

# NETVIO

SIMPLIFYING COMPLEXITY

## IP-SW-24P-10 24Port | 1Gb | AVoIP Network Switch



SafeGuard

### END TO END SOLUTION

Netvio offers an unbeatable AVoIP solution with seamless integration of IP-SW series network switches, encoders, decoders, software, and end-user control applications. It is a single brand that covers all the bases, making installers' lives easier and more profitable.

### EVERYTHING PoE

Netvio IP-SW Pre-Configured network switches are a game-changer for AVoIP installations. With built-in support for IEEE802af and IEEE802.3at standard Power over Ethernet (PoE) up to 900W, these switches eliminate the need for separate power supply units (PSUs) for Netvio encoders, decoders, and controllers.

### ONCE TOUCH SET-UP

Netvio IP-SW network switches are the ultimate solution for AVoIP systems, offering unparalleled convenience with their never-seen-before one-click network configuration and setup feature. Installers can now effortlessly configure and set up the network with a simple click, eliminating the usual complexities associated with network configurations.

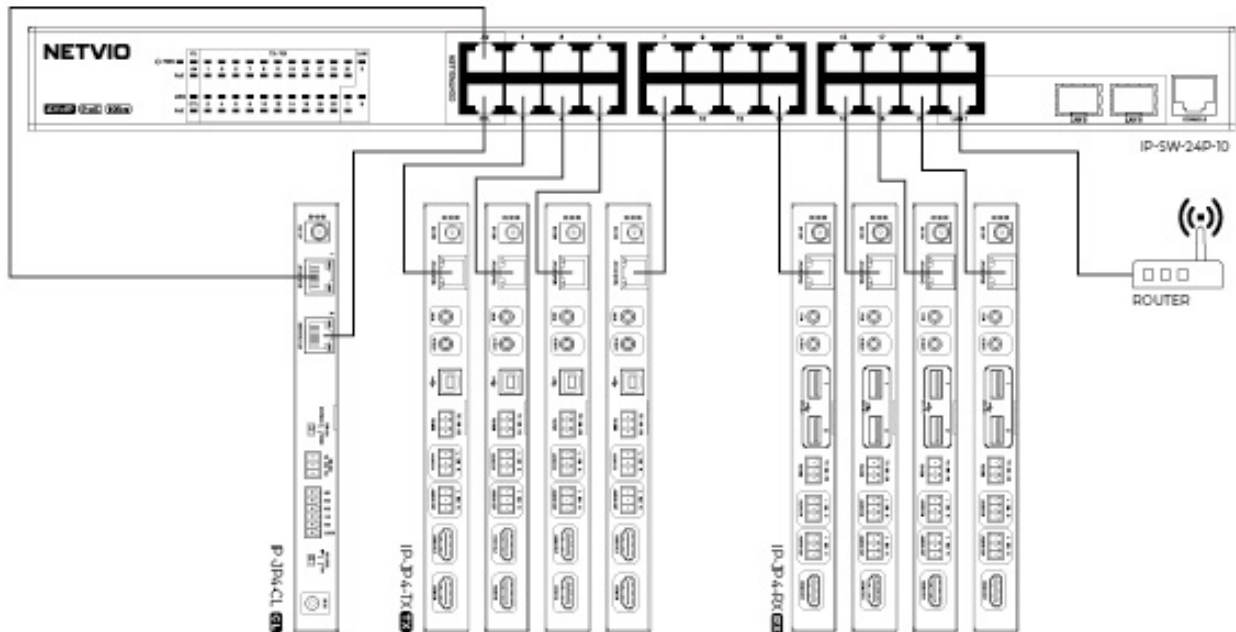
### VIDEO WALL & PREVIEWS

While Netvio IP-SW network switches excel in their ease of setup, it does not compromise on advanced features. The IP-SW series switches are capable of supporting video walls up to 16x16. Additionally, these switches also support RTSP (Real-Time Streaming Protocol), enabling seamless streaming of audio and video content.

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## Basic Wiring Diagram



## NETWORK Specification

### Switch

- 24Port 100/1000 Base-TX | Fully Configured for Netvio JP4 Series
- Configuration via Netvio360 utility including 'one touch' network switch configuration.
- Supports upto 21 end-point devices (encoders or decoders)
- 3 Ports reserved for IP-JP4-CL-10 connection (2no.) & primary LAN or Router (1no.)
- 450W PoE Capable across all 24 Ports
- Max PoE per port: 30W (Netvio devices 12W each)

### Delivery

- Separate multicast group IPs for audio, video, infrared, serial, CEC, USB.
- Link manager via single multicast group IP from query device - response via unicast.
- Default API channel via unicast, secured using SSH protocol.
- Preview, Unicast RTSP protocol for media management of audio/video.

### End to End Latency

- HDMI: (HDMI passthrough) zero frames.
- HDMI path using compatible decoder = 1 video frame.
- HDMI path using compatible decoder with scaling = 2 video frames.
- Preview: ~1s (varies, no fixed clock) + decoder latency

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## VIDEO Specification

### Encoding Data Rate

- LAN Output: Max 850Mb/s
- Preview Output: Max: 20.48Mb/s + 2048Kb/s
- USB Throughput: Max ~60Mb/s

### Max Video Transmission

- 3840x2160 60fps 8b 4:2:2
- IP Preview Main Output: 1920x1080 30fps
- IP Preview Sub Output: 960x580 30fps
- HDMI 3840x2160 60fps 8b 4:4:4

### HDMI

- HDMI 2.0 compatible 6Gbps 600MHz TMDS (e.g. 3840x2160 60fps 4:4:4 8b) via HDMI Type A Receptacle.

### Max Pixel Clock

- 300MHz / 300Mcsc

### HDR Compatibility

- HDR10, HDR10+, Hybrid Log-Gamma, Dolby Vision

### Scaler Function

- 4K to 2K 8b
- Modes include, pass-through (no scaling), Fixed 4K → 2K, Automatic

### HDCP

- Inclusive up to 2.2

## AUDIO Specification

### Audio formats

- LPCM 2ch, LPCM 5.1, LPCM 7.1, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS, DTS Master

## ENVIRONMENTAL Specification

### Storage

- 20°C / +60°C | 20% - 90% RH

### Operating

- 0°C / +40°C | 20% - 90% RH

## COMMUNICATION & CONTROL Specification

### HDMI

- CEC, DDC

### USB

- Supports KVM mode for multiple USB devices (decoder) to USB host (encoder) data routing, device emulation and data contention mitigation.

### RS232

- Supports serial generation and reception. Also supports serial routing from encoder --> decoder(s) and decoder --> encoder(s).

### IR

- Supports Infrared generation and reception. Also supports IR routing from encoder --> decoder(s) and decoder --> encoder(s).

### Drivers & Control

- Drivers available for control systems including C4, Crestron, RTi, Elan, Savant & Demopad
- Discovery, configure, optimise, design via Netvio 360 utility.
- Full spectrum AV control via FREE Netvio application for Apple & Android devices.

### EDID

- Automatic, Onboard pre-sets, Copy sync (RX)

## OTHER INFORMATION

### Power Supply

- 450W PoE IEEE 802.3af, IEEE802.3at compliant.

### FREE Software & Control

- Netvio Configuration utility - discovery, configure, optimise, design, control
- Netvio Control

### Weight & Dimensions

- Height: 46mm (1U)
- Width: 440mm (without rack ears)
- Depth: 200mm
- Weight: 2.26kg

### In the Box

- Mounting brackets
- Regionalized IEC Power Cord

### Regulations

- Safety Approvals: CE, UKCA, FCC, RoSH

### Warranty

- 5-Year Standard Warranty
- 10-Year SafeGuard | 10% product value