

# SM-MST SERIES

## MST DP KVM WITH MULTIPLE 4K HDMI OUT



## USER MANUAL

SM-MST-2S	2 Port KVM MST with Dual 4K HDMI Out
SM-MST-2D	2 Port KVM MST with Quad 4K HDMI Out
SM-MST-4S	4 Port KVM MST with Dual 4K HDMI Out
SM-MST-4D	4 Port KVM MST with Quad 4K HDMI Out



Designed and Manufactured in the USA

**Smart-AVI**

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www.smartavi.com

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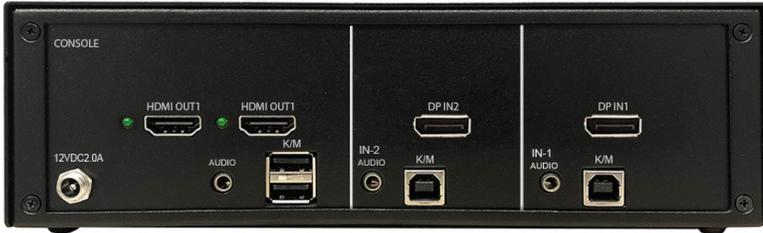
# TECHNICAL SPECIFICATIONS

VIDEO		
Format	DisplayPort1.2a	
Input Interface (TX)	SM-MST-2S	(2) DisplayPort1.2a
	SM-MST-2D / SM-MST-4S	(4) DisplayPort1.2a
	SM-MST-4D	(8) DisplayPort1.2a
Output Interface (RX)	SM-MST-2S / SM-MST-4S	(2) HDMI
	SM-MST-2D / SM-MST-4D	(4) HDMI
Input Resolution	Up to 4K (3840 x 2160 @ 60 Hz)	
Output Resolution	Up to 4K (3840 x 2160 @ 30 Hz)	
DDC	5 volts p-p (TTL)	
Input equalization	Automatic	
Input cable length	Up to 20 ft	
Output cable length	Up to 20 ft	
USB		
Input interface (TX)	(2) USB type B	
Output interface (RX)	(2) USB 1.1 Type A for KM Devices	
Emulation	USB 1.1 and USB 2.0 Compatible	
AUDIO		
Audio Input	(2) 3.5mm stereo audio	
Audio Output	(1) 3.5mm stereo audio	
CONTROL		
Front Panel	Front panel SELECT buttons	
CONTROL		
Power	External 100-240 VAC/ 12VDC2A @ 24 W	
Dimensions	SM-MST-2S / SM-MST-2D	8.8" W x 2.63" H x 6.69" D
	SM-MST-4S	12.57" W x 1.76" H x 6.69" D
	SM-MST-4D	12.57" W x 2.7" H x 6.69" D
Weight	SM-MST-2S / SM-MST-2D	3.85 lbs
	SM-MST-4S	4.2 lbs
	SM-MST-4D	4.5 lbs
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)	

# WHAT'S IN THE BOX?

SM-MST Unit	2/4 Port KVM MST with Dual or Quad 4K HDMI Out
PS12V2A	12V DC, 2A (minimum) power adapter with center-pin positive polarity.
User Manual	

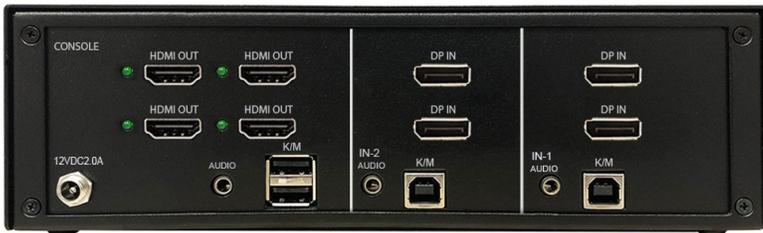
## SM-MST-2S REAR



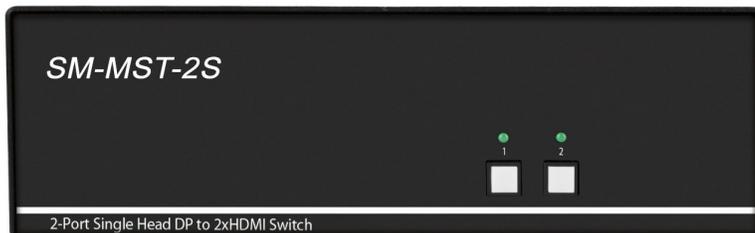
## SM-MST-2S FRONT



## SM-MST-2D REAR



## SM-MST-2D FRONT



## SM-MST-4S REAR



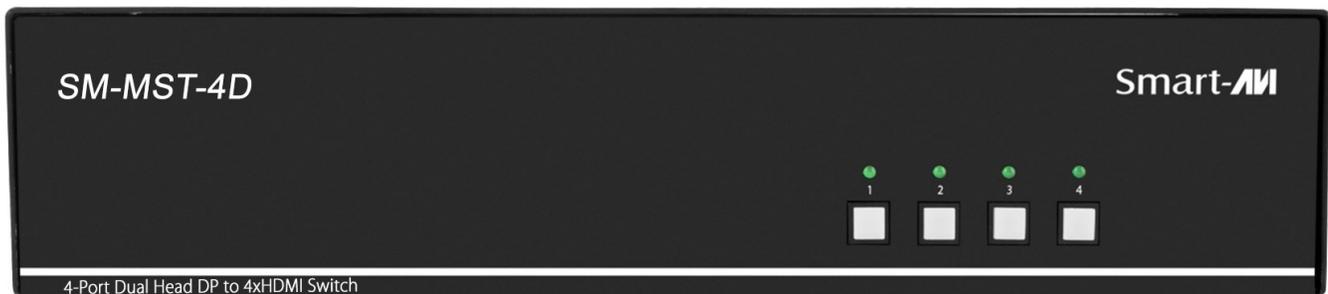
## SM-MST-4S FRONT



## SM-MST-4D REAR



## SM-MST-4D FRONT

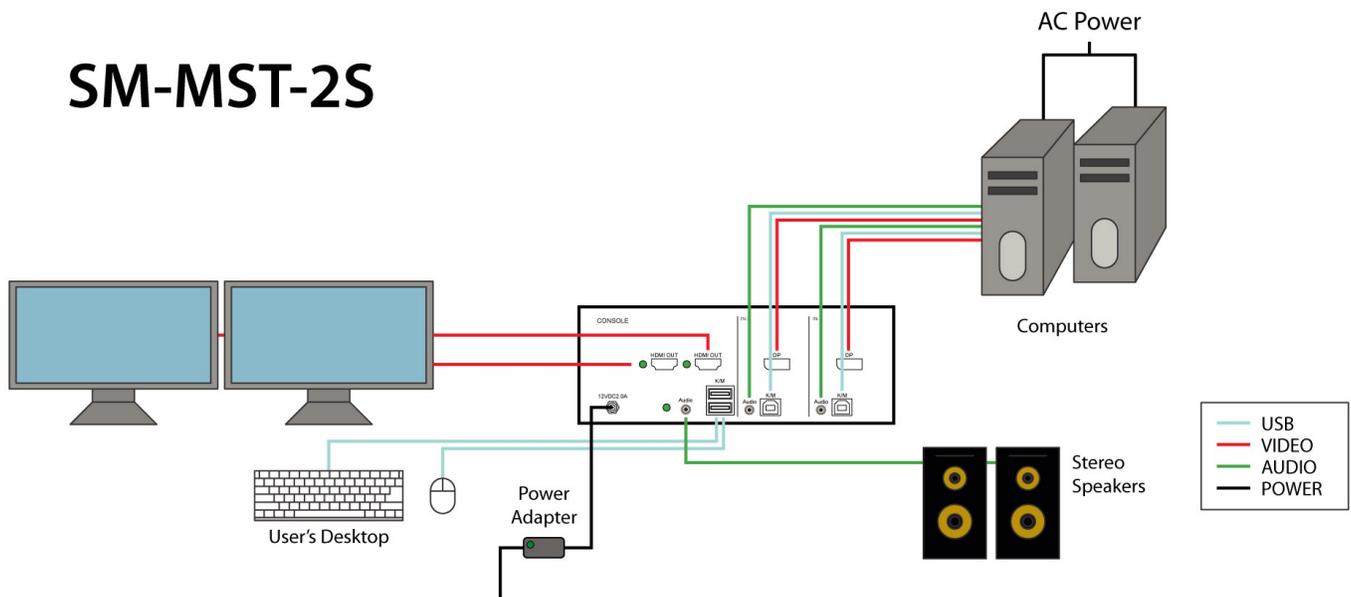


# INSTALLATION

1. Ensure that power is turned off or disconnected from the unit and the computers.
2. Use a **DisplayPort cable** to connect the DP output port from each computer to the corresponding DP 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 HDMI OUT console port of the unit using a **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.

## APPLICATION DIAGRAM SM-MST-2S

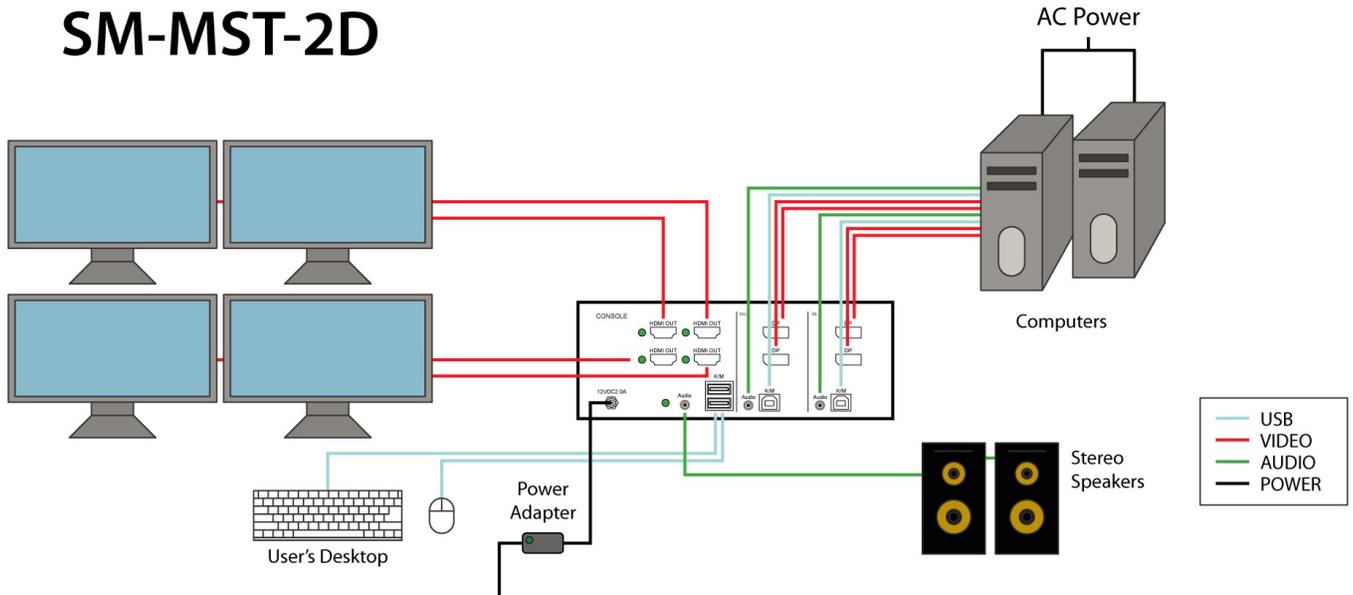
The SM-MST-2S converts a single DisplayPort 1.2 input signal to two separate HDMI Output connections through advanced MultiStream Transport technology. This allows a user to extend their display and achieve resolutions of up to 4K (3840 x 2160 @ 30 Hz) on each connected monitor without from single DP port.



Part No.	Description
SM-MST-2S	2 Port KVM MST with Dual 4K HDMI Out. Includes: [SM-MST-2S-S; PS12V2A]

# APPLICATION DIAGRAM SM-MST-2D

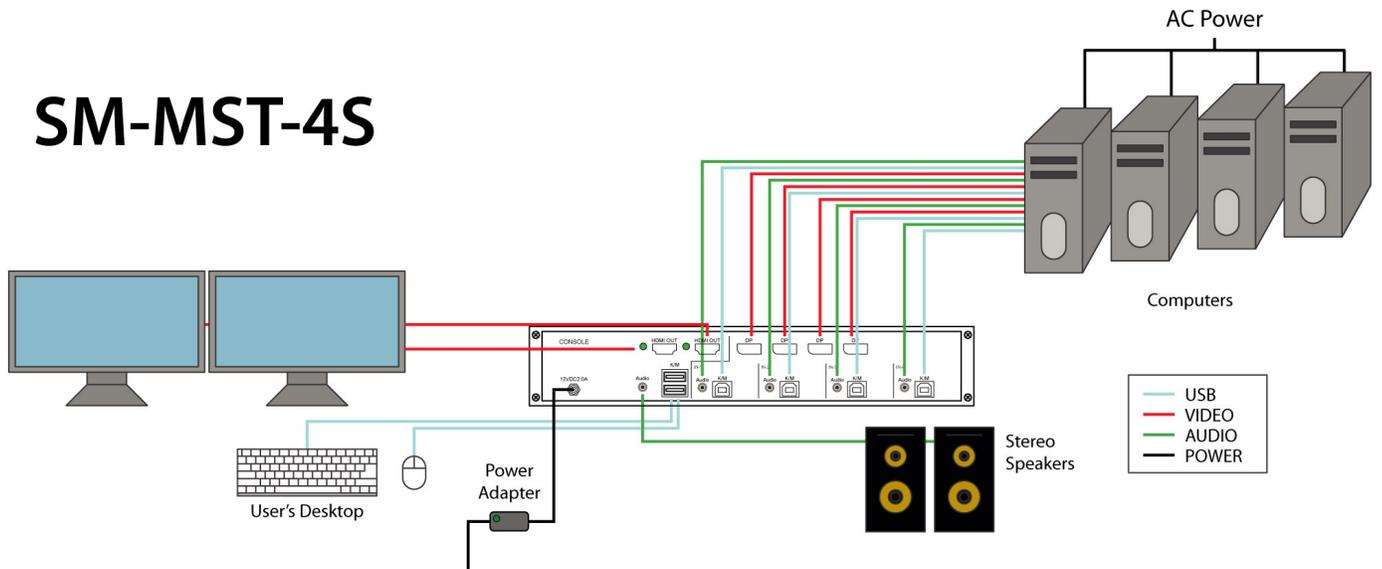
The SM-MST-2D converts a dual DisplayPort 1.2 input signal to four separate HDMI Output connections through advanced MultiStream Transport technology. This allows a user to extend their display and achieve resolutions of up to 4K (3840 x 2160 @ 30 Hz) on each connected monitor without from single DP port.



Part No.	Description
SM-MST-2D	2 Port KVM MST with Quad 4K HDMI Out. Includes: [SM-MST-2D-S; PS12V2A]

# APPLICATION DIAGRAM SM-MST-4S

The SM-MST-4S converts a single DisplayPort 1.2 input signal to two separate HDMI Output connections through advanced MultiStream Transport technology. This allows a user to extend their display and achieve resolutions of up to 4K (3840 x 2160 @ 30 Hz) on each connected monitor without from single DP port.

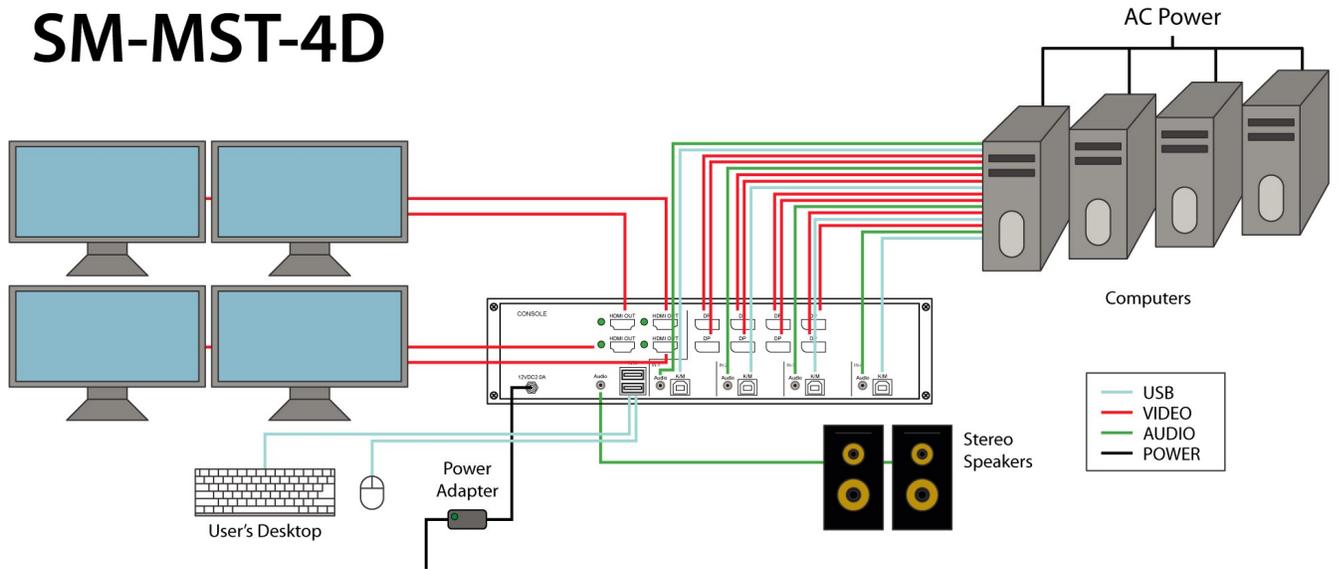


Part No.	Description
SM-MST-4S	4 Port KVM MST with Dual 4K HDMI Out. Includes: [SM-MST-4S-S; PS12V2A]

# APPLICATION DIAGRAM SM-MST-4D

The SM-MST-4D converts a dual DisplayPort 1.2 input signal to four separate HDMI Output connections through advanced MultiStream Transport technology. This allows a user to extend their display and achieve resolutions of up to 4K (3840 x 2160 @ 30 Hz) on each connected monitor without from single DP port.

## SM-MST-4D



Part No.	Description
SM-MST-4D	4 Port KVM MST with Quad 4K HDMI Out. Includes: [SM-MST-4D-S; PS12V2A]

# 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](mailto: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.

# Smart-AVI

SMART AUDIO VIDEO INNOVATION

## NOTICE

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