

## VideoXpert Rackmount Workstation™

### Product Features

- Provides scalability and modular expansion
- Supports monitor walls, including cell layouts and cameras
- Supports MJPEG, MPEG-4, H.264, and H.265
- Supports environments that use anti-virus and firewall software
- Imports users and roles from existing LDAP servers to reduce administrative overhead, and enables single sign-on (SSO)
- Microsoft® Windows®-based for easy setup and maintenance
- The VX-RKWKST Rackmount Workstation supports up to 4 monitors per workstation (either 4 native or 2 native and 2 using Enhanced Decoders, depending on the decoder model), with the option for independent CPUs displaying up to 25 streams per monitor
- The VX-RKWKS8T Rackmount Workstation supports up to 8 monitors per workstation (2 native and 6 using Enhanced Decoders), with the option for independent CPUs displaying up to 25 streams per monitor on a VideoXpert™ Enterprise system
- Optional accessories include a 3D mouse and combination Jog/Shuttle, Keypad, Joystick controller.
- Supports ONVIF-compliant cameras and devices
- Supports Shared Display™ Decoders so operators can send video to surveillance personnel who need it most
- Supports DNS hostnames for ONVIF-compliant cameras and Pelco cameras
- Enables and supports Risk Management Framework (RMF) and FIPS 140-3



### Overview

The VxOpsCenter™ is a Windows-based application, providing an optimal environment from which users can watch live and recorded video. VideoXpert Rackmount Workstation™ supports up to six monitors, each capable of displaying up to 25 video streams simultaneously. Through the VxOpsCenter, users can configure and recall complete workspaces, enabling operators to quickly log in and get to work.

### Advanced Operator Controls

In addition to the standard keyboard and mouse, workstations support an Enhanced Keyboard, an Enhanced Mouse, and the KBD5000. The VxOpsCenter software allows for operators to customize their own keyboard shortcuts to the full range of VxOpsCenter controls. The Enhanced Mouse or your existing KBD5000 are mapped to the full range of VxOpsCenter controls.



KBD5000 Jog/Shuttle,  
Keypad, and Joystick



Enhanced 3D  
Mouse

## Technical Specifications

### Hardware

| Item                | Description                |
|---------------------|----------------------------|
| Processor           | Intel® Core i7-9700K       |
| Memory              | 16 GB DDR4                 |
| Operating System    | Windows® 10 IoT Enterprise |
| SSD Storage         | 256 GB                     |
| USB Ports           |                            |
| USB Type-A 3.1 Gen1 | 2x front                   |
| USB Type-C 3.1 Gen2 | 1x front, 2x rear          |

### Video

| Item         | Description   |
|--------------|---|
| Video system | - VX-RKWKST: NVIDIA Quadro P620 (1x)<br>- VX-RKWKS8T: NVIDIA Quadro P620 (2x) |
| Memory       | 2 GB GDDR5  |

| Item  | Description  |
|---|--|
| Video Outputs                                       | - VX-RKWKST: Mini DisplayPort 1.4 (4x)<br>- VX-RKWKS8T: Mini DisplayPort 1.4 (8x)  |
| Display Support (live and playback) <sup>1, 2</sup> | - 4K monitors: up to 2 monitors directly connected<br>- 1080p monitors: up to 4 monitors directly connected<br>- 25 streams per monitor, up to 64 streams total across all directly connected monitors |

<sup>1</sup> Memory will support up to 20 synchronized playback streams across all monitors.

<sup>2</sup> For VX-RKWKS8T, distribute directly connected monitors equally between the two video cards.

## Networking

| Item       | Description  |
|------------|--|
| Interface  | 1 Gigabit Ethernet (1000Base-T), 10 Gigabit Ethernet (10GBase-T) |
| IP version | IPv4 and IPv6  |

## Front Panel

| Item             | Description                 |
|------------------|-----------------------------|
| Buttons          | Power                       |
| Indicators       |                             |
| Unit Status      | White, amber (behind bezel) |
| Hard Disk Status | White (behind bezel)        |

## Power

| Item              | Description                                 |
|-------------------|---|
| Power Input       | 100 to 240 VAC 50/60 Hz ±5%, autoranging    |
| Power Supply      | Internal—1 included, 2 maximum <sup>1</sup> |
| Power Consumption | 550 W, 7.4 A / 3.7 A (maximum)              |

<sup>1</sup> Purchase the additional power supply, part number VX3930-PS.

## Environmental

| Item                            | Description  |
|---------------------------------|--|
| Operating Temperature           | 10° to 35°C (50° to 95°F) at unit air intake (front) |
| Non-Operating Temperature       | −40° to 65°C (−40° to 149°F)                         |
| Operating Relative Humidity     | 10% to 85%, non-condensing                           |
| Non-Operating Relative Humidity | 10% to 90%, non-condensing                           |
| Operating Vibration             | 0.26 GRMS  |



**Note:** The temperature at the unit air intake can be significantly higher than room temperature. Temperature is affected by rack configuration, floor layout, air conditioning strategy, and other issues. To prevent performance failure and unit damage, make sure the temperature at the unit is continuously within the operating temperature range.

## Physical

| Item                   | Description                                      |
|------------------------|--|
| Construction           | Steel and plastic cabinet                        |
| Finish                 |  |
| Front Panel            | Black with metallic silver                       |
| Chassis                | Silver   |
| Dimensions (D x W x H) | 57.75 x 48.2 x 4.28 cm (22.73 x 18.97 x 1.68 in) |
| Mounting (RU)          | 1 RU   |
| Unit Weight            | 12.42 kg (27.38 lb)                              |

## Certifications

| Item          | Description |
|---------------|-------------|
| CE            | Class A     |
| FCC, Part 15  | Class A     |
| ICES-003      | Class A     |
| UL/cUL Listed | X           |
| RCM           | X           |
| CCC           | X           |

| Item | Description |
|------|-------------|
| KC   | X           |
| NOM  | X           |

## Security

VideoXpert includes the following security features:

- Client authentication
- Passwords stored with cryptographic protection
- Configurable roles and permissions
- User action reports
- TLS-based encryption over HTTPS
- Support running with antivirus
- Ability to encrypt exports
- Synchronized system clocks using NTP
- Supports video and data encryption using AES-128-256 through third-party disk encryption software.
- Incorporates FIPS 140-3 validated cryptographic modules
- FISMA/NIST Configuration Guidance – This guide will help organizations documenting the system through their RMF process with information about:
  - How to categorize the system
  - Which NIST-based security controls are applicable
  - How VX implements NIST-based security controls
- FISMA/NIST Compliance Testing – VideoXpert is installed on a FISMA representative system with applicable DISA STIGs (Defense Information Systems Agency, Secure Technical Implementation Guidelines) and tested for functionality. Applicable STIGS include:
  - Microsoft Windows 10 for VxOpsCenter and VxToolbox
  - Microsoft .Net Framework 4
  - Microsoft Internet Explorer 11
  - Microsoft Windows Firewall and Advanced Security
  - Postgres Database 9.x
- Conforms to SB327 requirements (and international iterations of such) by enforcing default password changes upon initial configuration.

## Model Numbers

- **VX-RKWKST** Rackmount Workstation enabling the use of up to four monitors; EU, US, and UK power cords included
- **VX-RKWKS8T** Rackmount Workstation with an additional graphics card, enabling the use of up to eight monitors; EU, US, and UK power cords included

## Supplied Accessories

- Keyboard
- Mouse
- Rackmount kit
- Power cords (US, UK, and EU)

## 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
- **VX3930-PS** Spare power supply

## Optional Accessories

- **3DX-600-3D MOUSE** Enhanced 3D Mouse and Joystick
- **KBD5000** Keyboard with Jog/Shuttle, Keypad, and Joystick
- **PMCL622** Full High-Definition LED Monitor, 22"
- **PMCL624** Full High-Definition LED Monitor, 24"
- **PMCL632** Full High-Definition LED Monitor, 32"
- **PMCL643K** 4K Ultra-High-Definition LED Monitor, 43"
- **PMCL649K** 4K Ultra-High-Definition LED Monitor, 49"
- **PMCL655K** 4K Ultra-High-Definition LED Monitor, 55"
- **PMCL665K** 4K Ultra-High Definition LED Monitor, 65"



Pelco, Inc.  
625 W. Alluvial Ave., Fresno, California 93711 United States  
(800) 289-9100 Tel  
(800) 289-9150 Fax  
+1 (559) 292-1981 International Tel  
+1 (559) 348-1120 International Fax  
[www.pelco.com](http://www.pelco.com)

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