

## OMX-07HMHM0002

4K 60Hz HDMI 4x1 Switcher with USB  
Device/Hotkey Switching and  
Mic/Speaker Function

### OPERATION MANUAL



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## Description:

The Ocean Matrix OMX-07MHM0002 is a 4x1 HDMI switcher that supports USB Device/Hotkey Switching and Mic/Speaker functionality. The switcher features four independent HDMI and USB inputs that allow you to connect to a PC while supporting 4k resolutions and 7.1 surround sound audio.

## Features:

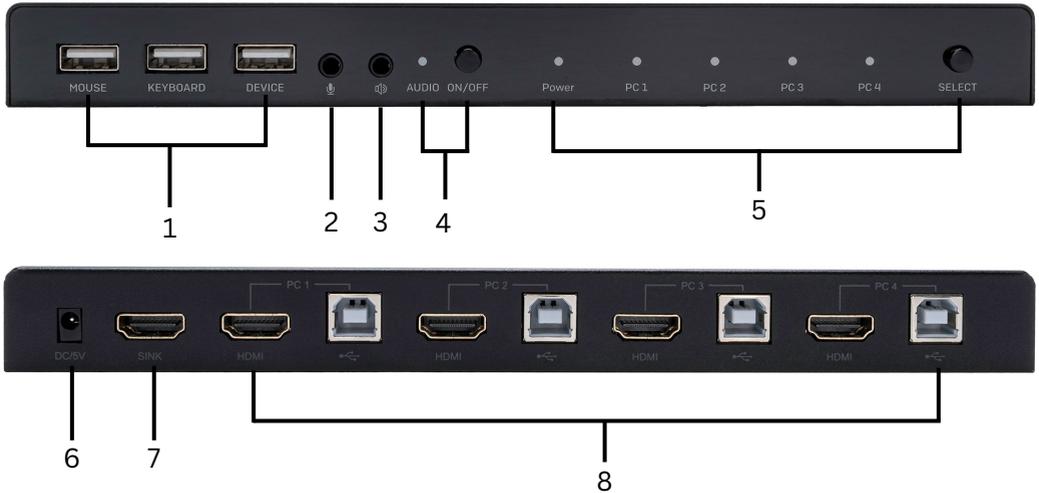
- Three USB-A ports for Keyboard, Mouse, and other Devices
- Front Panel Allows for Manual Switching or Hotkey Switching Via the Keyboard
- Supports Resolutions up to 4K@60Hz YUV 4:4:4
- Supports Full 3D Format, HDR Video and CEC
- Passes Embedded Audio Through HDMI
- Features Mic Input Option
- HDCP 2.2 and HDCP 1.4 Compliant
- HDMI 2.0 Compliant
- Data Transfer Rate up to 6Gbps Per Channel (18Gbps All Channels)
- TMDS Clock up to 600MHz
- Supports 12bit Per Channel Deep Color (36bit All Channels)
- Supports LPCM, DTS, Dolby Digital (Including DTS-HD Master Audio and Dolby TrueHD) Audio

## Specifications:

- Input Ports: HDMI x 4, USB x 4, MIC x 1
- Output Ports: HDMI x 1, Keyboard x 1, Mouse x 1, USB Device x 1, Audio x 1
- Vertical Frequency Range: 50 / 60Hz
- Video Amplifier Bandwidth: 6.0Gbps / 600MHz per Channel (18Gbps all Channels)
- Interlaced (50 & 60Hz): 480i, 576i, 1080i
- Progressive (50 & 60Hz): 480p, 576p, 720p, 1080p, 4K@24/25/30/50/60Hz
- Operating Temperature: 32°F to 122°F / 0°C to 50°C
- Storage Humidity: 5% to 80% RH Non-Condensation
- Power Supply: DC 5V
- Power Consumption (Max): 5W
- Switcher Unit Certification: FCC, CE, RoHS
- Dimensions (LxWxH): 9 x 4.25 x 0.88" / 231 x 108 x 23mm
- Weight: 1.26lbs / 515g



# Operation Controls and Functions:



## 1. Mouse, Keyboard, Device Input

2. MIC IN - Mic audio input.

3. Audio - Stereo audio output.

4. Power - Power indicator.

5. PC1-4 Port Indicator and Select Button - Press the select button to choose PC1-4 ports.

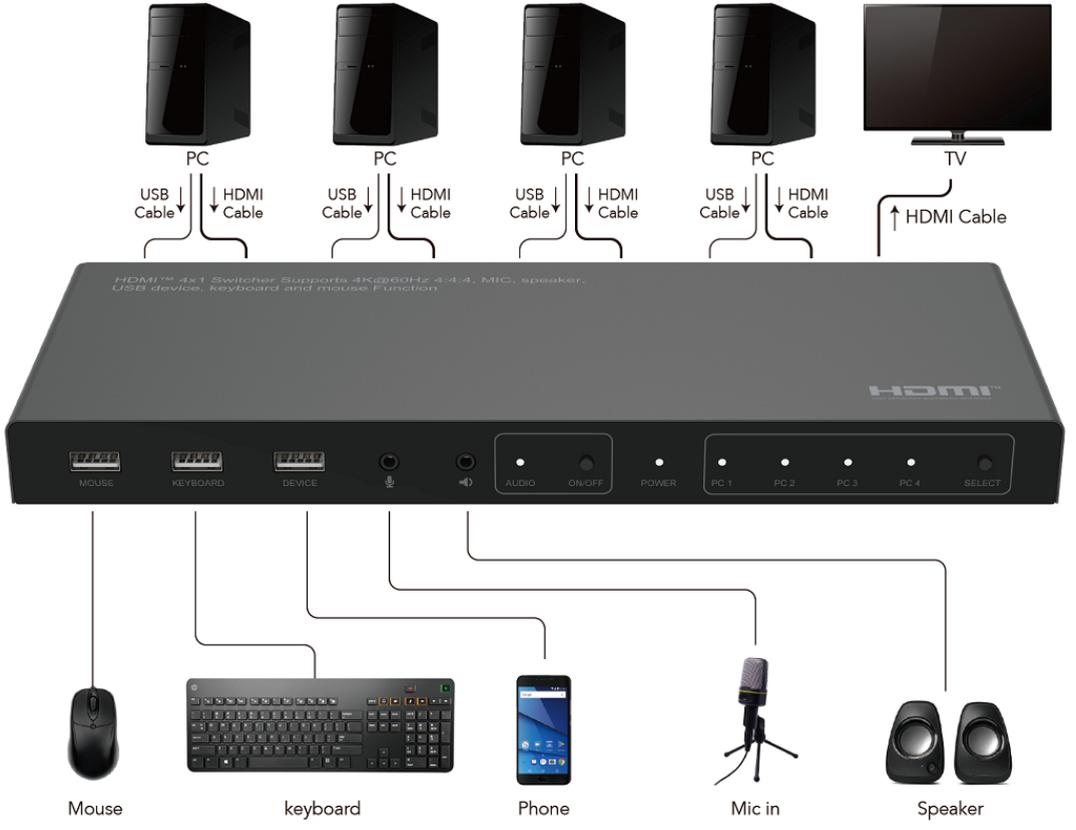
6. DC/5V - DC 5V input.

7. Sink - HDMI output

8. HDMI and USB-B Port PC 1-4 - HDMI and USB-B Source Input



# Connection Diagram:



## Hotkey Switching Command List:

Command	Function
Right CTRL + Right CTRL + n, n = 1,2,3,4	Switch to the PC1-4 input
Right CTRL + Right CTRL + s	Turn on/off automatic scanning, 10 seconds for default scanning
Right CTRL + Right CTRL + b	Switch on/off the buzzer
Right CTRL + Right CTRL + t	Switch on/off the automatic detection function
Right CTRL + Right CTRL + r	Reboot the device and reset the input port
Right CTRL + Right CTRL + s + n	Setting the automatic scanning time from 9 to 999 seconds
Right CTRL + Right CTRL + Scroll lock	Switch Scroll lock to hotkey, Scroll lock + Scroll lock + Right CTRL + Enter, changes the hotkey from Scroll lock to Right CTRL (default)
Right CTRL + Right CTRL + Num lock	Switch Num to hotkey, Num lock + Num lock + Right CTRL + Enter, changes the hotkey from Num lock to Right CTRL (default)
Right CTRL + Right CTRL + → or ↓	Switch to next input port
Right CTRL + Right CTRL + ← or ↑	Switch to previous input port
Right CTRL + Right CTRL + ESC	Reset to factory default settings



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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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