

SM3-UHX-2D

2-PORT DUAL HEAD DP/HDMI TO HDMI KVM SWITCH WITH USB 3.2



USER MANUAL



Designed and Manufactured in the USA

Smart-AVI

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INTRODUCTION

The SM3-UHX-2D KVM Switch allows the control of two computers with 4K dual HDMI video output via a single console set of USB keyboard/mouse/hub, microphone, speaker and display. The SM3-UHX-2D KVM Switch has built-in USB 3.2 gen 1 compliant and 3.5mm mini stereo ports allow sharing of the USB keyboard/mouse/hub, speaker, and microphone among the connected computers. The switching between the connected computers is executed by using the front panel or keyboard hotkey commands. Product set-up is quick and simple with no software to install, so you're ready to go right out of the box.

FEATURES

- Control two computers via one USB console
- Support the computer with resolution up to 4K UHD (3840 x 2160 @ 60 Hz) dual-head HDMI video output
- HDMI 2.0 & HDCP 2.2 compliant
- Includes two USB 3.2 gen 1 and one USB Type C ports
- DisplayPort 1.2 compliant
- Flexible and easy switching
- Computers and devices can be unplugged and re-plugged without having to shut down the KVM switch
- Indicate the connected computers' statuses clearly
- Control the computer conveniently & easily
- USB transparency suitable for variety of peripherals
- Support the computer's audio line in/out
- Perform under no software installation

TECHNICAL SPECIFICATIONS

VIDEO	
Format	HDMI2.0
Maximum Pixel Clock	165 MHz
Input Interface	(2) DisplayPort, (2) HDMI
Output Interface	(2) HDMI
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.
Data Rate	1.65 Gbps per color
Console Monitors	Supports both digital and analog monitors
AUDIO	
Input Interface	(2) 3.5 mm Stereo Audio, (2) 3.5 mm Stereo Microphone
Output Interface	(1) 3.5 mm Stereo Audio, (1) 3.5 mm Stereo Microphone
Impedance	600 Ohm
Frequency Response	20 Hz to 20 kHz
Nominal Level	0-1.0 V
Common Mode	Rejection at 60 dB
SOFTWARE COMPATIBILITY	
Operating Systems	Operates with virtually any OS including Windows, DOS, Linux, Unix, Sun, Mac, etc.
USB	
Signal Type	USB 3.2, 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 KM Devices, (2) USB 3.2 Type A Transparent, (1) USB Type C
OTHER	
Power	Input: 100-240 VAC, 50/60Hz, 0.8A, Output: 12V, 2A
Dimensions	6.57"W x 3.31"D x 1.26"H
Weight	0.5 lb
Approvals	UL, CE, ROHS Compliant
Operating Temperature	+32 to +104°F (0 to +40°C)
Storage Temperature	-4 to 140°F (-20 to +60°C)
Humidity	Up to 80% (No Condensation)
Emulation	Keyboard and Mouse

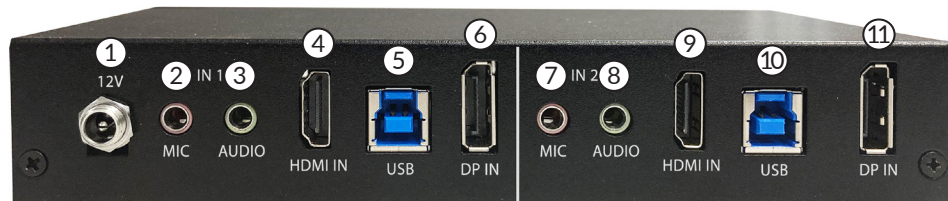
HARDWARE DESCRIPTION

Front Panel



No.	Component	Description
1	Audio jack	Microphone port at console
2	Reset push button	Press to reset system to default
3	Audio jack	Speaker/Earphone port at console
4	HDMI connector	HDMI-2 output at console
5	HDMI connector	HDMI-1 output at console
6, 9	Selected PC/server indicator	Light to indicate that the PC/server connected to the corresponding port is being accessed by the KVM console
8	PC port switch push-button	Press once to switch the console port connection between the two connected PC/server cyclically
7, 10	On-line PC/server indicator	Light to indicate that the PC/server connected to the corresponding port is up and running
11	USB Type C connector	USB port at console
12	USB Type A connector x 2	USB keyboard & mouse ports at console
13	USB Type A connector x 2	USB hub ports at console for peripherals

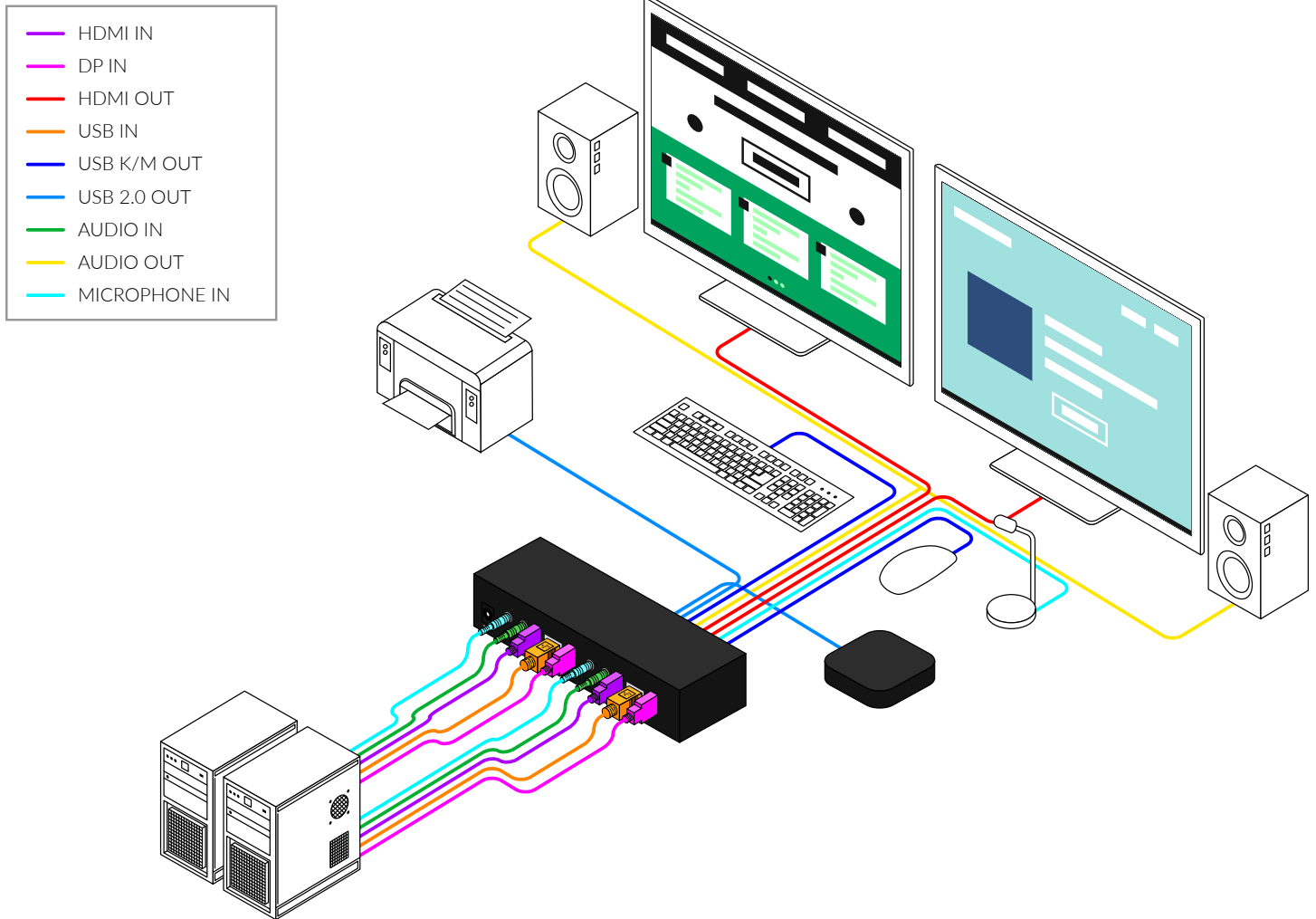
Rear Panel



No.	Component	Description
1	Power DC jack	Connect the power supply to the KVM switch here
2	Audio jack	Microphone port for PC-1
3	Audio jack	Speaker/Earphone port for PC-1
4	HDMI connector	HDMI input for PC-1
5	USB Type B connector	USB port for PC-1
6	DisplayPort connector	DisplayPort input for PC-1
7	Audio jack	Microphone port for PC-2
8	Audio jack	Speaker/Earphone port for PC-2
9	HDMI connector	HDMI input for PC-2
10	USB Type B connector	USB port for PC-2
11	DisplayPort connector	DisplayPort input for PC-2

INSTALLATION

Refer to the following steps and diagram to set up your dual-head KVM switch installation.



1. Connect HDMI monitor to the “HDMI Out” console ports on the front panel of the KVM switch.
2. Connect your USB keyboard and USB mouse directly to the USB keyboard and mouse ports on the front panel of the KVM switch.
3. Connect the microphone and speaker to the corresponding 3.5 mm Mini Stereo console jacks on the front panel of the KVM switch.
4. Connect your USB devices into the USB ports. (Optional).
5. Be prepared with the related cables, plug the HDMI, USB, microphone, and speaker connectors into their corresponding sockets on the back panel of the KVM switch
6. At the other end of the cable set, plug the HDMI, USB, microphone, and speaker connectors into their respective ports on the first computer (PC-1).
7. Repeat above steps to add the second computer (PC-2).
8. Connect the power supply to the KVM switch, and then plug it into an appropriate power source.
9. Turn on the power to all connected devices.

OPERATION

PC Port Switching

There are two ways of accessing computers and devices connected to the KVM switch:

- Manual Push-button
- Hotkey

Manual Pushbutton

- Press the push-button once to switch the selected PC port between the two connected computers cyclically

Hotkey

- Hotkeys are executed using the keyboard
- The following describes the hotkey functionality availability

Hotkey Execution Procedure:

1. Press [Scroll Lock] key twice continuously to enter “Hotkey” mode.
When entering or exiting from “Hotkey” mode, the buzzer of the KVM switch sounds with beep.
2. Pressing [Scroll Lock] key twice continuously MUST be completed within 5 seconds.
3. Keying hotkey command MUST be completed with 10 seconds, or it will be aborted if exceeding

#	Hotkey Command	Description	Function
1	[Scroll Lock] [Scroll Lock] [Enter] or [Ctrl] [Ctrl] [Enter]	PC-1 ◀ ▶ PC-2	PC port cyclic switching
2	[Scroll Lock] [Scroll Lock] [B] [Number] or [Ctrl] [Ctrl] [B] [Number]	Number : 0 / 1 0 : Disable 1 : Enable (Default)	Buzzer switch ON/ OFF
3	[Scroll Lock] [Scroll Lock] [S] or [Ctrl] [Ctrl] [S]	How to stop Auto-Scan when it's on: 1. Press any key of the keyboard 2. Press once the pushbutton When Auto-Scan stops, PC port is switched to the one being scanned.	Auto-Scan enabling
4	[Scroll Lock] [Scroll Lock] [I] [Number] [Enter] or [Ctrl] [Ctrl] [I] [Number] [Enter]	Number : 5~99 (Default : 8)	Auto-Scan time interval setting

** KVM switch will remain hotkey setting values when it restarts.

TROUBLESHOOTING

No Power

- Make sure that the power adapter is securely connected to the power connector of the unit.
- Check the output voltage of the power supply and make sure that the voltage value is around 12VDC.
- Replace the power supply.

No Video

- Check if all the video cables are connected properly.
- Connect the computer directly to the monitor to verify that your monitor and computer are functioning properly.
- Restart the computers.

Keyboard is not working

- Check if the keyboard is properly connected to the unit.
- Check if the USB cables connecting the unit and the computers are properly connected.
- Try connecting the USB on the computer to a different port.
- Make sure that the keyboard works when directly connected to the computer.
- Replace the keyboard.

Mouse is not working

- Check if the mouse is properly connected to the unit.
- Try connecting the USB on the computer to a different port.
- Make sure that the mouse works when directly connected to the computer.
- Replace the mouse.

No Audio

- Check if all the audio cables are connected properly.
- Connect the speakers directly to the computer to verify that the speakers and the computer audio are functioning properly.
- Check the audio settings of the computer and verify that the audio output is through the speakers.

TECHNICAL SUPPORT

For product inquiries, warranty questions, or technical questions, please contact info@smartavi.com.

LIMITED WARRANTY STATEMENT

A. Extent of limited warranty

SmartAVI, Inc. warrants to the end-user customers that the SmartAVI product specified above will be free from defects in materials and workmanship for the duration of 1 year, which duration begins on the date of purchase by the customer. Customer is responsible for maintaining proof of date of purchase.

SmartAVI limited warranty covers only those defects which arise as a result of normal use of the product, and do not apply to any:

- a. Improper or inadequate maintenance or modifications
- b. Operations outside product specifications
- c. Mechanical abuse and exposure to severe conditions

If SmartAVI receives, during applicable warranty period, a notice of defect, SmartAVI will at its discretion replace or repair defective product. If SmartAVI is unable to replace or repair defective product covered by the SmartAVI warranty within reasonable period of time, SmartAVI shall refund the cost of the product.

SmartAVI shall have no obligation to repair, replace or refund unit until customer returns defective product to SmartAVI.

Any replacement product could be new or like new, provided that it has functionality at least equal to that of the product being replaced.

SmartAVI limited warranty is valid in any country where the covered product is distributed by SmartAVI.

B. Limitations of warranty

To the extent allowed by local law, neither SmartAVI nor its third party suppliers make any other warranty or condition of any kind whether expressed or implied with respect to the SmartAVI product, and specifically disclaim implied warranties or conditions of merchantability, satisfactory quality, and fitness for a particular purpose.

C. Limitations of liability

To the extent allowed by local law the remedies provided in this warranty statement are the customers sole and exclusive remedies.

To the extent allowed by local law, except for the obligations specifically set forth in this warranty statement, in no event will SmartAVI or its third party suppliers be liable for direct, indirect, special, incidental, or consequential damages whether based on contract, tort or any other legal theory and whether advised of the possibility of such damages.

D. Local law

To the extent that this warranty statement is inconsistent with local law, this warranty statement shall be considered modified to be consistent with such law.

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SMART AUDIO VIDEO INNOVATION

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