



EDPN-PRO-4S

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 and hotkey



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)

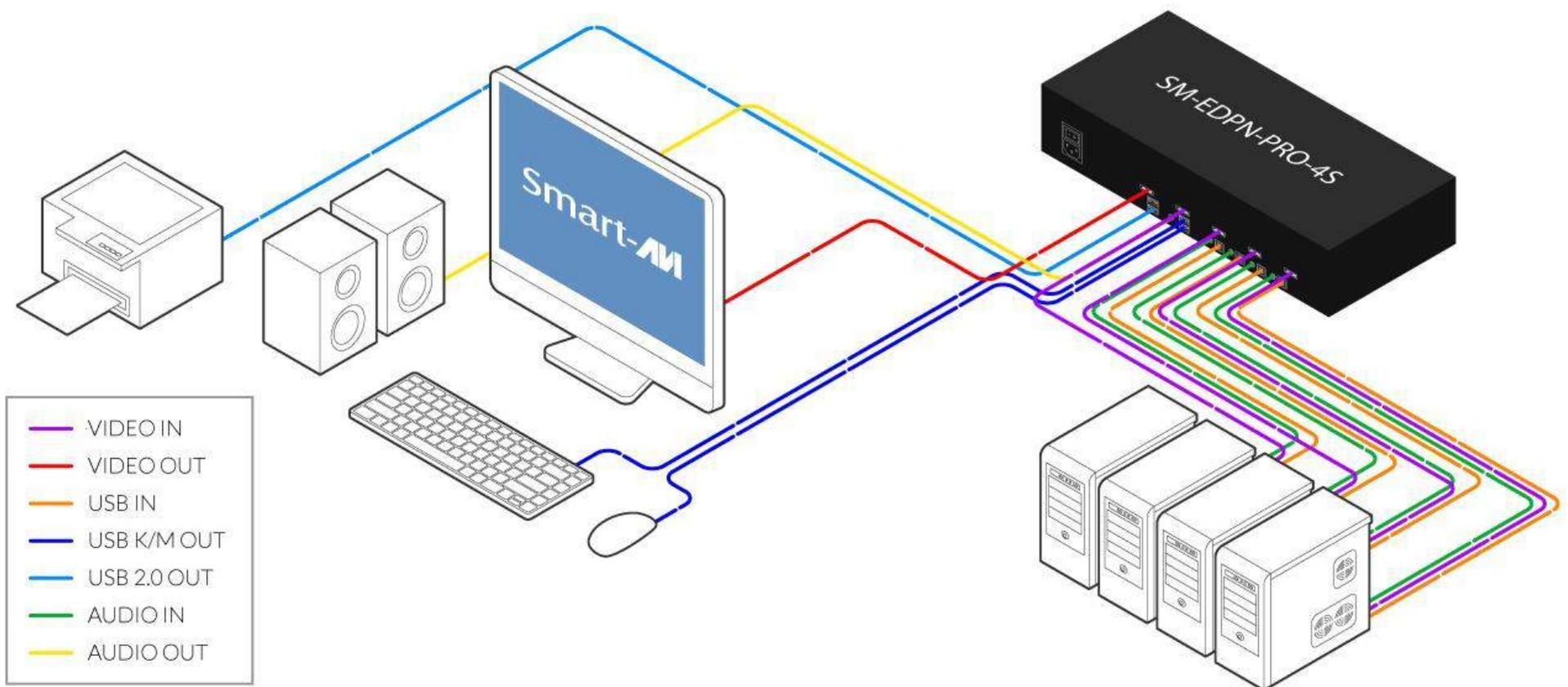
The PiP Mode is fixed in size and position; the full screen displays one of the four video sources, and a smaller image (thumbnail) containing another video source on the right-hand margin of the screen allows for simultaneous monitoring.



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-4S (4) DisplayPort 20-pin (female) |
| Output Interface | SM-EDPN-PRO-4S (1) 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 x 2.7" H x 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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