

Electro-Voice IPX10:8 DSP Power Amplifier 8x1250W with OMNEO/Dante/FIR Drive/32A powerCON Power Connector

Amplifier Model	IPX10:8			
OUTPUT POWER				
Low-Z mode: Load Impedance	2 Ω	2.7 Ω	4 Ω	8 Ω
Maximum Output Power ¹				
Normal Mode, all channels driven	1300 W	1500 W	1250 W	1250 W
Bridged	-	-	2600 W	2500 W
Parallel	2500 W	3000 W	2500 W	1250 W
Parallel-Bridged	5200 W	6000 W	5000 W	5000 W
Direct Drive Mode: Nominal Voltage	70 V	100 V	140 V ²	200 V ²
Maximum Output Power ¹	1250 W	1250 W	2500 W	2500 W
Number of amplifier channels	8			
Maximum Output Voltage, Normal mode, per channel	150 V _{peak}			
Maximum Output Current, Normal mode, per channel	41 A _{peak}			
AMPLIFIER				
Voltage Gain				
Low-Z mode, ref. 1 kHz	32.0 dB, adjustable 20.0 — 44.0 dB			
Direct Drive mode	33.2 / 36.2 / 39.2 / 42.2 dB for 70 / 100 / 140 / 200 V			
Input Sensitivity				
Low-Z mode, Max. Output Voltage	10.7 dBu (2.66 V), adjustable -1.3 — 22.7 dBu			
Direct Drive mode	6 dBu (1.55 V), fixed			
THD 3 dB below max, AES17, 1 kHz	< 0.05 %			
DIM 100 3.15 kHz, 15 kHz	< 0.15 %			
IMD-SMPTE, 60 Hz, 7 kHz	< 0.05 %			
Crosstalk ref. 1 kHz, 12 dB below Max, 8 Ω	< -80 dB			
Frequency Response, ref. 1 kHz, analog in to speaker out	20 Hz to 20 kHz (\pm 0.5 dB)			
Damping Factor, 20 Hz to 200 Hz, 8 \pm	> 400			
Output Stage Topology	Class D, fixed frequency			
Signal to Noise Ratio Amplifier				
A-weighted, analog input	112 dB			
A-weighted, digital input	115 dB			
Output Noise				
A-weighted, analog input	< -70 dBu			
A-weighted, digital input	< -73 dBu			
CONNECTIVITY				
Analog Audio Input/Thru				
Type	4 x 6-pin Euroblock, male			
Maximum Input Level	+21 dBu			

Input Impedance, active balanced	20 ■
Reference level equal to digital input	+21 dBu for 0 dBFS
Speaker Output	2 x 8-pin Euroblock, 6mm, female
GENERAL	
Power Consumption	
Rated power consumption (see BTU table)	1300 W
■ Maximum Output Power at 4 Ω	1780 W
Idle Mode (no input signal)	105 W
Standby Mode	< 18 W
Dimensions (W x H x D), mm	483 x 88.1 x 514.2
Weight	16.8 kg (37.1 lb)
Shipping Weight	19.1 kg (42.1 lb)
DIGITAL SIGNAL PROCESSING	
Sampling Rate	48 kHz / 96 kHz, OMNEO/Dante synchronized
Signal delay/latency Analog In to Speaker Out, 48 kHz/96 kHz	0.70 ms / 0.53 ms
Dante Network Latency	typ. 1.00 ms
Signal Processing	
User EQ	12 filters per channel, selectable as PEQ, LoShelv, Hi-Shelv, Lo-ShelvQ, Hi-ShelvQ, HiPass, Lo-Pass & Notch; 2 filters of them with additional asymmetric filter type
User Delay	0 to 2000 ms per channel (units: μs, ms, s, cm, m, inches, feet)
Array EQ	5 filters per channel, selectable as PEQ, LoShelv, Hi-Shelv, Hi-Pass, LoShelvQ, HiShelvQ, Lo-Pass & All-Pass
Array Delay	0 to 500 ms per channel (units: μs, ms, s, cm, m, inches, feet)
Speaker EQ	10 filters per channel, selectable as PEQ, LoShelv, Hi-Shelv, Hi-Pass, Lo-Pass & All-Pass
Speaker X-Over	Hi-Pass, & Lo-Pass per dB channel, 6/12/18/24/30/36/42/48 dB Bessel/ Butterworth, 12/24/48 Linkwitz-Riley; Alignment Delay, 0 to 20 ms per channel
Speaker FIR	Up to 1025 taps, Linear Phase Filter, Linear Phase Brickwall X-Over
Speaker Limiters	Peak Anticipation Limiter & RMS/TEMP Limiter per channel
Other Functions	Source Selection & Mix, Level, Mute, Polarity, Sine & Noise Generator, Pilot Tone Generator & Detection, Level Meters, Impedance Measurement & Load Monitoring
Memory	
DSP Presets	1 factory preset + 20 user presets
Speaker-Pool Presets	30 speaker settings
Source Supervision & fallback	Pilot Tone supervision at Analog & OMNEO/Dante inputs, switchover to alternative Source Selection
CONNECTIVITY	
Network	
Type	2 x Neutrik EtherCON/RJ45, redundant PRIMARY/SECONDARY
General	1000base-T/100base-TX, integrated switch
Network Audio Inputs	8 channels, 48/96 kHz, OMNEO/Dante format
Network Audio Outputs (Monitor)	2 channels, 48/96 kHz, OMNEO/Dante format
Mains Input	1 x Neutrik powerCON-HC
GPIO Control Port	
Type	1 x 8-pin Euroblock, male
Ports & Operating Modes	3 x GPIO, switchable Analog In/Digital In/Digital Out
Analog Input Range	0 V to +13 V, 40 ■ input resistance
Digital Input Limits	ON: < 1.5 V / OFF: > 2.0 V, internal Pull Up (10 ■)

Digital Outputs	ON: Output switched to GND, max. 200 mA OFF: Open Collector (40 ■ to GND)
Reference Voltage Output	+10 V, max. 200 mA, supervised, short circuit protected
READY/FAULT contact	Galvanic isolated relay, max. 30 VDC/500 mADC
GENERAL	
User Interface	
Display	Black/white OLED 256 x 64
Front panel indicators	4 x status LEDs (POWER, STANDBY, FAULT, OMNEO)
Front panel operating elements	3 buttons (UP, ENTER, DOWN)
Rear panel indicators	1 x status LED (STATUS)
Rear panel operating elements	Mains Switch
Power Requirements	100 V to 240 V, 50 Hz to 60 Hz AC
Power Supply Topology	Switching Mode Power Supply with digital controlled Power Factor Correction
Protections	Audio Limiters, High Temperature, DC, HF, Short Circuit, Back-EMF, Peak Current Limiters, Inrush Current Limiters, Turn-on Delay, Mains Circuit Breaker Protection, Mains Over-/Under voltage Protection
Cooling	Front-to-rear, temperature controlled fans, supervised
Ambient Temperature Limits	+5 °C to +40 °C (+40 °F to +105 °F)
IEC Protection Class	Class I (grounded)
Electromagnetical Environment	E1, E2, E3
Color	Black
Amplifier at rated conditions, Low-Z Normal operation mode, all channels driven, 4 Ω loads, Analog input, 32 dB Gain, 48 kHz sample rate, unless otherwise specified	
¹ Test signal for max. output power according IHFA-202 (Dynamic-Headroom, burst 1 kHz / 20 ms on / 480 ms off / low level -20 dB).	
² Available in Bridged operation mode only.	