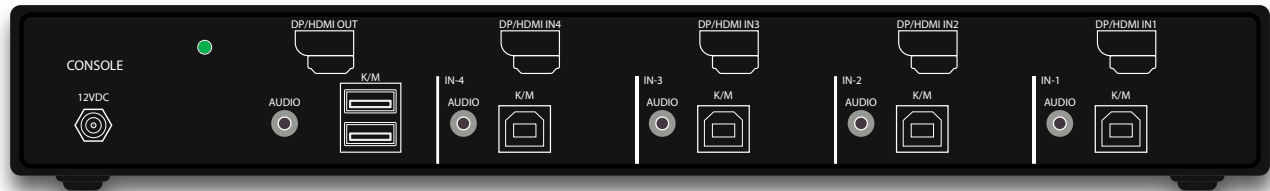


Secure 4-Port, Single-Head DP/HDMI to HDMI KVM Switch with 4K Ultra-HD Support



KEY FEATURES

- Supports Windows, Mac and Linux OS
- Single-head DP/HDMI to HDMI video interface
- 4K Ultra-HD resolution supports up to 3840 x 2160 @ 30 Hz
- Supports balanced speakers output and switching
- Front panel tactile buttons with LED indicator
- External power supply - Level VI efficiency

SECURITY FEATURES

- Non-reprogrammable ROM
- Active Anti-tamper switches
- Long-life internal Anti-tampering battery
- External tamper-evident seals
- Keyboard, Mouse and Video emulation
- Absolute isolation - No data leakage between ports
- Certified by NIAP, the latest Common Criteria (Protection Profile for Peripheral Sharing Switch Version 4.0)

APPLICATIONS

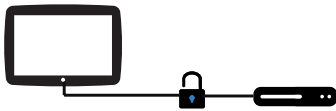
- | | |
|---|--|
| <ul style="list-style-type: none"> • Government Operations • Defense Applications • Secure Control Rooms • Corporate Communications • Server Operations • Educational Administrations | <ul style="list-style-type: none"> • Medical Facilities • Banking Network • Insurance Data Centers • Transit Management • Industrial Operation • Intelligence Communications |
|---|--|



WHY SECURE KVM?

Traditional non-secure KVM switches offer centralized control of multiple computers, but offer no absolute isolation between them. This exposes systems to the possibility of malicious damage and disruption, and acquisition of sensitive data from one computer to another.

Black Box's Secure KVM Switch is designed for use in secure defense and intelligence applications where sensitive data must be protected. The Secure KVM Switch is NIAP PP 4.0 certified and equipped with the highest security features that meet today's Information Assurance safe control standards. The switch prevents data leakage between computers that can run at different security levels, and eliminates any potential cyber threat.



SECURE EDID LEARN AND VIDEO EMULATION

The KVS4-1004HV simulates a generic EDID as default, allowing it to operate most of the connected monitors. Both selected and non-selected computers maintain a constant connection with the unit's video emulation controllers, allowing for ultra-fast switching and restricting discovery of newly connected monitors during switching operations. Upon activating the KVM, the unit will quickly and automatically learn new EDID for specific monitors. The unit then prevents unwanted and unsecure data from getting transmitted through DDC lines by means of secure EDID learning and emulation.



ULTRA-SECURE KVM SWITCHING

The KVS4-1004HV allows users to control KVM (Keyboard, Video and Mouse) operation on up to four computers with HDMI display. It features mechanical, electrical and optical signal isolation to prevent hacking and data leakage in environments where security is paramount.

With the KVS4-1004HV, all data relays are controlled by inverted signals, shielding connections from outside intrusion by forcing them each to work one at a time. Each port uses its own isolated data channel and each unit features non-reprogrammable ROM to better protect the switch's functions. Better yet, the KVS4-1004HV offers the highest security when accessing classified and public networks over the internet through these isolated connections. By isolating connections between networks, the KVS4-1004HV ensures no data is leaked between secure ports and the outside world.

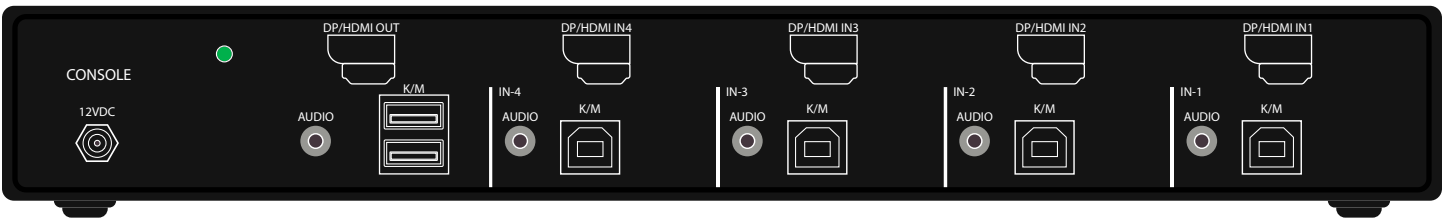
The KVS4-1004HV has clearly marked front-panel buttons for controlling the device, so securely switching between sources is always simple. For high-grade secure switching made easy, look no further than the KVS4-1004HV.



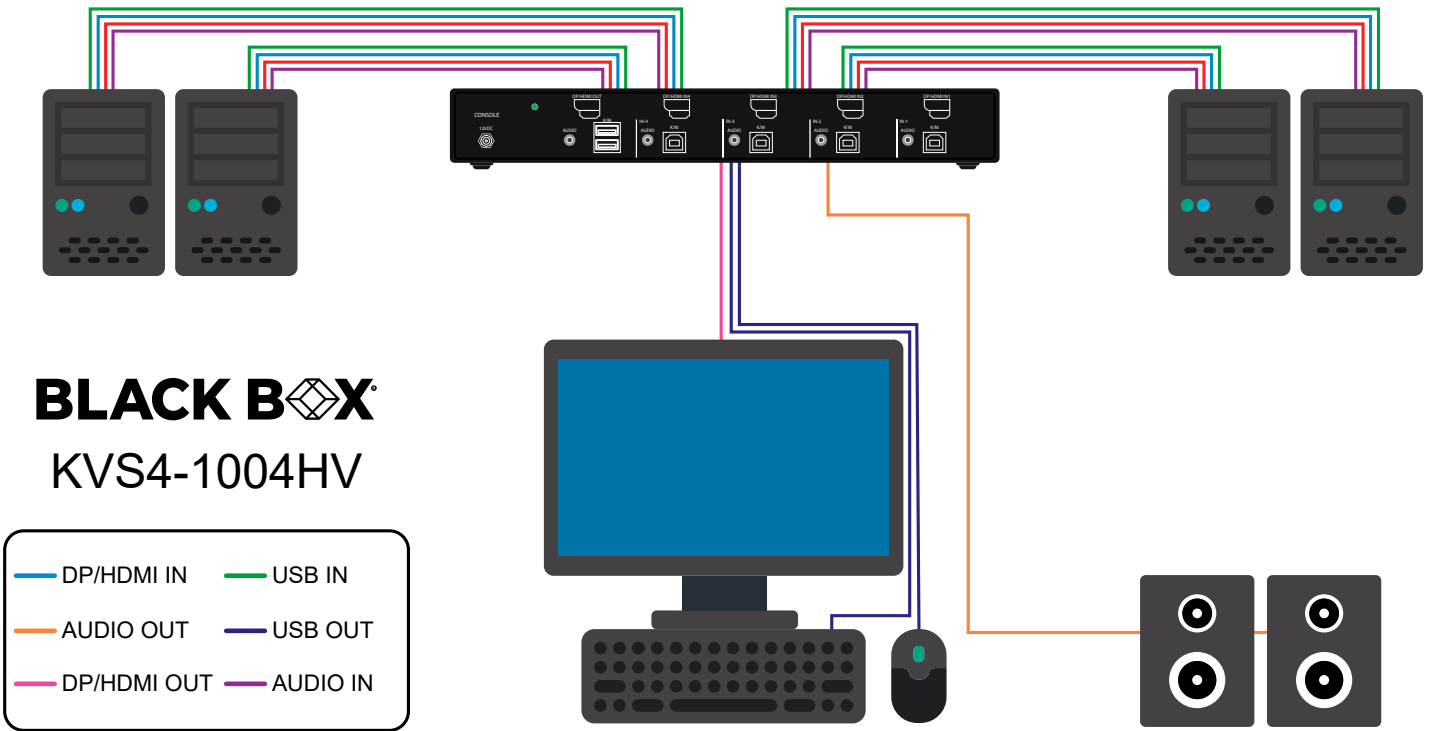
KEYBOARD AND MOUSE EMULATION

The Secure KVM emulates (simulates) the presence of a keyboard and mouse for every attached computer through a USB cable. Both selected and non-selected computers maintain a constant connection with the unit's keyboard-mouse emulation controllers, allowing for ultra-fast switching and restricting discovery of newly connected peripherals during switching operations. Emulation of keyboard and mouse also prevents direct connection between the peripherals and the connected computers, shielding systems from potential vulnerabilities.

KVS4-1004HV (Rear)



INSTALLATION DIAGRAM



SPECIFICATIONS

VIDEO	
Format	DisplayPort™, HDMI
Input Interface	(4) DisplayPort or HDMI
Output Interface	(1) DisplayPort or HDMI
Resolution	Up to 4K (3840x2160 @30Hz)
DDC	5 volts p-p (TTL)
Input Equalization	Automatic
Input Cable Length	Up to 20 ft.
Output Cable Length	Up to 20 ft.
USB	
Input Interface	(4) USB Type B
Output Interface	(2) USB 1.1 Type A for KM Devices
Emulation	USB 1.1 and USB 2.0 Compatible

AUDIO	
Audio Input	(4) 3.5mm stereo audio
Audio Output	(1) 3.5mm stereo audio
CONTROL	
Front Panel	Front panel SELECT buttons
OTHER	
Power	External 100-240 VAC/ 12VDC3A @ 36W
Dimensions	12.57" W x 1.76" H x 6.69" D
Weight	4.2 lbs
Approvals	NIAP PP 4.0, UL, CE, ROHS Compliant
Operating Temp.	+32 to +104°F (0 to +40°C)
Storage Temp.	-4 to 140°F (-20 to +60°C)
Humidity	Up to 80% (no condensation)

ORDERING INFORMATION	
Part No.	Description
KVS4-1004HV	4-Port SH Secure Pro DP/HDMI to DP/HDMI KVM w/audio, NO CAC, PP 4.0

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KVS4-1004HV

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