

HDMI Matrix Switcher



Engineered for Clarity. Designed for Control

4x2 Seamless Matrix Switcher with Multiview and USB 3.2 Capture

Overview

This Ordains 4x2 seamless matrix switcher supports video resolutions up to 4K@60Hz 4:4:4 8bit deep color and HDCP 2.2 and 1.x compliant, it features multi-view function for multi sources can be displayed on single screen. This matrix switcher supports two HDMI™ outputs with one USB 3.2 capture output and four HDMI™ inputs, each input with loop out port for cascading connection. Matrix switcher can be controlled via front panel buttons, remote control, API commands using RS-232 or TCP/IP. A Web server / GUI is built in that features A/V control, and input EDID management.



Features

- Video resolutions up to 4K@60Hz 4:4:4, as specified in HDMI™ 2.0b
- HDCP 2.2 and HDCP 1.x compliant
- USB 3.2 Gen 1 up to 5Gbps
- 4x2 seamless switching (single screen) and fast switching (multiview) function
- 4K video capture over USB 3.2 Gen 1 with standard UVC/UAC protocol
- Seamless switching without black screen or tearing screen (matrix mode)
- Multiple Multiview display modes: Auto/Single/PIP/PBP/Triple/Quad view and customized layouts
- Supports HDR10, HDR10+, HLG and Dolby Vision pass-through
- Supports HDR to SDR conversion
- Flexible control via front panel buttons, IR remote, RS-232, TCP/IP or Web GUI
- Auto or manual switching mode
- Input: 4x HDMI™, 1x USB 3.2 Gen 1 host
- Output: 4x HDMI™ loop, 2x HDMI™, 1x Optical audio, 1x Analog audio
- Audio de-embedded
- Advanced EDID management

Technical Specifications

OS-HMS42MVU

Specification	Details
Model	OS-HMS42MVU
HDMI / HDCP Compliance	HDMI™ 2.0b / HDCP 2.2 and 1.x
Video / USB Bandwidth	18Gbps HDMI / USB 3.2 Gen 1 up to 5Gbps
Input Video Resolution	All Supported Full HD and 4k Resolutions
Output Video Resolution	HDR Bypass Mode: Video passthrough from input HDR to SDR Mode: All Supported Full HD and 4k Resolutions
IR Level	12Vp-p
IR Frequency	Wideband 20K-60KHz
Color Depth	8/10/12-bit
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio Formats	HDMI™ Passthrough: LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atoms, DTS, DTS-HD, DTS-HD Master Audio, DTS-96/24, DTS High Res Audio Breakout: Optical Out: Up to LPCM/Dolby/DTS 5.1CH Line Out: Only LPCM 2CH (sample rate 32-192kHz)
Transmission Distance	HDMI™ passive cable: 9.8ft/3m , USB 3.2 Gen 1 5Gbps passive cable: 4.9ft/1.5m
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) , ±4kV (Contact discharge)
Input ports	4x IN [HDMI™ Type A, 19-pin female]
Output ports	1x OUT 1 [HDMI™ Type A, 19-pin female, single/multiview output] 1x OUT 2 [HDMI™ Type A, 19-pin female, single screen output] 4x LOOP [HDMI™ Type A, 19-pin female], 1x LINE AUDIO OUT [5pin-3.5mm phoenix connector] 1x OPTICAL AUDIO OUT [S/PDIF], 1x UVC/4K [9-pin USB Host Type B, USB 3.2 Gen 1 5Gbps, supporting UVC/UAC]
Control ports	1x RS-232 [3pin-3.5mm phoenix connector, RS-232 API control] 1x LAN [RJ45 connector, TCP/IP and Web GUI] 1x SERVICE [USB-C with USB 2.0 only, FW upgrade] 1x IR EXT [3.5mm audio jack, IR IN 12V level]
Housing	Front panel: Aluminum; Rear case: Metal Enclosure
Color	Black
Dimensions	440mm [W] × 200mm [D] × 44mm [H]
Weight	2.65kg
Power Supply	AC100 - 240V 50/60Hz
Power Consumption	61.6W (Max)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	20%~80% (relative humidity, non-condensing)
Storage Humidity	10%~90% (relative humidity, non-condensing)

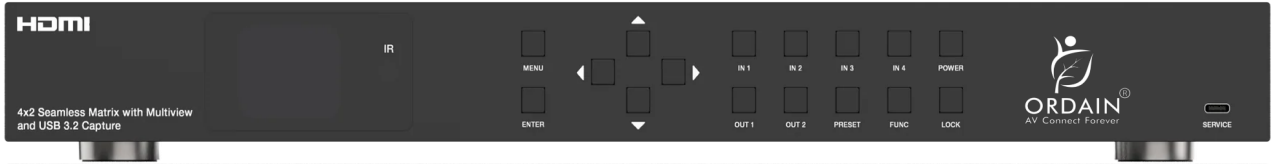
* Pictures of Device may vary from actual models.
* Product Hardware / Specification are subject to change-without further notice.
* All Trademarks, Logos, Brands & Product name are properties of the respective owner



Visit us at:- www.ordainindia.com | E-mail: sales@ordainindia.com or sales@soundshine.co.in

Head Office:- B-191, 2nd Floor, Phase-1, Naraina Industrial Area, New Delhi-110028 | Marketing By:- Soundshine Projects Private Limited

Front View

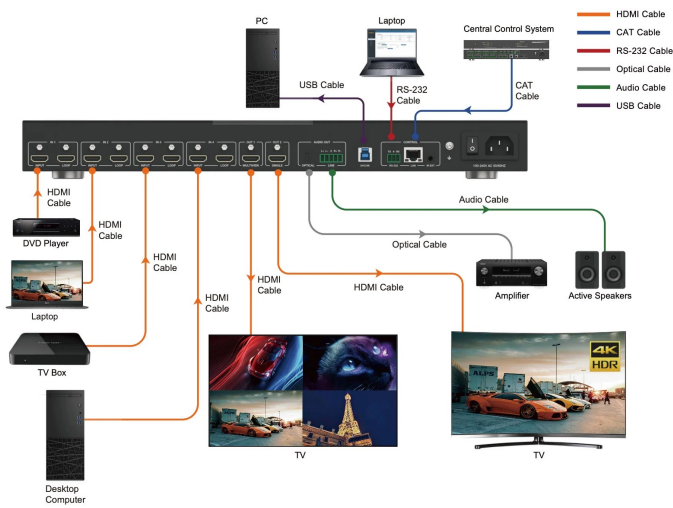


Rear View

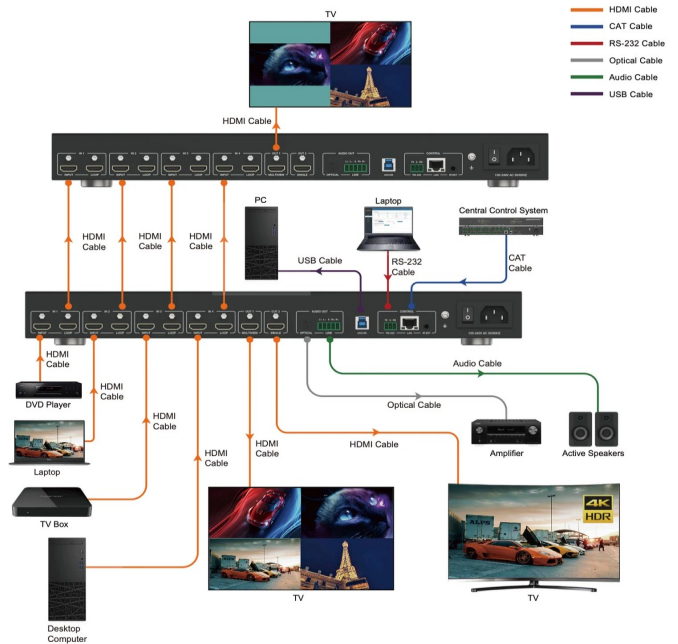


Connectivity Diagram

Connection Diagram 1: General Application



Connection Diagram 2: Cascading Application



* Pictures of Device may vary from actual models.
 * Product Hardware / Specification are subject to change-without further notice.
 * All Trademarks, Logos, Brands & Product name are properties of the respective owner