H.264/H.265 4K60 AV over IP with KVM and RS-232 - Support Dante and AV-A
SV-EA9300AVE
4K/60 UHD (4:4:4) | HDCP 2.2 Compatible

The Solvision SV-EA9300AVE is built on JPEG2000 technology and features an integrated Copper and Fiber port design within a single compact unit. It supports encoder input up to 4 K60 4:4:4 and audio embedding or extraction. The decoder output also delivers up to 4 K60 4:4:4 resolution with audio extraction capabilities.

The device includes advanced audio support features such as ARC/eARC, S/PDIF, and analog audio return functions. Additionally, it supports USB 2.0/KVM/Camera extension, 1G Ethernet, bidirectional RS-232, two-way IR, and PoE functionality.
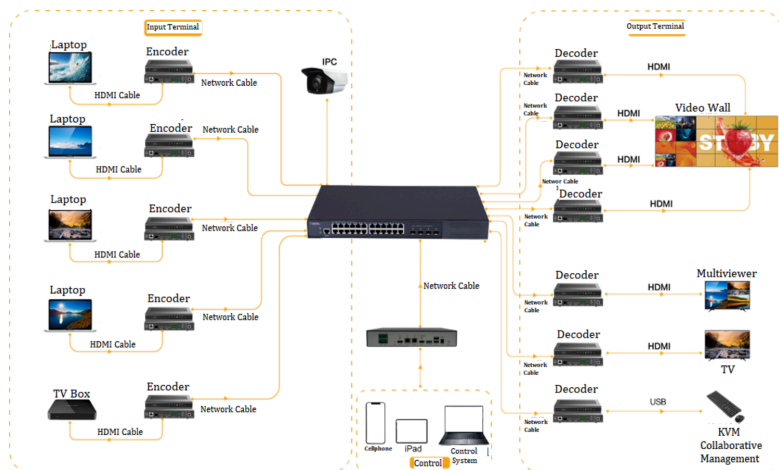
It supports Guest Mode control via RS-232, IR, and CEC, and also comes equipped with two built-in RELAY channels and two I/O ports for contact control applications. Dante AV-A mode is license activation for enhanced AV-over-IP workflows.

A built-in MJPEG substream with extensive API support allows flexible configuration and real-time video preview, ideal for integration with third-party control applications.

Running on a Linux-based platform, the product ensures a robust and flexible environment for software development, while offering versatile control options through a standard 1G intelligent Ethernet switch network architecture.

Features

- The device is HDCP 2.2 compliant and supports up to 18Gbps video bandwidth, enabling high-performance video transmission. It supports input and output resolutions up to 4K60 4:4:4, by the HDMI 2.0b specification. Video signal transmission can be extended up to 100 meters (328 ft) using CAT5E/6/6A/7 cables.
- This system transmits video, analog/digital audio, IR, RS-232, CEC, and USB signals over Ethernet and integrates both Copper and Fiber ports within a single unit for maximum flexibility. It supports ARC, eARC, S/PDIF, and analog audio return functionalities. The Dante AV-A mode is also supported with license activation.
- Channel configuration is facilitated through front panel buttons and an LED display, and the system features two RELAY channels and two I/O ports for contact-based control. It supports unicast and multicast transmissions and operates in point-to-point, video matrix, and video wall modes (with video walls configurable up to 9x9).
- The solution also supports intelligent video wall class management and real-time MJPEG sub-stream preview. Powered via a 1G Ethernet switch, the system is PoE-capable, reducing the need for external power adapters.
- Comprehensive control options include built-in web configuration, Telnet, and SSH access. Supported HDMI audio formats include LPCM (2.0/5.1/7.1CH), Dolby Digital/Plus/EX, Dolby TrueHD, DTS, DTS-96/24, DTS-EX, DSD, DTS High Res, and DTS-HD Master Audio.
- Its smart networking design allows for flexible, scalable, and efficient installations across varied AV environments.
- Work with the IP Controller box SV-CTL100DA
- Safety:-CE,FCC,RoHS,(ISO9001:2015,14001:2015,45001:2018, 27001:2022 -IAF Certified)

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Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video CompressionStandard	JPEG2000
Video Bandwidth	1G ,IP Streaming protocol ,H.264 / H.265 / Dynamic JPEG
Network Port	1000M Base-T (supporting POE)
Network Video Bandwidth	1G
Video Resolution	Up to 4K@60Hz 4:4:4
Color Space	RGB, YCbCr 4:4:4/4:2:2/4:2:0
Color Depth	8/10/12 bit
Encoding Sampling Rate	48KHz
HDMI Audio Formats	LPCM
Analog Audio Formats	Left and Right stereo analog audio ,Dante Audio AES67 Support
ESD Protection	Human body model: ±8kV (air-gap discharge) & ±4kV (contact discharge)
Connections	
Input	1x HDMI IN [Type A, 19-pin female]2x AUDIO IN [3-pin phoenix connector, stereo balanced linear interface]
Output	1x HDMI OUT [Type A,19-pin female]2x AUDIO OUT [3-pin phoenix connector, stereo balanced linear interface]
Control	1x LAN (POE) [RJ45, supporting POE]1x RS-232 [3-pin phoenix connector]1x USB HOST [Type B, 4-pin female]2x USB DEVICE [Type A, 4-pin female]1x SFP [Fiber slot]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	204mm (W) × 131.5mm (D) × 30mm (H)
Weight	760g
Power Supply	Input: AC 100 - 240V 50/60HzOutput: DC 12V/2.5A (US/EU standards, CE/FCC/UL certified)
Power Consumption	<10.5W
Operation Temperature	32°F - 104°F / 0°C - 40°C
Storage temperature	-4°F - 140°F / -20°C - 60°C
Relative Humidity	20 - 90% RH (no condensation)