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IP UHD Switcher

The IP UHD switcher is primarily used for real-time audio and video live production.

- Support landscape and portrait production, with up to eight layers of 4K input compositing per ME.
- Supports 4 ISC unlimited-source direct-cut channels, enabling direct switching to any source video stream on the switch within 60 ms.
- PP/ME processing, multiviewers, downstream keyers, PIP, clip and still playback.
- Support luma key and chroma key with move, scale, rotate, crop, and border effects, as well as mix, dip, wipe, and stinger transitions.
- Four chroma keys support garbage masking and edge feathering, suitable for virtual production workflows.
- Support macro recording and snapshot functions for fast operation and scene recall.
- Support basic audio mixing with PGM mixed audio output.
- Comply with SMPTE ST 2110-10/20/21/30/40 and ST 2022-7, supporting PTP synchronization, NMOS IS-04/05, and LSM quick I/O definition.
- Support IP Tally services, including TSL 5.0 dynamic Tally, with tally display in multiview outputs.
- Dedicated network channels for streaming formats such as SRT, NDI, NVI, and RTMP.





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IP UHD Switcher

Specification Comparison Table

Product	Model		
IP UHD Switcher	S-VM2000	S-VM1000	S-VM800
Basic Function			
Architecture	x86 architecture, embedded OS		
System Architecture	SDF distributed architecture, processing capability based on CPU + GPU		
Working Mode	Supports landscape & portrait simultaneous operation		
Control Panel	Supports 2 hardware panels + multiple software panels		
Unlimited-source stream input	4 ISC unlimited-source direct-cut channels; direct-switch any source stream on the switch within 60 ms		
IP Input	32× UHD or 96× HD ST2110	16× UHD or 64× HD ST2110	8× UHD or 32× HD ST2110
IP Output	16× UHD or 48× HD ST2110	8× UHD or 24× HD ST2110	8× ST2110
SDI I/O	Standard — 4 × 12G/3G/1.5G-SDI I/O channels, expandable up to 12 × 12G/3G/1.5G-SDI I/O		
Up/Down/Cross Conversion	I/O up/down conversion; Rec.709 SDR ↔ Rec.2020 HDR; custom LUT output.		
Layers/ME	8× 4K		4× 4K
P/P & M/E Configuration	1 × P/P + 3 × M/E		
Multiviewer	2 × multiviewers		
Keyers	8 full-function keyers per M/E		
PIPs	8 layers		
Clip Players	2 channels		
Still Store	8 channels		
4K AUX Output	8 channels		
PGM Clean Output	Supported		
Virtual Studio	4 channels		
Auto Chroma Key	4 × independent channels		
Key Functions	Move, scale, rotate, crop, border, edge feathering		
Transitions	Mix, Dip, Wipe, Stinger, etc.		
Snapshot & Macro	Snapshot & macro recording supported		
Streaming I/O	SRT / NDI / NVI / RTMP via independent network port		
Audio Processing	Audio mixing and PGM output		
Multiview Elements	Video window, audio meters, UMD, Tally border, clock		
Tally	IP Tally server, TSL 5.0 support		
Preset Management	Import / export / save / load presets		
IP Protocols	ST2110-10/20/21/30/40, ST2022-7		
NMOS	NMOS IS-04/05		
LSM Management	Supports LSM for stream management, PTP monitoring		
PTP	1588V2、2059-2，ST2110-10		
Video Format (HD)	1080 50i/50P/59.94i/59.94P/60i/60P		
Video Format (UHD)	2160 50P/60P/59.94P		
Web Management	Web-based monitoring (CPU / GPU/memory / NIC)		
Input Delay	Adjustable input delay		
Specification			
Data Ports	200Gb QSFP28 ×2	100Gb QSFP28 ×2	100Gb QSFP28 ×1
Management Port	1Gb RJ45 ×2		
BMC Port	1Gb RJ45 ×1		
Form Factor	2U Rackmount		
Dimensions	485 × 450 × 89 mm		
Power Supply	Redundant power supply		
Power Input	100–120V / 200–240V, 50/60Hz		
Power Consumption	500W		
Operating Temperature	-10°C to 40°C		
Storage Temperature	-20°C to 60°C		
Certification	NRTA CMA / CNAS certified		
Reliability	24/7 continuous operation		

Ordering Information

Product Model	Product Name
S-VM2000	IP UHD Switcher
S-VM1000	IP UHD Switcher
S-VM800	IP UHD Switcher