



EDPN-PRO-4Q

Seamless DisplayPort KVM For Radiology & Medical Imaging

Designed for diagnostic workstations and reading rooms. Securely control multiple imaging systems — PACS, RIS, VNA, CT, MRI, Ultrasound, and Advanced Visualization servers — from a single workstation with zero disruption. Centralize your workflow, eliminate desk clutter, and switch instantly between systems while preserving full image integrity — including 2048×2048 and 4K @ 60Hz.

KEY FEATURES AND CAPABILITIES



True seamless switching — no video blanking or re-sync



Integrated Multiview modes for simultaneous source monitoring



Supports 2048×2048 & 4K @ 60Hz via DisplayPort



EDID retention — monitor settings remain intact



USB keyboard & mouse emulation



Independent USB 2.0 channels for peripherals



Front panel, hotkey, and OSD switching and customization



Stereo audio support



Flash-upgradable firmware

OPTIMIZED FOR



Radiology Reading Rooms



Diagnostic Imaging Centers



Advanced Visualization Labs



PACS Workstations

HOW IT WORKS



Fullscreen Mode

In the Full Screen mode, one of the four computers is displayed in full screen size and maximum resolution



Dual Mode

In the Dual Mode, the screen is split into two fields of equal size with the screen content of two video sources or computers being displayed in each of these fields.



Picture-in-Picture (PiP)

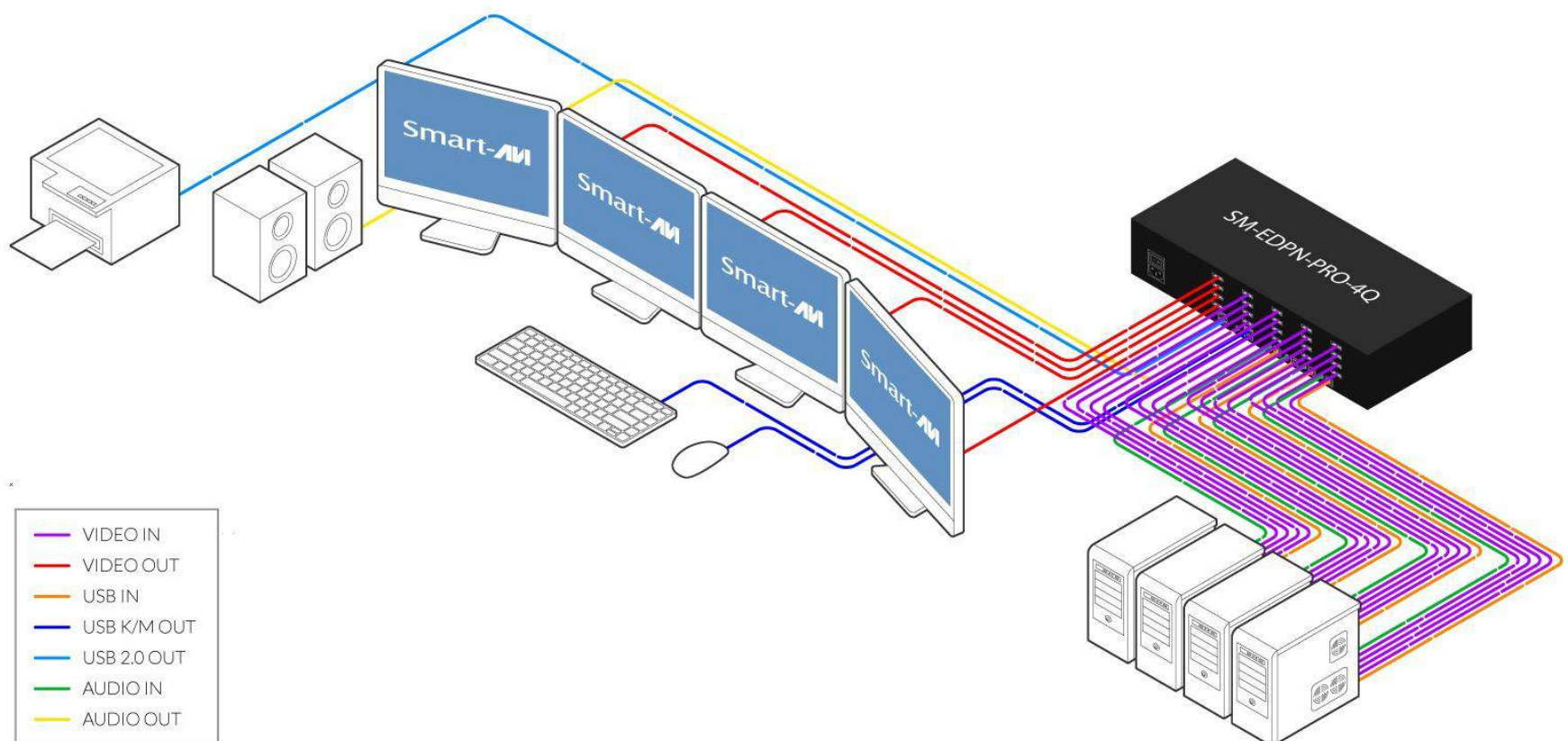
The PiP Mode is fixed in size and position; the full screen displays one of the four video sources, and a smaller image (thumbnail) containing another video source on the right-hand margin of the screen allows for simultaneous monitoring.



Quad Mode

In Quad Mode, the screen is split into four fields of equal size with the screen content of four video sources or computers being displayed in each of these fields.

APPLICATION DIAGRAM



Immediate access to prior studies and parallel systems
Supports **Single-Head**, **Dual-Head**, and **Quad-Head**

KEY CAPABILITIES

- **Integrated Multiviewer:** Simultaneous review of multiple imaging sources
- **Ultra-low latency:** Preserving natural cursor and image response
- **True seamless switching:** No screen blanking or re-synchronization
- **4K60 DisplayPort:** Full pixel integrity
- Supports specialized medical imaging

SPECIFICATIONS

Video		
Format	DisplayPort1.2	
Maximum Pixel Clock	594 MHz	
Input Interface	SM-EDPN-PRO-4Q	(16) DisplayPort 20-pin (female)
Output Interface	SM-EDPN-PRO-4Q	(4) DisplayPort 20-pin (female)
Resolution	3840 x 2160 @ 60 Hz	
Color Mode	24-bit	
DDC	5 volts p-p (TTL)	
Input Equalization	Automatic	
Input Cable Length	Up to 20 ft	
Output Cable Length	Up to 20 ft	
Data Rate	1.65 Gbps per color	
EDID Support	Full emulation & preloaded profiles	

Audio	
Input Interface	(4) 3.5 mm Stereo Audio
Output Interface	(1) 3.5 mm Stereo Audio
Impedance	600 Ohm
Frequency Response	20 Hz to 20 kHz
Nominal Level	0-1.0 V
Common Mode	Rejection at 60 dB

Control	
Front Panel	Push Buttons with LED Indicators
LAN	RJ45
Hot Keys	Via Keyboard

USB	
Signal Type	USB 2.0, 1.1, and 1.0 w/ internal hub
Input Interface	(4) USB Type B (female)
Output Interface	(2) USB Type A (female) for K/M emulation; (2) for USB 2.0 Transparent

Other	
Power Adapter	External 120-240 VAC, Internal PSU
Dimensions	17.0” W × 2.7” H × 8.69” D
Weight	4.4 lbs
Approvals	UL, CE, ROHS Compliant
Operating Temperature	+32 to +104°F (0 to +40°C)
Storage Temperature	-4 to 140°F (-20 to +60°C)
Humidity	Up to 80% (No Condensation)
Emulation	Keyboard and Mouse



Designed and Manufactured in the USA

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