



ADDERView® AVS 1124

Multi-Viewer



Secure multi-viewer switch for sharing KVM, plus analog audio between four computers spanning multiple security classification levels. The switch accepts HD DVI inputs and provides dual output ports for HDMI® at up to 4K video resolution.



Features

Video performance

Up to UHD 4K video output resolution is generated, thus the input signal quality is preserved, even in tile window layout.

Automatic switching

Switch channels (KVM plus audio) simply by moving the mouse across the screen border, whilst pressing the Ctrl key. This is a security feature to prevent accidental switching.

Flexible screen layout

Use preset window layouts, or move and resize windows to create custom layouts. Dual output ports allow for extended or duplicated modes.

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.

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.

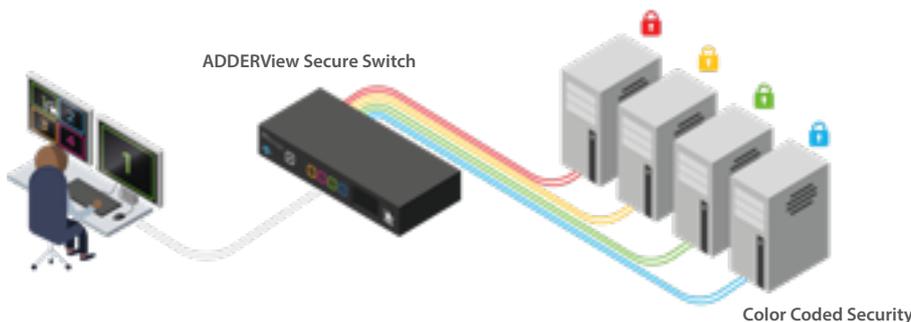


Product In Brief

The ADDERView Secure Multi-Viewer switch is designed to give operators managing mission-critical systems, simultaneous real-time access of up to four computers from a single KVM workstation. Users can instantly take control of the target PC by simply moving the mouse between windows.

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 Certified
Assembled in the USA
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

Video resolutions

- The system supports input resolutions up to HD (1920 x 1200). It generates output resolutions up to UHD 4K (3840 x 2160 @ 30Hz).

Software compatibility

- All commonly known software and operating systems including Windows®, Linux® and Mac host computer OS's USB HID.

Console connections

- 2x digital ports for HDMI®, USB type A, Audio 3.5mm
- RJ12 for remote control

Computer connections

- 4x DVI-D, USB type B, Audio 3.5mm

Front Panel

- Audio hold button and status LED
- 4x Channel selection button and status LED
- 212 x 104 E-paper status display

Physical design

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

Power supply

- 100-240V AC, 47/63Hz
- 12V DC 30W 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
- MTBF: 91k hours @ 40°C

Approvals

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



ADDERView AVS 1124 - Rear View

Ordering Information

AVS-1124: ADDERView Secure 4-port multi-viewer switch

What's in the Box?

- 1x 4-port multi-viewer 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
- RMK13:** Rackmount kit
- VSCD1:** DVI-D 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

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