

36x36 4K60 HDMI Matrix Switcher

OmniFrame3636



DESCRIPTION

The OmniFrame3636 is a large-scale 36x36 HD seamless hybrid matrix designed for broadcasting centers, command & control centers, and mega exhibitions. It supports 36 inputs and 36 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, meeting ultra-high-density signal routing demands.

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	36x36
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	9x Input card
Output	9x Output card
Control Board	RS-232 IN/OUT, LAN, RESET Button
Enclosure	Metal Casing
Color	Black
Dimensions	483mm x 378mm x 266mm (WxDxH)
Weight	15.4kg
Power Supply	Input: AC100~240V 50/60Hz
Power Consumption	200W - 840W
Operation Temperature	0°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
Relative Humidity	20% ~ 90% (non-condensing)