






**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.







### 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, 47/63Hz12V 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 |

| 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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