

## SPECIFICATION

<b>Model Number:</b>	AVS-HDMI81
<b>Description:</b>	8-In 1-Out HDMI Switcher
<b>Performance:</b>	
HDMI Version Compliant	1.3
HDCP Compliant	Yes
Maximum Pixel Clock	25MHz to 225MHz
Maximum Data Rate	250Mbps to 2.25Gbps
Supported Audio TOSLink	Dolby True HD and DTS-HD Master Audio
HDTV Resolutions Supported	480i, 480p, 720p, 1080i, 1080p
Maximum PC Resolution	1920x1200 / 60 Hz
Max. Cable Distance at Input(s)	15 meters / 49.2 ft at 2.25Gbps
Max. Cable Distance at Output(s)	15 meters / 49.2 ft at 2.25Gbps
<b>I/O Connectors:</b>	
Input Port Connectors	8x 19pin Type A HDMI (Female)
Output Port Connectors	1x 19pin Type A HDMI (Female)
Input Selection	Front panel push button, or
IR Remote Angle	IR Remote Control Unit
IR Remote Range	15 degree
	10 meters / 32.8 ft.
Switching/Update Delay	High speed switching register 200ms All other configuration registers 1.5ms
<b>Mechanical:</b>	
Size (LxBxH)	17.4" x 9." x 1.73"
Product Weight	(442 x 228 x 43 mm)
Shipping Weight	4.519 lbs. (2050g) 5.622 lbs.(2550g)
<b>Environmental:</b>	
Operating Temperature	+32° to +104° F. (0° to 40° C.)
Operating Humidity	10% to 85%, Non-condensing
Storage Temperature	+20° to +140° F. (-20° to +60° C.)
Storage Humidity	10% to 85%, Non-condensing
<b>Product Requirement:</b>	
Power Supply	AC 100~240 V, 50/60Hz
Power Consumption	12 Watts (Max)
<b>Accessories Included:</b>	1x IR Remote Control 1x AC Power Cord 1x Operations Manual 1xRS-232 Cable
<b>Notes:</b>	1.) To ensure optimum performance, you should use a HDMI™ cables (*24 AWG) with this product.

\* Specifications are subject to changes without notification

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Model: AVS-HDMI81

# User Operation Guide

## PRODUCT DESCRIPTION

This switcher allows you to eliminate the hassle and costly wear and tear of swapping cables in switching HD sources. Simply plug all 8 Full HD sources into the switcher (\*with its equalized TMDS input it support a Max of 15meter of input HDMI™ cable) and run a cable from the switch to your HDMI™ display (Max up to 15meter at 2.25Gbps). By using the infrared remote (\*included), you can now easily switch between any of the four sources with the touch of a button.

## PRODUCT HIGHLIGHTS

- Supports data rates up to 2.25 Gbps, enabling 1080p deep color (12-bit color) HDMI formats, and greater than UXGA (1600 × 1200) DVI resolutions.
- Input cable equalizer and gain control enables the use of long cables at both the input and output end with the highest resolution possible.
- Featured with equalized TMDS inputs and pre-emphasized TMDS outputs, ideal for systems with long cable runs up to a Max 15meter at both input and output end.
- Compatible with all HDMI™-equipped, HDCP-enabled HDTV devices.
- Support all HDMI™ Version 1.3 receive-compliant solution.
- Discrete channel selection for both IR remote control and RS-232 control.
- Easy to install and simple to operate.
- Auto Input signal detection.

## PACKAGE CONTENTS



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User Manual



AC Cord

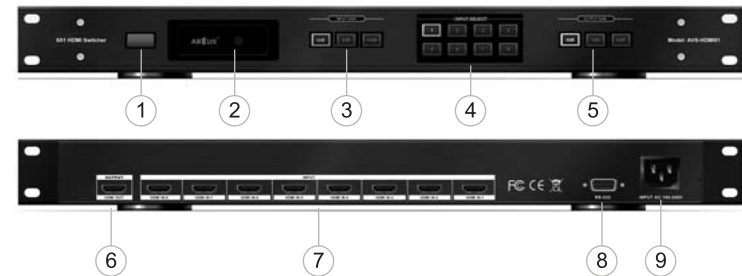


Remote control



Serial Cable

## PANEL VIEW

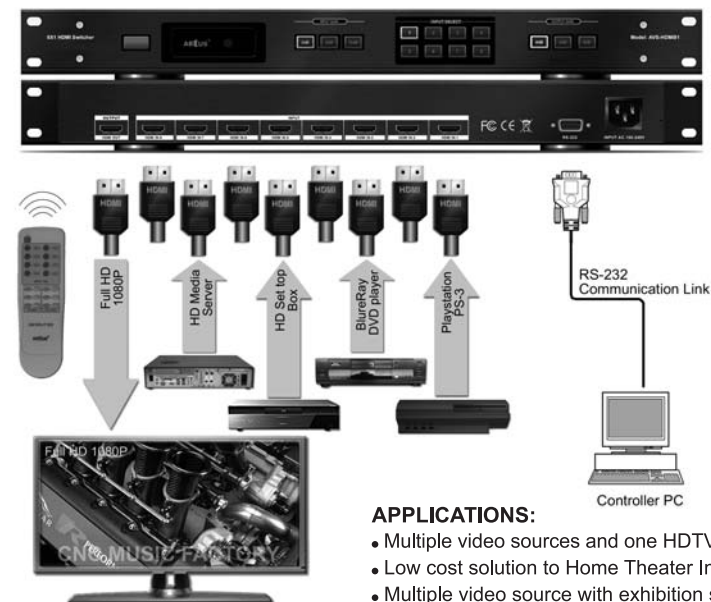


### ITEM

### DESCRIPTION

- |                 |   |
|-----------------|---|
| 1. Power        | Main Power ON/OFF Switch  |
| 2. IR Receiver  | IR Receiver   |
| 3. Input Gain   | Selection of Input Gain (0dB, 6dB or 12dB)                                      |
| 4. Input Select | Selection of Input port 1 to 8  |
| 5. Output Gain  | Selection of Output Gain (0dB, 3dB or 6dB)                                      |
| 6. Output port  | HDMI Output port  |
| 7. Input port   | HDMI Input port 1 to 8  |
| 8. Serial port  | RS-232 com port, communication Link to external control system                  |
| 9. AC In        | Before plugging in the power, please check if the power is AC 100~240V, 50/60Hz |

## SYSTEM DIAGRAM



### APPLICATIONS:

- Multiple video sources and one HDTV Monitoring System.
- Low cost solution to Home Theater Integration.
- Multiple video source with exhibition system.

Parameter Setting:

Baud Rate: 9600

Data bit: 8

Parity Bit: Non parity

Stop Bit: 1

**HDMI 8X1 RS232 Control Codes**      Version:1.0      Date:2008/2/5

Item	Function	Transmission	Receiver
1	Power ON	SETC10P31	RETC10P31
2.	Power OFF	SETC10P30	RETC10P30
3	Select Source	SETC60S3xxx001 xxx is select source. xxx = 001,002,.....,008.	RETC60S3xxx001 xxx is select source. xxx = 001,002,.....,008.
4	Select Input Gain	SETC70G31000xxx xxx is input gain level. xxx = 000,001,002.	RETC70G31000xxx xxx is input gain level. xxx = 000,001,002.
5	Select Output Gain	SETC70G30000xxx xxx is output gain level. xxx = 000,001,002.	RETC70G30000xxx xxx is output gain level. xxx = 000,001,002.
6	Panel Lock	SETC10L31	RETC10L31
7	Panel Unlock	SETC10L30	RETC10L30
8	Get Power state	SETC01P0	RETC11P2x x is Power state. 0: Power off 1: Power on
9	Get Source state	SETC01S0	RETC61S1xxx001 xxx is select source. xxx = 001,002,.....,008.
10	Get Input Gain level	SETC11G01	RETC31G3xxx

			xxx is input gain level. xxx = 000,001,002.
11.	Get Output Gain level	SETC11G00	RETC31G3xxx xxx is input gain level. xxx = 000,001,002.
12	Get Panel Lock state	SETC01L0	RETC11L2x x is Panel Lock state. 0: Lock 1: Un-Lock.
13	RS232 control code no support.		RETCx! x is no support command.