

# VideoXpert™ Professional v 2.5

## 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, and also supports granular editing of user permissions
- Motion Pixel Search for server side motion detection and quick retrieval of events
- 4k/H.264 and H.265 support
- VxPortal web based client allows viewing and exporting video without installing any software
- Reports can now be run from VxToolbox
- Check on VMS and camera health using SNMP (available as a free, separate download)

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 use video captured by the system.

VxPro is available in tailor-made hardware solutions or in software distributions to support your existing VMS infrastructure, 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.



- Legacy “device tree” view available in VxOpsCenter
- Software extensible through plug-ins including mapping, information overlays (eConnect), and license plate recognition (PlateSmart)
- Supports aggregation through VideoXpert Enterprise system with aggregation
- Supports ONVIF Profile 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 and/or hardware
- Server models support Dell iDRAC and OpenManage tools

VxPro includes VxToolbox, 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 VxOpsCenter 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. 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.

Built around open standards, VideoXpert includes a complete application programming interface (API), software development kit (SDK), and dedicated technical support, allowing other systems' manufacturers to develop interfaces leveraging VideoXpert's capabilities.

# TECHNICAL SPECIFICATIONS

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	<sup>1</sup> Max	28 TB (7200 RPM)	28 TB (7200 RPM)	12 TB (7200 RPM)	None
	<sup>2</sup> 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	1x Front; 4x Rear	2x Front; 2x Rear
	USB 3.0	1x Rear	1x Front; 2x Rear	1x Front; 2x Rear	1x Front; 4x Rear
	USB-C	N/A			1x Front
<sup>1</sup> Maximum storage based on JBOD configuration <sup>2</sup> RAID level is user configurable					

MINIMUM SYSTEM REQUIREMENTS <sup>3</sup>		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 or 2016 <sup>4</sup>			
Browsers		Current version of Google Chrome, Mozilla Firefox, and Microsoft Edge			
<sup>3</sup> Software distributions tested without antivirus software installed. <sup>4</sup> Although server OS is supported, VxOpsCenter is not supported in the server OS.					

VIDEO	Power Server	Flex Server	Eco Server	Workstation
Video Outputs	DisplayPort, DVI			2x DisplayPort, HDMI
Video System	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

# TECHNICAL SPECIFICATIONS

<b>POWER</b>	<b>Power Server</b>	<b>Flex Server</b>	<b>Eco Server</b>	<b>Workstation</b>
Input	100–240 VAC, autoranging, 50/60 Hz			90-264 VAC, 47 Hz - 63 Hz, 3 A / 1.5 A
Supply	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	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.			

<b>ENVIRONMENTAL</b>	<b>Power Server</b>	<b>Flex Server</b>	<b>Eco Server</b>	<b>Workstation</b>
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

<b>PHYSICAL</b>	<b>Power Server</b>	<b>Flex Server</b>	<b>Eco Server</b>	<b>Workstation</b>
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]

## VIDEOXPRT PLAYER

The VideoXpert 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 VideoXpert 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

# TECHNICAL SPECIFICATIONS

## CERTIFICATIONS

- CE (Class A)
- FCC, Part 15 (Class A)
- ICES-003 (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



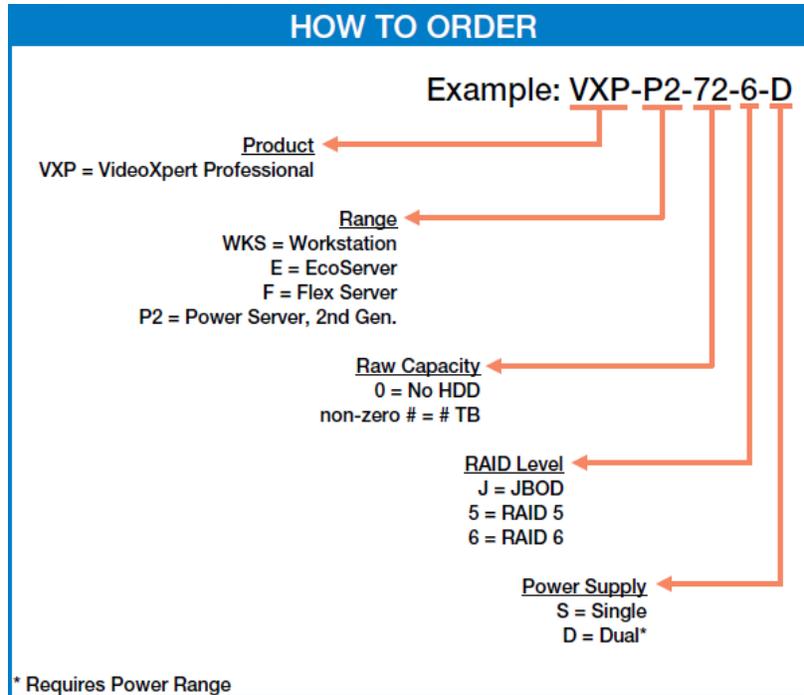
ECO SERIES

# TECHNICAL SPECIFICATIONS

## 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 licenses.

The chart below lists the full range of features. Capacity, RAID level, dual power supply, and channel 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 designations.



## SOFTWARE LICENSES

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

License / Camera Count	Description
VXP-1C	1 camera license for VideoXpert Pro plus one year SUP
VXP-1C3Y	1 camera license for VideoXpert Pro plus three 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

## HARDWARE

Model	Range	Raw Capacity (TB)	RAID Level (6 / 5 / JBOD)	Power Supply (Single/Dual)
VXP-P2-96-6-D	Power	96 TB	RAID 6	Dual
VXP-P2-96-5-D	Power	96 TB	RAID 5	Dual
VXP-P2-96-J-D	Power	96 TB	JBOD	Dual
VXP P2-72-6-D	Power	72 TB	RAID 6	Dual
VXP-P2-72-5-D	Power	72TB	RAID 5	Dual
VXP-P2-72-J-D	Power	72 TB	JBOD	Dual
VXP-P2-48-6-D	Power	48 TB	RAID 6	Dual
VXP-P2-48-5-D	Power	48 TB	RAID 5	Dual
VXP-P2-48-J-D	Power	48 TB	JBOD	Dual
VXP-P2-24-5-D	Power	24 TB	RAID 5	Dual
VXP-P2-24-J-D	Power	24 TB	JBOD	Dual
VXP-P2-0-X-D	Power	0 TB	Unconfigured	Dual
VXP-F-28-6-S	Flex	28 TB	RAID 6	Single
VXP-F-28-5-S	Flex	28 TB	RAID 5	Single

# TECHNICAL SPECIFICATIONS

Model	Range	Raw Capacity (TB)	RAID Level (6 / 5 / JBOD)	Power Supply (Single/Dual)
VXP-F-28-J-S	Flex	28 TB	JBOD	Single
VXP-F-20-5-S	Flex	20 TB	RAID 5	Single
VXP-F-20-J-S	Flex	20 TB	JBOD	Single
VXP-F-8-J-S	Flex	8 TB	JBOD	Single
VXP-F-4-J-S	Flex	4 TB	JBOD	Single
VXP-F-0-J-S	Flex	0 TB	JBOD	Single
VXP-E-12-J-S	Eco	12 TB	JBOD	Single
VXP-E-8-J-S	Eco	8 TB	JBOD	Single
VXP-E-4-J-S	Eco	4 TB	JBOD	Single
VXP-E-0-J-S	Eco	0 TB	JBOD	Single
VXP-WKS	Workstation	–	–	–

## 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-8TB 8 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
VXP-KIT-P2-PSU	Hot-swappable power supply for the VXP-P2 series.

### Pelco by Schneider Electric

625 W. Alluvial, Fresno, California 93711 United States

**USA & Canada** Tel (800) 289-9100 Fax (800) 289-9150

**International** Tel +1 (559) 292-1981 Fax +1 (559) 348-1120

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