

SPS-4000

4K60 HDMI PRESENTATION SWITCHER WITH 4 INPUTS AND 2 OUTPUTS



EXPERIENCE SEAMLESS CONTROL WITH OUR 4-PORT SINGLE HEAD HDMI PRESENTATION SWITCHER, OFFERING VIRTUALLY ZERO VIDEO DELAY DURING CHANNEL SWITCHING AND UHD 4K @60 VIDEO RESOLUTION

FEATURES

- **Fast Seamless Video Switching.** Virtually zero delay for uninterrupted channel transitions.
- **UHD 4K @ 60 Video Resolution.** Enjoy stunning Ultra HD visuals at a smooth 60Hz refresh rate.
- **Built-In Video Scaler.** Effortlessly handle various input resolutions; inputs do not need to be 4K@60, as the unit scales them up for optimal display.
- **IP Connectivity with Graphic Web UI.** Control via web-based interface for easy management.
- **Multiple Video Modes.** Single, PIP, PBP, Tri-View, and Quad View options for versatile display.
- **RS-232 Serial Control.** Integrate with control systems via RS-232 commands at 115200 bps.

APPLICATIONS

- Command Centers
- Video Editing
- Security Surveillance
- Air Traffic Control
- Broadcast Studios
- Data Centers
- Medical Imaging
- Gaming Centers

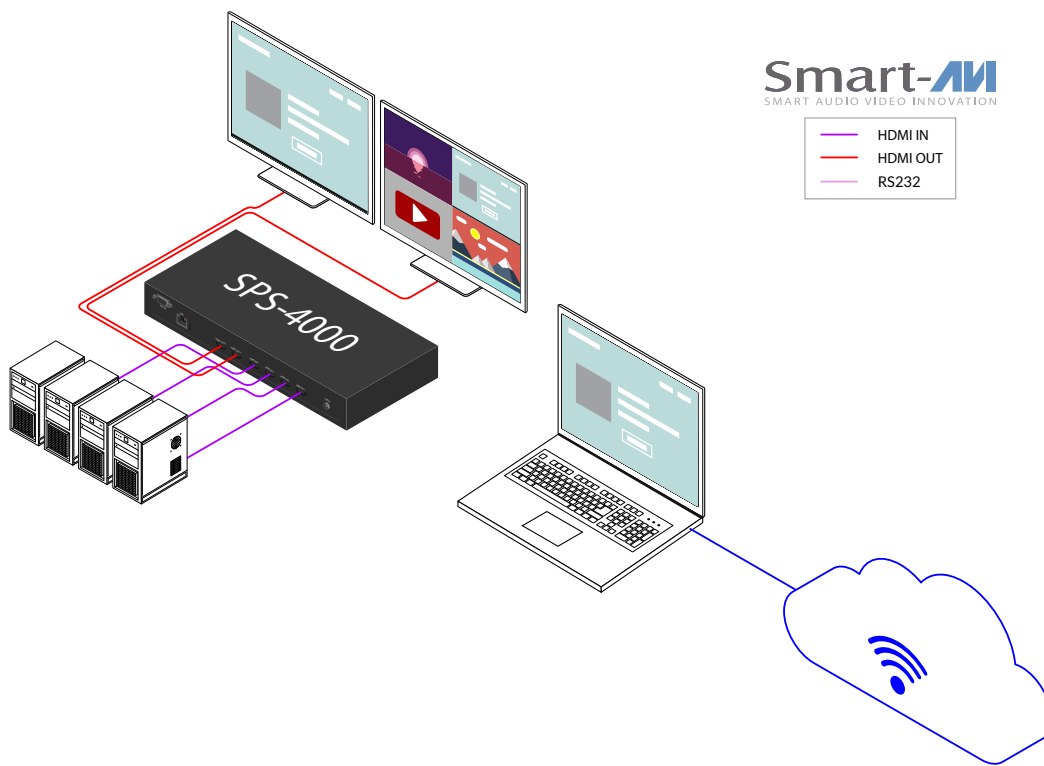


Designed and Manufactured in the USA

OVERVIEW

The SPS-4000 is a 4K60 HDMI presentation switcher with 4 HDMI inputs and 2 HDMI outputs, designed for environments where reliable, high-quality video switching is mission-critical. Seamless switching technology delivers virtually zero delay between channel transitions, while UHD 4K @60 output ensures every detail is preserved on the display. A built-in scaler accepts a mix of input resolutions and scales them up as needed, so source equipment does not have to match. Operators can switch sources and change layouts from the front-panel buttons, the IP-based Web GUI, or RS-232 commands – and choose between Single, PIP, PBP, Tri-View, and Quad View modes to fit the workflow. From command centers and broadcast studios to security operations and medical imaging, the SPS-4000 brings seamless switching together with high-definition output in a single compact unit.

APPLICATION DIAGRAM



FRONT AND BACK



SPS-4000 Front



SPS-4000 Back

CUSTOMIZABLE CONTROL INTERFACE

The SPS-4000 ships with an IP-based Web User Interface that puts every multiviewer option in one place. The intuitive UI is organized into four pages – Output, Multiview, HDMI Audio, and System – and gives operators full control over output resolution, display layout, per-window input mapping, and audio routing. Pick a Multiview layout (Single, PIP, PBP, 3xWin, or 4xWin), fine-tune position and size, map any input to any window from the Channel Switching matrix, and apply settings instantly – all from a single browser tab.



Web GUI – Multiview page with layout selector and Channel Switching matrix

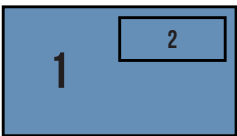
SCREEN MODES

The SPS-4000 supports five display layouts, all selectable from the front panel, Web GUI, or RS-232:



Single / Full Screen Mode

One of the four sources is displayed in full screen at maximum resolution.



PiP (Picture-in-Picture) Mode

The full screen displays one of the four sources, with a smaller thumbnail of another source overlaid in the corner for simultaneous monitoring.



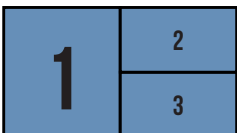
Quad View Mode (4xWin)

The screen is split into four fields of equal size, with the content of all four sources displayed in each field.



PBP (Picture-by-Picture) Mode

Two sources are displayed side by side at equal size, ideal for direct comparison of two feeds.



Tri-View Mode (3xWin)

Three sources are displayed simultaneously: one large primary source on the left, with two smaller secondary sources stacked on the right.

TECHNICAL SPECIFICATIONS

VIDEO	
Host Interface	(4) HDMI 19-pin Type A, female
User Console Interface	(2) HDMI 19-pin Type A, female
Max Resolution	3840 x 2160 @ 60Hz (UHD 4K) 4096 x 2160 @ 60Hz (DCI 4K)
HDCP	HDCP 1.4 / 2.2 (Force-1.4, Force-2.2, Force-Off)
Scaler	Built-in; scales mixed input resolutions to output
Multiview Modes	Single, PIP, PBP, 3xWin, 4xWin
EDID Presets	18 presets incl. 4K60 / 4K30 / 1080p60 with 2.0, 5.1, 7.1 audio; Auto; User

AUDIO	
Format	HDMI embedded: 2.0 / 5.1 / 7.1 channel
Source Select	Window-1 follow, or direct IN-1 / IN-2 / IN-3 / IN-4
Volume / Mute	0-100 range; Mute On / Off

CONTROL	
Front Panel	(4) Buttons w/ LEDs: 1/Full, 2/PIP, 3/Quad, 4/Res
RS232	(1) DB9F • 115200 bps, 8-N-1, no flow control
Network	(1) RJ45 10/100 Ethernet
Web GUI	HTTP + WebSocket (TCP 6432), ASCII protocol

PART NO.	DESCRIPTION
SPS-4000-S	4K60 HDMI Presentation Switcher with 4 Inputs and 2 Outputs. Includes: SPS-4000 unit and PS12VDC3A power adapter.

SUPPORTED OUTPUT RESOLUTIONS	
4K (DCI)	4096x2160 @ 60Hz, 50Hz
4K (UHD)	3840x2160 @ 60Hz, 50Hz, 30Hz, 25Hz
Full HD	1920x1080 @ 60Hz (RB), 60Hz, 50Hz
HD / SD	1360x768, 1280x800, 1280x720 (60/50Hz), 1024x768

SUPPORTED OUTPUT RESOLUTIONS	
Aspect	Full, 16:9
PIP Position	Left Top, Right Top, Left Bottom, Right Bottom
PIP Size	Small, Middle, Large
No-Signal Screen	Blue Screen or Black Screen

OTHER	
Power	External 100-240 VAC/12VDC3A @ 24W
Dimensions	12.57" W x 1.76" H x 6.69" D
Weight	4.2 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	5 to 90% (No Condensation)

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