

# MP-DA8UHD-4K

HDMI V2.0 1×8 Splitter with Down-Scaling and AOC Support



## PRODUCT OVERVIEW

The MP-DA8UHD-4K distributes one HDMI input to eight HDMI outputs. It supports video up to 4K@60Hz 4:4:4, 1080p 3D and multichannel audio formats. Multiple built-in EDID settings are selectable through DIP switches, CEC enables display power/volume control from the front panel, and firmware can be upgraded through Micro-USB.

## KEY FEATURES

- HDMI V2.0 with video resolution up to 4K@60Hz 4:4:4.
- HDMI input supports HDCP 2.2; outputs support HDCP 1.4.
- HDMI AOC compatible; up to 5V 200mA power on each output.
- Automatic 4K-to-1080p down-scaling for 1080p display compatibility.
- 18Gbps bandwidth and built-in equalizer for signal enhancement.
- Advanced EDID management with preset and user-defined options.
- CEC control for display power and volume functions.
- LED status indicators and Micro-USB firmware upgrade.

## TECHNICAL SPECIFICATIONS

| Category     | Parameter                 | Specification                                                |
|--------------|---------------------------|--------------------------------------------------------------|
| Video Input  | Input / Connector         | 1 × HDMI / 1 × Female Type-A HDMI                            |
| Video Input  | Resolution                | Up to 4K@60Hz 4:4:4 8-bit                                    |
| Video Input  | Standard / HDCP           | HDMI 2.0 / HDCP 2.2                                          |
| Video Input  | CEC / AOC Power           | Supported / 5V 200mA                                         |
| Video Output | Output / Connector        | 8 × HDMI / 8 × Female Type-A HDMI                            |
| Video Output | Resolution / Standard     | Up to 4K@60Hz 4:4:4 8-bit / HDMI 2.0                         |
| Video Output | CEC                       | Supported                                                    |
| Control      | Control Interfaces        | 4 control buttons; EDID 3-pin DIP; EDID 4-pin DIP; Micro-USB |
| General      | Bandwidth                 | 18Gbps                                                       |
| General      | Operating / Storage Temp. | −5 to +55°C / −25 to +70°C                                   |
| General      | Humidity                  | 10%–90%, non-condensing                                      |
| General      | Power Supply              | Input 100–240V AC; Output 12V DC 1A                          |
| General      | Power Consumption         | 7W (Max)                                                     |
| General      | Dimensions                | 260 × 20 × 70 mm (W × H × D)                                 |
| General      | Net Weight                | 500g                                                         |

Manual version: MP-DA8UHD-4K\_2020V1.7. The supplied manual states its functions were updated through August 2020.

## PANEL DESCRIPTION

### Front Panel

| No. | Function           | Description                                                          |
|-----|--------------------|----------------------------------------------------------------------|
| 1   | POWER LED          | Red when power is applied.                                           |
| 2   | INPUT LED          | Green when HDMI input is present.                                    |
| 3   | OUTPUT LEDs        | Green on the corresponding active HDMI output.                       |
| 4   | DISPLAY ON         | Turns on CEC-compatible displays; LED blinks while sending control.  |
| 5   | DISPLAY OFF        | Turns off CEC-compatible displays; LED blinks while sending control. |
| 6   | VOLUME DOWN / MUTE | Decreases display volume; hold at least 3 seconds to mute.           |
| 7   | VOLUME UP          | Increases display volume or exits mute mode.                         |
| 8   | EDID               | 3-pin DIP switch for EDID value setting.                             |
| 9   | FW                 | Micro-USB port for firmware upgrade.                                 |

### Rear Panel

| No. | Interface | Description                                    |
|-----|-----------|------------------------------------------------|
| 1   | INPUT     | Type-A female HDMI input for the HDMI source.  |
| 2   | OUTPUTS   | Eight Type-A female HDMI outputs for displays. |
| 3   | EDID      | 4-pin DIP switch for EDID setting.             |
| 4   | DC 12V    | DC barrel port for the AC power adapter.       |

## EDID MANAGEMENT

| Mode   | Description                                                                        |
|--------|------------------------------------------------------------------------------------|
| L.RES  | Reads all connected display EDIDs and passes the lowest resolution to the source.  |
| PRESET | Uses the rear 4-pin DIP to select predefined EDID or a customized EDID.            |
| H.RES  | Reads all connected display EDIDs and passes the highest resolution to the source. |

### Predefined EDID

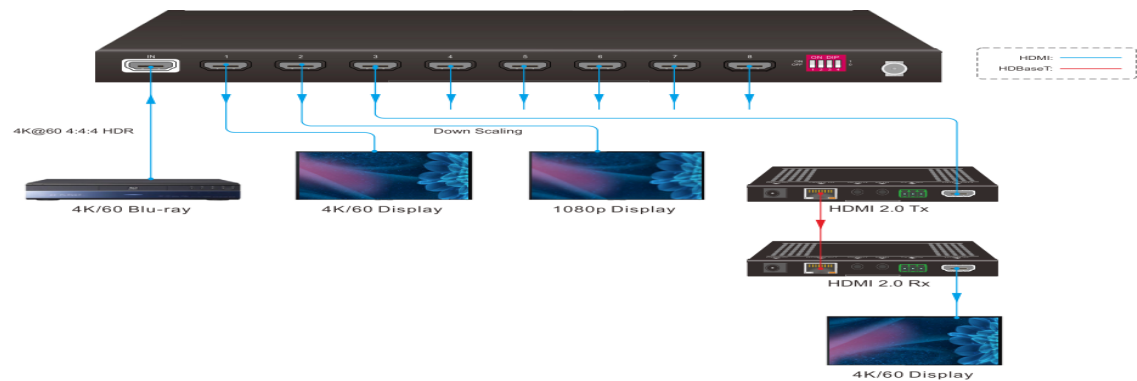
| Switch    | Setting                                               |
|-----------|-------------------------------------------------------|
| 0000–0111 | Obtains EDID from HDMI output ports 1–8 respectively. |
| 1000      | 720p / LPCM                                           |
| 1001      | 1080p / LPCM                                          |
| 1010      | 1080p / DTS/Dolby                                     |
| 1011      | 3840×2160@30Hz / LPCM                                 |
| 1100      | 3840×2160@30Hz / DTS/Dolby                            |
| 1101      | 3840×2160@60Hz / LPCM                                 |
| 1110      | 3840×2160@60Hz / DTS/Dolby                            |
| 1111      | User-defined EDID, ID 15                              |

# VIDEO DOWNSCALING

Supported 4K input formats can be automatically down-scaled to 1080p output for compatibility with 1080p displays.

| # | Resolution | Refresh | Color Space | Downscale   | 1080p Output     |
|---|------------|---------|-------------|-------------|------------------|
| 1 | 3840×2160  | 60      | 4:4:4       | Support     | 1080p@60Hz 4:4:4 |
| 2 | 3840×2160  | 30      | 4:4:4       | Support     | 1080p@30Hz 4:4:4 |
| 3 | 3840×2160  | 24      | 4:4:4       | Support     | 1080p@24Hz 4:4:4 |
| 4 | 3840×2160  | 60      | 4:2:0       | Support     | 1080p@60Hz 4:4:4 |
| 5 | 3840×2160  | 30      | 4:2:0       | Support     | 1080p@30Hz 4:4:4 |
| 6 | 3840×2160  | 24      | 4:2:0       | Support     | 1080p@24Hz 4:4:4 |
| 7 | 3840×2160  | 60      | 4:2:2       | Not Support | N/A              |
| 8 | 3840×2160  | 30      | 4:2:2       | Not Support | N/A              |
| 9 | 3840×2160  | 24      | 4:2:2       | Not Support | N/A              |

# SYSTEM CONNECTION



The system diagram from page 8 of the supplied manual illustrates a 4K/60 Blu-ray source feeding the splitter, 4K/60 displays, a 1080p display through the down-scaling path, and an HDMI 2.0 Tx/Rx extension path to another 4K/60 display.

# PACKING LIST & WARRANTY

| Item              | Quantity / Description          |
|-------------------|---------------------------------|
| Splitter          | 1 × HDMI V2.0 1×8 Splitter      |
| Mounting Hardware | 2 × mounting ears with 4 screws |
| Plastic Cushions  | 4 × plastic cushions            |
| Power Adapter     | 1 × 12V DC 1A power adapter     |
| Documentation     | 1 × User Manual                 |

Limited warranty: within three years.

Source: supplied MP-DA8UHD-4K User Manual. Product image and system diagram are reproduced from the manual.