



# SMARTAVI SM-UHN-4S 4 Port HDMI KVM Switch with Audio and USB 2.0 Support User Guide

[Home](#) » [SmartAVI](#) » SMARTAVI SM-UHN-4S 4 Port HDMI KVM Switch with Audio and USB 2.0 Support User Guide 

## Contents

- [1 SMARTAVI SM-UHN-4S 4 Port HDMI KVM Switch with Audio and USB 2.0 Support](#)
- [2 Specifications](#)
- [3 Product Usage Instructions](#)
- [4 HARDWARE INSTALLATION](#)
- [5 FAQ](#)
- [6 WHAT'S IN THE BOX](#)
- [7 EDID LEARN](#)
- [8 Documents / Resources](#)
  - [8.1 References](#)
- [9 Related Posts](#)



## SMARTAVI SM-UHN-4S 4 Port HDMI KVM Switch with Audio and USB 2.0 Support



## Specifications

<b>VIDEO</b>	
Format	HDMI
Input Interface	(4) HDMI 19-pin
Output Interface	(1) HDMI 19-pin
Resolution	Up to 4K (3840×2160 @60Hz)
DDC Input Equalization	Automatic
Input Cable Length	Up to 20 ft.
Output Cable Length	Up to 20 ft.
<b>USB</b>	
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
<b>AUDIO</b>	
Input	(4) 3.5 mm Stereo Audio
Output	(1) 3.5 mm Stereo Audio
<b>POWER</b>	
Power Requirements	12V DC, 2A power adapter with center-pin positive polarity
<b>ENVIRONMENT</b>	
Operating Temp	N/A
Storage Temp	N/A
Humidity	N/A
<b>CONTROL</b>	
Front Panel	Push Buttons with LED indicators
RS-232	Via Serial @ 115200 bps
Hot Keys	Via Keyboard
<b>OTHER</b>	
Emulation	Keyboard, Mouse and Video

## Product Usage Instructions

### EDIT 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-UHN: 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.

The following commands can be used :

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

### Chart Key:

[CT] = Ctrl

[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 HDMI cables to connect the HDMI output ports from each computer to the corresponding HDMI 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 monitors to the HDMI console ports of the unit using HDMI 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. 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.

## FAQ

**Q: Where can I download the full manual for the SM-UHN-4S**

A: The full manual can be downloaded from [www.smartavi.com/SM-UHN-4S/](http://www.smartavi.com/SM-UHN-4S/).

**Q: How many computers can be connected to the 4-port HDMI KVM Switch**

A: You can connect up to 4 computers to the 4-port HDMI KVM Switch.

VIDEO	
Format	HDMI
Input Interface	(4) HDMI 19-pin
Output Interface	(1) HDMI 19-pin
Resolution	Up to 4K (3840×2160 @60Hz)
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	(4) USB Type B

Output Interface	(2) USB 1.1 Type A for KVM Devices (2) USB 2.0 Type A Transparent
AUDIO	
Input	(4) 3.5 mm Stereo Audio
Output	(1) 3.5 mm Stereo Audio
POWER	
Power Requirements	12V DC, 2A power adapter with center-pin positive polarity
ENVIRONMENT	
Operating Temp	32° to 104° F (0° to 40° C)
Storage Temp	-4° to 140° F (-20° to 60° C)
Humidity	0-80% RH, non-condensing
CONTROL	
Front Panel	Push Buttons with LED indicators
RS-232	Via Serial @ 115200 bps
Hot Keys	Via Keyboard
OTHER	
Emulation	Keyboard, Mouse and Video

## WHAT'S IN THE BOX

PART NO.	QTY	DESCRIPTION
SM-UHN-4S-S	1	4-Port HDMI KVM Switch with Audio and USB 2.0 Support.
PS12VD2A	1	12V DC, 2A power adapter with center-pin positive polarity.
	1	Quick Start Guide

## NOTICE

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## 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-UHN: 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**.

**The following commands can be used:**

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	[Alt][Alt][Alt] 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)

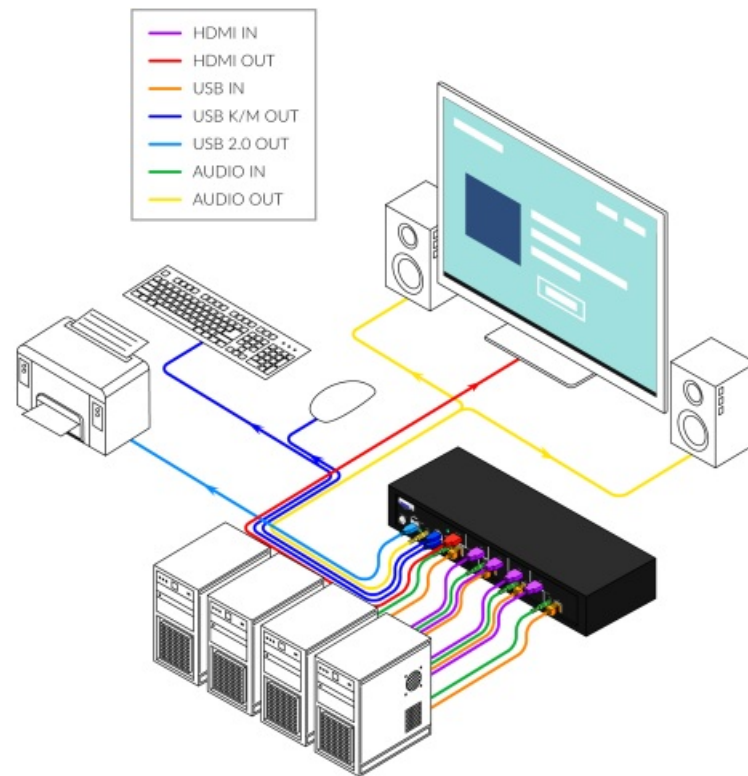
[HK] = Current Hot Key Trigger

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


## HARDWARE INSTALLATION

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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.



## Documents / Resources

	<p><a href="#">SMARTAVI SM-UHN-4S 4 Port HDMI KVM Switch with Audio and USB 2.0 Support</a> [pdf] User Guide</p> <p>SM-UHN-4S 4 Port HDMI KVM Switch with Audio and USB 2.0 Support, SM-UHN-4S, 4 Port HDMI KVM Switch with Audio and USB 2.0 Support, KVM Switch with Audio and USB 2.0 Support, Audio and USB 2.0 Support, USB 2.0 Support, Support</p>
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## References

- [Home - SmartAVI](#)
- [SM-UHN-4S - SmartAVI](#)
- [User Manual](#)