



Secure KVM switch for sharing single or dual-head 4K video, USB keyboard and mouse, plus analog audio between four computers spanning multiple security classification levels.

ADDERView® Secure switches enable a KVM plus audio desktop to be shared between different classification level computers. Designed for superior usability, the switches feature configurable LED buttons and a real-time status display.

ADDERView® Secure AVS 4214

Uni-Directional Data Paths

Uni-directional optical diodes ensure data paths travel in only one direction to prevent data leakage through shared peripherals. A uni-directional structure also protects against timing analysis or forced malfunction attacks, and prevents computers influencing the operation of any common circuitry.

Non-Reprogrammable Firmware

Firmware is permanently stored in non-reprogrammable Read Only Memory (ROM) to prevent modification, and cannot be accessed by any port. A self-test at power-up verifies its integrity, and if a critical failure is detected, the device is disabled and provides a clear visual indication to the user.

Uni-Directional Video

Computer video input interfaces are isolated through use of separate electronic components and power. This display is isolated by a dedicated, read-only, EDID (Extended Display Identification Data) emulation for each computer. Access to the monitor's EDID and MCCS commands are blocked.

Channel Identification

Reduce the chances of operator error by displaying a name for each channel and its security classification on the E-paper display. The color of the channel LED may also be configured to reflect the security classification.

Video Performance

Up to UHD 4K video resolution at 60 fps for graphics intensive applications requiring very high quality.



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No Shared RAM Between Ports

The keyboard and mouse processor is powered down and reset at each switchover to thwart shared RAM leakages. All data buffers are actively cleared once they have been used.

Hardware Anti-Tampering

Holographic anti-tampering labels protect the product's enclosure, providing a clear visual indication if it has been opened or compromised.

Audio Hold

Assign the audio port to a specific computer while switching the KVM to other computers. Useful when a user needs to listen to audio from one computer, whilst working on another.

Industry Recognized

NIAP PP 4.0 Certified, TAA Compliant, Assembled in the USA

Automatic Switching (Configuration)

Switch channels (KVM plus audio) simply by moving the mouse across the screen border, whilst pressing the Ctrl key.

Restricted USB Function

The USB ports will only accept HID (Human Interface Devices), such as keyboards and mice. Other devices, such as USB storage drives, are actively prohibited.

Uni-Directional Audio

Enforces computer-to-speaker, one-way flow of sound through uni-directional optical data diodes. Prevents eavesdropping and line-in re-tasking by blocking speaker-to-computer communication.

Video Information (1 Screen)	
Maximum Resolution (1 Screen)	3840 x 2160
Frame Rate (1 Screen)	60
Color Depth (1 Screen)	8 bpc
Computer Connections	
USB B	4x 2.0, HID Emulation
Dual Port (DP+HDMI)	8x 1.2 (dual mode)
Console Connections	
USB A	2x 2.0, HID Emulation
Dual Port (DP & HDMI)	2x 1.2 (dual mode)
Serial Ports	
Serial Connection	1x RS232
Serial Connection Type (console)	RJ12 (6p6c)
Audio Connections	
Audio Type	Analog
Channels	2x
Audio Direction	Output only
Audio In Port	1x 3.5mm jack
Audio Out Port	1x 3.5mm jack
Network Support	
10/100 Support	No
Environmental	
Operating Temperature Range °C / °F	0 to 40 °C / 32 to 104 °F
Storage Temperature °C / °F Range	-20 to 60 °C / -4 to 140 °F
Operating Humidity (%)	0% - 80% (non-condensing)
Storage Humidity (%)	0% - 80% (non-condensing)
Temperature Regulation	Fanless
Power Source	
12V 3-pin	1x
Input Power Supply	PSU 2.5A
Power Additional Information	100 - 240V AC, 47/63Hz 12V DC 30W output from power supply unit

Physical Design

Construction Material	Robust metal construction
Width (mm) / (in.)	344 / 13.5
Height (mm) / (in.)	61 / 2.4
Depth (mm) / (in.)	165 / 6.5
Weight (kg) / (lb)	2 / 4.4

Front Panel Features

Multi color status LEDs	4x
E-Paper Display	1x
Audio Hold	1x

Compatibility

OS Compatibility	Windows, Linux, macOS, All known operating systems
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Approvals and Standards

Approvals	CE, cTUVus, FCC, UKCA
Standards	EN/IEC 62368-1, EN55032 /CISPR 32, EN55035/CISPR 35, EN63000, FCC pt15B
Other	EU REACH, NIAP PP 4.0, UK REACH



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What's in the Box?

1x 4 port switch

1x Power supply unit with universal mains cable

1x Quick start guide

Ordering Information

AVS-4214

ADDERView Dual head secure 4-port switch

Related Accessories (Sold Separately)

ADDER® Secure Card Reader

ADDER® Secure Remote Control Unit

ADDER® VSC24 USB Cable

ADDER® VSCD15 HDMI® Cable

ADDER® Rackmount Kit RMK13

ADDER® VSCD DisplayPort™ Cable

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