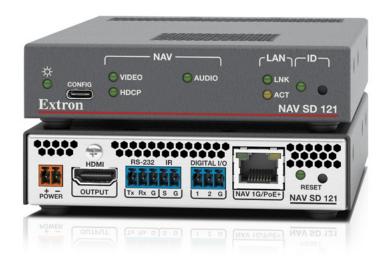
NAV SD 121

1G PRO AV OVER IP COMPACT SCALING DECODER WITH HDMI



The **NAV SD 121** is a powerful, compact scaling decoder designed for Pro AV over IP applications. It delivers visually lossless 4K/60 video with 4:4:4 chroma sampling over isolated or converged IP networks. The NAV SD 121 can be powered with PoE+ and mounted discretely behind a display or near a projector and offers RS-232, Digital I/O, and IR control ports. The decoder also has flexible audio options with embedded HDMI and AES67 audio over IP in or out for flexible integration with Extron or third-party DSP processors.

- Compact and economical scaling decoder
- Advanced Vector[™] 4K scaling technology ensures critical 4K image quality
- ▶ PURE3[®] codec delivers improved network resiliency
- HDMI output supports resolutions up to 4K/60 @ 4:4:4 and HDCP 2.3
- Expanded AES67 in or out
- Configurable Power Priority



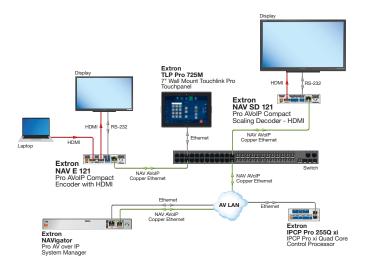
DESCRIPTION

The NAV SD 121 is a compact Pro AV over IP scaling decoder that decodes and scales real-time, high-quality video and audio signals over 1 Gbps IP networks at low bitrates. Utilizing Extron's patented PURE3® codec, it delivers groundbreaking performance with high quality video at resolutions up to 4K/60 with 4:4:4 chroma sampling and ultra-low latency. The NAV SD 121 is fully compatible with NAV® 10 Gbps endpoints, increasing scalability for large deployments. It also supports AES67 audio over IP, facilitating flexible integration with DMP Plus DSPs or other IP-enabled audio components. Purpose-built to support demanding professional AV applications, the highly scalable and powerful NAV platform enables secure deployment of AV signals to thousands of endpoints.

KEY FEATURES

- Compact and economical scaling decoder receives visually lossless 4K/60 4:4:4 video, audio, and control over 1 Gbps IP networks.
- Advanced Vector™ 4K scaling technology ensures critical 4K image quality, best-in-class upscaling and downscaling, with enhanced color accuracy and picture detail.
- ▶ PURE3® codec delivers improved network resiliency tolerating the bursty network traffic found on converged networks. It is the ONLY codec designed for the Pro AV industry that delivers robust, pristine video on converged or isolated networks.

APPLICATION DIAGRAM



SPECIFICATIONS

determine video parameters supported by this data rate.

TRUE 4K SPECIFICATION **Max 4K Capabilities Chroma Sampling** Resolution and Refresh Rate Max Bit Depth per Color 4096 x 2160 at 60 Hz 8 hit 3840 x 2160 at 60 Hz 4:4:4 4096 x 2160 at 30 Hz 3840 x 2160 at 30 Hz 10 bit 4096 x 2160 at 60 Hz 4:2:0 3840 x 2160 at 60 Hz 24, 25, 30, 50, or 60 fps Frame rate² Chroma sampling² 4:4:4, 4:2:2, or 4:2:0 Color bit depth² 8, or 10 bits per color DVI v 1.0, HDMI v1.4 and v2.0, HDCP v1.4 and v2.3 Signal Type Max. video data rate 18 Gbps (6 Gbps per color) NOTE: ²Subject to the maximum data rate limit. Use our calculator at www.extron.com/8Kdatarate to

VIDEO INPU	T STREAM		
Number/signal t	ype	1 PURE3® digital video over IP	
VIDEO PROC	ESSING	<u> </u>	
Latency	200	<1 frame (encode/decode)	
Scaling		Vector™ 4K	
VIDEO OUTP	PUT		
Number/signal t	vpe	1 digital HDMI video	
Resolution range	/ I	Up to 4K (4096x2160 at 60 Hz) and UHD 60 Hz)	(3840x2160 at
Standards		DVI v1.0, HDMI v1.4 and v2.0, HDCP v1.4	1/v2.3
AUDIO OUTF	PUT		
Number/signal t	уре	1 digital stereo, de-embedded from HDM 1 audio over IP (AES67)	
Supported forma	ats	LPCM (2 channel)	
NETWORK II	NTERCONNECTION ((NAV)	
Ethernet standa	rds	1GbE (802.3ab), 10/100/1000 Base-T, havith autodetect.	alf/full duplex
Protocols Streaming Transport All supported		SRTP (AES-128) on video and audio Multicast UDP DHCP, HTTPS, IGMPv2/v3, IPv4, IPv6, PTF TCP, UDP	Pv2, QoS, SSH,
GENERAL			
Power consump Device PoE	tion	15.2 watts Complies with IEEE 802.3at type 2 (PoE+), class 4
Enclosure		1.00" H x 4.3" W x 6.00" D (quarter rack (25 mm H x 109 mm W x 152 mm D) (depth excludes connectors)	
Product warrant	у	3 years parts and labor	
Model NAV SD 121	Version Description 1G Pro AV over IP Comp	oact Scaling Decoder - HDMI	Part number 60-2040-02

For complete specifications, please go to www.extron.com Specifications are subject to change without notice.



