VideoXpert™ Professional v 1.2

SURVEILLANCE SYSTEMS FOR SMALL AND MID-SIZED INSTALLATIONS

Product Features

- "VideoXpert in a box" functionality for small to mid-sized sites
- Simple setup / IT-Friendly — designed for Unicast or multicast environments using Microsoft® Windows® for easy configuration and maintenance
- Available in different hardware configurations to support the needs of different sites
- Up to 450 Mbps throughput per recorder
- Supports attached storage (NAS) to extend video retention
- Includes VxToolbox for simple configuration of one or more servers
- Includes pre-defined roles for easy user creation
- Software extensible through plug-ins including mapping, information overlays (eConnect), and license plate recognition (PlateSmart)
- Supports aggregation through a VxUltimate 2.0 system
- Supports ONVIF S compliant 3rd-party cameras and devices



- Investigation mode enables operators to synchronize video playback and export investigative playlists covering scenes of interest
- Monitor multiple VxPro sites with a single client
- Supports shared displays so operators can send video to surveillance personnel who need it most
- A la carte design allows you to order software, hardware with licensing, or a complete solution with loaded hardware and maintenance licensing
- Server models support Dell iDRAC and OpenManage tools

VideoXpert Professional is a video management system (VMS) in a single box, designed for easy setup and robust monitoring in small or moderately sized applications. Designed for Windows platforms, VxPro is easy to install, quick to setup, and provides an intuitive interface that helps operators make sense of video captured by the system.

Available in various tailor-made hardware solutions or in software distributions to support your existing VMS infrastructure, VxPro provides options to ensure you get exactly the Video Management system you need — no more, no less. VxPro provides options to support the throughput you need, and different amounts of storage in RAID 6, RAID 5, or JBOD arrangements to fit your needs for retention, redundancy, and fault tolerance. Software licenses operate in terms of channels, so you don't overpay for the solution you need. The system supports unicast and multicast transmission modes, easily adapting to your network scheme.

Server models also include Dell's iDRAC (integrated Dell Remote Access Controller) platform and support for Dell's OpenManage tools, allowing administrators to remotely configure and support VxPro servers, reducing the need for physical access to the server. Using the iDRAC controller, you can monitor hardware and receive email alerts via SNMP.

VxPro includes VideoXpert Toolbox, an easy-to-use Windows application enabling users to quickly and easily configure an entire network of servers and cameras locally or remotely. VxPro has pre-defined roles, designed around standard surveillance operations, making user creation and assignments quick and easy.

The included VideoXpert OpsCenter client software provides an easy to use interface, so you can use VideoXpert with little to no training. You can operate VxOpsCenter clients in multi-server access mode, allowing one workstation to access multiple servers, scaling your surveillance solution. The client allows you to switch between live and recorded video on the fly, and supports pop-up on alarm functionality, enabling VxPro to alert you to events that require your attention. The VxOpsCenter provides an Investigation Mode, through which you can create playlists from video clips encompassing important scenes. You can then export and encrypt your investigations, storing clips relevant to your investigation for evidentiary safe-keeping and quick access. VxOpsCenter also supports modular plugins, providing integrated functionality from external systems, including informational overlays, license plate recognition (LPR), analytics, and a built-in mapping application.

VideoXpert can integrate with physical security and other building systems to deliver situational awareness and control. Built around open standards, VideoXpert includes a complete application programing interface (API), software development kit (SDK), and dedicated technical support, allowing other systems' manufacturers to develop interfaces leveraging VideoXpert's capabilities. VideoXpert also supports third-party IP cameras, allowing you to choose from hundreds of camera options from Pelco and 3rd-party partners when configuring a system.

PELCO™

ONVIF | S

C4050S-A / REV 02-05-18

HARDWARE		Power Server	Flex Server	Eco Server	Workstation
Form Factor		Rack (2RU)	Tower	Tower	
Processor		Intel® Xeon® E5-2620 v4	Intel® Xeon® E3-1230 v5	Intel® Xeon® E3-1220 v5	Intel® Core™ i7-6700
Memory		16 GB DDR4		8 GB DDR4	
Operating System		Windows® 10 IoT Enterprise 64-bit (LTSB)			
OS Drive		SSD 200 GB	SSD 120 GB		m.2 256 GB
Storage	[1]Max	28 TB (7200 RPM)	28 TB (7200 RPM)	12 TB (7200 RPM)	None
	[2]RAID Level	6 / 5 / JBOD		5 / JBOD	N/A
Optical Drive		DVD+RW			
Dell iDRAC Controller		Included			N/A
USB Ports	USB 2.0	2x Front; 1x Rear	1x Front; 4x Rear	2x Front; 2x Rear	1x Front; 4x Rear
	USB 3.0	1x Rear	1x Front; 2x Rear	2x Front	2x Front; 2x Rear
	USB-C	N/A			1x Front

[1] Maximum storage based on JBOD configuration
[2] RAID level is user configurable

MINIMUM SYSTEM REQUIREMENTS[3]	Power Server	Flex Server	Eco Server	Workstation
Processor	Intel® Core™ i5			64-bit CPU
Memory	8 GB			8 GB
Operating System	Windows® 7 64-bit, Windows® 10 64-bit, or Windows® Server 2012			

[3] Software distributions tested without antivirus software installed.

VIDEO	Power Server	Flex Server	Eco Server	Workstation
Video Outputs	DisplayPort, DVI			2x DisplayPort, HDMI
Video System		NVIDIA Quadro K620 (2 GB memory)	NVIDIA Quadro K620 (2 GB memory)	Intel HD Graphics 530 (shared memory)
Video Max Resolution per output type	3840 x 2160 at 60Hz (DP 1.2 direct connect)			4096x2304@24Hz (HDMI 1.4)
	2560 x 1600 at 60Hz (DVI-D DL direct connect)			4096x2304@60Hz (DP)
	1920 x 1200 at 60Hz (DVI-I SL via adapter)			
	2048 x 1536 at 85Hz (VGA via adapter)			
Video Standards				60 Hz capable for NTSC
				75 Hz capable for PAL

AUDIO		Power Server	Flex Server	Eco Server	Workstation
Inputs		Microphone In, Line In			Universal Audio Jack (front)
Outputs		Headphone / Front Out, Rear Out, Center / Subwoofer, DisplayPort Audio			Universal Audio Jack (front), Line Out (rear), Internal Speaker, DisplayPort Audio, HDMI Audio
Connector types		3.5mm (In/Out), DP Cable (Out)			3.5mm 4 pole (In/Out), 3.5mm 3 pole (Out), DP cable (Out), HDMI Cable (Out)

NETWORKING	Power Server	Flex Server	Eco Server	Workstation
Gigabit Ethernet (1000Base-T) ports	4x	2x		1x
Recording Throughput	Up to 450 Mbps		Up to 200 Mbps	N/A

POWER	Power Server	Flex Server	Eco Server	Workstation
Input	100–240 VAC, autoranging, 50/60 Hz			90-264 VAC, 47 Hz - 63 Hz, 3 A / 1.5 A
Supply	Internal 450 W (Bronze), Dual Hot Swappable 495 W (Platinum)	Internal 350 W (Bronze)	Internal 290 W (Bronze)	Internal 180W
	NOTE: This system is also designed to be connected to IT power systems with a phase-to-phase voltage not exceeding 230 V.			
Consumption	1871 BTU/hr maximum (450 W power supply), 1908 BTU/hr maximum (495 W power supply)	1357 BTU/hr maximum (350 W power supply)	989 BTU/hr maximum (290 W power supply)	614 BTU/hr maximum (180 W power supply)
	Note: Heat dissipation is calculated by using the power supply wattage rating.			

ENVIRONMENTAL	Power Server	Flex Server	Eco Server	Workstation
Operating Temperature	10°C to 35°C (50°F to 95°F) with no direct sunlight on the equipment.			0°C to 35°C (32°F to 95°F)
	Note: Maximum temperature is reduced by 1°C/300 m (33.8°F/984.25 ft) above 950 m (3,117 ft)			
Non-Operating Temperature	–40°C to 65°C (–40°F to 149°F)			–40°C to 65°C (–40°F to 149°F)
Operating Relative Humidity	5% to 95% RH with 33°C (91°F) maximum dew point. Atmosphere must be non-condensing at all times.			10 % to 90 % (non condensing)
Non-Operating Relative Humidity	10% to 80% Relative Humidity with 29°C (84.2°F) maximum dew point.			5 % to 95 % (non condensing)
Operating Altitude	Maximum of 3048 m (10,000 ft)			–15.2 m to 3048 m (–50 to 10,000 ft)
Operating Vibration	0.26 Grms at 5 Hz to 350 Hz (operation orientations)			0.66 GRMS

PHYSICAL	Power Server	Flex Server	Eco Server	Workstation
Dimensions (D x W x H)	64.8 x 43.4 x 8.68 cm (26.3 x 17.1 x 3.4 in) without rack ears	55.86 x 21.8 x 43.03 cm (22.77 x 8.58 x 17.04 in)	36 x 17.5 x 43.5 cm (14.17 x 6.89 x 17.12 in)	29.0 x 29.2 x 9.26 cm (11.4 x 11.5 x 3.6 in)
Rack Mounting (RU)	2 RU	N/A		
Unit Weight	28.2 kg (62 lb) [varies by configuration]	26.02 kg (57.32 lb) [varies by configuration]	11.1 kg (24.47 lb) [varies by configuration]	5.14 kg (11.42 lb) [varies by configuration]

VIDEOXPERT PLAYER

The VideoXport player decrypts, validates, and plays-back secured exports from VideoXpert. You can download the player directly from VideoXpert along with an exported video file or you can download it from Pelco.com.

These are the minimum system requirements for non-VideoXpert machines running the VideoXport player:

Hardware Requirements	Dual Core i5 2.67 GHZ 4 GB RAM 200+ GB of free HDD space or more GPU that supports OpenGL 3.0 or higher 1024 x 768 or higher screen resolution 100/1000 Ethernet Network Interface Card Sound Card
Software Requirements	Windows 7 Pro or Ultimate 64 bit or higher .NET 4.6.1 or higher OpenGL 3.0 or higher Direct3D 9 or higher

CERTIFICATIONS

- CE (Class A)
- FCC, Part 15 (Class A)
- ICES-0003 (Class A)
- UL/cUL Listed
- C-Tick
- CCC
- KCC
- NOM

STANDARDS/ORGANIZATIONS

- Pelco is a member of the MPEG-4 Industry Forum
- Pelco is a member of the Universal Plug and Play (UPnP) Forum, Steering Committee
- Pelco is a member of the Universal Serial Bus (USB) Implementers Forum
- Pelco is a contributor to the International Standards for Organization / Electrotechnical Commission (ISO/IEC) Joint Technical Committee 1 (JTC1), "Information Technology," Subcommittee 29, Working Group 11
- Compliance, ISO/IEC 14496 standard (also known as MPEG-4)
- Compliance, International Telecommunication Union (ITU) Recommendation G.711, "Pulse Code Modulation (PCM) of Voice Frequencies"
- Compliance, Open Network Video Interface Forum (ONVIF) Profile S



WORKSTATION



POWER SERIES



FLEX SERIES

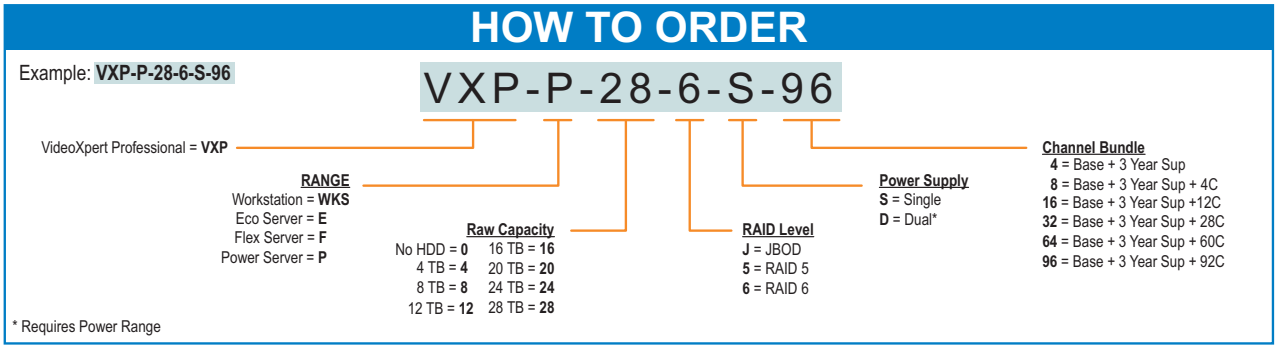


ECO SERIES

HOW TO ORDER

Use the following table to create a model number for your VideoXpert hardware and/or software package. Your model number consists of the VxPro range, capacity, RAID-level, single/dual power supply, and quantity of bundled licenses. The bundled licenses are the four base licenses plus additional purchased licenses. For example, a VxPro Power Server with 28 TB in a RAID 6 configuration with single power supply and a 96-channel licenses (4 base + 92 purchased) uses the model number **VXP-P-28-6-S-96**.

The chart below lists the full range of features. Capacity, RAID level, dual power supply, and channel bundle requirements may be limited by the product range you select. Workstations come in a single configuration and do not require capacity, RAID, power supply, or channel bundle designations.



SOFTWARE LICENSES

With VideoXpert Professional, you only pay for the devices you want to use with your system. Each camera or audio device in a VideoXpert Pro environment consumes a "channel" license. Each channel license includes a 1 year SUP. Order VXP-BASE with 4 channels to quickly get started; you can add additional channel licenses, either one at a time or in bundles, after that. Use the table below to determine the license packages you will need to support your environment.

License / Camera Count	Description
VXP-BASE	Base VideoXpert Pro license including 4 channel licenses plus one year SUP
VXP-1C	1 camera license for VideoXpert Pro plus one year SUP
VXP-4C	4 camera license for VideoXpert Pro plus one year SUP
VXP-8C	8 camera license for VideoXpert Pro plus one year SUP
VXP-16C	16 camera license for VideoXpert Pro plus one year SUP
VXP-32C	32 camera license for VideoXpert Pro plus one year SUP
VXP-64C	64 camera license for VideoXpert Pro plus one year SUP
VXP-96C	96 camera license for VideoXpert Pro plus one year SUP
VXP-SUP-1Y	1 Year Software Upgrade Plan, 1CH
VXP-SUP-3Y	3 Year Software Upgrade Plan, 1CH
VXP-SUP-1D	1 Day Software Upgrade Plan, 1CH

Model	Range	Raw Capacity (TB)	RAID Level (6 / 5 / JBOD)	Power Supply (Single/Dual)	Channel Bundle (Optional)*
VXP-P-28-6-D	Power	28 TB	RAID 6	Dual	–
VXP-P-28-6-S	Power	28 TB	RAID 6	Single	–
VXP-P-28-6-S-16	Power	28 TB	RAID 6	Single	16
VXP-P-28-6-S-32	Power	28 TB	RAID 6	Single	32
VXP-P-28-6-S-64	Power	28 TB	RAID 6	Single	64
VXP-P-28-6-S-96	Power	28 TB	RAID 6	Single	96
VXP-P-28-5-D	Power	28 TB	RAID 5	Dual	–
VXP-P-28-5-S	Power	28 TB	RAID 5	Single	–
VXP-P-28-5-S-16	Power	28 TB	RAID 5	Single	16
VXP-P-28-5-S-32	Power	28 TB	RAID 5	Single	32
VXP-P-28-5-S-64	Power	28 TB	RAID 5	Single	64
VXP-P-28-5-S-96	Power	28 TB	RAID 5	Single	96
VXP-P-28-J-S	Power	28 TB	JBOD	Single	–
VXP-P-28-J-S-16	Power	28 TB	JBOD	Single	16
VXP-P-28-J-S-32	Power	28 TB	JBOD	Single	32
VXP-P-28-J-S-64	Power	28 TB	JBOD	Single	64
VXP-P-28-J-S-96	Power	28 TB	JBOD	Single	96
VXP-P-20-5-S	Power	20 TB	RAID 5	Single	–
VXP-P-20-5-S-16	Power	20 TB	RAID 5	Single	16
VXP-P-20-5-S-32	Power	20 TB	RAID 5	Single	32
VXP-P-20-5-S-64	Power	20 TB	RAID 5	Single	64
VXP-P-20-5-S-96	Power	20 TB	RAID 5	Single	96
VXP-P-20-J-S	Power	20 TB	JBOD	Single	–
VXP-P-20-J-S-16	Power	20 TB	JBOD	Single	16
VXP-P-20-J-S-32	Power	20 TB	JBOD	Single	32
VXP-P-20-J-S-64	Power	20 TB	JBOD	Single	64
VXP-P-20-J-S-96	Power	20 TB	JBOD	Single	96
VXP-P-8-J-S	Power	8 TB	JBOD	Single	–
VXP-P-8-J-S-16	Power	8 TB	JBOD	Single	16
VXP-P-8-J-S-32	Power	8 TB	JBOD	Single	32
VXP-P-8-J-S-64	Power	8 TB	JBOD	Single	64
VXP-P-0-6-D	Power	0 TB	RAID 6	Dual	–
VXP-P-0-J-S	Power	0 TB	JBOD	Single	–
VXP-F-28-6-S	Flex	28 TB	RAID 6	Single	–
VXP-F-28-6-S-16	Flex	28 TB	RAID 6	Single	16
VXP-F-28-6-S-32	Flex	28 TB	RAID 6	Single	32
VXP-F-28-6-S-64	Flex	28 TB	RAID 6	Single	64
VXP-F-28-5-S	Flex	28 TB	RAID 5	Single	–
VXP-F-28-5-S-16	Flex	28 TB	RAID 5	Single	16
VXP-F-28-5-S-32	Flex	28 TB	RAID 5	Single	32
VXP-F-28-5-S-64	Flex	28 TB	RAID 5	Single	64
VXP-F-28-J-S	Flex	28 TB	JBOD	Single	–
VXP-F-28-J-S-16	Flex	28 TB	JBOD	Single	16
VXP-F-28-J-S-32	Flex	28 TB	JBOD	Single	32
VXP-F-28-J-S-64	Flex	28 TB	JBOD	Single	64
VXP-F-20-5-S	Flex	20 TB	RAID 5	Single	–
VXP-F-20-5-S-16	Flex	20 TB	RAID 5	Single	16
VXP-F-20-5-S-32	Flex	20 TB	RAID 5	Single	32
VXP-F-20-5-S-64	Flex	20 TB	RAID 5	Single	64
VXP-F-20-J-S	Flex	20 TB	JBOD	Single	–
VXP-F-20-J-S-16	Flex	20 TB	JBOD	Single	16

Model	Range	Raw Capacity (TB)	RAID Level (6 / 5 / JBOD)	Power Supply (Single/Dual)	Channel Bundle (Optional)*
VXP-F-20-J-S-32	Flex	20 TB	JBOD	Single	32
VXP-F-20-J-S-64	Flex	20 TB	JBOD	Single	64
VXP-F-8-J-S	Flex	8 TB	JBOD	Single	–
* Channel bundles include 3 years of support and updates.					
VXP-F-8-J-S-8	Flex	8 TB	JBOD	Single	8
VXP-F-8-J-S-16	Flex	8 TB	JBOD	Single	16
VXP-F-8-J-S-32	Flex	8 TB	JBOD	Single	32
VXP-F-4-J-S	Flex	4 TB	JBOD	Single	–
VXP-F-4-J-S-8	Flex	4 TB	JBOD	Single	8
VXP-F-4-J-S-16	Flex	4 TB	JBOD	Single	16
VXP-F-4-J-S-32	Flex	4 TB	JBOD	Single	32
VXP-F-0-J-S	Flex	0 TB	JBOD	Single	–
VXP-E-12-J-S	Eco	12 TB	JBOD	Single	–
VXP-E-12-J-S-4	Eco	12 TB	JBOD	Single	4
VXP-E-12-J-S-8	Eco	12 TB	JBOD	Single	8
VXP-E-12-J-S-16	Eco	12 TB	JBOD	Single	16
VXP-E-8-J-S	Eco	8 TB	JBOD	Single	–
VXP-E-8-J-S-4	Eco	8 TB	JBOD	Single	4
VXP-E-8-J-S-8	Eco	8 TB	JBOD	Single	8
VXP-E-8-J-S-16	Eco	8 TB	JBOD	Single	16
VXP-E-4-J-S	Eco	4 TB	JBOD	Single	–
VXP-E-4-J-S-4	Eco	4 TB	JBOD	Single	4
VXP-E-4-J-S-8	Eco	4 TB	JBOD	Single	8
VXP-E-4-J-S-16	Eco	4 TB	JBOD	Single	16
VXP-E-0-J-S	Eco	0 TB	JBOD	Single	–
VXP-WKS	Workstation	–	–	–	–

*Channel bundles include 3 years of support and updates.

SUPPLIED ACCESSORIES

- Keyboard†
- Mouse†
- USB drive containing resource and recovery information
- Rack mount kit (Power Series only)
- US, UK, and EU power cords (for applicable models)

†Not included with Power Series (VXP-P) models.

OPTIONAL ACCESSORIES

VXP-KIT-4TB	4 TB hard disk drive with carrier

VXP-WKS CLIENT OPTIONAL ACCESSORIES

3DX-600-3DMOUSE	Enhanced 3D mouse and joystick
Y-U0023-G910KBD	Enhanced keyboard
A1-KBD-3D-KIT2	Enhanced keyboard and 3D mouse combination kit

OPTIONAL POWER ACCESSORIES

PWRCRD-S-AR	Standard power cord, Argentina
PWRCRD-S-AU	Standard power cord, Australia
PWRCRD-S-EU	Standard power cord, Europe
PWRCRD-S-UK	Standard power cord, United Kingdom
PWRCRD-S-US	Standard power cord, United States
PWRCRD-R-AR	Round power cord, Argentina
PWRCRD-R-AU	Round power cord, Australia
PWRCRD-R-EU	Round power cord, Europe
PWRCRD-R-UK	Round power cord, United Kingdom
PWRCRD-R-US	Round power cord, United States

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