

# HDMV-8X

## 8 Port Full HD Multiviewer Real-Time USB/KVM Switch



**View up to eight different HD digital video sources on one display device simultaneously**

## FEATURES

- View up to eight sources on a single monitor at the press of a button
- Supports USB keyboard and mouse
- Display each computer with clean and crisp high-resolution video
- Supports DVI-D input resolutions up to 1920 x 1200
- Supports up to 4k HDMI output (3640 x 2160)
- Control any one computer or device while monitoring seven others
- Delivers uncompressed digital video with zero signal loss
- HDCP and HDMI 1.4 compliant
- Supports EDID for total control of compliant displays
- Outputs HDMI up to 20 ft
- Change views by pressing the tactile switches, entering keyboard hotkeys, or commands sent through RS-232
- Quad-mode splits the screen to show four sources on one screen
- Dual-mode splits the screen to show two sources on one screen

## APPLICATIONS

- Corporate or Educational Presentations
- Financial (Remote Servers/User Control)
- Call Centers for Technical Support
- Industrial (Long-Range Workstation Isolation)
- Airport Installations (Air Traffic Control/Passenger Information)
- Medical (Remote Operation Away from Sensitive/Magnetic Equipment)
- Recording (for Large Studios where Editing/Mixing Stations are Compact and/or Require Complete Silence)



**Smart-AVI**  
www.smartavi.com

# HD MULTIVIEWER SERIES

The HDMV-8X is a member of SmartAVI's HD Multiviewer series of products. It allows users to view up to eight different HD digital video sources on one display device simultaneously. HDMV-8X also supports USB keyboard and mouse functionality, allowing the user to access all eight displays from one KVM set. Connections to video sources are managed via HDMI or DVI adapters, with advanced viewing options such as dual-mode, quadmode, full-screen mode, and others. Use this device to simplify the management of multiple video sources by accessing and controlling them from a single set of controls on one display.

## A VIBRANT MULTIVIEWING EXPERIENCE

The HD Multiviewer series can be used in many applications that require real-time monitoring of multiple devices, like HDTV, DVD players, cameras and computers. It is the perfect solution in situations where a user needs to monitor several sources at the same time. In Air Traffic Control environments, several computers are required to monitor the progress of flights and flight information. With HDMV-8X the user is able to manage each computer and monitor the progress without having to switch between sources, making it the perfect solution for multitasking.

## SIMPLE OPERATION

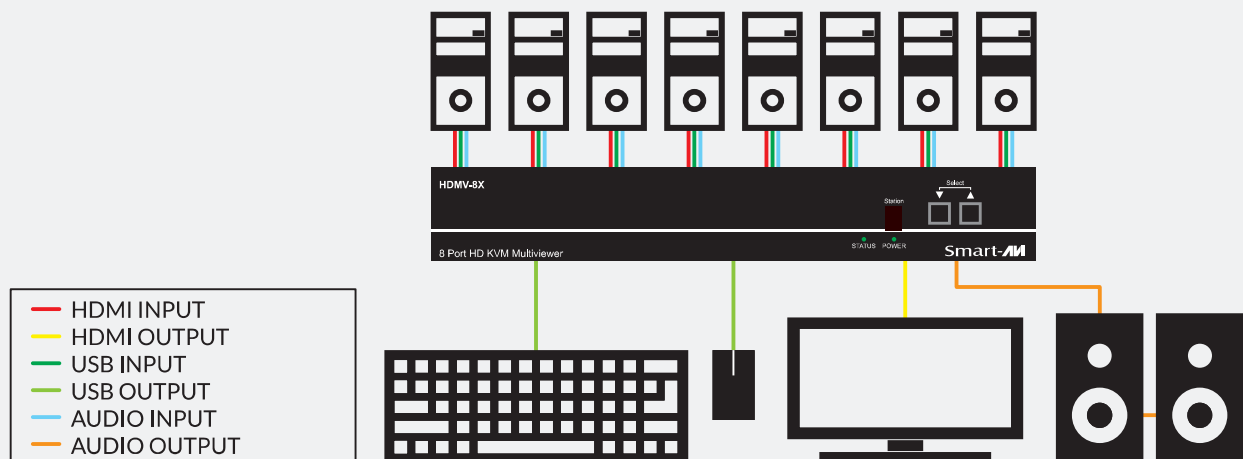
Controlling the HDMV-8X is easy using front panel buttons, RS-232 or On Screen Display.

Switching between the display modes is simple:  
Use the buttons on the front panel, the keyboard hotkeys, or RS-232 commands.

## FRONT AND BACK



## APPLICATION DIAGRAM

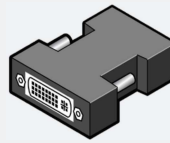


# ACCESSORIES



## CONTROLLING THE MULTIVIEWER VIA ETHERNET

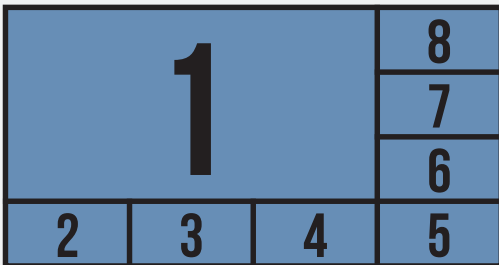
The SMTCP-2 TCP/IP control module is available from [smartavi.com](http://smartavi.com)



## ATTACHING A DVI-D DEVICE

An inexpensive HDMI to DVI-D adapter will enable you to input or output your signals to DVI-D devices

# AVAILABLE CONFIGURATIONS

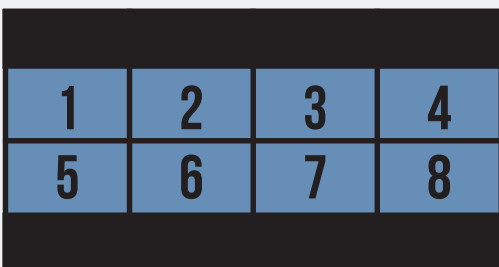
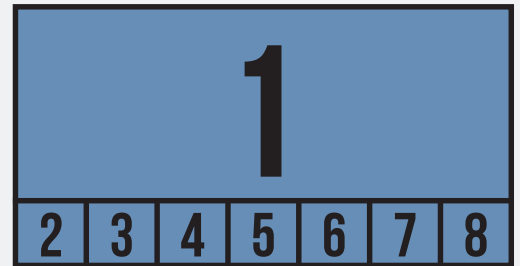


## FULL SCREEN WITH PIP MODE

In Full Screen with PIP Mode, the full screen displays one of the eight video sources, and is accompanied by seven smaller images (thumbnails) evenly displayed along the bottom and the right-hand margin of the screen from left to right, from bottom to top, allowing simultaneous monitoring. Mode changing or selecting video sources will be done via buttons on the front panel.

## FULL SCREEN WITH BOTTOM PIP MODE

In Full Screen with Bottom PIP Mode, the full screen displays one of the eight video sources, and is accompanied by seven smaller images (thumbnails) evenly displayed along the bottom of the screen from left to right, allowing simultaneous monitoring. Mode changing or selecting video sources will be done via buttons on the front panel.

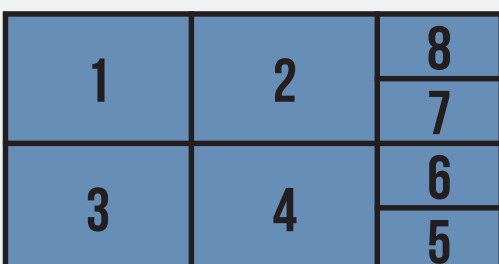


## 2X4 MODE

In 2x4 Mode, all eight video sources are displayed on the screen similar to 8S1 mode except that they have original aspect ratio. Mode changing or selecting video sources will be done via buttons on the front panel.

## 8X MODE

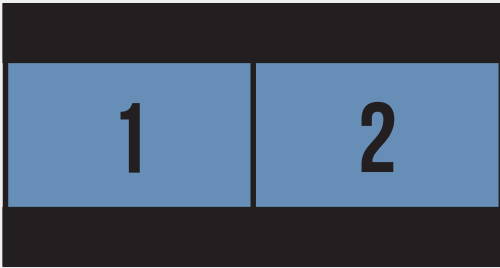
In 8x Mode, all eight video sources are displayed on the screen evenly from left to right, from top to bottom of the screen, each takes one ninth the size of the screen, allowing user to simultaneously monitor the sources. Mode changing or selecting video sources will be done via buttons on the front panel.



## 2X2 WITH PIP MODE

In 2x2 with PIP Mode, the full screen displays four of the eight video sources evenly from left to right, from top to bottom with the first two are on top and the second two are on the bottom of the screen. The other four video sources are smaller images (thumbnails) evenly displayed along the right-hand margin of the screen from bottom to top, allowing simultaneous monitoring. Mode changing will be done via buttons on the front panel.

## AVAILABLE CONFIGURATIONS (CONTINUED)

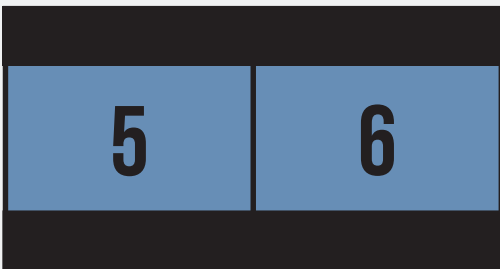
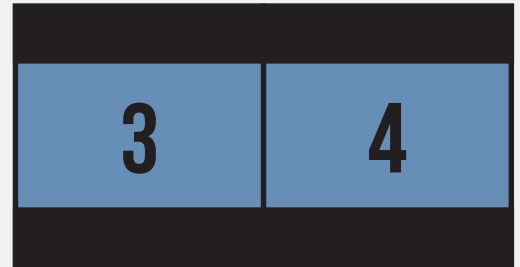


### DUAL SCREEN MODE 1-2

In Dual Screen Mode 1-2, the full screen displays the first and the second video sources side by side with their original aspect ratios, allowing simultaneous monitoring. Mode changing will be done via buttons on the front panel.

### DUAL SCREEN MODE 3-4

In Dual Screen Mode 3-4, the full screen displays the third and the fourth video sources side by side with their original aspect ratios, allowing simultaneous monitoring. Mode changing will be done via buttons on the front panel.

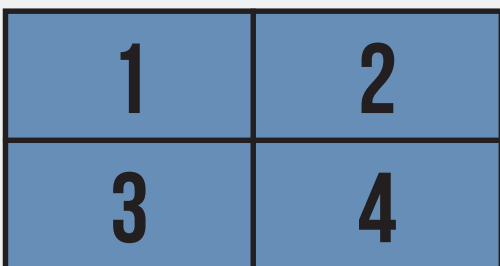
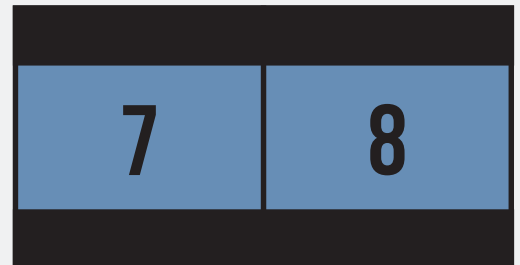


### DUAL SCREEN MODE 5-6

In Dual Screen Mode 5-6, the full screen displays the fifth and the sixth video sources side by side with their original aspect ratios, allowing simultaneous monitoring. Mode changing will be done via buttons on the front panel.

### DUAL SCREEN MODE 7-8

In Dual Screen Mode 7-8, the full screen displays the third and the fourth video sources side by side, allowing simultaneous monitoring. Mode changing will be done via buttons on the front panel.

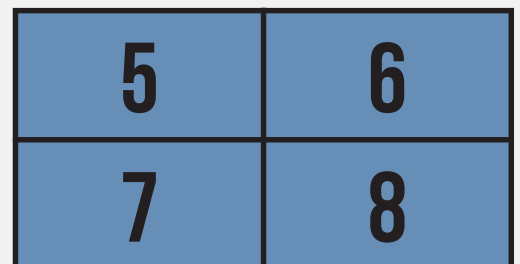


### QUAD SCREEN MODE 1-4

In Quad Screen Mode 1-4, the full screen displays the first four video sources evenly from left to right, from top to bottom (the first two are on top, the third and fourth are on the bottom of the screen), allowing simultaneous monitoring. Mode changing will be done via buttons on the front panel.

### QUAD SCREEN MODE 5-8

In Quad Screen Mode 5-8, the full screen displays the fifth to the eighth video sources evenly from left to right, from top to bottom (the fifth and sixth are on top, the seventh and eighth are on the bottom of the screen), allowing simultaneous monitoring. Mode changing will be done via buttons on the front panel.



# SPECIFICATIONS

## VIDEO

Video Bandwidth	Single-link 340 MHz [10.2 Gbps]
Resolution HDTV	480i, 480p, 720i, 720p, 1080i, 1080p, 4K
PC Resolution	800 x 600 up to 1920 x 1200
Input Video Signal	1.2 volts
Input DDC Signal	5 volts
Single Link Range	1080p
Format	HDMI 1.4
DVI Compliance	Single-link DVI-D 2.0
HDCP Compliance	1.0/2.0
Video Bandwidth	Single-link 340MHz [10.2Gbps]
Input Interface	(8) HDMI
Output Interface	HDMI
Connector	Type A [19-pin female]

## USB

Input	USB 2.0, 1.1, and 1.0
Input Interface	(4) USB Type B
Keyboard & Mouse	USB 1.0 (Type A)

## CONTROL

Front Panel	Tactile Switches
RS-232	DB9 (female)

## OTHER

Power	Internal 100-240 VAC
Dimensions	17" W x 1.7" H x 10.2" D
Weight	4.05 lbs.
Approvals	UL, CE, ROHS Compliant
Operating Temperature	+23 to +95°F (-5 to +35°C)
Storage Temperature	-4 to 185°F (-20 to 85°C)
Humidity	Up to 90% (No Condensation)

## ORDERING INFORMATION

Part No.	Description
SM-HDMV-8XS	8-Port HDMI, USB Real-Time Multiviewer and KVM switch. Includes: [SM-HDMV-8X (Power Cord)]



Designed and Manufactured in the USA

**Smart-AVI**  
SMART AUDIO VIDEO INNOVATION

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