

# Imoware HMV421-4K

## 4K60 4x1 Multiviewer Seamless UHD Video Switcher



### Introduction

This 4K60 4x1 Multiviewer Seamless UHD Video Switcher was developed for the purpose of supporting higher output resolution (4K@60) for multiple sources on a single screen. It can combine up to four video signals onto a single UHD or HD display. The user can manage each input, and create combinations of the four inputs on a single display

This device supports full range of input video resolutions up to 4K@60 and audio RCA /Optical de-embedding supported for external audio distribution systems.

This device can be controlled via front panel buttons, IR remote, OSD menu navigation, Controller software, RS-232 commands.

## Features

- ☆ HDMI 2.0b, HDCP 2.2 and HDCP 1.x compliant
- ☆ Support 18Gbps video bandwidth
- ☆ Input and output resolutions support up to 4K@60Hz
- ☆ Support LPCM, AC3, DD+, DTS, DTS-HD, up to 7.1 audio channel
- ☆ Seamless switching between input channels and combined multiple images
- ☆ Seamless switching in single screen display mode
- ☆ Fast switching in multiview display mode
- ☆ Audio de-embedding via analog and optical fiber audio ports
- ☆ Support volume control and independent audio selection
- ☆ Support OSD navigation for advanced setting
- ☆ Support OSD text editing by serial command
- ☆ Support Black Screen on each HDMI input by serial command
- ☆ EDID management

## Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2 / 1.x
Video Bandwidth	18Gbps
Video Resolution	Up to 4K@60Hz
IR Level	5Vp-p
IR Frequency	38KHz
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8bit
Audio Formats	<b>HDMI:</b> PCM2.0/5.1/7.1CH, Dolby Digital/Plus, DTS, DTSHigh Res <b>Analog audio [3.5mm L/R]:</b> PCM2.0 <b>SPDIF (OPTICAL):</b> Dolby Digital, DTS 5.1, PCM2.0 <b>Note:</b> It does not support HBR audio.
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

<b>Connection</b>	
Input ports	4 x HDMI IN [Type A, 19-pin female]
Output ports	1 x HDMI OUT [Type A, 19-pin female] 1 x L/R OUTPUT [RCA] 1 x OPTICAL OUTPUT [S/PDIF]
Control ports	1 x RS-232 [3pin-3.81mm phoenix connector] 1 x IR EXT [3.5mm Stereo Mini-jack]
<b>Mechanical</b>	
Housing	Metal Enclosure
Color	Black
Dimensions	220mm [W] x 100mm [D] x 30mm [H]
Weight	620g
Power Supply	Input: AC 100 - 240V 50/60Hz Output: DC 12V/2.5A (US/EU standard, CE/FCC/UL certified)
Power Consumption	10W (Max)
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no-condensing)

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## Application Example

