

# 8x8 HDMI MATRIX SWITCH WITH RS232 AND IP CONTROL



HSM-I-08-08

- Incorporates “Fast Switching” technology to reduce blanking time
- HDMI Audio De-embedding & Independent Routing to SPDIF outputs
- Supports a wide range of HDTV (HDMI) and PC (DVI) resolutions from 480i to 1080p and VGA to WUXGA
- IP (LAN) port includes web-server with easy to use controls (customizable with user definable names for each input and output)
- OSD video overlay to show user defined channel name on each output after it is switched to a new input
- Supports lossless digital audio: both 5.1 and 7.1 Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio
- Front panel LCD readout for easy setup and control



**CONTROL**

**SCALE**

**EXTEND**

**SWITCH**

**SPLIT**

## Description

---

The matrix is an 8x8 cross-point switch in a compact 1-RU enclosure. It supports HDMI 1.4a for 3D format and supports deep-color to 12 bits per component (36-bit color routing), supports HDCP, PCM, Dolby, DTS, and HD audio standards. It may be used with any combination of DVI (PC) or HDMI (HDTV) sources and displays.

The Model HSM-I-08-08 also features “Fast Switching” technology whereby all sources are kept active even if they are not routed to any sinks. The matrix inputs perform all the EDID and HDCP handshakes with all connected sources continuously. Compared with low-cost switchers, this method reduces switching time by several seconds. Proprietary handling of downstream HDCP device keys, assures compliance with HDCP without limiting the number of outputs that can be routed to the same input. Furthermore, each output of the matrix can handle over 20 downstream keys simultaneously.

The matrix features embedded HTML5 server to allow configuration and real-time control from any browser, tablet or smart-phone. No app or software is needed as all software resides in the matrix itself. The smart server renders pages specifically configured for the device it is being displayed on, producing a perfect GUI on a small phone or on a big tablet automatically. We call this a “pseudo app”, since it works like an app, but with nothing to install other than a shortcut to the ip address. The web interface allows the user to assign custom names for each input, output, and preset pattern, making control over IP a snap.

Other features include: PRESET save and recall functions (with user definable PRESET names), HDMI output blanking, HDMI audio extraction and independent routing to SPDIF outputs, ability to remove audio from HDMI outputs, comprehensive front panel controls, RS-232 and Telnet control.

## Specifications

---

\*Specifications are subject to change without notice

### Video

Standards ----- HDMI 1.3 (1.4 compliant for video color depth and 3D), DVI (single link)  
Signal type ----- TMDS video, DDC EDID (0 to 5 v TTL)  
Supported Colors ----- RGB, YCbCr 4:4:4, YCbCr 4:2:2, xvYCC  
HD Resolutions ----- 480i, 480p, 576i, 576p, 720p, 1080i, 1080p  
PC Resolutions ----- VGA through UXGA

### Audio

Supported Formats ----- PCM2, PCM5.1, PCM7.1, Dolby5.1, DTS5.1, DD+, D-TrueHD, DTS-HD

### General

Power Supply ----- 12VDC@5A, 2.5mm plug 9.5mm barrel length  
Nominal Power ----- Fully loaded, 17 watts max (3.4 amps @ 5v)  
Temperature/humidity ----- Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, non-condensing  
Operating: +32 to +104 °F (0 to +40 °C) / 10% to 90%, non-condensing  
Cooling ----- Convection  
Mounting ----- Front panel 1RU 19” Rack mountable  
Enclosure type ----- Metal  
Dimensions ----- 1.69" H x 17.3" W x 7.68" D - F/P Width is 19" (43 mm H x 440 mm W x 195 mm D)  
Product weight ----- 9 lb (4 kg)  
Shipping weight ----- 10 lb (4.5 kg)  
Recommended cable ----- Locking High-Performance HDMI cables  
Vibration ----- ISTA 1A in carton (International Safe Transit Association)  
Safety ----- CE  
EMI/EMC ----- CE, FCC Class A  
MTBF ----- 90,000 hours  
Warranty ----- 2 years parts and labor

---