



# Powerful Video Surveillance Made Easy



exacqVision Video Solutions  
Single Camera to Enterprise



The exacqVision video management portfolio, comprised of video management software (VMS), network video recorders (NVR), and storage servers, is known for its ease of install and use, and low maintenance costs.

The powerful exacqVision VMS is available on factory-installed hybrid and IP servers, and works with a wide range of commercially available off-the-shelf servers. Its intuitive and powerful feature set make it an ideal choice for many security-conscious applications including those in education, corporate, retail and healthcare.



**exacqVision: Intuitive, Powerful, Cost-Effective Video Surveillance**

For more than a decade, the Exacq brand has been synonymous with reliable video management solutions that are highly intuitive and very cost-effective.

From small, single-camera systems to large, scalable deployments with thousands of cameras, the exacqVision portfolio provides an ideal security solution for nearly any application – particularly those requiring an uncomplicated installation process and intuitive user experience.

**Video Management Made Easy**

The exacqVision VMS is an easy-to-use, feature-rich system that lets customers easily manage live and recorded video, either for small stand-alone systems or for sprawling enterprise systems.

Every quarter, like clockwork, we release new features that are designed to help our global customers more effectively monitor video, audio and data in real time and reduce video review time to quickly conduct investigations.

For a unique Edge experience, exacqVision Edge VMS installs directly on any compatible IP camera to provide a complete solution without the need for a separate server.

Compatible with thousands of IP camera models and a large number of access control systems, point-of-sale (POS) systems, and retail and video analytics, the exacqVision VMS is one of the industry's most flexible solutions.

**Hybrid and IP Video Recorders Offer Customer-Centric Versatility**

The exacqVision line of hybrid and IP camera recorders provides a complete, out-of-the box video solution. Use exacqVision IP camera recorders for a pure IP solution or the versatile hybrid recorders to integrate analog and IP cameras for a customer-friendly way to move an existing analog surveillance system to the latest IP technology.

Hybrid and IP camera recorders are all scalable, cross-compatible and unified through the freely distributed exacqVision client software, and every exacqVision recorder comes with pre-loaded exacqVision VMS software and a 3-year warranty with a software subscription agreement.

Access to exacqVision recorders is also available through most Internet browsers and using the free Exacq Mobile app available for iOS, Android and Kindle Fire.

**Built-In Cybersecurity Controls**

The exacqVision solution not only protects your facility from physical threats, it's designed to defend against cyber threats as well. With built-in cybersecurity controls, safeguards are in place to guard against unauthorized access, simplify management of user accounts, facilitate least-privilege assignment of permissions and limit network exposure by controlling settings for ports, protocols and interfaces. The system will even send software update notifications so you can download the latest exacqVision security enhancements as soon as they're released.

Software specifications are subject to change without notice.	Start	Professional	Enterprise
<b>System</b>			
Max Cameras Per Server	16 Analog / 16 IP	64 Analog / 128 IP	64 Analog / 128 IP
Max Server Connections Per Client	1	512 (client) / 16 (web browser client)	512 (client) / 16 (web browser client)
Windows & Linux Server Compatibility	✓	✓	✓
Free Windows, Linux & Mac Clients	✓	✓	✓
Browser-Based Viewing of Live/Stored Events	✓	✓	✓
Compatible with Free Exacq Mobile App	✓	✓	✓
EasyConnect Auto-Detect/Connect to Compatible IP Cameras	✓	✓	✓
Fisheye/Panoramic Lens Support (Live & Recorded)	✓	✓	✓
Client Bandwidth Throttling	✓	✓	✓
Pre/Post Alarm Recording	✓	✓	✓
Soft Triggers	✓	✓	✓
Time-Lapse Recording		✓	✓
Extended Storage		✓	✓
Archiving		✓	✓
Per-Camera Min/Max Retention		✓	✓
Audit Trail		✓	✓
Custom User Groups		✓	✓
Third-Party Integrations		✓	✓
Smart Search		✓	✓
Email Notification for System Health Events		✓	✓
exacqVision Surveillance Keyboard Support		✓	✓
NVR Failover*			✓
Enterprise Camera Management			✓
Health Dashboard of exacqVision NVRs and Attached Cameras			✓
Advanced User Role Management			✓
Dynamic Client Connection Management			✓
Scheduled Configuration Backups and Recoveries			✓
Scheduled Version Updates			✓
LDAP/Active Directory			✓
Compatible with exacqVision Virtual Appliance			✓
<b>Live View</b>			
View Cameras on Multiple Monitors	✓	✓	✓
PTZ Control & Presets	✓	✓	✓
Digital PTZ Control & Presets	✓	✓	✓
Motion & Alarm Indication	✓	✓	✓
Event Linking on Discrete Inputs	✓	✓	✓
Event Linking on Video, Serial & Health Events		✓	✓
Event-Driven & Time-Lapse Video Switching		✓	✓
Camera Groups		✓	✓
Multi-Streaming		✓	✓
Two-Way Audio		✓	✓
Maps		✓	✓
VideoPush Video Wall			✓
Hierarchical Maps for Fast Camera Navigation			✓
Camera Inspection Workflow			✓
<b>Search, Export &amp; Archive</b>			
exacqReplay Instant Replay	✓	✓	✓
Thumbnail & Timeline Event Search	✓	✓	✓
POS & ATM Serial Text Search	✓	✓	✓
Multi-Camera Playback	✓	✓	✓
Export to .AVI, .MOV, .MP4 or .EXE File	✓	✓	✓
Bookmarking		✓	✓
Multiple Camera Export		✓	✓
Case Management			✓

Hardware configurations are subject to change without notice.	G-Series Micro	M-Series	LC-Series			ELP-Series	A-Series				Z-Series			
	IP	PoE	IP	Hybrid	PoE	IP and Hybrid		IP and Hybrid						
<b>Analog (for Hybrid models)</b>														
<b>Models/Form Factors</b>	IP	M-PoE	LC-IPS	LC-Hybrid	LC-PoE	ELP	ELPR	Desktop	2U	2U Front Accessible	4U	2U	4U	
<b>Analog Inputs</b>	N/A	N/A	N/A	8/16	N/A	8/16		8/16/32	16 looping/ 32 looping		16 looping/32 looping /48/64	16 looping/32	16 looping/32 looping /48/64	
<b>Analog Frame Rate</b>	N/A		240/480 (NTSC) 200/400 (PAL)	Optional with USB I/O Module		240/480 (NTSC) 200/400 (PAL)	240/480/960 (NTSC) 200/400/800 (PAL)	480/960 (NTSC) 400/800 (PAL)		480/960/1440/1920 (NTSC) 400/800/1200/1600 (PAL)		30/25 fps per input		
<b>Alarm Inputs/Outputs</b>	N/A		N/A			1	4 inputs TTL 2 outputs TTL & 1 relay	8 inputs TTL 3 outputs TTL & 1 relay	16 inputs TTL 15 outputs TTL & 1 relay		16 inputs TTL 15 outputs TTL, 1 relay			
<b>Analog Outputs</b>	N/A		N/A	1		1	1/2/2	2/2		2/2/4/4		2	2/2/4/4	
<b>Audio Inputs</b>	1		N/A	8/16		4	8/16/32		16					
<b>IP</b>														
<b>Max IP Cameras</b>	8	4 or 8 PoE	16		8 or 16 PoE	24		64				128		
<b>Included IP Camera Licenses</b>	2 Professional	4 or 8 (Start)	4 (Start)		8 or 16 (Start)	4		NVR = 4 IP licenses; Hybrid = 8 IP licenses (only 4 available with 8-channel desktop)				8		
<b>Alarm Inputs/Outputs</b>	None	4 or 8 inputs TTL 1 output (relay)	Optional with USB I/O Module			Optional with USB I/O Module		Optional with USB I/O Module				IP Server: 4 inputs TTL 1 output TTL, 1 relay Hybrid: 16 inputs TTL 15 outputs TTL, 1 relay	IP Server: 8 inputs TTL 3 output TTL, 1 relay Hybrid: 16 inputs TTL 15 outputs TTL, 1 relay	
<b>Server &amp; General</b>														
<b>Pre-Loaded VMS Software</b>	Professional/Enterprise (optional)	Start / Professional, Enterprise (Optional)	Start / Professional, Enterprise (optional)		Professional / Enterprise (optional)	Professional / Enterprise (optional)				Professional/Enterprise (optional)				
<b>Typical Video Storage Rate (Mbps)</b>	60	40	100	150	200	250 (Windows) 300 (Linux)	300 (Windows) 450 (Linux)	IP Server: 350 (Windows) 550 (Linux) Hybrid: 300 (Windows) 450 (Linux)	350 (Windows) 550 (Linux)		400 (Windows) 800 (Linux)	800 (Windows) 1200 (Linux)		
<b>Local Client Display Rate (FPS)</b>	Client use recommended only for configuration purposes	120 @ HD resolution	150 @ HD resolution 600 @ analog resolution	300 @ HD resolution	270 @ HD resolution	700 @ HD resolution (Windows), 900 @ HD resolution (Linux) 1800 @ analog resolution				Windows: 700 @ HD resolution/1800 @ analog resolution Linux: 900 @ HD resolution/1800 @ analog resolution				
<b>Max Storage</b>	1 TB	4 TB 4-ports 6 TB 8-ports	12 TB		6 TB (ELP) 12 TB (ELPR)	20 TB	30 TB	80 TB (RAID 5 optional)				96 TB RAID 5	240 TB RAID 6	
<b>Removable HD</b>	No	N/A	N/A		No	No	Yes	Yes		Yes				
<b>RAID Configuration</b>	N/A	N/A	N/A		N/A	N/A		RAID 5 optional				5	6	
<b>Operating System</b>	Ubuntu Linux 18.04	Debian 8	Ubuntu Linux 18.04		Ubuntu Linux 18.04	Windows 10 64-bit or Ubuntu Linux 18.04, Windows Server 2016 (Optional)				Windows 10 64-bit or Ubuntu Linux 18.04, Windows Server 2016 (Optional)				
<b>Operating System Location</b>	HDD	Flash drive	HD		120 GB SSD	120 GB SSD				120 GB SSD (Windows and Linux)				
<b>Monitor Output</b>	HDMI, Mini DP	HDMI, VGA (duplicate output)	1 DVI-D + 1 HDMI + 1 DisplayPort + VGA (max 2 simultaneous)		1 DVI-I + 1 HDMI +1 VGA + 1 DisplayPort (max 2 simultaneous monitors)	Most systems: 1 DVI-D + 1 HDMI + 1 DisplayPort + 1 VGA For 4U Hybrid systems and systems with certain upgrade options: 1 DVI-D + 1 HDMI + 1 VGA				1 DVI-D + 1 HDMI +1 VGA (max 2 simultaneous monitors)				
<b>NIC</b>	2 x 1 Gbps	2x1 Gbps	2 x 1 Gbps (IP) 1 x 1 Gbps (analog)	2 x 1 Gbps	2 x 1 Gbps	2, 4 (optional on all IP servers and 4U Hybrids)				2x1 Gbps (standard) / 2x10 Gbps SPF+ (optional)				
<b>Redundant Power Supply</b>	None	No	No		No	No	No	Optional				Yes (Hot Swap)		
<b>Serial</b>	1	N/A	N/A		RS-485 (Hybrid systems)	RS-485 (Hybrid systems)				RS-485				
<b>Audio Outputs (Server)</b>	1	1	1		1	1				1				
<b>Kantech-Onboard Integration</b>	N/A	N/A	N/A		N/A	Yes, Windows models only				Yes, Windows models only				

All recorders include a 3-year warranty and 3 years of software updates

## Enterprise Management

EM-Series	
<b>Max Video Recorders</b>	2000
<b>Pre-Loaded Software</b>	Enterprise Manager
<b>Max Storage</b>	4 TB
<b>Removable HD</b>	Yes
<b>RAID Configuration</b>	RAID 6
<b>Operating System</b>	Windows Server 2016, Ubuntu Linux 18.04
<b>Operating System Location</b>	128 GB SSD
<b>Monitor Output</b>	1 DVI-D + 1 HDMI + 1 VGA (max 2 simultaneous monitors)
<b>NIC</b>	2 x 1Gbps
<b>Redundant Power Supply</b>	Yes



## Networked Video Storage

S-Series		
Form Factor	Enterprise 2U	Enterprise 4U
<b>Archiving - Max Video Recorders</b>	32	64
<b>Archiving - Max Data Rate (Mbps)</b>	1500 Mbps with dual NIC bonding / 2000 Mbps with optional tri NIC bonding	
<b>Archiving - Designed for Enterprise Manager</b>	✓	✓
<b>Ext. Storage - Max Video Recorders</b>	32	64
<b>Ext. Storage - Max Data Rate (Mbps)</b>	350	500
<b>Ext. Storage - Designed for Enterprise Manager</b>	✓	✓
<b>Ext. Storage - Minimum Video Recorder OS</b>	Ubuntu Linux 18.04	
<b>Pre-loaded VMS Software</b>	exacqVision Storage Enterprise	
<b>Enterprise Manager Monitoring Compatible</b>	✓	✓
<b>Storage Maximum (Internal)</b>	96 TB RAID 5	240 TB RAID 6
<b>NIC</b>	3x1 Gbps (2 for storage, 1 for management) or 4x1 Gbps (optional)	
<b>Operating System</b>	Ubuntu Linux 16.04	
<b>Redundant Power Supply</b>	Dual Hot Swap	



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## About Johnson Controls

Johnson Controls is a global diversified technology and multi-industrial leader serving a wide range of customers in more than 150 countries. Our 120,000 employees create intelligent buildings, efficient energy solutions, integrated infrastructure and next generation transportation systems that work seamlessly together to deliver on the promise of smart cities and communities. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat.

For additional information about Exacq, please visit [www.exacq.com](http://www.exacq.com) or follow us on Facebook, Twitter, and LinkedIn.