DSP-62-AEC

6x2 PoE Audio Matrix with DSP and AEC

| HDMI | Ethernet - RJ-45 | HDCP Compliant | 4K/60 UHD (4:4:4)



DSP−62−AEC is a member of the Kramer XSPerience family of DSP products. DSP−62−AEC is an advanced, professional 6 x 2 audio matrix switcher that includes multi−channel DSP, AEC (Acoustic Echo Cancellation), HDMI de−embedding, and class compliant USB audio interface. The comprehensive and user−friendly graphic interface makes configuring every detail of your audio system intuitive and easy

FEATURES

Advanced Audio Matrix Switcher - Professional, studio grade signal conversion technology, Including the latest generation 32–bit advanced Digital Analog Converter architecture to achieve excellent dynamic performance and improved tolerance to clock jitter. Maintains the quality of the original audio signal with selectable sampling rates up to 96 kHz. Flat frequency response, unmatched sonic performance, excellent signal to noise ratio, and extraordinarily low distortion levels

Wide Range of I/O Formats - Includes 2 HDMI inputs, 1 unbalanced & 4 balanced analog audio inputs, 2 balanced analog audio outputs, 1 HDMI output, and 1 bidirectional USB plug & play audio port

Reliable PoE (Power over Ethernet) Powering - Accepts power from a remote PoE provider with optional mains powering from connected power adapter

Multi–Channel Processing - Provides DSP (Digital Sound Processing) that enables simultaneous processing of all input and output signals

Teleconference Optimized - Features AEC (Acoustic Echo Cancellation), that prevents the microphone from picking up the far−end echoed speech, so you only share the audio spoken directly into the microphone

Max. Video Resolution - 4K@60Hz (4:4:4)

Intuitive and Comprehensive Configuration and Control - Via a powerful, user–friendly graphic interface, set volume (gain and attenuation) and DSP per input; execute routing and select line in, mic in, phantom power or line out on each port; configure master level and more. Control signal routing, volume and other basic settings using API commands via RS–232 communication transmitted by a PC, touch screen system or other serial controller

Audio De–embedding - De–embeds the audio signal from the HDMI input for routing to any of the outputs

Programmable - Supports up to 10 global presets plus 10 mixer snapshot presets

Easy, Cost–Effective Maintenance - LED indicators for main power, line in/out, mic in, clipping, and HDMI input selection, enable easy local maintenance and troubleshooting. Local firmware upgrade via the USB type–B port ensures lasting, field–proven deployment

Easy Installation - Compact DemiTOOLS® fan−less enclosure for surface mounting or side–by–side mounting of 2 units in a 1U rack space with the recommended rack adapter

TECHNICAL SPECIFICATIONS

Inputs	2 HDMI: On female HDMI connectors
	4 Balanced Mono Audio: On 3–pin terminal blocks
	1 Unbalanced Stereo Audio On a 3.5mm mini jack
Outputs	1 Balanced Stereo Audio On a 5−pin terminal block connector
	1 HDMI: On a female HDMI connector
Ports	1 USB Audio: On a female mini USB–B connector
	1 RS-232: On a 3–pin terminal block
	1 Ethernet: On an RJ–45 female connector
Line/Mic Level Input	Impedance Unbalanced: 7.6kΩ Impedance Balanced: 3.8kΩ Impedance Microphone: 3.8kΩ
	Nominal level Unbalanced: 0dBV (0.77Vrms) Nominal level Balanced: +6.8dBu (1.54Vrms)
	Maximum level (Balanced): +8dBu (2Vrms)
	Sensitivity Unbalanced: Full power @ 0dBV (0.77Vrms) Sensitivity Balanced: Full power @ +6dBu (1.54Vrms)
	Phantom Power: 48 VDC on/off per input
Line Level Output	Impedance Unbalanced / Balanced:500Ω Frequency Response:20Hz − 20kHz @ +/−1dB S/N Ratio: >85dB, 20Hz − 20kHz, at unity gain (unweighted) Audio THD + Noise: <0.01%, 20 Hz − 20kHz, at unity gain Crosstalk: <−85dB, 20Hz to 20kHz
Video	Max Bandwidth: 18Gbps (6Gbps per graphic channel)
	Max Resolution: 4K@60Hz (4:4:4)
	Compliance: HDMI and HDCP 2.2
User Interface	Indicators: Power and audio port status LEDs
	Controls: Input selection buttons
Control RS-232	Baud Rate: 115200
Supported PC Web Browsers	Windows: Chrome
Power	Source: PoE or 12V DC 5A adapter
	Consumption 630mA
Environmental Conditions	Operating Temperature: 0° to +40°C (32° to 104°F)
	Storage Temperature: –40° to +70°C (–40° to 158°F)
	Humidity: 10% to 90%, RHL non–condensing
Regulatory Compliance (Standards	Safety: CE, FCC

Compliance)

Enclosure	Size: DemiTOOLS®
	Type: Aluminum
	Cooling: Convection
Accessories	Included: One 2 meter USB 2.0 type−A male to type−B male cable, power adapter, bracket set, rubber feet
Product Dimensions	19.05cm x 5.96cm x 2.74cm (7.50" x 2.35" x 1.08") W, D, H
Product Weight	0.2kg (0.3lbs) approx
Shipping Dimensions	34.50cm x 16.50cm x 5.20cm (13.58" x 6.50" x 2.05") W, D, H
Shipping Weight	0.6kg (1.3lbs) approx



