

## TECHNICAL SPECIFICATION

VIDEO	
Format	HDMI
Input Interface	(8) HDMI 19-pin
Output Interface	(1) HDMI 19-pin
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	
Signal Type	USB 2.0, 1.1 and 1.0 w/ internal hub
Input Interface	(8) USB Type B (female)
Output Interface	(2) USB Type-A for KM connection only (2) USB Type-A for USB 2.0 transparent
AUDIO	
Input Interface	(8) 3.5 mm Stereo Audio
Output Interface	(1) 3.5 mm Stereo Audio
CONTROL	
Front Panel	Buttons
RS-232	Via control @ 115200 bps
Hot Keys	Via keyboard
Mouse	PASS Technology and Mouse Gesture Switching
OTHER	
Power	External 100-240 VAC/12VDC3A @ 24W
Dimensions	17" W x 1.76" H x 8.69" D
Weight	6.3 lbs
Approvals	UL, CE, ROHS Compliant
Operating Temp.	32-131 °F (0-55 °C)
Storage Temp.	-4-185 °F (-20-85 °C)
Humidity	Up to 95%
Emulation	Keyboard and mouse

## WHAT'S IN THE BOX

PART NO.	Q-TY	DESCRIPTION
SM-HDN-8S	1	8-Port HDMI KVM Switch with Audio and USB 2.0 Support
PS12VD3A	1	PS12VD3A Power Supply
Quick Start Guide	1	

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**Smart-AVI**  
SMART AUDIO VIDEO INNOVATION

# SM-HDN-8S

## 8-Port HDMI KVM Switch with USB 2.0 Sharing



**ACCESS AND CONTROL  
UP TO 8 HDMI COMPUTERS  
FROM A SINGLE USB  
KEYBOARD/MOUSE  
AND MONITOR**

**Quick Start Guide**

[SmartAVI.com](http://SmartAVI.com)

## EDID LEARN

The KVM is designed to learn a connected monitor's EDID upon power up. In the event of connecting a new monitor to the KVM, a power re-cycle is required.

## SYSTEM CONTROL

There are three ways to control the SM-HDN: Keyboard HotKeys, RS-232 Serial Commands, and Front Panel Buttons.

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

Command	Hotkey	RS-232
Switch KVM	[CT] [CT] [#]<CR>	//m[#]<CR>
Audio Only	[CT] [CT] a[#]<CR>	//a[#]<CR>
KM Only	[CT] [CT] c[#]<CR>	//c[#]<CR>
USB Only	[CT] [CT] u[#]<CR>	//u[#]<CR>
Learn EDID	[CT] [CT] e<CR>	//e<CR>
SW Reset	[CT] [CT] r	//r<CR>
Status Query	N/A	//??<CR>
Current HK Trigger	[A1t] [A1t] [A1t] x 0<CR>	//hk <CR>
Update HK Trigger	[HK] [HK] x [1 2 3]<CR>	N/A

## CHART KEY

[CT] = Ctrl

<CR> = Carriage Return (Enter Key)

[HK] = Current Hot Key Trigger

**1** = Ctrl (Default) | **2** = Shift | **3** = Scroll Lock

## HARDWARE INSTALLATION

1. Ensure that power is turned off or disconnected from the unit and the computers.
2. Use DP cables to connect the DP output ports of each computer to the corresponding DP IN ports of the unit. The four DP ports of one computer must all be connected to one channel.
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 on both ends) to connect the audio output of the computer to the AUDIO IN ports of the unit.
5. Connect the monitors to the DP OUT console ports of the unit using DP cables.
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. 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 8 computers to the 8 port KM.

