

HW31 3-Port Output Video Wall Processor

Overview

The HW31 is a high-performance 3-port output video wall processor supporting resolutions up to 5760x3240@30Hz and 5760x1080@60Hz. Featuring versatile splicing modes and dual-interface input, it serves as an ideal solution for building stunning video walls in command centers, retail displays, conference rooms, and other professional settings.

Key Features

Multiple Splicing Modes

Integrates pre-configured 2x1, 1x2, 1x3, and 3x1 splicing configurations, compatible with both vertical and horizontal screen orientations. This adaptability allows precise customization of video wall layouts to match specific display requirements.

Dual Interface Input

Equipped with 1x HDMI and 1x DP (HDMI 1.4b compliant) inputs, delivering flexible connectivity for seamless integration with laptops, PCs, and other signal sources.

Ultra-High Resolution Support

- Enables 1x3 horizontal splicing with 5760x1080@60Hz input
- Supports 3x1 vertical splicing with 1920x3240@60Hz input
- DP interface accommodates 5K input resolutions including 5760x3240@30Hz and 5760x1080@60Hz, ensuring sharp, detail-rich visuals

Lossless Display Technology

Supports 4K and higher resolution inputs with pixel-perfect rendering, maintaining distortion-free, non-stretched, and proportional image display. Preserves original image integrity for true-to-life visualization.

180° Rotation Capability

Individual screens can be rotated 180 degrees, providing exceptional flexibility to adapt to diverse display scenarios and spatial constraints.

Independent Audio Output

Features a 3.5mm audio output jack for easy connection to external speakers, delivering clear, high-fidelity audio to enhance the overall AV experience.

Bezel Compensation

Eliminates visual gaps caused by screen bezels in video wall setups. Ensures processed images remain distortion-free and unstretched for a seamless viewing experience.

Mirror Display Function

Offers configurable screen mirroring capabilities, adding versatility to display configurations.

Plug-and-Play Operation

Requires no additional software installation, enabling quick setup. Simply connect devices and initiate operation immediately.

Advanced Image Processing

Incorporates cutting-edge image enhancement technologies including dynamic contrast adjustment, true 6-axis color control, and noise reduction, significantly elevating image quality.

Multiple Control Options

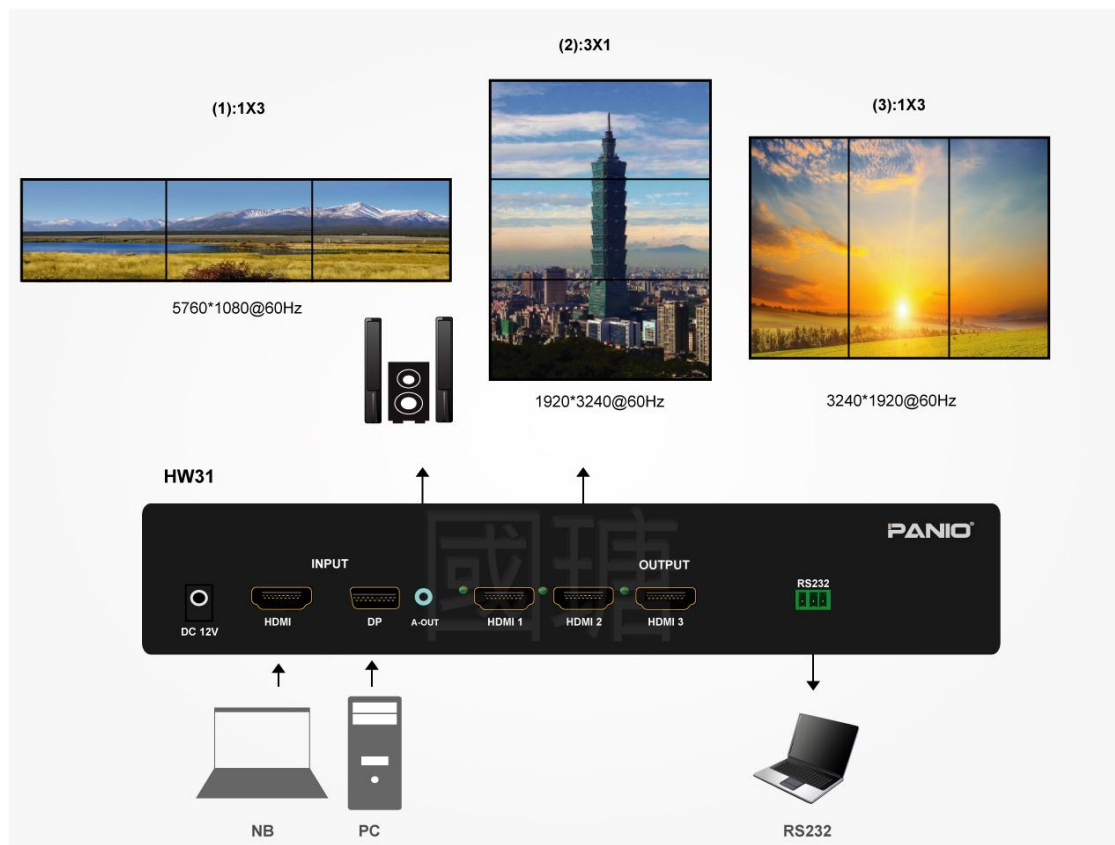
Support for remote control, front-panel buttons, and RS-232 interface provides convenient operation methods tailored to different user preferences and operational scenarios.

Technical Specification

Parameter	Specification
Input Interfaces	1 x HDMI, 1 x DP
Output Interfaces	3 x HDMI, 1 x 3.5mm audio
Input Resolution	DP: 5760x3240@30Hz, 5760x1080@60Hz, 1920x3240@60Hz (backward compatible) HDMI: 3840x2160@30Hz, 1920x3240@30Hz (backward compatible)
Output Resolution	1024x768@60Hz, 1280x800@60Hz, 1280x720@60Hz, 1920x1080@60Hz, 1920x1200@60Hz (switchable)
Video Wall Modes	2x1, 1x2, 1x3, 3x1 (vertical/horizontal orientations)
Cable Support	HDMI 2.0 cables up to 5m for 4K@60Hz transmission

Control Methods	Remote control, RS-232, front-panel buttons
Power Supply	DC 12V 1A
Dimensions	302 x 152 x 40mm (LxWxH)

Diagram



Important Notes

- Use 4K-compatible cables for signal transmission to ensure optimal video quality
- Avoid unauthorized switchers, splitters, or converters to maintain stable operation
- Utilize manufacturer-certified power cables to preserve device performance and safety
- Remote control batteries not included (transport safety requirement)
- Consult us in advance when integrating with other equipment to ensure compatibility

- Total input/output cable length should not exceed 10m; for longer distances, fiber optic HDMI cables are recommended

Package Contents

- 1 x HW31 Processor
- 1 x DC 12V 1A Power Adapter
- 1 x Remote Control (Battery not included)
- 1 x User Manual