

# 16x16 4K60 HDMI Matrix Switcher

OmniFrame1616



## DESCRIPTION

The OmniFrame1616 is a mid-sized 16x16 HD seamless hybrid matrix ideal for control rooms, medium-sized meeting rooms, and digital signage systems. It supports 16 inputs and 16 outputs, compatible with HDMI, DVI, VGA, SDI, HDBaseT, and fiber optic signals input, and supports up to 4K@60Hz resolution. Standard dual power redundancy and main control board deliver robust signal processing and network control capabilities.

## PRODUCT FEATURES

### Card Frame Features

- | Modular Design: Supports various input and output boards for flexible configuration to meet different application scenarios
- | High reliability: Dual power supply redundancy design supports 7x24 hours uninterrupted operation
- | Control Board : Supports RS-232, LAN & Web GUI control for easy system integration, also support front panel button operation and IR control
- | Seamless Switching: Supports seamless switching with no black screen or flickering during transitions
- | High-Resolution Support: Supports 2K and 4K resolutions, meeting high-definition and ultra-high-definition video signal processing needs

### Input Board Features

- | Multiple Signal Inputs: Supports HDMI, DVI, VGA, SDI, HDBaseT, and fiber optic inputs
- | High Bandwidth Support: Supports up to 18Gbps data transfer rate, ensuring uncompressed and lossless signal transmission
- | Audio Embedding: Supports audio embedding for synchronized audio signal transmission

### Output Board Features

- | Support Popular Signal Outputs: Supports HDMI & HDBaseT outputs
- | High-Resolution Support: Supports 2K and 4K resolutions, meeting high-definition and ultra-high-definition display needs
- | Audio De-embedding: Supports audio de-embedding for independent audio signal output

## SPECIFICATION

|                       | Technical                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------|
| Input/Output Channels | 16x16                                                                                               |
| Video Bandwidth       | 600MHz / 18 Gbps                                                                                    |
| Video Resolution      | 1920x1200p60Hz (2K series card); 3840x2160p60Hz 4:4:4 (4K series card)                              |
| Color Depth           | 2K series card: 8/10/12-bit (1080p60Hz); 4K series card: 8/10/12-bit (4K30Hz), 8-bit (4K60Hz 4:4:4) |
| Color Space           | RGB / YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0                                                         |
| Audio Formats         | HDMI audio: LPCM 2.0 / 5.1 / 7.1CH; Analog audio: LPCM 2.0CH                                        |
| Power Supply          | Dual Power Board                                                                                    |
| ESD Protection        | Human Body Model: ±8kV (air discharge), ±4kV (contact discharge)                                    |
| Input                 | 4x Input card                                                                                       |
| Output                | 4x Output card                                                                                      |
| Control Board         | RS-232 IN/OUT, LAN, RESET Button                                                                    |
| Enclosure             | Metal Casing                                                                                        |
| Color                 | Black                                                                                               |
| Dimensions            | 483mm x 379mm x 133mm (WxDxH)                                                                       |
| Weight                | 8.62kg                                                                                              |
| Power Supply          | Input: AC100~240V 50/60Hz                                                                           |
| Power Consumption     | 80W - 320W                                                                                          |
| Operation Temperature | 0°C ~ 40°C                                                                                          |
| Storage Temperature   | -20°C ~ 60°C                                                                                        |
| Relative Humidity     | 20% ~ 90% (non-condensing)                                                                          |