

## OMX-01HMHM0006

Ocean Matrix OMX-01HMHM0006 HDMI  
1x2 Extender Splitter Set with HDMI  
Loop Out - POC - IR Function

### OPERATION MANUAL



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## Description:

The Ocean Matrix OMX-01HMHM0006 HDMI is a 1x2 HDMI extender splitter set that combines splitting and extension functionality, allowing for local displaying and remote viewing. The HDMI signal is distributed simultaneously to local and remote outputs, making this device ideal for digital signage applications that require high-quality HDMI video up to 4K@60Hz 4:4:4. Additionally, the OMX-01HMHM0006 can extend IR signals from remote controls, allowing you to control video sources directly from the display-end of your setup. For additional convenience, the unit supports two-way POC (Power Over Cable) enabling either the transmitter or receiver to be powered by a single 12V power supply.

## Features:

- Supports High Resolutions up to 4096x2160p 50Hz (4:4:4) and 3840x2160p 60Hz (4:4:4).
- Supports Full 3D Format
- HDCP 2.2 & HDCP 1.4
- Data Transfer Rate up to 6.0Gbps Per Channel (18Gbps All Channels)
- TMDS Clock up to 600MHz
- Supports 12bit Per Channel (36bit all Channels) Deep Color
- Supports Uncompressed Audio Such as DTS, Dolby Digital (Including DTS-HD Master Audio and Dolby TrueHD)
- Supports 2-Way 12V POC (Power over Cable) from Tx to Rx or Rx to Tx

## Specifications:

- Input Port: HDMI x 1 / RJ45 x 1 / 3.5MM x 1
- Output Port: HDMI x 1 / Loop Out x 1 / RJ45 x 1 / 3.5MM x1
- Transmission Distance: 4096x2160p 50Hz (4:4:4) up to 230 Feet (70m)
- Vertical Frequency Range: 50/60Hz
- IR Frequency Range: 20-60KHz
- Interlaced Resolutions (50 & 60Hz): 480i, 576i, 1080i
- Progressive Resolutions (50 & 60Hz): 480p, 576p, 720p, 1080p, 4K@60Hz
- Operating Temperature: 32°F to 122°F
- Storage Humidity: 5% to 90% RH Non-Condensation
- Power Supply: DC 12V
- Power Consumption (Max): TX: 1.3W / RX: 1.6W
- Power Supply and Extender Certifications: FCC / CE / RoHS
- Dimensions (LxWxH): 3.97 x 3.47 x 0.92"
- Net Weight: 6.9oz (196g)

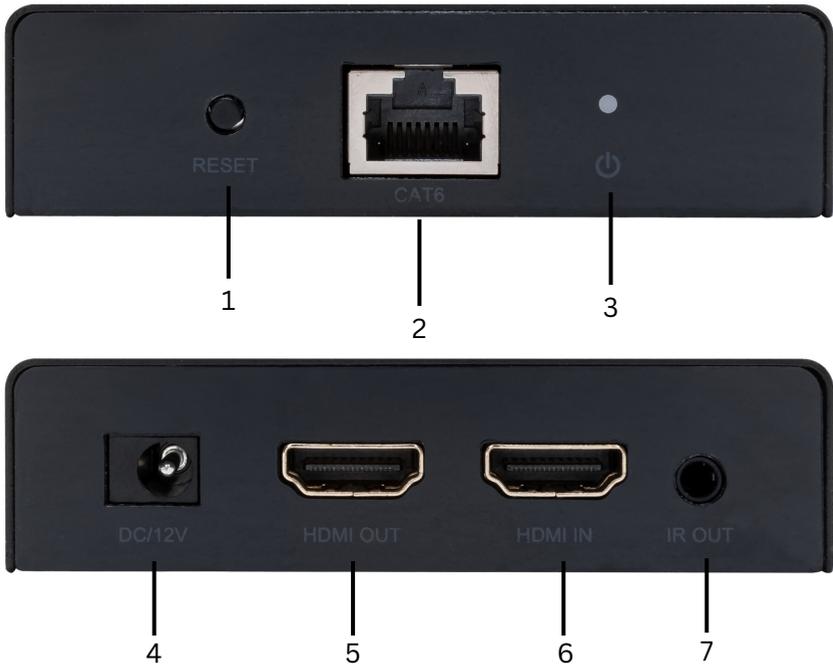
## Item Includes:

- 1 x 12V Power Supply
- 4 x Mounting Ears
- IR Sender Cable
- IR Receiver Cable



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## Operation Controls and Functions: Sender:

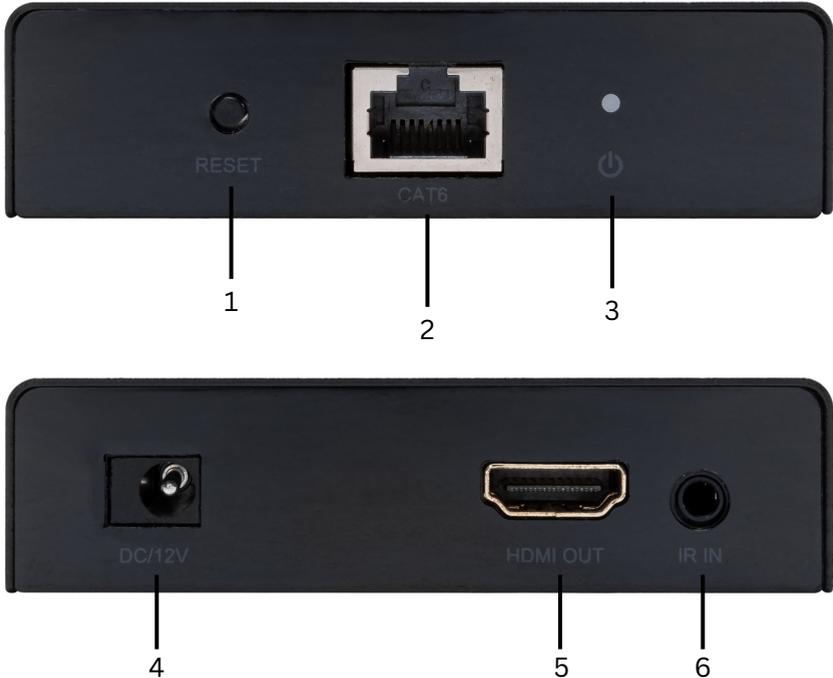


1. **Reset** - click to reset sender.
2. **CAT 6** - UTP Cable connection port.
3. **Power** - Power LED indicator.
4. **DC 12V In** - Power supply input.
5. **HDMI Out** - Connect to output devices via HDMI male output port for local loop out.
6. **HDMI In** - Connect to input sources via HDMI male input port.
7. **IR Out** - IR signal output port.



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## Operation Controls and Functions: Receiver:



1. **Reset** - click to reset sender.

2. **CAT 6** - UTP Cable connection port.

3. **Power** - Power LED indicator.

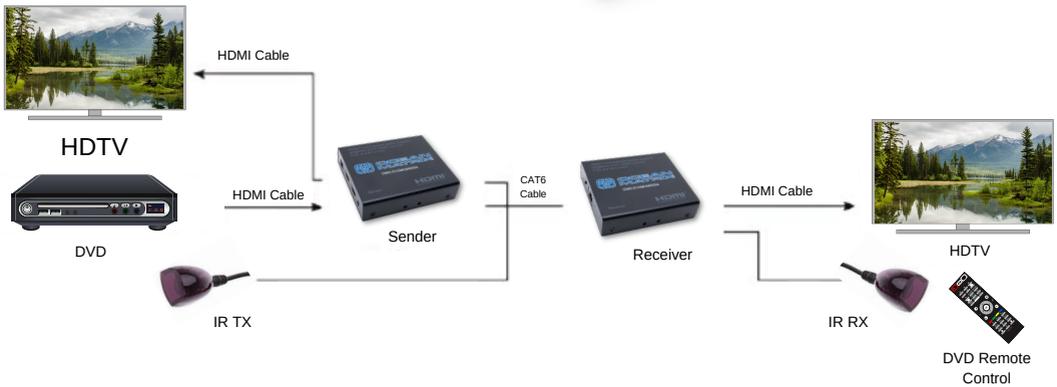
4. **DC 12V In** - Power supply input.

5. **HDMI Out** - Connect to output devices via HDMI male output port for local loop out.

6. **IR In** - IR signal input port.



# Connection Diagram:



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# 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



812 Kings Highway | Saugerties, NY 12477 | 845-246-7500 | [www.oceanmatrix.com](http://www.oceanmatrix.com)

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