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SMARTAVI SM-UHN-2S Advanced KVM Switch User Guide

Contents

SMARTAVI SM-UHN-2S Advanced KVM Switch

Technical Specifications

- **Video Format:** HDMI2.1
- **Host Interface:** (2) HDMI
- **User Console Interface**: (1) HDMI
- **Max 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
- **USB Signal Type:** USB 2.0, 1.1, and 1.0 w/ internal hub
- **Input Interface: (**2) USB Type B
- **Output Interface:** (2) USB 1.1 Type A for KVM Devices, (2) USB 2.0 Type A Transparent
- **Audio Input:** (2) 3.5mm stereo audio (female)
- **Audio Output:** (1) 3.5mm stereo audio (female)
- **Power Requirements:** 12V DC, 2A power adapter with center-pin positive polarity
- **Operating Temp:** N/A
- **Storage Temp:** N/A
- **Humidity:** N/A

Product Usage Instructions

System Control
There are three ways to control the KVM Switch:

1. Keyboard HotKeys
2. RS-232 Serial Commands
3. 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
All USB/Video/Audio	[CT][CT][#]	//m[#]
Audio Only	[CT][CT]a[#]	//a[#]
KVM Only	[CT][CT]c[#]	//c[#]
USB Only	[CT][CT]u[#]	//u[#]
Learn EDID	[CT][CT]e	//e
Trigger Hotplug	[CT][CT]h	//h
Reset Software	[CT][CT]r	//r
Factory Defaults	[CT][CT]f	//f
Get Port Status	N/A	//??

Custom Hotkey Triggers
Users are able to customize the keys that trigger Hotkeys. The following keys are allowed: CT (Left/Right), Alt, Shift (Left/Right), Caps Lock, Scroll Lock, F1-F12

- **To change HK Trigger:** HK + HK + X + desired hotkey
- **To view current HK Trigger:** Use the RS-232 command: //??
- **Default HotKey Trigger:** CT (Left)

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 2 computers to the 2 port KVM.

FAQ

- **Q: Where can I download the full manual?**

  A: The full manual can be downloaded from **www.ipgard.com/SM-UHN-2S/**
- **Q: How many computers can I connect to the 2 port KVM?**

  A: You can connect up to 2 computers to the 2 port KVM.

SM-UHN-2S
Advanced KVM Switch

SINGLE-HEAD 2-PORT HDMI KVM SWITCH WITH USB 2.0 SHARING

Quick Start Guide

A full manual can be downloaded from www.ipgard.com/SM-UHN-2S/

WHAT'S IN THE BOX

PART NO.	QTY	DESCRIPTION
SM-UHN-2S	1	2-port, SH HDMI KVM Switch
PS12VDC2A	1	12-VDC, 2-A power adapter with center-pin positive polarity.
	1	Quick Start Guide

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TECHNICAL SPECIFICATIONS

VIDEO	
Fornat	HDMI2.1
Host Interface	(2) HDMI
User Console Interface	(1) HDMI
Max 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	(2) USB Type B
Output Interface	• (2) USB 1.1 Type A for KVM Devices • (2) USB 2.0 Type A Transparent
AUDIO	
Audio Input	(2) 3.5mm stereo audio (female)
Audio Output	(1) 3.5mm stereo audio (female)
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

SYSTEM CONTROL

There are three ways to control the KVM Switch: 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
All USB/Video/Audio	[CT][CT][#]<CR>	//**m**[#]<CR>
Audio Only	[CT][CT]**a**[#]<CR>	//**a**[#]<CR>
KVM Only	[CT][CT]**c**[#]<CR>	//**c**[#]<CR>
USB Only	[CT][CT]**u**[#]<CR>	//**u**[#]<CR>
Learn EDID	[CT][CT]**e**<CR>	//**e**<CR>
Trigger Hotplug	[CT][CT]**h**<CR>	//**h**<CR>
Reset Software	[CT][CT]**r**<CR>	//**r**<CR>
Factory Defaults	[CT][CT]**f**<CR>	//**f**<CR>
Get Port Status	N/A	//**??**<CR>

Chart Key

- [CT] = Ctrl
- <CR> = Carriage Return (Enter Key)
- [HK] = Current Hot Key Trigger

CUSTOM HOTKEY TRIGGERS

- Users are able to customize the keys that trigger Hotkeys. The following keys are allowed: CT (Left/Right), Alt, Shift (Left/Right), Caps Lock, Scroll Lock, F1-F12
- Change HK Trigger
- HK + HK + X + desired hotkey
- View Current HK Trigger
- Use the RS-232 command: //??<CR>
- Default HotKey Trigger
- CT (Left)

HARDWARE INSTALLATION

1. Ensure that power is turned off or disconnected from the unit and the computers.
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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 2 computers to the 2 port KVM.

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Documents / Resources

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SM-UHN-2S Advanced KVM Switch, SM-UHN-2S, Advanced KVM Switch, KVM Switch, Switch

References

- **[Home | IPGARD](#)**
- **[User Manual](#)**