

# HDMI Presenter Switcher



Engineered for Clarity. Designed for Control

4x2 HDMI™ and USB-C Huddle Room Switcher

## Overview

OS-PS-0402CH

This Ordain's 4x2 Huddle Room Switcher with multiple control methods, designed with two HDMI™ and two USB-C inputs, two HDMI™ output, one USB-C host, one USB-B host, one USB-C device, two USB-A devices, dual 1G Ethernet ports. Video resolution is up to 4K@60Hz 4:4:4, delivering high-quality visuals for presentations and displays. Audio embedding and de-embedding on a balanced analog audio interface, ensuring clear and synchronized audio record and playback

The product also supports USB KVM, RS-232, GPIO, IR and Ethernet switching functions, as well as auto and manual switching, auto signal detection and wake up the whole system including external devices. It can be controlled via front panel button, RS-232, TCP/IP and Web GUI.

It features multiple interfaces for the easy connection between the BYOD devices and the meeting room devices, providing versatility and enhanced connectivity for presentation environments. It



## Features

- HDCP 2.3 and DP 1.4a compliant
- 4x2 huddle room switcher with USB-C/HDMI™ input and HDMI™ output
- USB-C input with DP Alt mode up to 4K60Hz 4:4:4, USB 3.2 Gen1 (5Gbps), 1G ethernet and 100W charging (50W of each port)
- HDMI™ input up to 4K60Hz 4:4:4, as specified in HDMI™ 2.0b
- Fast switching including auto and manual switching modes
- Auto switching with signal detection and 5V detection
- USB 3.2 Gen 1 (5Gbps) host and local hub
- USB 3.2 Gen 1 (5Gbps) device with 5V/1.5A power output
- Support balanced/un-balanced analog audio embedding / de-embedding to and from USB or HDMI™ audio
- Advanced EDID management
- User defined welcome screen and no signal display image
- Dual 1G Ethernet ports with 802.1x and VLAN
- IR eye for IR learning and control
- Auto display on/off control
- External device control via CEC/IR/RS-232/LAN/GPIO
- Control via front panel buttons, RS-232, TCP/IP and Web GUI control



\* Pictures of Device may vary from actual models.

\* Product Hardware / Specification are subject to change-without further notice.

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Visit us at:- [www.ordainindia.com](http://www.ordainindia.com) | E-mail: [sales@ordainindia.com](mailto:sales@ordainindia.com) or [sales@soundshine.co.in](mailto:sales@soundshine.co.in)

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

## Specification

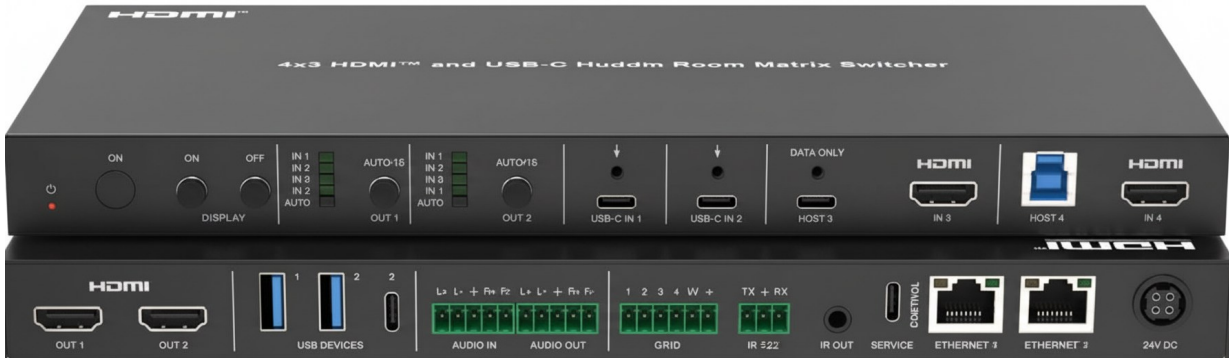
## OS-PS-0402CH

Technical	
HDMI™ Compliance	HDMI™ 2.0b
HDCP Compliance	HDCP 2.3
DP Compliance	DP 1.4a (USB-C input)
USB Compliance	USB 3.2 Gen1 (5Gbps)
Video Bandwidth	18Gbps
Video Network Bandwidth	1G
Video Resolution (Input & Output)	640x480p60Hz, 800x600p60Hz, 1024x768p60Hz, 1280x1024p60Hz, 1360x768p60Hz, 1440x900p60Hz, 1440x1050p60Hz, 1600x1200p60Hz, 720x480i59.94Hz (480i59), 720x480p59.94Hz(480p59), 720x576i50Hz(576i50), 720x576p50Hz(576p50), 1280x720p50Hz(720p50), 1280x720p59.94Hz(720p59), 1280x720p60Hz(720p60), 1920x1080i50Hz(1080i50), 1920x1080i59.94Hz(1080i59), 1920x1080i60Hz(1080i60), 1920x1080p23.98Hz(1080p23), 1920x1080p24Hz(1080p24), 1920x1080p25Hz(1080p25), 1920x1080p29.97Hz(1080p29), 1920x1080p30Hz(1080p30), 1920x1080p50Hz(1080p50), 1920x1080p59.94Hz(1080p59), 1920x1080p60Hz(1080p60), 3840x2160p23.98Hz(2160p23), 3840x2160p24Hz(2160p24), 3840x2160p25Hz(2160p25), 3840x2160p29.97Hz(2160p29), 3840x2160p30Hz(2160p30), 3840x2160p50Hz(2160p50), 3840x2160p59.94Hz(2160p59), 3840x2160p60Hz(2160p60), 4096x2160p23.98Hz, 4096x2160p24Hz, 4096x2160p25Hz, 4096x2160p29.97Hz, 4096x2160p30Hz, 4096x2160p50Hz, 4096x2160p59.94Hz, 4096x2160p60Hz
Color Space	RGB, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0
Color Depth	8/10/12-bit, 8-bit (4K@60Hz, 4:4:4)
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio Video Formats	HDMI™/USB-C IN, HDMI™ OUT: LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS- HD Master Audio, DSD Analog Audio IN/OUT: LPCM 2CH (sample rate 32~192kHz)
Input Impedance	20K Ohm balanced, 10K Ohm unbalanced
Input Level	Max 8.2dBu (2Vrms) balanced audio
Frequency Response	20Hz to 20kHz (-/+0.5dB) (Audio in), 20Hz to 20kHz (-/+1dB) (Audio out)
Dynamic Range	>90dB@0dBu, 1kHzA-weighted (Audio In / Out)
Audio S/N Ratio	>90dB@0dBu, 1kHzA-weighted (Audio In / Out)
Audio THD+N	< 0.01% at +4dBu, 1KHz(Audio in ), < 0.067% at +4dBu, 1KHz (Audio out)
Audio Output Delay	<1ms (Audio in )
Output Impedance	600 Ohm balanced, 300 Ohm unbalanced
Audio Output Delay	<1ms (Audio out)
Output Level (Max)	Max 8.2dBu (2Vrms) balanced audio Max 2.2dBu (1Vrms) unbalanced audio
IR Level	5Vp-p
IR Frequency	20K-60KHz
Transmission Distance	USB 3.2 Passive Cable: 1.5m/4.9ft HDMI™ Passive Cable: 3m/9.8ft
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

Connection	
Input ports	2× IN [HDMI™ Type A, 19-pin female], 2× USB-C IN [USB-C, 24-pin female], 1× HOST [USB-C, 24-pin female], 1× HOST [USB-B, 9-pin female], 1× L/R AUDIO IN [5-pin 3.5mm phoenix connector]
Output ports	2× OUT [HDMI™ Type A, 19-pin female], 1× USB DEVICE [USB-C, 24-pin female], 2× USB DEVICE [USB-A, 9-pin female], 1× L/R AUDIO OUT [5-pin 3.5mm phoenix connector]
Control ports	1× RS-232 [3-pin 3.5mm phoenix connector], 1× IR OUT [3.5mm stereo mini-jack], 2× LAN [RJ45 connector], 1× GPIO [6-pin 3.5mm phoenix connector], 1× SERVICE [USB-C, FW update port]

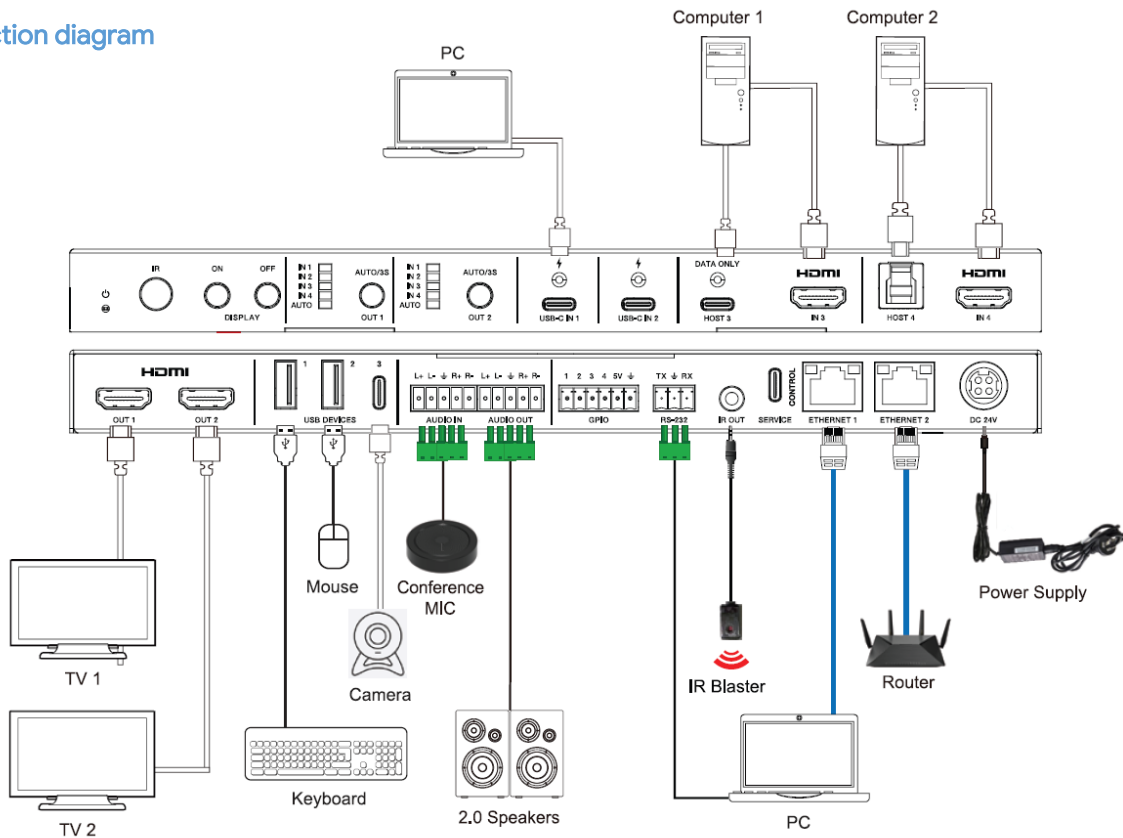
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	270mm [W] × 130mm [D] × 23mm [H]
Weight	890g
Power Supply	Input: AC 100-240V 50/60Hz, Output: DC 24V/7.5A
Power Consumption	41W (without USB-C charging); 149W (with 100W USB-C charging)
Operating Temperature	32°F - 104°F / 0°C - 40°C
Storage Temperature	-4°F - 140°F / -20°C - 60°C
Operating Humidity	20%~80% relative humidity, non-condensing
Storage Humidity	10%~90% relative humidity, non-condensing

Front View



Rear View

Connection diagram



Mode 1 (separated mode): LAN 1 = TCP/IP/Web GUI, LAN 2 = 1G Ethernet only

Mode 2 (switch mode): LAN 1 and LAN 2 = TCP/IP/Web GUI and 1G Ethernet