

TAIWAN PANIO GMS02_2424_01

24x24 HDMI Matrix Switcher with Integrated Video Wall Processor

Taiwan-Made Seamless Video Wall & Matrix Integration

1. Product Overview

The TAIWAN PANIO GMS02_2424_01 is a professional-grade integrated solution combining a 24x24 HDMI matrix switcher and video wall processor. Designed and assembled in Taiwan, it delivers seamless signal switching, splicing, and synchronization, with reliable performance for professional applications. Supporting full HD resolution, multiple control methods, and scene memory, it simplifies complex setups for control centers, exhibitions, broadcast studios, and more—all with Taiwan-engineered quality and plug-and-play convenience.

2. Key Features

24x24 Modular HDMI Connectivity

- 24 HDMI inputs and 24 HDMI outputs for extensive device integration.
- Supports seamless signal switching, matrix mode, and video wall mode to adapt to diverse usage needs.

Centralized & Versatile Control

- Multiple control options: Front-panel buttons, IR remote, dual RS-232 interfaces, and WEB UI for flexible operation.
- Enables centralized system integration and remote management for large-scale setups.

Intelligent Compatibility & Audio Support

- Auto EDID detection and HDCP 1.4 compliance ensure optimal compatibility with displays and sources.
- 3.5mm stereo audio output per HDMI port for easy connection to professional audio systems.

Practical Functionality & Durable Design

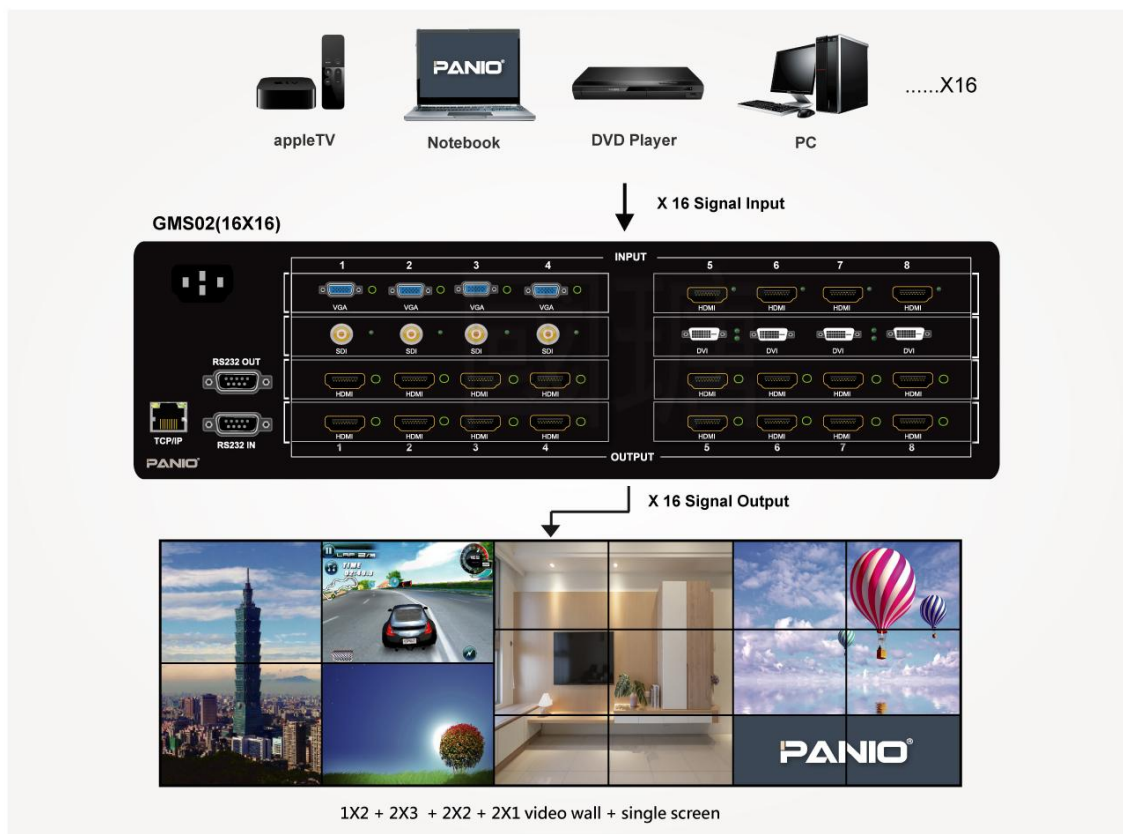
- Scene memory: Stores up to 16 presets for one-click recall of frequently used configurations.

- Automatic power-failure memory and recovery to preserve settings during unexpected shutdowns.
- 19" 6U rack-mount chassis with Taiwan professional-grade construction for stable installation.

Full HD Performance

- Supports 1920×1200 / 1920×1080 @60Hz full HD resolution, backward compatible with lower resolutions.
- 10.2 Gbps total bandwidth (3.4 Gbps per channel) for smooth, artifact-free signal transmission.

Diagram



Example of a 16×16 Video Wall Application using the HDMI Matrix Switcher integrated with a Video Wall Processor.

3. Technical Specifications

Model Name	TAIWAN PANIO GMS02_2424_01
Input Interfaces	24 HDMI ports
Output Interfaces	24 HDMI ports + 3.5mm stereo audio per output
Resolution	1920×1200 / 1920×1080 @60Hz (backward compatible)
Bandwidth	Total: 10.2 Gbps; 3.4 Gbps per channel
Control Methods	Front-panel buttons, IR remote, dual RS-232, WEB UI
Status Display	LED display panel
Max HDMI Cable Length	5m (standard HDMI); longer distances supported via extender
Power Supply	AC 100~240V 50/60Hz (universal voltage)
Power Consumption	Max 85W (6U chassis)
Dimensions (LxWxH)	486 × 400 × 266 mm
Weight	Approx. 14.5 kg

4. Important Installation Notes

1. Use certified HDMI cables to ensure stable signal transmission and avoid visual/audio artifacts.
2. Do not connect uncertified third-party switchers, splitters, or converters to prevent compatibility issues.
3. Always use original TAIWAN PANIO power accessories to maintain performance and safety.
4. Remote control batteries are not included (due to international shipping safety regulations).
5. Contact TAIWAN PANIO technical support in advance for system expansion or third-party device integration.
6. For cable runs exceeding 5m, use compatible HDMI extenders to preserve signal quality.

5. Package Contents

- 1 × TAIWAN PANIO GMS02_2424_01 Main Unit
- 1 × AC Power Cord (100~240V)
- 1 × Remote Control (Battery Not Included)
- 1 × User Manual

6. Ideal Applications

- Control Centers: For security monitoring, industrial management, or command operations (centralized control for multi-source feeds).
- Exhibitions & Trade Shows: Flexible signal switching and video wall setups for product demos or brand displays.
- Broadcast Studios: Seamless synchronization of video/audio sources for live productions or post-production workflows.
- Corporate Meeting Rooms: Integrated matrix switching for presentations, video conferences, and multi-display setups.
- Retail Displays: Dynamic product promotions or brand storytelling across multiple screens in high-traffic areas.