



ADDERView™ AVS 4114 & 4214

Desktop KVM Switches

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



Features

Video performance

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

Automatic switching (configuration option)

Free-flow KVM and audio control between ports without the need to press any buttons. Simply move the mouse between windows.

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.

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.

Keyboard locks status

Indicate status of keyboard locks (CAPS-LOCK, NUM-LOCK, SCROLL-LOCK) that are blocked by uni-directional data paths.

Uni-directional keyboard and mouse data paths

Uni-directional optical diodes ensure data paths travel in only one direction, thus preventing 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.

Uni-directional video

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

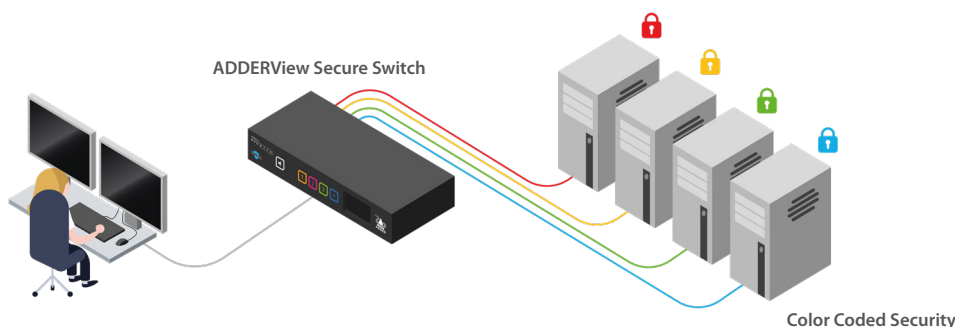
Uni-directional audio

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.

Product In Brief

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.

The ADDERView Secure range is designed to prevent sensitive data leakage and data storage in the device. Using features such as uni-directional data paths, anti-tamper labels and non-reprogrammable firmware, the secure switches actively combat a range of potential threats.



NIAP PP 4.0 Compliant
Design

Made in America

TAA Compliant

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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.

No shared RAM between channels

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.

Non-reprogrammable firmware

There is no access to the product's firmware or memory through any port. Firmware is permanently stored in non-reprogrammable Read Only Memory (ROM) to prevent modification. Firmware integrity is verified through a self-test procedure during power up. Detection of a critical failure disables the device and provides a clear visual indication to the user.

Hardware anti-tampering

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

Technical Specifications

The following specifications relate to both products unless specified otherwise.

Video resolutions

The system supports UHD 4K resolutions to a maximum of 3840 x 2160 @ 60Hz.

Software compatibility

Windows, Linux, Mac host computer OS's USB HID, including touchscreens compliant with Microsoft Digitizer.

Console connections

- Dual port for DP/HDMI, USB type A, Audio 3.5mm
- RJ12 for remote control

Computer connections

Single-head (AVS-4114 only)

- 4x dual ports for DP/HDMI, USB type B, Audio 3.5mm

Dual-head (AVS-4214 only)

- 8x dual ports for DP/HDMI, USB type B, Audio 3.5mm

Front Panel

- Audio hold button and status LED
- 4x Channel selection button and status LED
- 212x104 E-paper status display

Physical design

Robust metal construction

Single-head (AVS-4114 only)

- 13.54"/344mm(w), 1.73"/44mm(h), 6.73"/171mm(d)
- 1.6kg/3.53lbs

Dual-head (AVS-4214 only)

- 13.54"/344mm(w), 2.4"/61mm(h), 6.5"/165mm(d)
- 2.0kg/4.41lbs

Power supply

- 100-240V AC, 47/63Hz
- 12V DC 18W output from power supply unit

Environmental

- Operating temp: 32°F to 104°F (0°C to 40°C)
- Storage temp: -4°F to 140°F (-20°C to 60°C)
- Humidity: 0-80% RH, non-condensing

Approvals

- CE, FCC class A, TUV US & Canada
- NIAP PP 4.0 Compliant Design for Peripheral Sharing Devices (PSD)



ADDERView AVS 4114 - Rear View



ADDERView AVS 4214 - Rear View

Ordering Information

AVS-4114: ADDERView Single-head secure 4-port switch

AVS-4214: ADDERView Dual-head secure 4-port switch

What's in the Box?

1x 4-port switch

1x power supply unit with country specific mains cable

1x quick start guide

Accessories (Sold Separately)

AS-4CR: ADDER Secure 4-port card reader

AS-4RCU: ADDER Secure Remote control unit

AS-UHF: ADDER Secure USB port expander

RMK13: Rackmount kit

VSCD10: DP video cable. 2m

VSCD15: HDMI video cable. 2m

VSC22: Audio cable. 2m

VSC24: USB cable type A to type B. 2m

About Adder

Adder is a leading developer and thought leader in connectivity solutions. Adder's advanced range of KVM switches, extenders and IP solutions enable the control of local, remote and global IT systems across the enterprise. The company distributes its products in more than 60 countries through a network of distributors, resellers and OEMs.

Adder has offices in China, Germany, Japan, the Netherlands, Singapore, Spain, France, Sweden, United Kingdom and United States.

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THE IP KVM PEOPLE

DATA SHEET