

# JP4-60 Series Overview

- Multi-Stream solution supporting simultaneous JPEG2000, H.264 or H.265
- Latest 4K60 4:4:4 content over a standard 1Gb network, extending up to 100m (331ft)
- Full HDR support at 4K60 4:2:2 10bit
- Visually lossless codec not surpassing 850mbps
- Sub-frame ultra-low latency with genlock synchronization.
- Supports latest digital audio formats including Dolby Atmos and DTS:X
- Secure IP terminal for discovery, configuration, security, management & signal routing.
- Onboard Netvio-Go-Control. An alternative approach to a traditional control system
- Drivers for traditional control systems.
- Backed by a 5-Year Product Warranty



IP-JP4-60-TX-10 (Decoder)



IP-JP4-60-TX-10 (Encoder)

# Description

Netvio excels in networked AV, pioneering multi-stream video encoding to outpace industry norms.

Its multi-stream solution flawlessly delivers 4K60 content over a standard 1Gb network, ensuring ultra-low latency and genlock synchronization among devices.

Introducing an innovative layer, Netvio includes a unique 2K30 stream called Content Distribution Plus+. This feature, utilizing Real-time Stream Preview (RTSP), enables simultaneous streaming to diverse applications like digital signage, live streaming platforms, and wireless software decoding, including mobile devices via the Netvio-Go AV-Control application.

Netvio's solutions boast compatibility with various control systems and networking products, providing a comprehensive, versatile AV experience.

# Applications

Perfect for mixed content distribution in venues, events, workspaces, learning environments and luxury residential. Showcases impeccable 4K60 content from various sources, including digital signage, media servers, laptops, PCs, security systems, PTZ cameras, unified communication hubs, and cable TV receivers.

Simultaneously streams dynamic low bandwidth 2K30 content to destinations, such as internet streaming software, live content digital signage, wired or wireless app decoding (VLC), and embedded control panel interfaces, including Netvio's groundbreaking AV-Control platform.



# Encoder

- 1Gb 4K60 HDR, 2K30 PoE Encoder
- 2K30 Low Bandwidth Real-time-stream-protocol (RTSP) including stereo audio
- Connected device control via IR, RS-232-CEC
- Content Plus+ distribution modes, including:
  - Embed live content to digital signage platforms.
  - High-quality 2K30 audio-video decoding through wired and wireless applications (VLC)
  - Personal device streaming with audio and source control using the Netvio Go-AV Control App
  - Capture live content seamlessly for internet broadcasting using live production software.
  - Embedding live content into control interfaces, including Netvio Go-AV Control
- Analog & Digital audio encoding (including ARC/eARC routing)
- Alternative audio content overlay



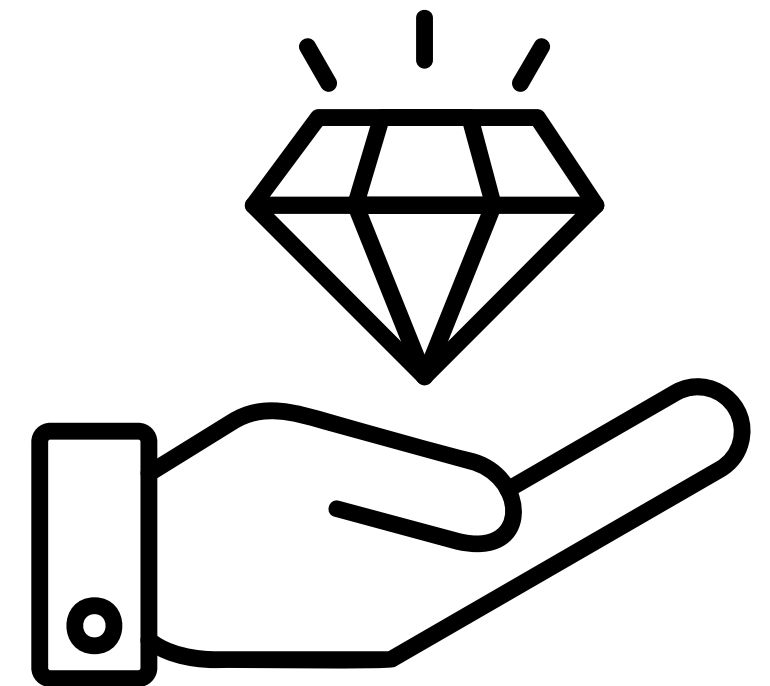
# Decoder

- 1Gb 4K60 HDR PoE Decoder & Video Wall Processor
- Processes landscape and portrait video walls upto 16x16
- Onboard 4K/2K scaling allowing support for legacy displays
- Ultra-low latency including Genlock synchronization between devices
- Enhanced compatibility mode tailored for video conferencing hubs, laptops and commercial displays
- ARC/eARC Capture & Routing
- Connected device control via IR, RS-232-CEC



# Value Proposition

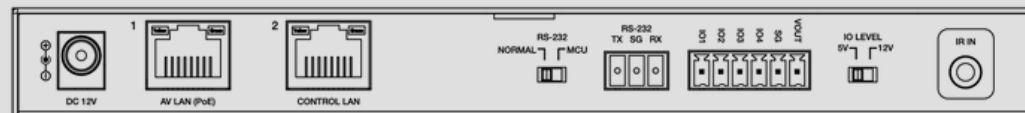
- Latest multi-stream encoding compared single stream from most competitors.
- Netvio360 secure IP terminal with configuration and system admin control.
- AppBuilder software that builds AV control interfaces in minutes not hours.
- License free onboard AV control solution now including enhanced audio control.
- Netvio Content Plus+ distribution modes:
  - Wired & Wireless distribution capabilities through app-based decoding.
  - Ability to stream and control live content to personal devices such as phones & tablets.
  - Stream high-quality, low-bandwidth content to live streaming software.
  - Plug & Play Network switches managing upto 45 devices. Larger systems supported by popular switch brands.



# Accessories

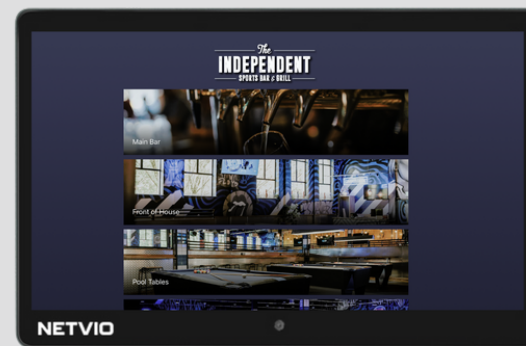
IP-JP4-CL-10

Secure IP Terminal Controller



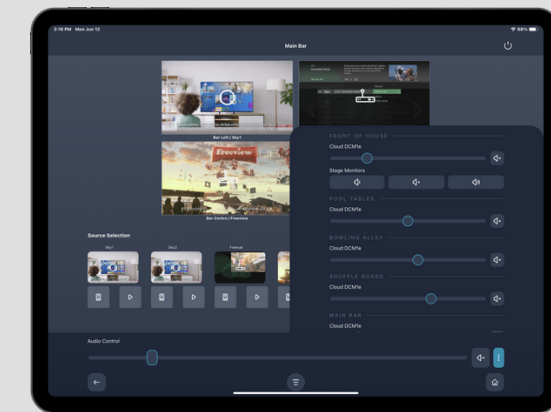
TP-13-10

13.3" PoE Touch Screen Controller



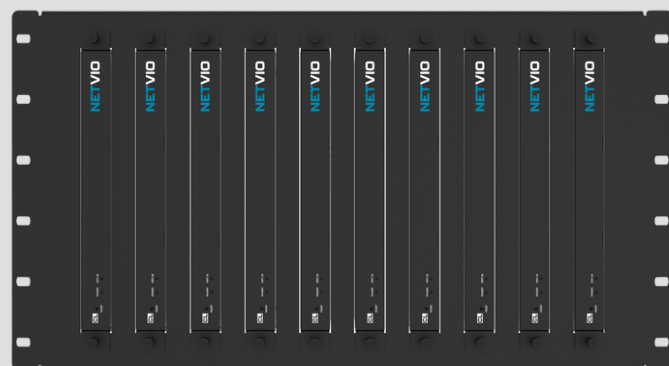
NETVIOGo

License Free Onboard AV Control System



IP-RK-10

6U, 10 Device Rack



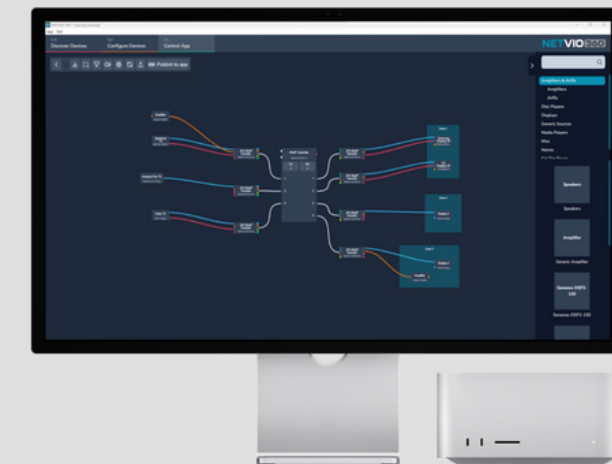
NETVIO360

AVoIP Configuration Software



APPBUILDER

Build AV Control Apps in Minutes



# Technical Specifications

## Audio | Video

- Supports HDMI2.0b 18Gb HDMI input signal.
- Compliance upto HDCP2.2
- Max Video Transmission 3840x2160 60fps 4:4:4 8bit
- HDR Support at 4K60 4:2:2 10bit
- IP Preview (RTSP) Main Output 1920x1080 30fps
- IP Preview Sub Output 960x580 30fps
- Enhanced compatibility mode ideal conference hubs, laptop & commercial display integration.
- HDMI Loop Out (TX) 3840x2160 60fps 8b 4:4:4
- HDR Compatible including HDR10, HDR10+, Dolby Vision
- Scaler capable of 4K to 2K
- End to Latency =< less than 1 video frame
- LPCM 2.0/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-96/24, DTS-EX DSD, DTS High Res, DTS-HD Master
- Multiple audio connectivity including analog and digital options.
- Supports ARC/eARC capture & routing.
- Ability to embed additional audio source to HDMI signal via encoder.

## Software & Control

- Compatible with Netvio360 for discovery, configuration, security, management & routing.
- Independent control signal routing of IR, RS-232 & CEC.
- Available control system drivers include Crestron, Control4, Savant, RTi, Elan.
- Onboard Netvio-Go-Control, a license-free app, provides a compelling alternative to traditional control systems. Tailored for a streamlined and less complex AV experience.
- Onboard IR & RS-232 ports, with signal routing via control system.

## Works with.....

- IP-JP4-60-TX-10 (Encoder)
- IP-JP4-60-RX-10 (Decoder)
- IP-JP4-CL-10 (Secure IP Terminal/Controller)
- IP-RK-10 (Rack)
- IP-SW-24P-10 (Network Switch)
- IP-SW-48P-10 (Network Switch)
- TS-13-10 (Touch Panel)
- Not compatible with IP-JP4 series products.

## Approved Network Switches

- Netvio IP-SW Series
- Cisco SG & CBS Series
- Draytek P Series
- Netgear AV Line
- Araknis 210, 310 Series



## Electrical & Mechanical

- 5-Year product warranty
- Product Approvals CE, UKCA, FCC, RoSH
- Product Dimensions: W: 205mm x D: 136mm x H: 26mm
- Package Dimensions: W: 260mm x D: 160mm x H: 77mm
- Unit Weight | 630g
- Power | IEEE 802.3af (10watts max per device).
- Operating temperature | 32 °F to 104°F / -20 °C to 60°C
- Storage temperature | -4 °F to 140°F / -20°C to 60°C
- BTU: 30 Btu/hr nominal

## Box Contents

- Encoder or Decoder device
- Phoenix connectors for RS-232.
- Wall mounting brackets
- IR TX & IR RX Accessories.