

## TECHNICAL SPECIFICATION

VIDEO	
Format	DisplayPort / HDMI
Input Interface	(8) DisplayPort 20-pin; (8) HDMI 19-pin
Output Interface	(2) DisplayPort 20-pin; (2) HDMI 19-pin
Resolution	3840 x 2160 @ 60 Hz
Color Mode	24-bit
DDC	5 volts p-p (TTL)
Input Equalization	Automatic
Input Cable Length	Up to 20 ft
Output Cable Length	Up to 20 ft
AUDIO	
Input Interface	(4) 3.5 mm Stereo Audio
Output Interface	(1) 3.5 mm Stereo Audio
Impedance	600 Ohm
Frequency Response	20 Hz to 20 kHz
Nominal Level	0-1.0 V
Common Mode	Rejection at 60 dB
USB	
Signal Type	USB 2.0, 1.1, and 1.0 w/ internal hub
Input Interface	(4) USB Type B
Output Interface	(2) USB 1.1 Type A for KVM Devices; (2) USB 2.0 Type A Transparent
CONTROL	
Front Panel	Push Buttons with LED Indicators
RS-232	Via Control @ 115200 bps
Hot Keys	Via Keyboard
OTHER	
Power	External 100-240 VAC/12VDC3A @ 24W
Dimensions	12.57" W x 2.7" H x 6.69" D
Weight	4.2 lbs
Approvals	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)
Emulation	Keyboard and Mouse

## WHAT'S IN THE BOX

PART NO.	Q-TY	DESCRIPTION
SM-UVH-4D	1	4-Port Dual-Head 4K/60Hz DP/HDMI KVM Switch with USB 2.0 & Aux Emulation
PS12VD3A	1	12-VDC, 3A power adapter with center-pin positive polarity
Quick Start Guide	1	

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**Smart-AVI**  
SMART AUDIO VIDEO INNOVATION

# SM-UVH-4D

## 4-PORT DUAL-HEAD UNIVERSAL DP & HDMI KVM SWITCH



**ACCESS AND CONTROL UP  
TO 4 COMPUTERS WITH ANY  
COMBINATION OF DP OR  
HDMI CONNECTIONS FROM A  
SINGLE USB KEYBOARD, MOUSE,  
AND TWO MONITORS**

**Quick Start Guide**

## UNIVERSAL DP & HDMI KVM

Unlike traditional KVM switches that lock you into a single format, the SM-UVH-4D is a universal solution that supports both DisplayPort and HDMI sources and monitors. You can mix and match DP and HDMI PCs and displays across the same unit without compromise, solving a growing challenge in multi-format environments.

## BUILT TO LAST – RELIABLE & SECURE

This tried-and-true design incorporates separate DisplayPort and HDMI connectors on every port, ensuring full compatibility while maintaining a slim rackmount form factor. The proprietary connector layout is safer and more robust than competitor designs, reducing the risk of damage from repeated use and making it ideal for demanding professional environments.

## CRISP 4K UHD PERFORMANCE

Supporting up to 4K@60Hz Ultra HD resolution, the SM-UVH-4D delivers pixelperfect clarity with zero signal loss, even in the most demanding workflows. Whether in medical imaging, command and control, or financial trading floors, the video quality stays sharp and stable.

## HOTKEY AND RS232 SERIAL CONTROL

The settings for the connection are as follows:  
Baudrate **115200**; Data Bits **8**; Parity **None**; Stop Bits **1**;  
Flow Control **None**.

The following commands can be used for RS-232 with available keyboard hotkeys:

COMMANDS	HOTKEY	RS232
Switch All USB and Video	[Ctrl][Ctrl] [port #] [Enter]	//m [port #] <cr>
Switch Channel forward	[Ctrl][Ctrl] [arrow up]	//[arrow up]
Switch Channel backward	[Ctrl][Ctrl] [arrow down]	//[arrow down]
Switch KVM Only	[Ctrl][Ctrl] <b>c</b> [port #] [Enter]	// <b>c</b> [port #] <cr>
Switch Audio Only	[Ctrl][Ctrl] <b>a</b> [port #] [Enter]	// <b>a</b> [port #] <cr>
Switch USB Only	[Ctrl][Ctrl] <b>u</b> [port #] [Enter]	// <b>u</b> [port #] <cr>
Learn EDID	[Ctrl][Ctrl] <b>e</b> [Enter]	// <b>e</b> <cr>
Trigger Hotplug	[Ctrl][Ctrl] <b>h</b> [Enter]	// <b>h</b> <cr>
Reset Software	[Ctrl][Ctrl] <b>r</b> [Enter]	// <b>r</b> <cr>
Factory Defaults	[Ctrl][Ctrl] <b>f</b> [Enter]	// <b>f</b> <cr>
Get Port Status	N/A	//?? <cr>

## HARDWARE INSTALLATION

1. Ensure that power is turned off or disconnected from the unit and the computers.
2. Use a DP or HDMI cable to connect the DP or HDMI output port from each computer to the corresponding DP/HDMI IN ports of the unit.
3. Use a USB cable (Type-A to Type-B) to connect a USB port on each computer to the respective USB ports of the unit.
4. Optionally connect a stereo audio cable (3.5mm to 3.5mm) to connect the audio output of the computers to the AUDIO IN ports of the unit.
5. Connect a monitor to the DP/HDMI OUT console port of the unit using a DP or HDMI cable.
6. Connect a USB keyboard and mouse in the two USB console ports.
7. Optionally connect stereo speakers to the AUDIO OUT port of the unit.
8. Finally, power on the KVM by connecting a 12VDC power supply to the power connector, and then turn on all the computers.

**Note:** You can connect up to 4 computers to the 4 port KVM.

