



Secure KVM switch for sharing dual-head DVI 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 2214

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

Video inputs are isolated through separate electronic components and power. The display is isolated by a dedicated, read-only, EDID (Extended Display Identification Data) emulation for each computer, and access to the EDID and MCCC (Monitor Control Command Set) 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 1920x1200 at 60Hz for graphic intensive applications requiring very high quality.



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No Shared RAM Between Channels

The keyboard and mouse processor is powered down and reset at each switchover to stop avoid 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, while working on another.

Industry Recognized

NIAP PP 4.0 Certified and TAA Compliant

Automatic Switching (Configuration)

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

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) | 1920 x 1200 |
| Frame Rate (1 Screen) | 60 |
| Color Depth (1 Screen) | 8 bpc |
| Computer Connections | |
| USB B | 4x 2.0, HID Emulation |
| DVI-D | 8x |
| Console Connections | |
| USB A | 2x 2.0, HID Emulation |
| DVI-D | 2x |
| 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 |
|-------------------------|--|

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 |



ADDERView® Secure AVS 2214

What's in the Box?

1x 4 port switch

1x Power supply unit with universal mains cable

1x Quick start guide

Ordering Information

AVS-2214

ADDERView Dual-head secure 4-port switch

Related Accessories (Sold Separately)

ADDER® Secure Card Reader

ADDER® VSCD11 HDMI®/DVI-D Cable

ADDER® Secure Remote Control Unit

ADDER® VSC24 USB Cable

ADDER® DVI-D Single-Link Cable

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