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# MW4-4
# HDMI 2.0 MULTIVIEW
# VIDEO WALL PROCESSOR (4 in, 4 out)



**4K60 YUV 4:4:4**   **HDMI 1.4 / 2.0**   **HDCP 1.4 / 2.2**

Multiview   Scaler   Videowall   Matrix   Telnet Control / Telnet   PiP PoP   Audio R/L / Audio

## OVERVIEW

The Partilink **MW4-4** HDMI 2.0 Multiview Video Wall Processor is an all-in-one 2x2 video wall system with multiview, scaling, customizing screen layouts, audio management and matrix. Its user friendly web UI, RS232, RS485, RS422 and telnet modular and robust design made the video wall control effectively.
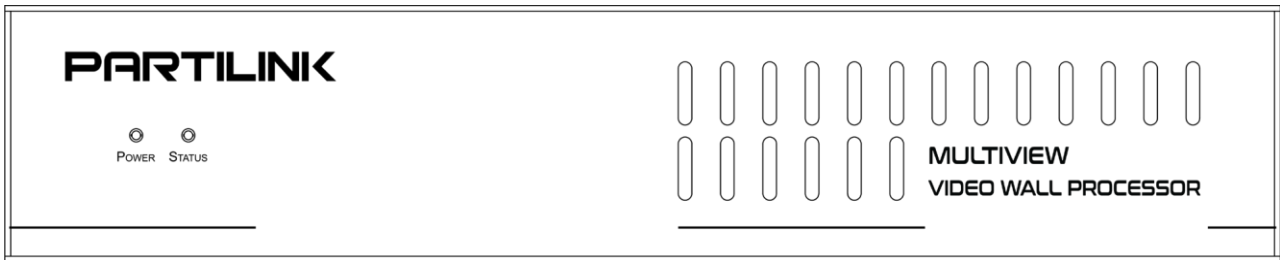
## FEATURES

- Fast switching between input channels and combined multiple source images on video wall
- Handles HDMI® signals with Deep Color and HDCP 1.4 / 2.2 sources
- Input resolution up to 4K @60Hz, 4:4:4 color sampling
- Output resolution up to 4K @60Hz, 4:4:4 color sampling
- Upscaling up to 4K @60Hz, 4:4:4 color sampling and able to downscale as well
- PiP, PoP, quadview and multiple customized screen layout configurations for video wall and matrix display
- Rotation (R90°and L90°) in full screen layout
- Stereo audio output
- Control by web UI, RS232, RS485, RS422 and telnet
- Firmware upgrade via USB port
- Built-in power supply
- Display modes including video wall, multiview window and matrix
- Multiple windows displaying across multiple screen array without screen boundary.
- Able to build a 4K and even an 8K video wall system for supporting each output 4K@60Hz
- Able to build various video wall array system 1x4, 1x3, 1x2, 2x2, 4x1, 3x1, 2x1
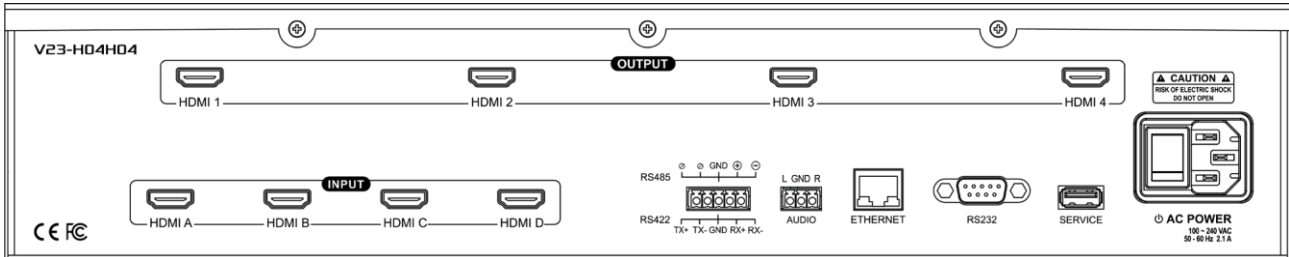
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**SPECIFICATION**

| MODEL NO. | | MW4-4 |
|---|---|---|
| INPUT/OUTPUT | Inputs | 4 x HDMI 2.0 |
| | Output | 4 x HDMI 2.0 |
| | Audio Output | terminal block 3 pole, stereo |
| IMAGE PROCESSING | Display Mode | full screen, PIP, POP, rotation R90°/ L90°, cross screen, quadview, matrix |
| | Input Resolution | 4096 x 2160p (60Hz, 50Hz, 24Hz)<br>3840 x 2160p (60Hz, 50Hz, 30Hz, 25Hz, 24Hz)<br>2560 x 1080p (60Hz)<br>1920 x 1080p (60Hz, 50Hz, 30Hz, 25Hz, 24Hz)<br>1920 x 1080i (60Hz, 50Hz)<br>1280 x 720p (60Hz)<br>720 x 480p (60Hz, 50Hz)<br>720 x 576p (50Hz)<br>640 x 480p (60Hz, 50Hz) |
| | Input Color format | 4:4:4 |
| | Output Resolutions | 4096 x 2160p (60Hz ,50Hz, 24Hz)<br>3840 x 2160p (60Hz, 50Hz, 30Hz, 24Hz)<br>2048 x 2048p (57Hz)<br>1920 x 1200p (60Hz)<br>1920 x 1080p (60Hz, 50Hz, 30Hz, 24Hz)<br>1600 x 1200p (60Hz)<br>1280 x 720p (60Hz, 30Hz) |
| | Output Color Format | 4:4:4 |
| | Output Color Depth | 24 bpp |
| | Scaler | scaling up to 4K @60Hz,<br>4:4:4 color sampling and downscaling as well |
| | Video Bandwidth | up to 18 Gbps |
| | HDMI Compliance | HDMI 1.4 And HDMI 2.0 |
| | HDCP Compliance | HDCP 1.4 And HDCP 2.2 |
| CONTROL METHODS | RS232 / Telnet | 1 x D9 female connector /<br>compatible with third party control system |
| | RS485 / RS422 | 5-pole terminal block |
| | Ethernet Port | 1 x RJ45 / compatible with third party control system |
| | Web UI | browser / touch screen via smartphone or tablet |
| STABILITY | Safety | hardware structure, no risk of virus interference |
| | Running Time | no auto-reboot during 365 days/year, 7days/7, 24h/24 |
| FIRMWARE | Possible Upgrade | 1 x USB 2.0 |
| POWER | Power Supply | built-in power module 100-240 VAC / 50/60 Hz |
| | Power Consumption | 90W |
| | Redundant Power Supply | no |
| ENVIROMENT | Operating Temperature | 0°C ~ 40°C |
| | Operating Humidity | 0% ~ 80% RH |
| | Storage Temperature | -20°C ~ 60°C |
| PHYSICAL | Dimensions | 440 x 370 x 88 mm (L x W x H) |
| | Weight | 3.7 KG |
| | Fixing Components | rear bracket, footpad and screws |

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**PARTILINK**

POWER   STATUS

| | | | | | | | | | | |

| | | | | **MULTIVIEW**
**VIDEO WALL PROCESSOR**

V23-H04H04

OUTPUT

HDMI 1 — HDMI 2 — HDMI 3 — HDMI 4

⚠ CAUTION ⚠
RISK OF ELECTRIC SHOCK
DO NOT OPEN

INPUT

HDMI A — HDMI B — HDMI C — HDMI D

RS485   GND
RS422   TX+ TX- GND RX+ RX-

L GND R
AUDIO   ETHERNET   RS232   SERVICE

⏻ AC POWER
100 ~ 240 VAC
50 - 60 Hz 2.1 A

CE FC

## APPLICATION
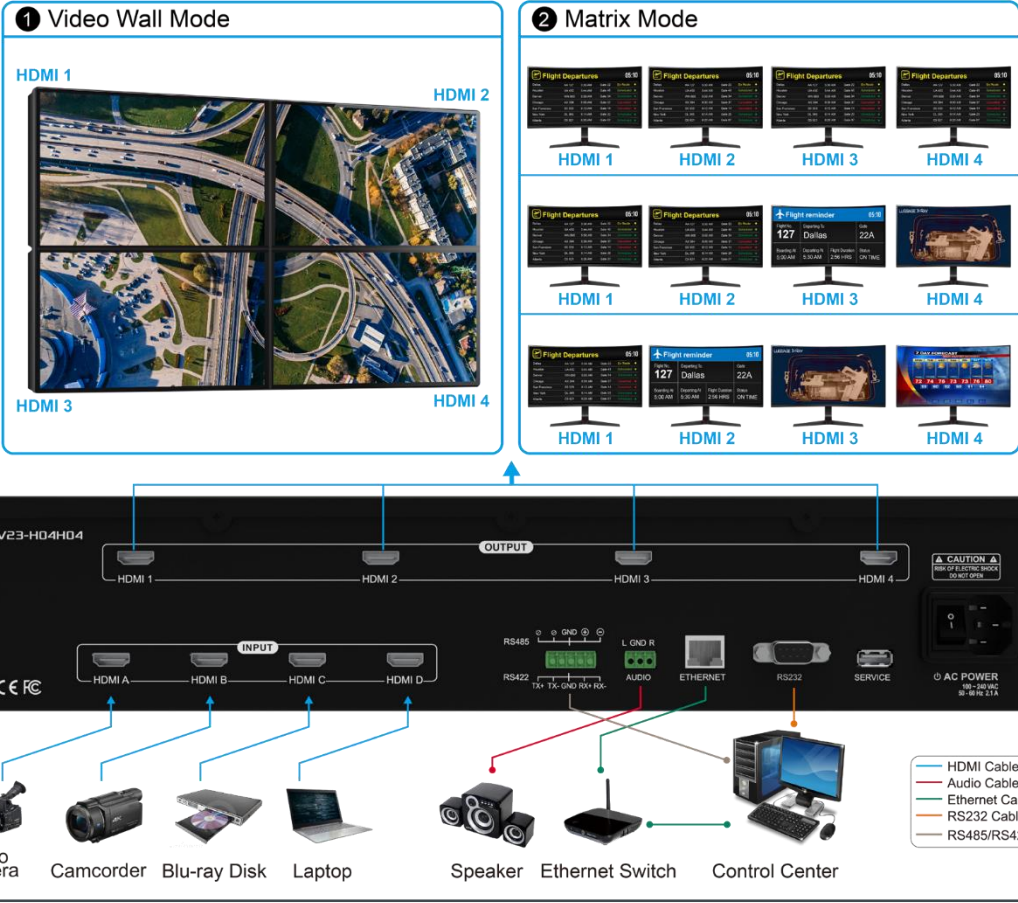
- Hospitality in lobby, hospital, clinic
- Conference room presentation
- Advertising in shopping mall, supermarket, restaurants
- Broadcast in airport, bus or train station, classroom
- Rental and staging
- Entertainment in restaurant, bar, multimedia room, boardrooms, home cinema
- Integrating with DVR, IP camera as a surveillance system
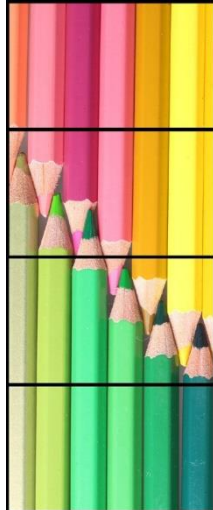- Monitoring in control room, bank and stock market

## CONNECTION DIAGRAM

**① Video Wall Mode**

HDMI 1
HDMI 2
HDMI 3
HDMI 4

**② Matrix Mode**

| HDMI 1 | HDMI 2 | HDMI 3 | HDMI 4 |
| HDMI 1 | HDMI 2 | HDMI 3 | HDMI 4 |
| HDMI 1 | HDMI 2 | HDMI 3 | HDMI 4 |

V23-H04H04

**OUTPUT**
HDMI 1 — HDMI 2 — HDMI 3 — HDMI 4

⚠ CAUTION ⚠
RISK OF ELECTRIC SHOCK
DO NOT OPEN

**INPUT**
HDMI A — HDMI B — HDMI C — HDMI D

RS485 ⊕ GND ⊖     L GND R
RS422 TX+ TX- GND RX+ RX-     AUDIO     ETHERNET     RS232     SERVICE     ⏻ AC POWER
100 ~ 240 VAC
50 - 60 Hz 2.1 A

Video camera    Camcorder    Blu-ray Disk    Laptop    Speaker    Ethernet Switch    Control Center

— HDMI Cable
— Audio Cable
— Ethernet Cable
— RS232 Cable
— RS485/RS422 Cable

## DISPLAY MODE

**PIP POP**

**VIDEO WALL 4X1**

**VIDEO WALL 1X4**

**CROSS SCREEN**

**MARTIX**

## FRAME SYNCHRONIZATION

## WEB UI

PARTILINK

Screen-Setting    Audio Source    HDMI C    Apply

Video-Wall

Color Setting

Brightness    Hue
Contrast    Saturation
Apply

Multi-View

System

Default

Layout Setting

Layout A    Layout B    Layout C    Layout D    Layout E
Custom 1    Custom 2    Custom 3    Custom 4    Custom 5    Custom 6    Custom 7

Top Pixels    Width Pixels
Left Pixels    High Pixels

I
HDMI A    Lower

II    III    IV
HDMI B    Low    HDMI C    Mid    HDMI D    Top

Ix    IIx    IIIx    IVx    Reset    Apply

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