



Introduction

The Atлона AT-HDR-H2H-88MA is an 8x8 HDMI matrix switcher for high dynamic range (HDR) formats. It is HDCP 2.2 compliant and supports 4K/UHD video @ 60 Hz with 4:4:4 chroma sampling, as well as HDMI data rates up to 18 Gbps. The HDR-H2H-88MA is ideal for residential applications with the latest as well as emerging 4K/UHD and HDR sources and displays. It is compatible with all video resolutions, audio formats, and color space formats supported in the HDMI 2.0b specification, plus the ability to pass metadata for HDR content. The HDR-H2H-88MA includes EDID and HDCP management features, and can send CEC display control independently to each output. An unbalanced analog audio output is paired with each HDMI input for sending de-embedded HDMI audio to a whole-house audio system. The HDR-H2H-88MA can be controlled via Ethernet, RS-232, and IR. A handheld IR remote control is included.

Applications

- Residential installations**
 The HDR-H2H-88MA is designed for AV systems with the latest UHD and HDR sources such as Ultra HD Blu-ray players, plus compatible televisions and projectors.
- TV showrooms**
 The HDR-H2H-88MA can be used for reliable content distribution to televisions, to properly demonstrate the quality and appeal of 4K and HDR programming.
- Professional AV applications**
 Atлона 4K HDR products are ideal for full-motion, highly detailed 4K graphics presentations for visualization, 3D renderings, simulations, and more.

Key Features

8x8 HDMI matrix switcher

- Delivers high performance, reliable HDMI signal matrix switching.
- Easy to install and deploy in residential and commercial applications.

Fast, blink-free switching

- Fast input selection switching eliminates video blinking in other zones.
- Eliminates long wait times caused by handshaking and HDCP key validation for an uninterrupted viewing experience in all zones.

4K/UHD capability @ 60 Hz with 4:4:4 chroma sampling, plus support for HDR formats

- Compatibility with new and emerging 4K/UHD and HDR-capable sources and displays.
- Fully supports video resolutions, audio formats, and color space formats in the HDMI 2.0b specification.

HDCP 2.2 compliant

- Adheres to latest specification for High-bandwidth Digital Content Protection.
- Allows protected content stream to pass between devices.

Independent CEC display control to each output

- Sends display power on/off control to a specific HDMI output. CEC control can be triggered by IP or RS-232 control commands.
- Enables independent control of displays connected to the matrix switcher.

HDMI audio de-embedding for each input

- Extracts HDMI two-channel PCM audio to an unbalanced analog audio output paired with a corresponding HDMI input.
- Provides an additional integration option for whole-house as well as commercial audio systems.

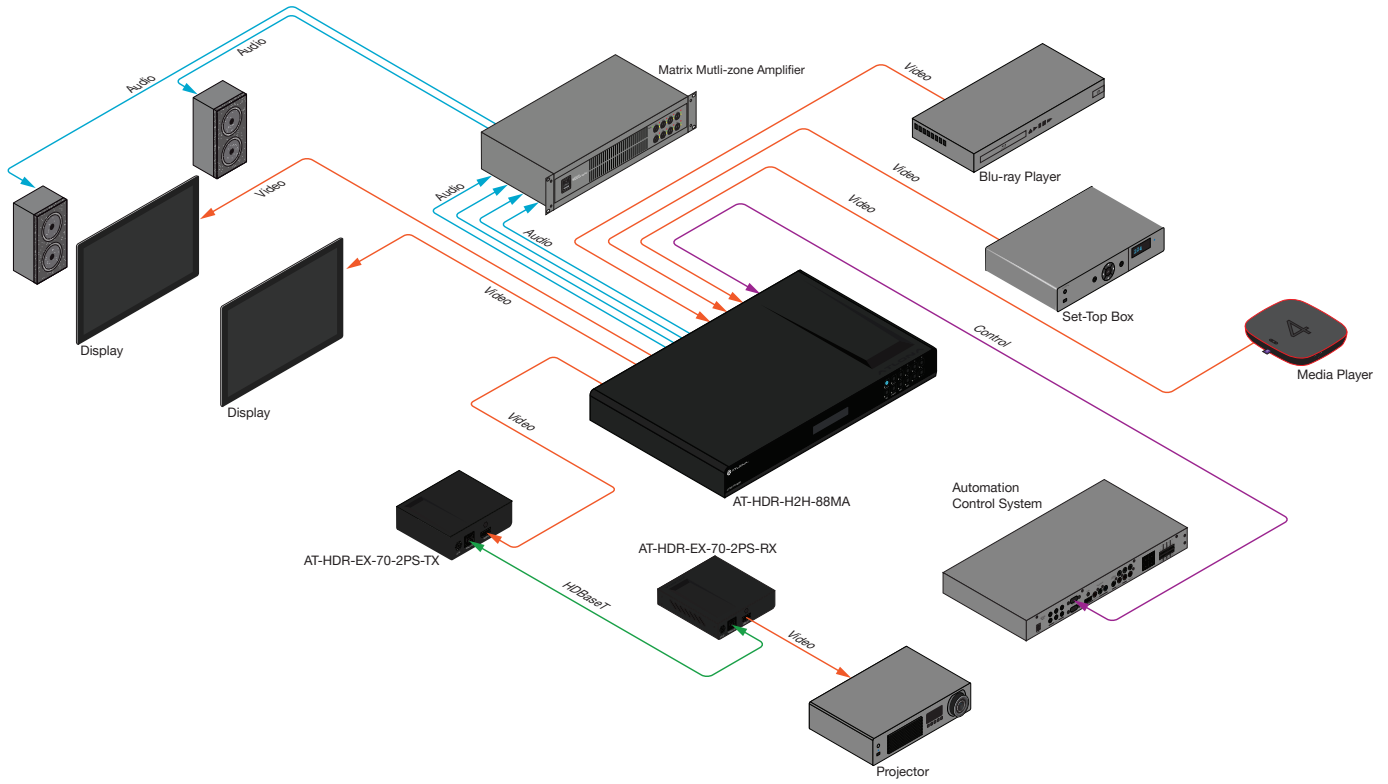
TCP/IP, RS-232, and IR control

- Flexible control options for compatibility with third-party control systems. Includes a convenient handheld IR remote control.
- Reduces integration time and costs.

Award-winning 10 year limited product warranty

- Ensures long-term product reliability and performance in residential and commercial systems.
- Specify, purchase, and install with confidence

Connection Diagram



Specifications

Video		
UHD/HD/SD	4096x2160@24/25/30/50/60Hz, 3840x2160@24/25/30/50/60Hz, 2048x1080p, 1080p@23.98/24/25/29.97/30/50/59.94/60Hz, 1080i@50/59.94/60Hz, 720p@50/59.94/60Hz, 576p, 576i, 480p, 480i	
VESA	2560x2048, 2560x1600, 2048x1536, 1920x1200, 1680x1050, 1600x1200, 1600x900, 1440x900, 1400x1050, 1366x768, 1360x768, 1280x1024, 1280x800 1280x768, 1152x768, 1024x768, 800x600	
Color Space	YUV, RGB	
Chroma Sampling	4:4:4, 4:2:2, 4:2:0	
Color Depth	8-bit, 10-bit, 12-bit	
HDR	HDR10 and Dolby® Vision™ @ 60Hz	
Audio		
HDMI IN / OUT	PCM 2Ch, LPCM 5.1, LPCM 7.1, Dolby® Digital, DTS® 5.1, Dolby Digital Plus™, Dolby TrueHD, DTS-HD Master Audio™, Dolby Atmos®, DTS:X®	
Sample Rate	32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz	
Bit Rate	up to 24-bit	
Distance	Feet	Meters
HDMI IN / OUT @ 4K	15	5
HDMI IN / OUT @ 1080p	30	10
Signal		
Bandwidth	18 Gbps	
CEC	Yes	
HDCP	2.2	
Temperature	Fahrenheit	Celsius
Operating	32 to 122	0 to 50
Storage	-40 to 158	-40 to 70
Humidity (RH)	20% to 90%, non-condensing	
Power		
Consumption	43.3W	
Idle Consumption	21.7 W	
Supply	Input: 110 - 240 VAC, 50 / 60 Hz Output: 24V DC, 2.7 A	
Dimensions	Inches	Millimeters
H x W x D	1.73 x 17.24 x 10.00	44.00 x 438.00 x 254.00
H x W x D, w/feet/ears	2.18 x 18.93 x 10.23	55.50 x 481.00 x 260.00
Rack Size	1 RU	
Weight	Pounds	Kilograms
Device	8.81	4
Certification		
Power Supply	CE, FCC, UL, and LVD certificates Level VI compliant	
Unit	CE, FCC	