Datasheet

VWP-MV-LE20E | 4K 30 Seamless HDMI Multi Viewer Video Wall Controller 5SLT



Key features

- Pure FPGA hardware architecture, zero crashes/virus risks
- Seamless switching without black screen intervals
- Supports multi-window display with roaming and PiP
- Store and recall up to 64 preset scenes
- Static base map output without external devices
- Subtitle and logo overlay with custom style options
- 4K×2K ultra-high resolution support
- Independent multi-screen grouping with custom resolutions
- Multiple control options: touchscreen, LAN, RS-232, central Controler, PC Appl.
- Authority management with multi-user access levels

Product Overview

The Macsys VWP-MV-LE20E is an advanced 4K 30Hz seamless HDMI multiviewer and video wall controller built on a reliable FPGA pure hardware architecture. Unlike systems that rely on software-based operating platforms, this controller ensures stability with zero risks of crashes, virus intrusions, or compatibility issues, making it a dependable choice for mission-critical operations.

Engineered to deliver seamless switching, multiview processing, and large-scale video wall control, it allows multiple input signals to be displayed simultaneously across different screens or within independent screen groups without delay or interruption. Its powerful video processing supports flexible operations such as multi-window display, picture-in-picture, roaming, stretching, and rotation, while allowing up to 64 visual scene presets to be stored and recalled with ease.

The device incorporates high-resolution 4K×2K output, static base map capability without external sources, customizable subtitles, and logo overlay functions, ensuring an engaging and professional display experience. Output adjustments, user-friendly operation, and versatile control options (touchscreen, Ethernet, RS-232, central control, iPad, and Android) make it adaptable across industries.

With multi-user authority management, and flexible customization of resolutions per output group, the VWP-MV-LE20E is a complete and secure solution. It is ideal for deployment in education, government command and monitoring centers, exhibitions, information release, military command systems, administrative management, and professional AV applications requiring reliable and high-performance video wall control.

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Technical Specification

Feature	Details
Architecture	FPGA pure hardware, no operating system
Input/Output Scale	3 Inputs / 2 Outputs
Supported Resolution	Maximum 4K × 2K @ 30 Hz, downward compatible
Image Processing	Seamless switching, no black field intervals during signal changes
Multi-Window Functions	Window opening, superimposing, stretching, zooming, PiP, roaming
Scene Management	Store up to 64 scenes; supports scene rotation
Subtitle Function	Custom fonts, colors, background color selection, scrolling speed, adjustable position, multi-greeting storage
Logo/Overlay Support	Custom labeling and station logo superimposition, adjustable font color and position
Base Map Function	Static base map output without need for PC, SD card, or external storage; supports point-to-point output
Output Adjustments	Brightness, contrast, and saturation per output interface
Multi-Screen Grouping	Independent multi-group splicing control, customization of resolution per group, independent group operation
Control Options	Front panel touchscreen, LAN, RS-232, Central control, iPad, Android, PC
Authority Management	Multi-user access with configurable permissions by management software
Storage Environment	Free from corrosive gases, solvents, dust, and strong magnetic fields
Main Power Input	100–240 VAC, 50–60Hz
Operating Temperature	0–40 °C
Storage Temperature	–10–60 °C
Storage Environment	Free from corrosive and solvent gases, no dust, no strong magnetic field interference
Size	2U Rackmount
Certifications	CE, RoHS compliance

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