

AUTHENTIC AV VTX-1 / VRX-1

Specifications Sheet



1. Product Overview & Identification

SPECIFICATION	DETAILS
Product Name	Authentic AV VTX-1/VRX-1
Product Type	Video & Audio Over IP (Encoder/Decoder)
Video Codec	JPEG2000 based visually lossless video compression algorithm
Audio Codec	LPCM, AES67

2. Video Performance

SPECIFICATION	DETAILS
Maximum Resolutions (HDR)	4K60 4:4:4 HDR 8 bit
	4K30 4:4:4 HDR 12 bit
	1080p60 4:4:4 HDR 12 bit
	1080p30 4:4:4 HDR 12 bit
HDR Support	HDR10, HDR10+, HLG, Dolby Vision
Bit Rates	50 to 800 Mbps
Latency	Ultra-Low Latency Sub-Frame (visually lossless video)
	~2ms @ 1080p60 & 4K60 4:4:4 ~4ms @ 1080p30 & 430
Copy Protection	HDCP 2.2, 2.3 AES-256 Encryption
Scaler (Decoder)	Supports wide range of resolutions (up to 4K in/1080P out, 1080P in/4K out)

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Signal Types

UNIT	INPUT SIGNAL TYPES	OUTPUT SIGNAL TYPES
ENCODER (VTX-1)	HDMI, USB-C (capable of receiving source input video formats up to 4K60 4:4:4)	Not Applicable
Decoder (VRX-1)	Not Applicable	HDMI (up to 4K60 4:4:4, scaling capable) USB-C (up to 1080p60 4:4:4, scaling capable)

3. Audio Specifications

SPECIFICATION	DETAILS
Input Signal Types	HDMI Audio, Analog Stereo Audio, AES67 Network Audio (up to 4 channels) 1 Analog stereo input (unbalanced or balanced) 1 Digital input de-embedded from HDMI
Output Signal Types	HDMI Digital Audio (NLPCM pass-through), Analog Stereo Audio, Dante™/AES67 Network Audio (up to 4 channels) 1 Digital audio output via HDMI 1 Analog Stereo Audio balanced output
Analog Formats	Stereo 2-channel
Digital Formats	Dolby Digital®, Dolby Digital EX, Dolby Digital Plus, Dolby True HD, Dolby Atmos, DTS®, DTS-ES, DTS96/24, DTS-HD High Res, DTS-HD Master Audio, DTS:X, LPCM up to 8 channels.
A/D Conversion	24-bit 48 kHz
D/A Conversion	24-bit 48 kHz

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4. Communication & Control

PROTOCOL/INTERFACE	FUNCTION	ADDITIONAL NOTES
Streaming Protocols	IP, UDP, TCP, ICMP, IGMP	
Ethernet	Network connectivity for control and IP streaming	
SERIAL/RS-232	Bi-directional device control and monitoring	
HDMI	HDCP 2.2, 2.3, EDID (encoder), CEC (decoder)	

5. Connectors

CONNECTOR	TYPE	FUNCTION/LOCATION
LAN	8-pin RJ-45 (Female)	100BASE-TX / 1000BASE-T Ethernet port / PD port (PoE IEEE 802.3af)
HDMI INPUT	HDMI Type A (Female)	Encoder Input (Digital video/audio)
HDMI Output	HDMI Type A (Female)	Decoder Output (Digital video/audio)
USB-C	USB Type C (Female)	Encoder: Input; Decoder: Output
Analog Audio I/O	8-pin Euroblock (3.81mm pitch)	Encoder Stereo Balanced Analog Audio Input; Decoder Stereo Balanced Analog Audio Output
RS-232	6-pin Euroblock (3.81mm pitch)	RS-232 Communication

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6. Electrical & Environmental

SPECIFICATION	DETAILS
Power Consumption	12 W typical
Cooling	Convection / No fan (No moving parts)
Acoustic Noise	0 dBA
Operating Temperature	32° to 104° F (0° to 40° C)
Operating Humidity	10% to 90% RH (non-condensing)
Heat Dissipation	41 BTU/hr

7. Mechanical & Compliance

SPECIFICATION	DETAILS
Height	1" (25.2mm)
Width	5.5" (140mm)
Depth	5.15" (130.75)
Weight	1.0 lb (0.45 kg)
Certifications	CE, FCC, C-tick, RoHS, WEEE