

# NETVIO

SIMPLIFYING COMPLEXITY

## IP-JP4-TX-10 JPEG2000 High Performance 1Gb Encoder



### 4K HDR

#### LATEST 4K MEDIA

4K/60 HDR using Cat5e/6 with 40m & 70m output support.

If bandwidth exceeds HDBaseT 10.2Gbps limits, then seamless light compression is added.

### S= SECURE

#### ENTERPRISE ENCRYPTION

Encoder, decoder communications secured by SSH encryption. Controller to LAN connectivity using WSS.

Internal & external browsers secured by HTTPS & TLS, including custom certificates.

### HQ PREVIEW

#### 1080P FULL HD

Stunning 1080p real-time-preview-streams. HQ previews are embedded in the latest Netvio GO end-user control application. Can be securely applied to other software decoding applications.

### LOW LATENCY

#### FASTER RESPONSE

The JP4 series meets low latency (1-frame) expectations even for the most demanding applications where little perceptible differences between user interaction & real-time screen content is required.

### SCALING

#### AUTO 4K/2K

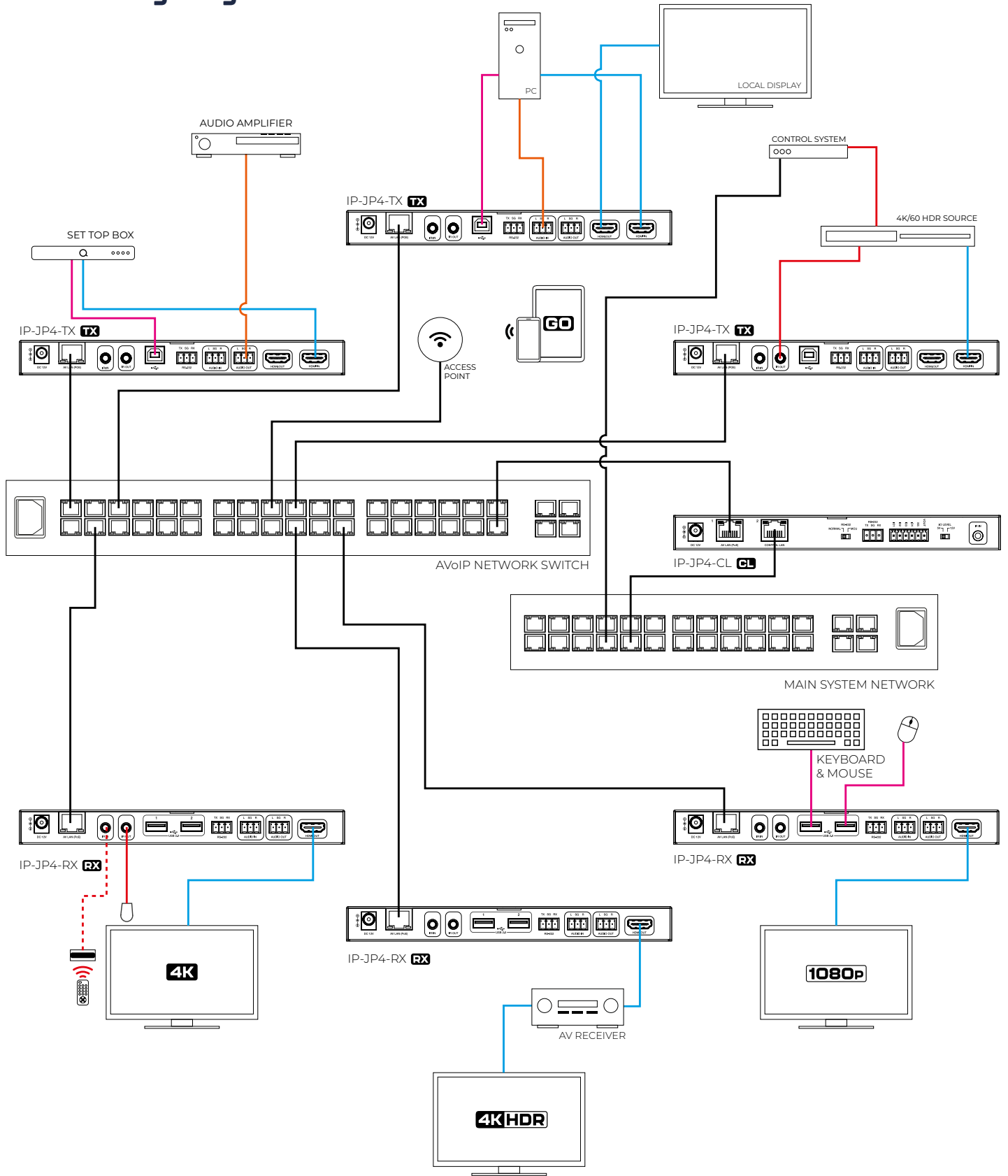
Onboard scaling solves a re-occurring problem on how to seamlessly integrate the latest 4K/60 HDR displays with older legacy 2K equipment.

### USB KVM

#### TOUCH INTERFACES

The USB2.0 extension & KVM function provides a bridge between PCs, peripherals and displays allowing users to control multiple host and client devices over AVoIP solution.

## Basic Wiring Diagram



- IR (OUT)
- IR (IN)
- RS-232
- Audio
- Cat5e/6/6a/7
- HDMI
- USB
- Speaker

**VIDEO****Encoding Data Rate**

HDMI Input: Max 17.82Gb/s

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 / 300Mscs

**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****Audio Formats:**

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

**NETWORK****LAN:**

1x IEEE 802.3u 100Base-TX Ethernet interface via "RJ45" socket.

Local discovery and API console via Netvio 360 & Netvio Go APP,

3rd-party integration via public API

**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

**ENVIRONMENTAL****Storage**

20°C / +60°C | 20% - 90% RH

**Operating**

0°C / +40°C | 20% - 90% RH

**COMMUNICATION & CONTROL****HDMI:**

CEC, DDC

**USB:**

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

**RS-232:**

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.

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:**

PoE/PoE+ IEEE 802.3af compliant (12W draw).

**FREE Software & Control**

Netvio 360 utility - discovery, configure, optimise, design, control

Netvio GO - Full spectrum AV control

**Weights & Dimensions:**

Height: 22mm

Depth: 100mm

Width: 204mm

Weight: 0.5kg

**In the box:**

Mounting brackets

IR Accessories

Phoenix connectors

**Regulations**

Safety Approvals: CE, UKCA, FCC, RoSH

**Warranty**

5-Year standard warranty (*no registration required*)

10-Year for 10% price increment

## NETVIO 360

### DISCOVER, CONFIGURE, OPTIMISE, DESIGN & CONTROL

Netvio 360, a free utility for PC and Mac provides a unified and guided workflow approach to discover, configure, optimise, design and control HDBaseT, 1Gb and 10Gb AVoIP solutions.

Use the design canvas tool to drag 'n' drop system components, draw control paths before launching Netvio GO! with a QR code.



## NETVIO GO

### GET, SET, GO!

Free-on-board! Netvio GO provides a high-quality end-user control experience for HDBaseT, 1Gb & 10Gb AVoIP solutions.

A full spectrum AV control platform using Apple & Android devices, Netvio GO seamlessly manages signal distribution, media sources, displays & audio devices via IR, RS-232, CEC & IP without dedicated control hardware.

Set-up & control established takes minutes using Netvio 360.



### Other AVoIP Products *(Sold separately)*



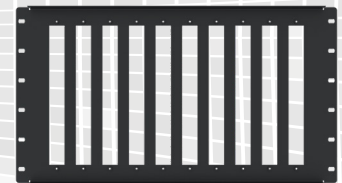
#### IP-JP4-CL-10

Centralised dual network controller for JP4 series AVoIP solution



#### IP-JP4-RX-10

JPEG2000 high performance decoder converting 1Gb IP streams to HDMI for direct connection to display devices



#### IP-RK-10

19" universal 6U, 10 device rack compatible with all Netvio AVoIP solutions