OMX-07HMHM0004

HDMI 4x1 Switcher 8K@60Hz 4:4:4 HDR

HDCP2.3

OPERATION MANUAL



Description:

The Ocean Matrix OMX-07HMHM0004 is an HDMI 4x1 switcher that lets you share four HDMI-enabled video sources with a single display or projector. The switcher features four independent inputs that each support 8K resolutions and 7.1 surround sound audio. The switcher is backward compatible with Ultra HD 4K and HD 1080p, so users can be assured that their digital signage will look great in all situations.

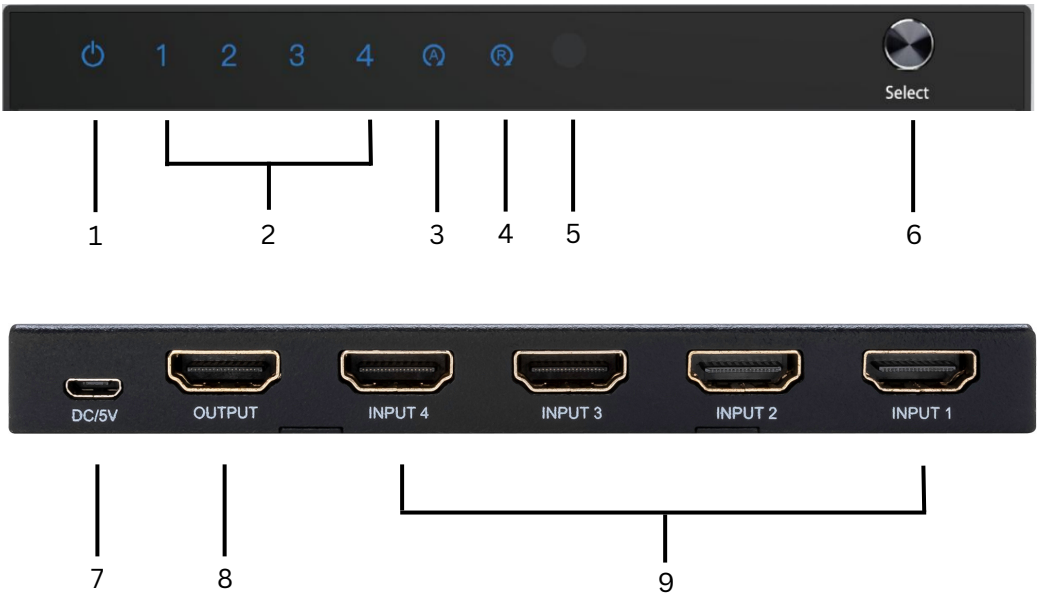
Features:

- Supports Resolutions up to 8K@60Hz 4:4:4, 4K@120Hz, and 1080p@240Hz
- 1200MHz/12Gbps per Channel Bandwidth (48Gbps All Channels)
- Supports 12bit per Channel (36bit All Channels) Deep Color
- HDCP 2.3, HDCP2.2 and HDCP1.4 Compliant
- Support High Dynamic Range (HDR) Video Pass-through, such as HDR10/HDR10+/Dolby vision etc.
- VRR (Variable Refresh Rate), ALLM (Auto Low-latency Mode), and QFT (Quick Frame Transport) Functionality
- Built-in Equalizer, Retiming, and Driver
- Automatic, Manual, and Remote Control Switching Supported
- Supports Uncompressed Audio; LPCM
- Supports Compressed Audio: DTS, Dolby Digital (DTS-HD Master Audio™ and Dolby TrueHD)

Specifications:

- Input Ports: HDMI x 4
- Output Ports: HDMI x 1
- Vertical Frequency Range: 50/60/100/120/240Hz
- Video Amplifier Bandwidth: 12Gbps/1200MHz per Channel (48Gbps All Channels)
- Interlaced (50 & 60Hz): 480i,576i,1080i
- Progressive (50 & 60Hz): 480p,576p,720p,1080p,4K@24/30Hz,4K@50/60/120Hz, 8K@24/30/50/60Hz
- Operating Temperature: 32°F – 158°F (0°C-70°C)
- Storage Humidity: 5% to 90% TH Non-condensation
- Power Consumption (Max): 5W
- Switcher Unit & Power Supply Certifications: FCC, CE, RoHS
- Dimensions (LxWxH): 5.35 x 2.41 x 0.56in (136.3 x 61.5 x 14.5mm)
- Weight: 0.3563lbs (163g)

Operation Controls and Functions:



1. **Power LED Indicator**
2. **Input Ports 1-4 LED Indicators** - Blue LED indicates an active signal path while no LED indicates no input signal
3. **Auto Mode LED Indicator** - LED on indicates the unit is in automatic switching mode while off indicates it's in manual switching mode
4. **IR Mode LED Indicator** - LED on indicates the unit is in the normal IR receiver mode while off indicates it's not in IR function mode
5. **IR Signal Receiver Port**
6. **Switch** - Press to change the input channel, automatic / manual switching mode, and IR receiver mode
7. **DC/5V** - DC 5V input via micro-USB
8. **HDMI Output Port**
9. **HDMI Input Port 1-4**

Item Includes:

1. **Remote Control:**
    a. **Power Button**
    b. **1-4** - Press the number to select the input source accordingly
    c. **IR** - Press to turn on/off the IR receiver function
2. **USB Power Cable**



Connection Diagram



PRODUCT SERVICE

Damage requiring service:

- The unit should be serviced by qualified service personnel if:
- (a) The DC power supply cord or AC adaptor has been damaged
- (b) Objects or liquids have gotten into the unit
- (c) The unit has been exposed to rain
- (d) The unit does not operate normally or exhibits a marked change in performance; The unit has been dropped or the cabinet is damaged.
- (2) Servicing Personnel: Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.
- (3) Replacement parts: When parts need replacing ensure the servicer uses parts specified by the manufacturer. Unauthorized substitutes may result in fire, electric shock, or other hazards.
- (4) Safety check: After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.

Please keep the following in mind as you unpack and install the unit:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit

WARRANTY

1 Year