

MP-UHD88-VW

4K60 HDMI Matrix • 8×8 Seamless Matrix & Video Wall Processor



8×8	4K60	18Gbps	4×2	8 Presets
HDMI I/O	4:4:4	Signal Path	Video Wall	Recall

PRODUCT OVERVIEW

The MP-UHD88-VW is a professional seamless UHD matrix switcher with 8×8 HDMI input/output video wall processing. It supports synchronous HDMI switching up to 4K@60Hz 4:4:4, creative video wall layouts through an intuitive web GUI, and an FPGA-based pure hardware structure.

KEY FEATURES

- 8 HDMI inputs and 8 HDMI outputs with real-time seamless switching.
- 8 IR and 8 analog audio inputs, plus 8 IR and 8 analog audio outputs.
- 4K scaler, image clipping, station logo display and 11 built-in professional test images per input channel.
- Matrix output or single-layer splicing; LED/LCD splicing up to 4×2.
- Independent audio and IR switching with input volume control and one-click mute.
- Front-panel LCD, RS-232, TCP/IP, web GUI and PC software control.
- Built-in EDID options, monitor EDID reading, DHCP, output freeze/unfreeze and configurable HDCP.
- Silent intelligent fan control, automatic input cable equalization and output reclocking.

TECHNICAL SPECIFICATIONS

Detailed specifications retained from the supplied MP-UHD88-VW product datasheet.

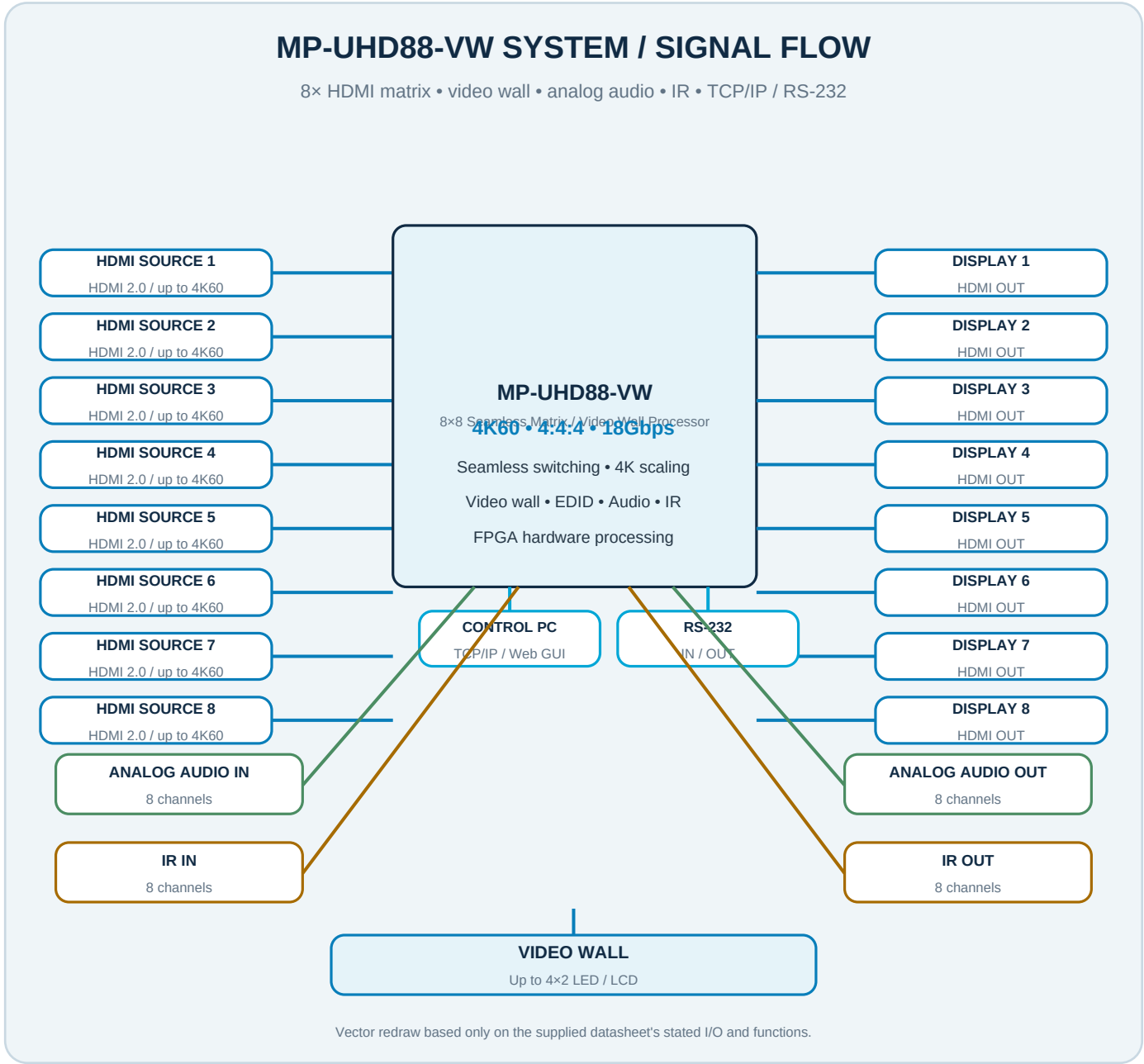
SPECIFICATION	DETAIL
Model	MP-UHD88-VW
Input	8× HDMI, 8× IR, 8× analog audio
Output	8× HDMI, 8× IR, 8× analog audio
Video Protocol	HDMI 2.0, HDCP 2.2
Maximum Resolution	4096 × 2160 @ 60Hz (4:4:4)
HDMI Interface	Type A, 19-pin, female
Serial Interface	RS-232 IN, DB9 Female; RS-232 OUT, DB9 Male
Input Cable Length	10 meters by HDMI 2.0 cable
Output Cable Length	10 meters by HDMI 2.0 cable
Impedance	100 ± 15 Ω
RJ45 Control Protocol	TCP/IP
Ethernet Rate	Self-adaptive 10M/100M
Storage Environment	−20°C to +70°C; humidity 10%–90%
Work Environment	0°C to +50°C; humidity 10%–90%
Power Supply	AC 110–240V
Maximum Power	100W
Chassis Specifications	1U
Dimensions (W × D × H)	430 × 260 × 44.5 mm
Weight	3.5 kg
MTBF	30,000 hours
Warranty	One-year warranty and lifetime maintenance

ADVANCED PROCESSING

- 18Gbps full signal processing path with HDR and 4K60 4:4:4 capability.
- Video wall layouts through web GUI; multiple monitors can display video as one large screen.
- Automatic input cable equalization; 4K/60 signals equalized to 10.7 m with HDMI 2.0 Pro cable.
- Automatic output reclocking with +5 VDC / 250 mA on HDMI outputs.
- Output muting for one or all outputs; Ethernet monitoring and control via TCP/IP.
- Audio embedder/de-embedder for analog audio and HDMI signals.
- 8 preset memories with quick recall via panel buttons or RS-232.

SYSTEM / SIGNAL FLOW DIAGRAM

Clear engineering-style SLD redraw based on the supplied datasheet's stated connectivity and functions.



CONNECTION SUMMARY

VIDEO	AUDIO	CONTROL	VIDEO WALL
8× HDMI IN 8× HDMI OUT Up to 4K60 4:4:4	8× analog audio IN 8× analog audio OUT Independent switching	RJ45 TCP/IP RS-232 IN/OUT Web GUI / PC	LED/LCD splicing Up to 4×2 Frame synchronization

VIDEO WALL PROCESSING

4×2 video wall effect and scrolling-text capability shown in the supplied datasheet.

- 1 4x2 video wall
- 2 Scrolling Text



CORE FUNCTIONS

- 8×8 HDMI matrix with 18Gbps processing and HDR / 4K60 4:4:4 support.
- 4K scaling to monitor native resolution and FPGA-based seamless switching.
- HDMI-to-DVI format correction, automatic cable equalization and output reclocking.
- Video wall / single-layer splicing with frame synchronization and seam compensation.
- Scrolling subtitles, station logos, input/output test images and EDID management.
- Independent IR and audio matrices, web GUI, PC software, front-panel LCD, TCP/IP and RS-232.
- Panel locking and 8 preset memories for fast configuration recall.

Source note: The product image and video-wall visual are extracted from the supplied datasheet at their embedded image quality. The system diagram on page 3 is a clean vector redraw based only on source-stated I/O and functions.