ASCENDO
ELEVATE YOUR SOUND

THE DSP SERIES

The DSP Series include DSP and are intended for use with ASCENDO passive subwoofer models.
This powerful amplifier range from ASCENDO features state-of-the-art amplification technology, utilizing a very efficient and green design, without diminishing the quality of sound and dynamics that ASCENDO amplifiers are known for. This new generation of power supplies use Power Factor Correction (PFC) to improve efficiency, with the design also featuring high-efficiency audio modules in class D, and a very high capacity for instantaneous power.

- Ultra-compact and lightweight 2-U high
- Temperature controlled, front to back cooling fan, upside-down design to avoid fan dust accumulation
- Temperature and signal dependent, intelligent cooling system for minimal noise
- Highly oversized thermal dissipation design for maximum reliability
- Detented sealed potentiometers for easy recall of volume settings
- Protections include Soft-start, Turn-on Turn-off transients, Over-heating, DC, RF, Short-circuit, Open or mismatched loads. ICL clip-limiters
- 70V/100V Line Direct/Drive Output
- Neutrik® XLR and Speakon® connectors, see models with DANTE input option
- No 12V trigger included. External 12V (TRI-AS) available.

DSP Series	DSP4-10K2 MKII	DSP4-20K2
DSP Channels	4	4
Channels	4	4
Total Output Power	10.000W	20.000W
Output Power 230V @2Ω	4 x 2.500W	4 x 5000W
Output Power 230V @4Ω	4 x 2.500W	4 x 5.000 W
Output Power 230V @8Ω	4 x 1.250W	4 x 2.500W
Bridged: Output Power 230V @4Ω	2 x 5.000W	2 x 10.000W
Bridged: Output Power 230V @4Ω	2 x 5.000W	2 x 10.000W
Max output voltage	150 Vpeak	235 Vpeak
Max output current	50 Apeak	71 Apeak
Required AC Mains Operating Voltage (50Hz-60Hz) 1/8 Rated Power (@230V, 4Ω)	90V-265V AC 7,3 A	90V-265V AC 14 A
W x H X D (mm)	483 x 89 x 335	483 x 89 x 335
W x H X D (inch)	19 x 3,5 x 14	19 x 3,5 x 14
Weight (kg)	7	9
Weight (lbs)	15,4	19,8
Converter	High Performance 96kHz/24 bits AD/DA converters, 64 bit double-precision 96kHz DSP process	
Process latency time	0,85 ms minimum	
Input IIR EQ section (4x)	Gain, Mute, Phase inversion, Delay (up to 333ms, 114m), 16 EQ filters (Parametric, Shelving, LP, HP, BP, SB, AP)	
Output IIR EQ section (4x)	Crossover Filters: (up to 48dB/oct, Butterw./LR/Bessel), 12 filters per channel (Param., Shel, LP, HP, BP, SB, AP)	
Output FIR EQ section (4x)	Crossover Filters: (up to 48dB/oct, Butterw./LR/Bessel), 20 filters per channel (Param., Shel, LP, HP, BP, SB, AP) or Custrom. Up to 1000 taps	
Output Delay	Output Delay: 0 to 31 meters (90ms) per channel	
Output Limiter	RMS and Peak limiter per channel	
Network Switch	2ports Ethernet switch for daisy chain connection	
Controlling	Software via Ethernet or USB	
Speaker Output	Neutrik	
Input	XLR	
Input Optional	Dante AES67	
Voltage Gain	26 dB to 44 dB (1 dB Step)	
Signal-to-Noise Ratio	111 dBA	115 dBA
Total Harmonic Distortion	<0,05%	
Crosstalk 20Hz – 1kHz, typical	>70dB	
Protections	Soft-start, Turn-on Turn-off transients, Muting at turn-on, Over-heating, DC, RF, Short-circuit, Open or mismatched loads, Overloaded power supply, ICL™, PMS™	
Technical modifications subject to change without further notice		

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