Audio DSP



- Audio Mixing Capabilities
- PEQ Adjustment
- Phantom Power Switching
- Indicator Lights for Network, Link etc.

Product image(s) are for illustrative purposes only and may differ from the actual product



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Audio DSP : UE-DSP-4	
Processor	456MHz FLOPS dual-core 32-bit floating-point DSP
Audio Conversion & Sampling	24-bit A/D and D/A converters, 48kHz sampling rate
Analog Input / Output Interfaces	4 Analog Inputs / 4 Analog Outputs (Balanced Phoenix)
UHF Wireless Microphone	2 Channels Built-in (Display shows RF & channel info)
Frequency Response	20Hz ~ 20kHz (±0.2dB)
Total Harmonic Distortion (THD+N)	≤0.003% @ 1kHz, +4dBu
Built-in Amplifier Output	Digital Amplifier: 2 × 150W
Signal-to-Noise Ratio (SNR)	108dB
Dynamic Range	Input: 108dB | A/D: 114dB | D/A: 120dB
System Latency & CMRR	Latency: < 9ms | CMRR: > 60dB @ 50Hz
Input Processing Modules	51dB Preamplifier, Phantom Power (+48V), Phase Invert, Signal Generator (Sine, Pink/White Noise), Expander, Equalizer (5/8/12-band PEQ, 10/15/31-band GEQ), Compressor, AGC, Auto-Mixer (Gain Sharing / Gating), Ducker, AFC, AEC, ANS.
Output Processing Modules	Delay, Crossover (Butterworth, Bessel, Linkwitz-Riley), Equalizer (5/8/12-band PEQ, 10/15/31-band GEQ), Limiter, Invert.
Channel Isolation & Noise Floor	Isolation: >100dB @ 1kHz | Noise Floor: -90dBu
Web & Camera Tracking Control	Cross-platform Web Controller; Camera tracking compatible with VISCA, PELCO-D, PELCO-P protocols.
USB & Storage Interface	Extendable USB interface supporting U disk recording/playback or USB Audio Class. Storage of user manual & software on device.
Power Supply & Maximum Power	AC 100V ~ 240V, 50Hz/60Hz | Max Power Consumption: 330W
Chassis Form Factor & Dimensions	1U Rackmount | Dimensions: 482.4mm × 260.5mm × 44mm (L×W×H)
Input & Output Impedance	Input Balanced: 20kΩ | Output Balanced: 100Ω
Max Input / Output Level	+18dBu (A-Weighting) / 18dBu
Acoustic Feedback Suppressor (AFC)	Manual & Dynamic Notch Feedback Cancellation (up to 16 feedback points, inhibition depth up to 24dB).
Network & Serial Control	1x RJ45 Ethernet Port, 1x Bi-directional RS232 Port
Net Weight / Package Weight	3.5 kg / 4.0 kg
Operating Temperature & Humidity	0°C ~ 40°C, 10% ~ 90% RH (Non-condensing)

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