

## OMX-06HMHM0002

HDMI 2.0 1x4 Splitter with HDCP 2.2 and  
Downscaling

### OPERATION MANUAL



# INTRODUCTION

The Ocean Matrix OMX-06HMHM0002 HDMI 2.0 splitter distributes HDMI video and audio from a singular source such as a camera, Blu-Ray, or digital signage player, to up to 4 HDMI displays simultaneously, with no signal degradation or loss. The unit supports video resolutions up to 4K @60Hz as well as the latest HDMI digital audio formats, is equipped with built-in EDID management, and supports mixed 4K & 1080p display outputs.

## Features

- Displays an Ultra HD Source on up to Four Ultra HD Displays Simultaneously
- Supports Resolutions up to Ultra HD 4k x 2k (3840x2160@60 Hz Yuv 4:4:4)
- Built-in EDID Management
- HDCP 2.2/1.4 Compliant
- 36 Bit Deep Color (12 Bit Color)
- Audio Formats: LPCM 7.1, Dolby TrueHD, Dolby Digital Plus, And DTS-HD Master Audio
- Supports HDR & 3D

## PACKAGE CONTENTS

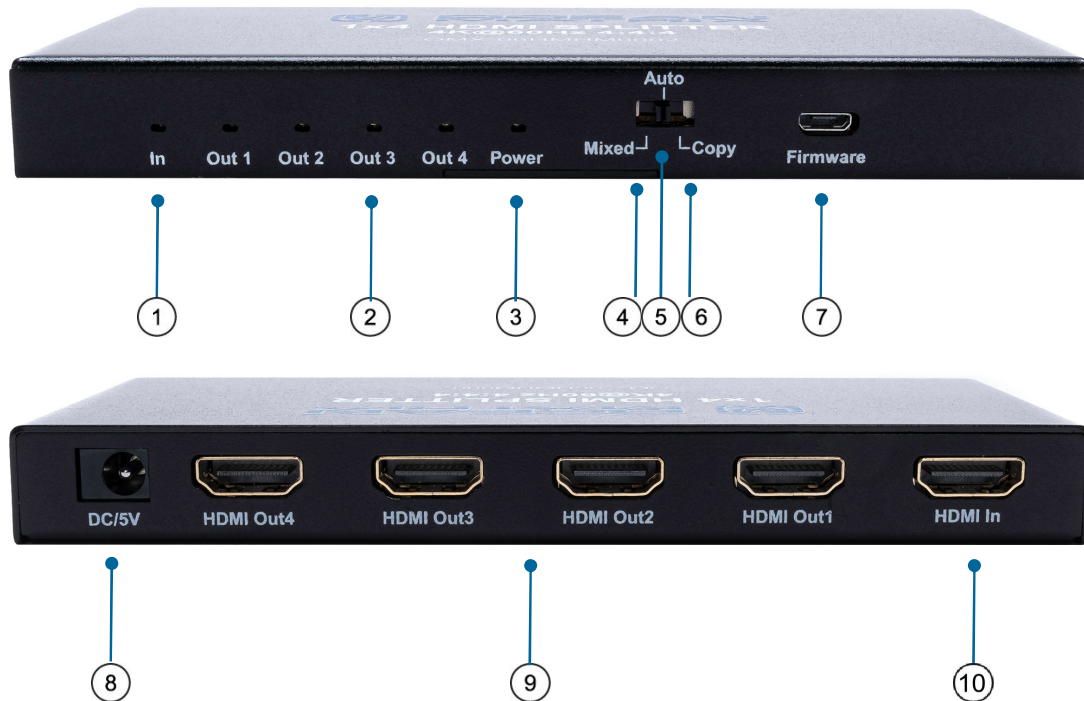
- 1 5V/1A DC Adapter
- 2 Rack Ears
- 4 Screws



# Specifications

Operating Temperature Range	-5 to 40°C (23 to 104°F)
Operating Humidity Range	5 to 90%RH (No Condensation)
Bandwidth Frequency	18Gbps
HDCP	HDCP 2. 2
Input Ports	1xHDMI (Female)
Output Ports	4xHDMI Outputs (Female)
Resolution Outputs	Up to 4Kx2K(3840x2160@60Hz YUV 4:4:4)
Dimensions (LxWxH)	150x64.2x17mm (5.90in x 2.6in x .69in)
Power Consumption	2W(MAX)
Transmission Distance	15m (Maximum) Over Standard HDMI Cable / 26AWG
Net Weight	245g (8.7oz)

## PANEL DESCRIPTIONS



- 1) Indicator of HDMI Input
- 2) Indicator of HDMI Output
- 3) Indicator of Power Input
- 4-6) EDID Selection Switch

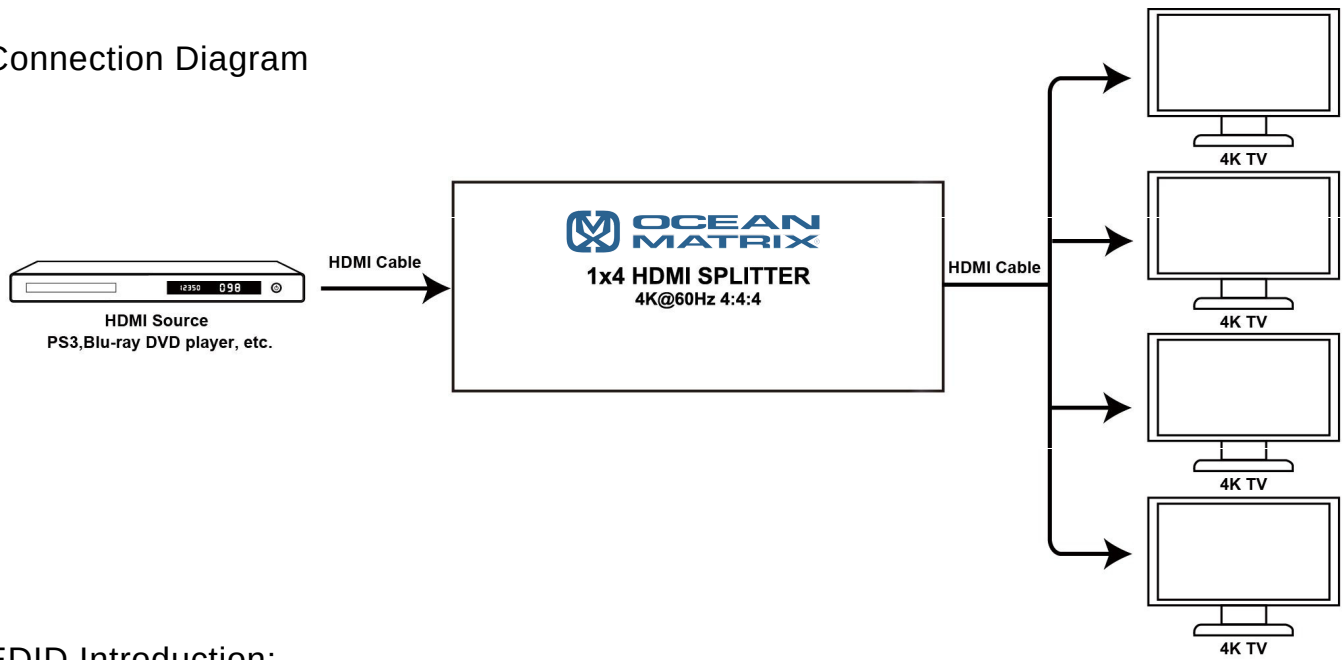
- 7) Firmware Port - *Factory Use Only*
- 8) Power Input
- 9) HDMI Output Ports
- 10) HDMI Input Port



## Connecting and Operating

- 1) Connect the HDMI input source to input port of HDMI splitter.
- 2) Connect the HDMI splitter output ports to the displays.
- 3) Power up splitter, source and displays.

## Connection Diagram



## EDID Introduction:

**EDID Copy:** When HDMI Output 4 is connected to a display, outputs 1, 2 and 3 will automatically default to that resolution. The default resolution is 4K@60Hz.

**Auto:** Defaults at 4K@60Hz.

**NOTE-** Always follow the lowest resolution of the connected displays, in order to ensure that the source is displayed on all connected devices.

**Mixed EDID:** If the connected display supports HDCP 2.2, the unit will output 4K@60Hz. If the connected display does not support HDCP 2.2, the unit will output 1080p.

Input source	HDMI Display - Supports HDCP 2.2	HDMI Display - Doesn't Support HDCP 2.2
HDCP2.2 4K@60Hz	HDCP2.2 4K@60Hz	HDCP1.4 1080p@60Hz
HDCP2.2 4K@24Hz	HDCP2.2 4K@24Hz	HDCP1.4 1080p@24Hz
HDCP1.4 4K@24Hz	HDCP1.4 4K@24Hz	HDCP1.4 4K@24Hz

HDR is supported in both EDID Copy and Mixed EDID modes.



## 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

