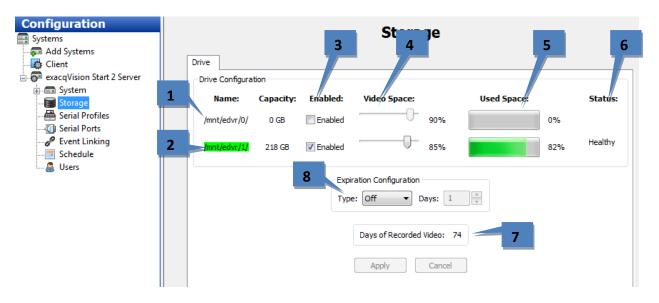
- The **Drive** tab displays all the installed drives, their capacity, available storage space, and status.
- The **Volume** tab displays the status of the RAID array, if configured on the system.
- The Hardware tab allows you to monitor attributes of each hard drive and RAID controller.





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The following features are available on the **Drive** tab:



- 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.
- Expiration Configuration allows you to set minimum or maximum time periods for video on each server to be stored. For example, you could configure video to be stored for at least 30 days before it is deleted, or for video to be deleted after no more than 7 days. See the following IMPORTANT NOTE before using this feature.







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).

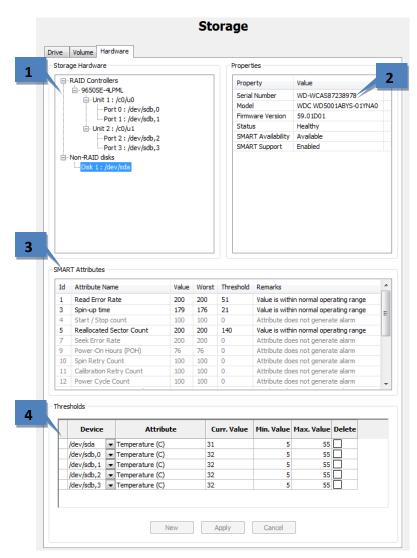
To resolve issues with video expiration, you can expand your storage capacity by adding hard drives, reducing the minimum time that video needs to be stored, or reducing frame rates or quality settings for the applicable cameras. The best way to determine your needs is by trial and error; allow the system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





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The following features are available on the Hardware tab:



- 1. The Storage Hardware section lists all the RAID controllers and hard drives installed in the system.
- 2. The Properties section lists properties of the controller or drive selected in the Storage Hardware list.
- 3. The SMART Attributes list displays the current values and operating threshold of various attributes, as provided by the hard drive manufacturer. This section is shown for informational purposes only; details about SMART attributes are available at http://en.wikipedia.org/wiki/S.M.A.R.T.
- 4. The Thresholds section allows you to modify the temperature thresholds for a hard drive. To do this, click New, select a hard drive from the Device drop-down list, and enter a minimum temperature and maximum temperature. Click Apply when finished.

If a drive or controller is in an alarm condition, it is highlighted in red in the Storage Hardware list. Alarm conditions can include a rebuilding array, high drive temperature, drive verification failure, drive removal, new drive, and more. You can configure a notification of a drive alarm using the Event Linking feature (see the "Event Linking" section of this manual for more information).

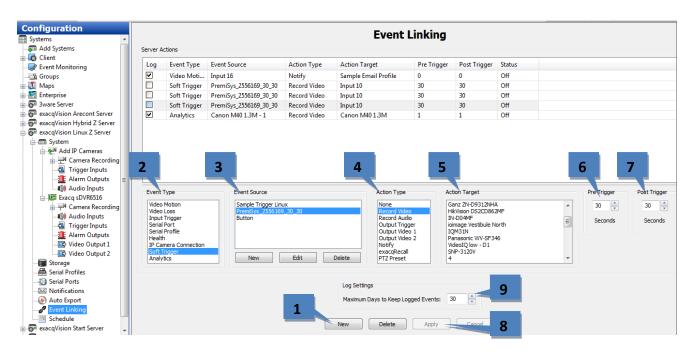


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Event Linking



The Event Linking 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. (In exacqVision Start, only Input Trigger is available.)
- 3. Select the Event Source.
- 4. Select the Action Type.
- 5. Select the Action Target.
- 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.







The following Event Types are available:

NOTE: Input Trigger is the only Event	Type available on exacqVision Start systems.
Note: input ingger is the only event	

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.
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.
Time Trigger	Time of day or day of week reached.
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 Inputs" section of this manual for details.
Serial Port	Any of the serial ports configured on the server. See the "Serial Ports" 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.
Health	Includes failures or temperature problems on a device; problems with storage configuration; subscription expiration; video throttling alarms; alarms related to parameters monitored on the Hardware Monitoring tab on the System page; failed connection to shared network drive for archiving.
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.
Time Trigger	Select New to open a window. Name the time trigger, select a start and end time, and select the days of the week when the selected action should occur. (For example, you could perform an Auto Export at 2:00 every morning.)
Analytics	A list of video analytics events (configured through the analytics provider's interface).



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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.
Auto Export	Data will be saved to a CD/DVR based on an Auto Export profile. See the "Auto Export" section of this manual for details.
PTZ Preset	The camera will be pointed in a specific direction. See the "Camera Settings" 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.
Auto Export	Any of the profiles that configured on the Auto Export page.
Preset	Any of the presets associated with the camera on the Camera Settings page.







Schedule

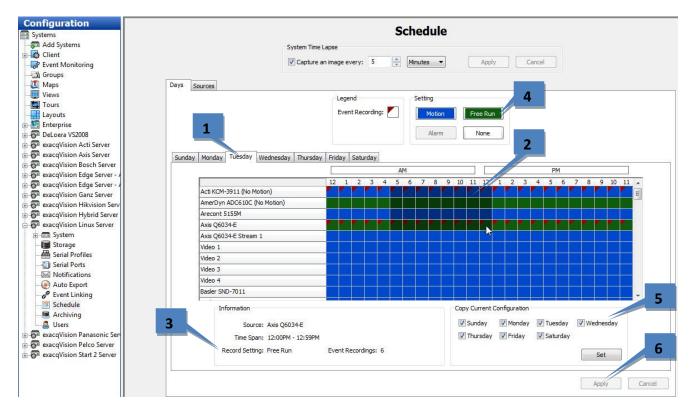
The Schedule page allows you to configure your recording schedule. By default, an exacqVision system is scheduled to record motion and events. There are four modes of video recording, which are color-coded on the Schedule page: motion (blue), free run (green), alarm (red), and off (white). Free run is continual recording. This type of recording uses a large amount of disk space.

NOTE: To configure time lapse recording, select the Capture An Image Every button, select a number, and then select Seconds, Minutes, or Hours from the drop-down list. Click Apply. Time lapse recording is not associated with the schedule configured in the grid on the Schedule page.

There are two scheduling tabs: Days and Sources.

On the Days tab, you can configure recording of all video, motion video, or just alarm video. To create a schedule, complete the following steps:

- 1. Select the appropriate tab for the day of the week.
- 2. In the grid, draw a rectangle that corresponds to the hours for each device that you want to schedule.
- 3. When you hover the cursor over a square, note the details displayed in the Information section.
- 4. Select the appropriate Setting button.
- 5. To copy the schedule from one day of the week to another, select the appropriate days of the week in the Copy Current Configuration section, and then click Set.
- 6. Click Apply.



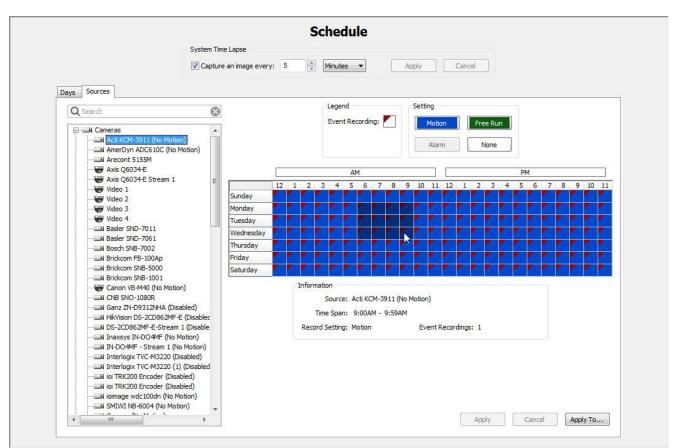






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• On the Sources tab, you can configure a separate recording schedule for each device:



Select the device from the tree and schedule it in the same way as described for the Days tab.

NOTE: You can apply the one device's schedule to another device by clicking Apply To...







Archiving

NOTE: Archiving (**not available in exacqVision Start**) uses a significant amount of a system's resources. Thus, video recording rates could be automatically throttled while archiving is in progress, especially on a wide area network with limited bandwidth. To avoid throttling of video recording, it is highly recommended that archiving be scheduled for periods when video recording rates are reduced. For example, if motion video is normally recorded at a retail location, schedule archiving for overnight hours when the location is closed to customers.

Sonfiguration	Arc	hiving	
Add Systems	Target Schedule		
Client	Settings 6	Task Schedule	
Event Monitoring	Enabled:	Name	Configuration
Groups		2	Name:
Maps	Address: \\S-Series-Demo.exacq.com\disk6	Archive Task 3	
Views	O Username: admin	Archive Task 4	Start Time: 12:00 AM
Tours	2 Username: admin	Weekday Archive	
Layouts	Password: ••••••	Weekend Archive	End Time: O Continuous
Enterprise		8	Until Finished
N Cameras	3 Status: Connected		O User Defined
Sers Users	Percent to Use: 50%		12:00 AM
Bosch Server			Frequency
VS2008	4		All Days
🕀 💼 System	Used Space: 250 GB		Weekend Oustom
Storage	Allocated Space: 1374 GB		O HELLING O HELLING
Serial Profiles			Sunday Monday
I Serial Ports	Total Space: 2750 GB		Tuesday Wednesday
Notifications	5 Apply Cancel		
Auto Export			🔄 Thursday 📃 Friday
Auto Export	Status	-	Saturday

The Archiving page allows you to configure an SMB shared network drive (a Windows share), such as those on an exacqVision S-Series server, that has been configured for archiving. The archive provides storage and quick retrieval of recorded video and audio data using the Search page. Files archived to the network share can be searched as if the files are located on the server itself. Multiple exacqVision servers can archive to the same drive.

To enable and identify the location of the shared network drive for easy retrieval of exacqVision data using the Search page, complete the following steps in the Settings section on the Target tab:

- 1. In the Address field, enter the path to the shared network folder. Include the subdirectory in the shared folder used in the configuration of the archiving task.
- 2. Enter a valid Username and Password required to log in to the shared network drive.
- 3. The Status portion of the Settings section shows whether the server has successfully connected to the shared network drive. The following status messages can appear:
 - Invalid Address: The address entered is not in a valid format. It must be entered as \\ipaddress\share\folder or \\hostname\share\folder ("folder" is optional in each case).
 - **Path Not Found:** The target server is reachable, but the folder is not found on the shared network drive.
 - **Disconnected:** The system cannot connect to the shared network drive because of an invalid address or username/password.
 - **Connected:** The system is successfully connected to the target server.
- 4. Move the Percent To Use slider to configure the targeted amount of the drive that should be used for archiving. The blue portion shows the amount of space used for this archiving configuration. The gray portion shows the unused space. The red portion shows the amount of space already used for other storage and archiving from other systems. You can select a percentage that includes the red portion, but that portion of the drive will not actually be used for archiving unless the stored data is deleted.
- 5. Click Apply to save the information that has been entered.
- 6. To activate the drive for storage of exacqVision data, select the Enabled checkbox.



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To configure an archive task schedule, complete the following steps in the Task Schedule section on the Target tab:

Name	Configuration
Archive Task 3	Name: Archive Task 3
Archive Task 4	Start Time: 02:00 AM
Weekday Archive	Start Time: 02:00 AM
Weekend Archive	End Time: O Continuous
	Until Finished Out Office
	03:00 AM
	Frequency
	C Weekend O Custom
	Sunday Monday
	V Tuesday 🔲 Wednesday
	Thursday 📄 Friday
	Saturday

- 1. Click New.
- 2. Enter a name for the archive task.
- 3. Select a Start Time.
- 4. Select an End Time. There are three types of end times:
 - **Continuous.** The system will scan for data to archive every five minutes. (See the note at the beginning of this section before selecting this option.)
 - **Until Finished.** Archiving will continue until all applicable data is archived. There will be no additional scans for data to archive until the start time on the next day.
 - **User Defined.** Archiving will end at the specified end time. Enter the time desired. If the archive period is not long enough to archive all applicable data, the remaining data will be archived during the next applicable task.

NOTE: The oldest applicable data will always be archived first. If you see a message in the Status section (see the next page) that indicate the archive didn't complete, consider increasing the length of the user-defined task. Also, any applicable data recorded while the archive task is in progress will be archived if there is enough time remaining in the task.

- 5. If you select Until Finished or User Defined, select a Frequency for the task. Custom allows you to select days of the week individually.
- 6. Click Apply.

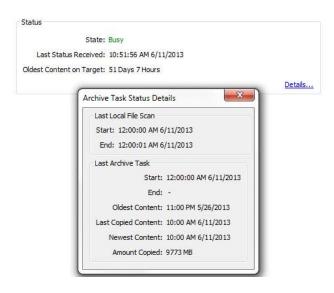
If desired, you can configure multiple archive tasks.







The Status section of the Target tab displays information about the current archive task:



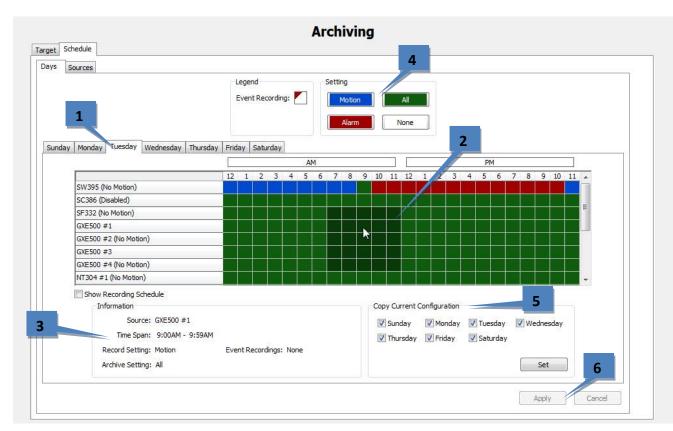
Click Details... to view additional details in the pop-up window.



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The Schedule tab on the Archiving page allows you to select the types of data and devices to archive:

On the Days tab, you can configure archiving of all data, motion video (which includes alarm video), or just alarm video. To change the Setting, complete the following steps:

- 1. Select the appropriate tab for the day of the week.
- 2. In the grid, draw a rectangle that corresponds to the hours for each device that you want to configure.
- 3. When you hover the cursor over a square, note the details displayed in the Information section.

NOTE: The Record Setting and the Archiving Setting do not have to be configured for the same type of data. For example, you could record Free Run video on a system at a certain time, but then archive only the motion video recorded during that period. However, if only motion/alarm video was recorded, the All setting on the archive page will cause only motion/alarm video to be archived. The amount of video available for archiving cannot exceed the amount of video recorded during that period.

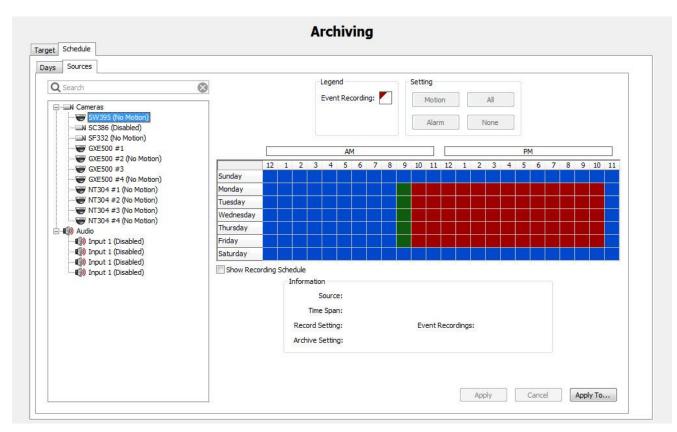
- 4. Select the appropriate Setting button.
- 5. To copy the schedule from one day of the week to another, select the appropriate days of the week in the Copy Current Configuration section, and then click Set.
- 6. Click Apply.







On the Sources tab, you can configure a separate archiving schedule for each device:



Simply select a device from the tree and then configure archiving the same way as described for the Days tab.

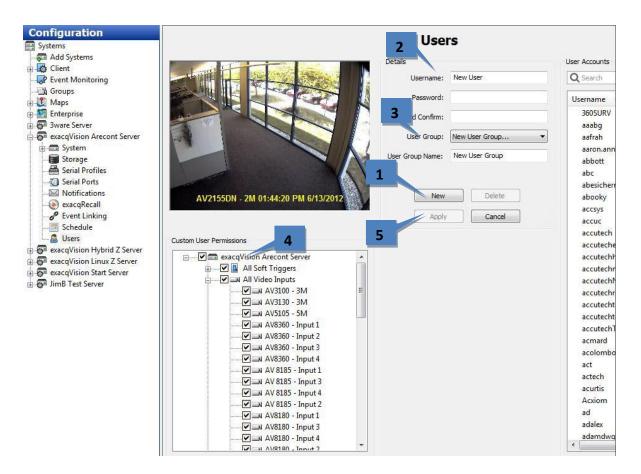
NOTE: You can apply the one device's schedule to another device by clicking Apply To...







Users



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:
 - Restricted: User can view live video and search recorded video.
 - Power User: User has administrative permissions, except for adding or deleting users.
 - Full Admin: User has full administrative permissions.
 - User Admin: User can view live video, search recorded video, and add/delete users.
- 4. 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 (if available) to allow the Custom User Permissions data to be edited.
- 5. When finished, click Apply.







Systems

3ware Server	00-1C-C0-A0-20-42						
		192.168.100.130 (3ware-server)	Connected.	Enterprise	Updates through 2017-04-13	4.11.2.31864	ALARM
JimB Test Server	00-11-11-64-86-2A	192.168.3.218	Connected.	Licensed	Updates through 2015-01-01	4.11.1.31740	NOT ENTERPRI
Professional (Internal)		192.168.100.77	Locating system.				
exacqVision AXIS Server	00-16-76-A8-E1-66	192.168.100.30	Login failed - invalid username				
exacqVision Arecont Server	r evArecontDemo	arecont.exacq.com (evarecontdem	Connected.	Enterprise	Updates through 2017-07-12	4.11.1.31740	ALARM
exacqVision Hybrid Z Server	r evHybridDemo	192.168.100.1 (evhybriddemo)	Connected.	Enterprise	Updates through 2017-07-08	4.10.6.31674	ALARM
exacqVision Linux Z Server	evLinuxDemo	linux.exacq.com (evlinuxdemo.exa	Connected.	Enterprise	Updates through 2017-06-08	4.10.6.31674	ALARM
exacqVision Start Server	evStartDemo	start.exacq.com	Connected.	exacqVision Start	Updates through 2017-03-13	4.10.6.31674	NOT ENTERPRI

The 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 Systems page, right-click any column header and select the column from the pop-up menu.

The following actions can be performed on the 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.



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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.



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Device

Configuration		Device	
System Storage Serial Profiles Serial Ports Notifications	Device Information Type: Exacq sDVR6516 Serial Number:	Temperature Monitor Threshold (Degrees Celsius): 60	
Auto Export Current Linking Schedule Exercise Content of the second		Apply Cancel	
Add IP Cameras Seace g0VR5516 P - A Camera Recording W Audio Inputs Trigger Inputs			
Alarm Outputs Gideo Output 1 Gideo Output 2 Storage Iff			

The Device page provides information about the compression board installed in exacqVision hybrid video servers that manages the analog video cameras connected to the systems. If a compression 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



The Client 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. Panel Size allows you to choose the aspect ratio of live video windows. The following options are available:
 - **Content** displays the video windows in the aspect ratio of the video as it is captured. If the majority of the displayed video is captured in 16x9, all video windows are shown 16x9.
 - Window uses the aspect ratio of the entire Live Page to determine the aspect ratio of the video windows.
 - **16x9** displays all video windows in 16x9.
 - **4x3** displays all video windows in 4x3.

NOTE: If the video windows are shown in 16x9, wide-screen layout buttons are not available at the top of the Live Page screen.

- 3. Keep Aspect Ratio During Resize maintains video aspect ratios when exacqVision Client is made larger or smaller.
- 4. Restore Client on User Attention Request displays a minimized client if an event occurs requiring user attention.
- 5. Enable Live Audio Lip Sync/Video Smoothing buffers up to five seconds of audio and video to ensure that they play back synchronized. This option can compensate for an intermittent video stream; however, it increases memory usage and video latency, so use it with caution.
- 6. Select Disable Windows Font Smoothing if fonts are not appearing as desired.

NOTE: The Mac version of exacqVision Client also contains Use a 24-Hour Clock on the Client page.



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NOTE: H.264 Deblocking (available to Administrators and Power Users) enables more detailed decompression on video displayed in exacqVision Client. Deblocking is available only on certain cameras. It is recommended that you select By Device, which enables deblocking on all cameras that stream deblocked video. Selecting Enabled will cause exacqVision to always perform de-blocking decompression even if the video stream is not actually deblocked. Enabling deblocking can reduce the maximum displayed frame rate, so use it with caution.



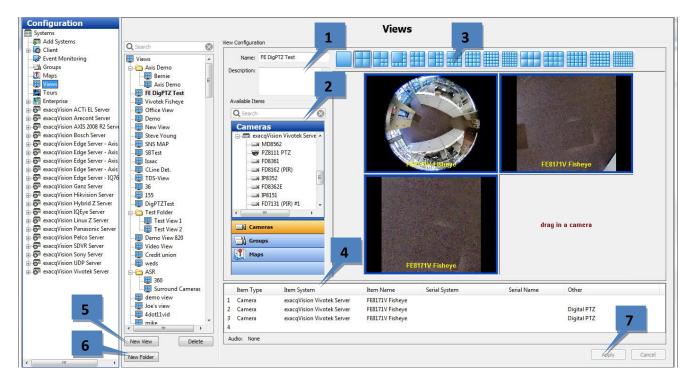
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Views

The Views page allows you to create and name combinations of cameras, groups, and maps that can be displayed with a single click.



The Views page allows you to do the following:

- 1. Change the name or description.
- 2. Search for cameras, groups, and maps and drag and drop them into the view.
- 3. Select a video window configuration.
- 4. View a list of items in the view and the system that they are associated with.
- 5. Create a new view.
- 6. Create a new folder. You can then drag and drop existing views into the folder.
- 7. Click Apply after you have finished configuring the view as desired.

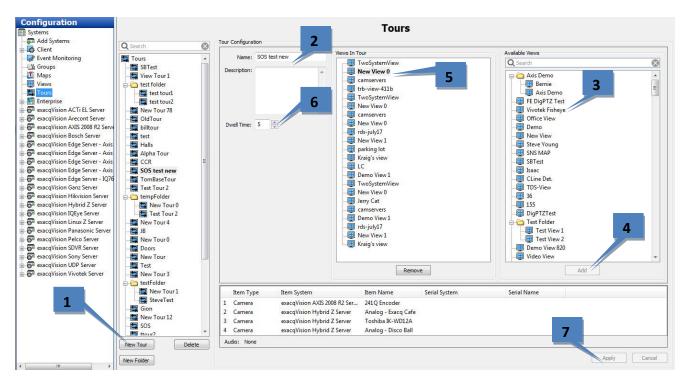






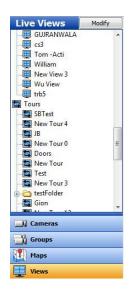
Tours

The Tours page allows you to configure an automated tour of camera views.



- 1. Click New Tour.
- 2. Enter a unique name and description for the tour.
- 3. Select a view from the Available Views list.
- 4. Click Add to include the view in the Views In Tour list. Repeat for additional views.
- 5. Drag and drop views to change their order in the list.
- 6. Select a Dwell Time. This is the amount of time, in seconds, that each view will be displayed.
- 7. Click Apply to save the camera view tour.

You can now activate the tour by clicking its name in the Live Views section of the site tree.



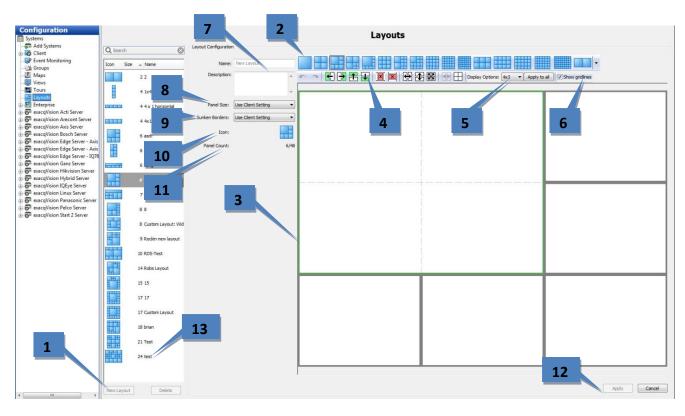


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Layouts

The Layouts page allows you to create custom video window layouts for use on the Live Page. Several basic layouts, such as 1x1, 2x2, and so on, are already available by default. Layouts are limited to a maximum of 48 panels. You can save and search camera views in a custom layout the same way as with default layouts.



To create a custom video window layout, complete the following steps:

- 1. Click New Layout.
- 2. Select the layout button that most closely resembles the custom layout that you want to create.
- 3. Select a video panel, or hold the Shift or Ctrl keys and select multiple video panels. Selected panels are outlined in green.
- 4. Select any of the configuration buttons. (These buttons are not activated until you select one or more panels.) Hover the cursor over each button to view a description of their functions. You can add or delete columns or rows, merge or split panels, and more. You can also merge two windows by clicking a corner of a panel and dragging it.
- 5. For each selected panel, select the display option (4x3 or 16x9) that corresponds to the type of camera that you would normally display in the panel. To activate the selected display option on all panels, select Apply to All.
- 6. Select Show Gridlines to compare the size of smaller windows within a larger window.
- 7. Enter a name and description for the custom layout.
- 8. Select the size of the entire layout from the Panel Size drop-down list. You can choose 4x3, 16x9, or use the setting automatically selected by the client based on the client window.
- 9. Select whether you would like to show or hide sunken borders, or automatically use the setting selected on the Client page.
- 10. The Icon indicator shows what the layout icon will look like on the Live Page.
- 11. Panel Count shows how many panels are included in the layout out of the maximum (48).
- 12. Click Apply to save the layout.
- 13. To edit a custom layout, select it from the layout list.

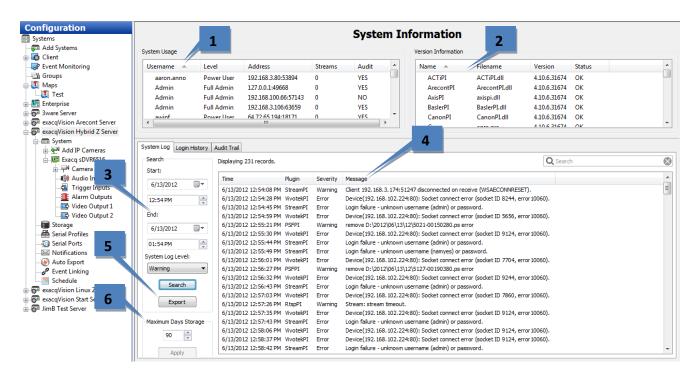


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System Information



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.









Live Page is the primary page for viewing live video.

- 1. Live Page Icon. This button opens the Live Page.
- 2. Video Window Formats. Select a video window layout. (Options vary based on settings on Client page.)
- 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. Information. Open the user manual, visit the Exacq Knowledge Base, and more.
- 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.



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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 currently displaying video when you do this.
- Drag and drop a server name into the layout panel. If the layout includes six video windows, the first six cameras from the server will be displayed.
- Press F3 or the joystick button to display the Find Camera dialog. Start typing the name of a connected camera, select the camera when you locate it in the list, and click OK. 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:	21		8
214 P	TZ		
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IPN2	IID-2161 102HD - fisheye		
NDN-	921 - P	111	•

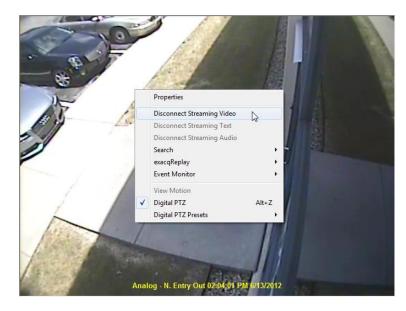






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You can delete a camera from the Video View Panel by right-clicking anywhere in the square and selecting Disconnect Streaming Video.



You can also access the Camera Settings page directly from Live Page by selecting 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.







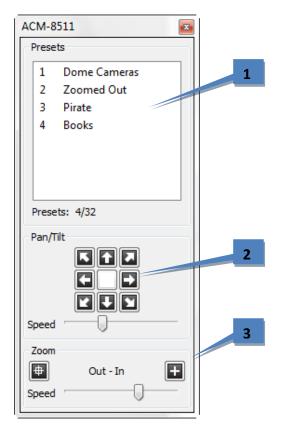
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PTZ Control

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.

Alternatively, you can click the PTZ Control Button to display the PTZ Control panel: Click the button to access the PTZ/preset panel. This panel is available only when a PTZ-enabled camera is displayed in a video window.

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



- 1. To move a camera to a preset, click the preset name.
- 2. To control pan and tilt, click the arrow buttons. Adjust the pan/tilt Speed slider if necessary.
- 3. To control zoom, click the Out or In button. Adjust the zoom Speed slider if necessary.

NOTE: Some cameras also provide iris and focus buttons, similar to the zoom buttons.

NOTE: You can alternatively 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.

NOTE: User-initiated PTZ commands have a higher priority than event linking PTZ commands, and both have a higher priority than PTZ preset tours. If two or more of these types of PTZ commands occur simultaneously, the command with the highest priority occurs and the other commands are ignored for the amount of the Resume Time configured in the PTZ Settings window available through the camera's setup page.



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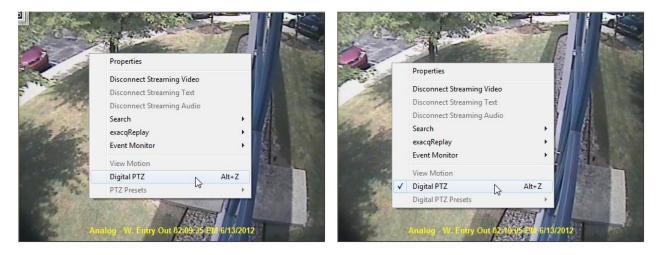
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Even without a PTZ camera, digital PTZ allows you to zoom in and pan around an image (if digital PTZ has not been disallowed during setup). To enable digital PTZ, right-click the video window and select Digital PTZ.

NOTE: On supported fisheye-enabled cameras, Digital PTZ is replaced by a Fisheye menu that can be used to dewarp video.



For directions on how to set up a Preset button, the "Camera Settings" section of this manual. In addition to calling presets using the PTZ/preset panel, you can use your mouse to access the PTZ presets by right-clicking anywhere in the camera's video window, selecting PTZ Presets, and then selecting the name of the preset.

	Properties		
AS	Disconnect Streaming Video		
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	Search	- + I	
12	exacqReplay	- + L	-
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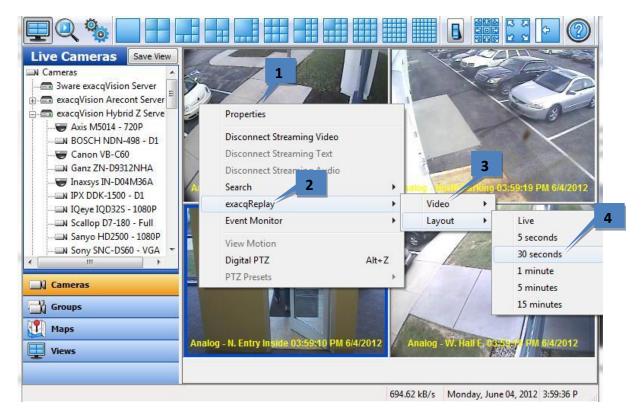




exacqReplay

exacqReplay allows you to quickly replay a limited amount of recorded video from a single camera or all cameras that are currently being viewed. You can review the most recently recorded video in increments of 5 or 30 seconds or 1, 5, or 15 minutes. To do this, complete the following steps:

- 1. Right-click the camera's video window.
- 2. Select exacqReplay from the pop-up menu.
- 3. Select whether you want to replay video from the selected video window or from all windows in the current layout.
- 4. Select the desired time increment.

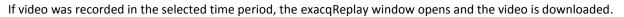








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- 1. The number of downloaded frames and total frames in the video segment are displayed in the status bar.
- 2. The green bar tracks the download progress. You can play and scrub through video that has been downloaded.
- 3. This button allows you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

NOTE: Live Page also allows you to run a quick search of video from the currently selected window or from all displayed video windows. To run a search from Live Page, right-click a video window, select Search from the popup menu, and select whether you want to search for video from the selected window or from all windows in the current layout. This procedure opens the Search Page with results from the last two hours from the selected camera or cameras. For more information on the Search Page and other methods for searching for video, see the "Search Page Overview" chapter.



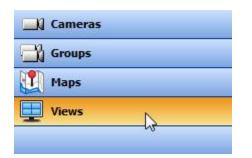
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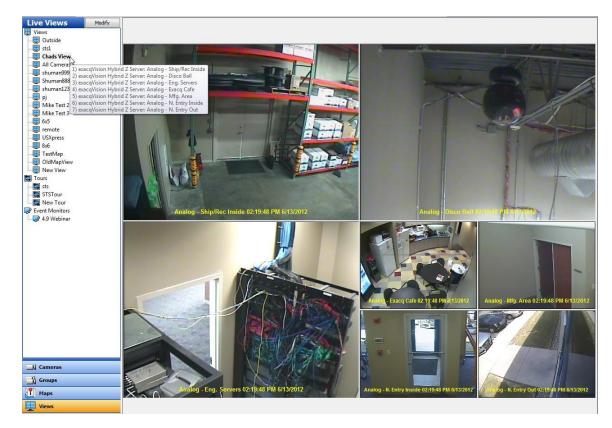
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Camera Views

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



This displays all configured views and view tours in the site tree. Select the view to display video from the cameras saved in the view. Notice how the camera names and systems included in the view are displayed when you hover over the view name in the site tree.



My Event Monitors is a list of profiles created on the Event Monitoring page. These profiles normally display a default view or tour. Whenever an event associated with the profile occurs, the view or tour selected as the Action Target on the Event Monitoring page is automatically displayed in place of the selected view.







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You can also create views directly 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 Save View window. Enter a name and description and click Save.

Name:	
Description:	
Save	Advanced Cancel

You can further configure a view by opening the Views page in one of the following ways:

- In the Save View window, click Advanced.
- Select a view in the Live Views panel and click Modify.

For more information about the Views page, see the "Views" section in the Config (Setup) Page Overview chapter.







6 Search Pag	e Overview	
	4	exacqVision
Search Cameras Sony SNC-RX570N - VGA Figineering 3 Analog - TV Cable Analog - St Hall S. Analog - N. Entry Vest Analog - N. Entry Vest Analog - TV Color Bars Analog - TV Color Bars Analog - N. Contry Out Analog - N. Parking PTZ Analog - N. Entry Out Analog - Stact Cole Analog - Stevens Analog - Stip/Rec Out Analog - Ship/Rec Out Analog - Ship/Rec Out Analog - Ship/Rec Out Analog - Ship/Rec Inside Analog - Sip/Rec Inside Analog - Sip/R		Analog - W. Entry Out 09:00:002704444 (6/13/2012)
Groups	6/13/2012	
Maps	Start Time: 08:36 AM 6/13/2012 Analog - Exacq Cafe Analog - N. Parking	
	End Time: 10:36 AM Analog - Disco Ball Analog - Mfg. Area Search Quick Export Analog - W. Entry	

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

- 1. Search Page. This button opens the Search Page and additional Search buttons.
- 2. **Timeline Search Mode.** This mode allows you to search for video from multiple cameras in a specified time range.
- 3. **Thumbnail Search Mode.** This mode allows you to search for video from one camera by viewing thumbnail images captured at specified intervals in a time range.
- 4. **Export Buttons**. These buttons, available only in Timeline Search Mode, include Save Picture, Export Video, Print Picture, and Burn Saved Files to CD or DVD.
- 5. Camera Selection Tree. This allows you to select cameras, audio, or data sources to search.
- 6. Video Playback Window. Video is played back here.

NOTE: When Thumbnail Search Mode is selected, the Smart Search and export buttons are replaced by video window layout buttons as described in the "Live Page Overview" section.

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







Search Serial	8 9	Analog - W. Entry Out 09:0	⁶⁰ 10	13/2012	1 12	13
Cameras	Search Range			0		
Groups	6/13/2012		i pi i	p i a p i a		
Maps	Start Time: 08:36 AM	Exacq Cafe	09:06:05	09:30	10:00	10:30
Views 17	6/13/2012	N. Parking PTZ				
events	End Time: 10:36 AM	Disco Ball Mfg. Area				14
19	Search Quick Export Analog	W. Entry Out	16	15		
Downloaded 0/565				3.56 kB/s	Wednesday, June 1	2 2012 2:20:15 PM

- 7. Navigation Pane. Display lists of individual cameras, camera groups, maps, views, or events to search for.
- 8. Search Range. Select a date and time for the start and end of the search period.
- 9. Video Playback Controls. Standard playback controls (left from right): step back, reverse 2x, reverse normal speed, pause, play normal speed, play 2x, step forward.
- 10. Start Download Button. Click this button to start or resume downloading video at the cursor location.
- 11. Scrub Bar. Quickly scrub back and forth through video.
- 12. 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.
- 13. **Stop Download Button.** Click this button to stop downloading video. Note that the download status indicator disappears when you press this button.
- 14. **Shift and Zoom Buttons.** Click the left or right arrows to shift the video timeline earlier or later. Click the Zoom In (plus) or Zoom Out (minus) buttons to decrease or increase the range of the video timeline.
- 15. Recorded Video Bar. These color-coded bars represent video that has been recorded.
- 16. Video Cursor. This shows where in the timeline the displayed video was captured.
- 17. Search Button. Click Search to find video based on the search settings.
- 18. **Quick Export**. This allows you to export video from the entire search result. If the entire result has not yet downloaded, the export occurs in a separate video window.
- 19. **Download Status**. This shows you how many frames have been downloaded and the total number of frames that meet the search criteria.



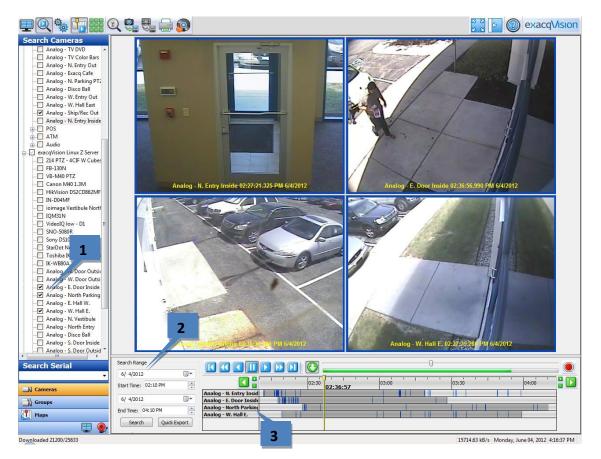




Searching for Video and Other Data

Timeline Search Mode

To perform a standard timeline search for video and other data, complete the following steps:



- 1. In the camera 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 a connected server are located in different time zones, the Client Time and Server Time options are also available. Search result listings are applicable to the selected time zone, and the time offset between the time zones is shown in parentheses.

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.

NOTE: Alternatively, you can perform a quick search on the Live Page by right-clicking a video window, selecting Search from the pop-up menu, and selecting whether you want to search for video from the selected window or from all windows in the current layout. That procedure opens the Search Page with results from the last two hours from the selected camera or cameras.



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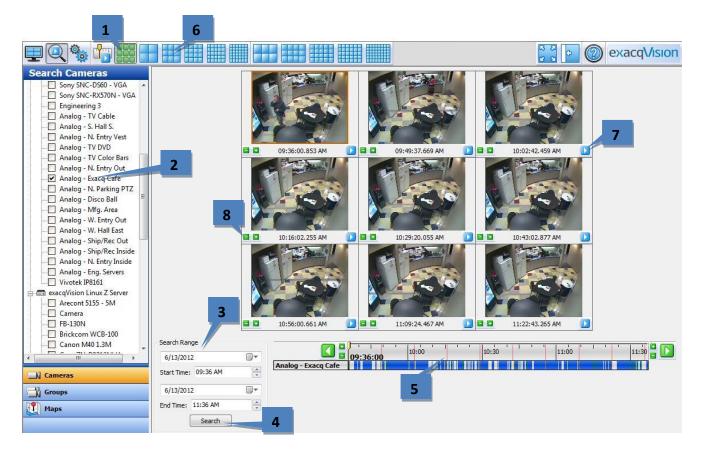
USA (Corporate Headquarters) Mexico Europe/Middle East/Asia

76

Thumbnail Search Mode

Thumbnail search mode allows you to visually scan for video from a single camera by viewing thumbnail images captured at specified intervals in a time range.

NOTE: Thumbnail Search Mode is available only when connected to an exacqVision system running exacqVision Server version 4.9 or later.



To perform a thumbnail search, complete the following steps:

- 1. Click the Thumbnail Search Mode button.
- 2. Select one camera from the camera selection tree.
- 3. Select a search range.
- 4. Click Search to display thumbnails of images captured at constant intervals during the search period.
- 5. The capture time of each thumbnail is represented on the timeline by vertical orange lines.
- 6. To display more or fewer thumbnails, select a video window layout.
- 7. To play video starting at a thumbnail image, either double-click the video window or click the play button under the image. If you immediately return to the Thumbnail Search Mode, the same thumbnails should be displayed.
- 8. To decrease the search range, click a Zoom In (plus) button in a video panel. To increase the search range, click a Zoom Out (minus) button in a video panel.

NOTE: Each video panel has a Zoom In and Zoom Out button. The thumbnail associated with the selected button becomes the center point of the increased or decreased search range.



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Video Playback



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

- 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 on the keyboard, click the first camera name in the range, and then click the final camera name in the range.
- 2. Click the play button to start displaying video at the beginning of the timeline.
- 3. 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.
- 4. To start or resume downloading video at the cursor location, click the Start Download button.
- 5. 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.
- 6. The area between the recorded video bars turn gray to show how much of each camera's video has been downloaded. To clear the downloaded video, right-click the timeline and select Clear Cache. You can clear the cache for the selected cameras or all cameras searched.
- 7. To stop video download, click the Stop button. All video downloaded before you pressed the Stop button can still be viewed.
- 8. To digitally zoom in on a single camera, double-click its video playback window. To return to the multicamera 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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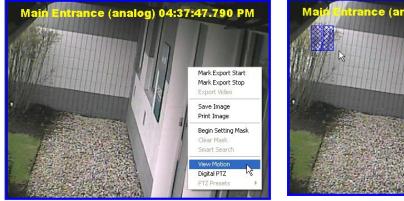
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78

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. If you searched from more than one serial device, data from each device is displayed on separate tabs. 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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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. To view the names of all cameras in the View, place the cursor over the view's entry in the tree.







Search Serial

The Search Serial drop-down list contains any key words associated with a profile configured on the Serial Profiles 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 Profiles 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 Ports 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	42	
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

NOTE: For information about the Quick Export button, see the first list in "Search Page Overview."

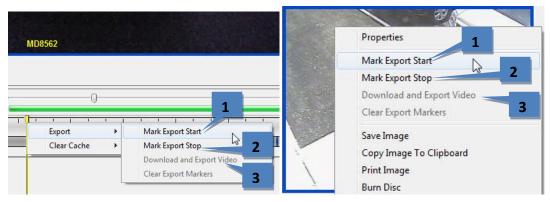
The Export buttons allow you to save a picture or video, print a picture, or save files to a CD or DVD (including DVD+R and DVD+RW). Left to right, the icons are Save Picture, Save Video, Print Picture, and Burn Saved Files to CD or DVD:



NOTE: You can also copy a picture to a clip board and paste it into a document. When you find the image you need, right-click 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 from a single camera on exacqVision Start, perform a video search and complete the following steps (note that serial data cannot be exported using this process):

- 1. Locate the start of the video clip. Right-click the timeline (or right-click the video window), select Export from the pop-up menu, and select Mark Export Start. 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), select Export from the pop-up menu, and select Mark Export Stop. 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, select Export from the pop-up menu, and select Download and Export Video. (You can clear the export start and stop markers by clicking Clear Export Markers from the same 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)	•	Cancel
	Standalone Exe (*.exe)	×	//_
	PS files (*.ps)		
	AVI Files (*.avi)	5	
	QuickTime files (*.mov)		

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	•	• with DivX decoder	•	•	•	• with DivX decoder
AVI MPEG4	• with DivX	• with DivX decoder	•	•	•	• with DivX decoder
AVI MPEG4 with ASP	• with DivX	• with DivX decoder	•	•	•	• with DivX decoder
AVI H.264	• with DivX	• with DivX decoder	•	•	•	• with DivX decoder
Quicktime MJPEG		٠	•	•	•	•
Quicktime MPEG4		٠	•	•	•	•
Quicktime MPEG4 with ASP		• with 3ivx MPEG4 decoder	•	•	•	• with 3ivx MPEG4 decoder
Quicktime H.264		٠	•	•	•	•

*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







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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	E	dit Disc Name	SSTcorp CD/DVDW TS-H5	52L _
Disc Contents	Size	Date Modified	Path	
Entrance May1	1.61 MB	6/1/2007 10:26:36 AM	C:\Documents and Setting:	s\HP_Adminis
Lobby (analog	743.90 KB	2/17/2007 03:25:27	C:\Documents and Setting:	
Status_exacqVi	0.30 KB	2/17/2007 03:50:52	C:\Documents and Setting:	· _
Status_exacqVi	0.30 KB		C:\Documents and Setting:	· _
✓ TV (analog).ex	1.05 MB	2/17/2007 03:39:23	C:\Documents and Setting:	s\HP_Adminis
✓ TV (analog)1.e	21.28 MB	2/17/2007 03:43:04	C:\Documents and Setting:	s\HP_Adminis
🗹 TV (analog)2.ps	14.99 MB	2/17/2007 03:49:34	C:\Documents and Setting:	s\HP_Adminis
🔽 TV (analog)3.exe	9.39 MB	2/17/2007 03:50:54	C:\Documents and Setting:	s\HP_Adminis
Open File	Delete File			Change Directory
Disc Info				
vpe: No Disc				

- 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.

Disc Burning Progress			
Burn Options ✓ Eject disc when done ✓ Remove original files after successful burn			
Burn Progress Press the burn button to start the disc burning process.			
Time Elapsed (hh:mm:ss): 00:00:00			
Cancel Burn			



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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.

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Fax:	+1-317-845-5720			
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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 4.6

• Initial version.

Release 4.7

- Updated Search Mode Overview chapter to reflect graphical and functional changes.
- 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.
- 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.
- Additional minor editing and clarification modifications.

Release 4.8

- 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 Camera Setup section to include new Post Motion recording feature.

Release 4.9

- Updated Storage Setup section to include tabbed layout and hardware monitoring features.
- Updated PTZ Control section to include a discussion about command priorities.
- Updated Camera Views section to include My Event Monitors.
- Updated Search Mode Overview and Video Playback sections with thumbnail feature and Start Download button.







Release 4.11

- Updated exacqReplay section to include export of full layout.
- Updated Search Page Overview section to include Quick Export feature.
- Updated Searching for Video and Other Data section to include note about quick search from Live Page.
- New screenshots throughout to show updated icons.
- Updated exacqVision page names.

Release 5.0

- Added Clear Cache option to Video Playback section.
- Updated Layout Panel section with modified Find Camera feature.
- Updated PTZ Configuration and PTZ Control sections with merged PTZ and preset windows.
- Updated System section with the Watchdog Timer tab.

Release 5.2

- Added Views and Tours sections.
- Updated PTZ sections for clarity.
- Updated Add IP Cameras section to include new layout.
- Updated Add Systems section to include new layout and Import/Export buttons.
- Updated System section to include modified System tab and new Hardware Monitoring tab.

Release 5.4

- Updated System section to include Update tab.
- Updated IP Camera Recording and Analog Camera Recording pages to include new layout.
- Update Serial Profile and Serial Port pages to include new layout and columns.
- Updated Client page to include audio/video synchronization option.

Release 5.6

- Updated Notifications section to include new layout and Attach Preview feature.
- Updated Schedule section to include new layout.
- Changed Search Archive page to Archive and documented expanded functionality.
- Added deblocking feature to Client section.
- Added Layouts section.

Release 5.8

- Modified Add Systems page to include central server database location feature.
- Modified Notifications section to include new supported tags.





