

Secure KVM switch for sharing single-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 2114

Secure

Features



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.



Channel Identification

Reduce the chance 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.



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.



Video Performance

Up to 1920x1200 at 60Hz for graphic intensive applications, requiring very high quality.



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 MCCS (Monitor Control Command Set) commands are blocked.

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No Shared RAM Between Channels

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



Automatic Switching (Configuration)

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



Hardware Anti-Tampering

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



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.



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.



Uni-Directional Audio

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



Industry Recognized

NIAP PP 4.0 Certified and TAA Compliant

| Color Depth (1 Screen) 8 bpc Computer Connections USB B 4x 2.0, HID Emulation DVI-D 4x Console Connections USB A 2x 2.0, HID Emulation DVI-D 1x Serial Ports Serial Connection 1x R5232 Serial Connection Type (console) RJ12 (6p6c) Audio Connections 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 | Video Information (1 Screen) | |
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| Color Depth (1 Screen) 8 bpc Computer Connections USB B 4x 2.0, HID Emulation DVI-D 4x Console Connections USB A 2x 2.0, HID Emulation DVI-D 1x Serial Ports Serial Connection 1x R5232 Serial Connection 1x R5232 Serial Connection 7ype (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 | Maximum Resolution (1 Screen) | 1920 x 1200 |
| Computer Connections USB B | Frame Rate (1 Screen) | 60 |
| USB B 4x 2.0, HID Emulation DVI-D 4x Console Connections USB A USB A 2x 2.0, HID Emulation DVI-D 1x Serial Ports Serial Connection Serial Connection Type (console) RJ12 (6p6c) Audio Connections Analog Audio Type Analog Channels 2x Audio Direction Output only Audio IP Port 1x 3.5mm jack Audio Out Port 1x 3.5mm jack Network Support No 10/100 Support No Environmental Operating Temperature Range °C / °F 0 to 40 °C / 32 to 104 °F Storage Temperature Range °C / °F 0 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 Power Additional Information 100 - 240V AC, 47/63Hz12V DC 30W output from | Color Depth (1 Screen) | 8 bpc |
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| Console Connections USB A 2x 2.0, HID Emulation DVI-D 1x 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 | USB B | 4x 2.0, HID Emulation |
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| Network Support 10/100 Support No Environmental Operating Temperature Range °C / °F Storage Temperature °C / °F Range Operating Humidity (%) Storage Humidity (%) Temperature Regulation Power Source 12V 3-pin Input Power Supply PSU 2.5A Power Additional Information No 100 - 240V AC, 47/63Hz12V DC 30W output from | Audio In Port | 1x 3.5mm jack |
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| Operating Temperature Range °C / °F | 10/100 Support | No |
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| Power Additional Information 100 - 240V AC, 47/63Hz12V DC 30W output from | 12V 3-pin | 1x |
| • | Input Power Supply | PSU 2.5A |
| nower supply unit | Power Additional Information | 100 - 240V AC, 47/63Hz12V DC 30W output from |
| power supply unit | | power supply unit |
| Physical Design | Physical Design | |
| Construction Material Robust metal construction | Construction Material | Robust metal construction |

| Width (mm) / (in.) | 344 / 13.5 |
|---|--|
| Height (mm) / (in.) | 44 / 1.7 |
| Depth (mm) / (in.) | 171 / 6.7 |
| Weight (kg) / (lb) | 1.6 / 3.5 |
| Front Panel Features | |
| Multi color status LEDs | 4x |
| E-Paper Display | 1x |
| Audio Hold | 1x |
| | |
| Compatibility | |
| Compatibility OS Compatibility | Windows, Linux, macOS, All known operating |
| | Windows, Linux, macOS, All known operating systems |
| | , , |
| OS Compatibility | , , |
| OS Compatibility Approvals and Standards | systems |
| OS Compatibility Approvals and Standards Approvals | cE, cTUVus, FCC, UKCA |
| OS Compatibility Approvals and Standards Approvals | systems CE, cTUVus, FCC, UKCA EN/IEC 62368-1, EN55032 /CISPR 32, EN55035/CISPR |



What's in the Box?

1x 4 port switch

1x Power supply unit with universal mains cable

1x Quick start guide

Ordering Information

AVS-2114

ADDERView Single 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® Rackmount Kit RMK13

ADDER® DVI-D Single-Link Cable

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