

Amplifiers

SmartAmp 30

4 x 250w amplifier with integral DSP



Optimal Audio



FEATURES

- Desktop or rack mounted
- Signal processing presets for Optimal Audio loudspeakers
- 250 watts per channel into 4Ω-16Ω and 70v-100v line loudspeaker loads

SmartAmp 30 is an amplifier with built in Digital Signal Processing (DSP) specifically tailored to optimise the performance of the Optimal Audio loudspeaker range.

This four-channel 1U, 19", power amplifier can drive both conventional low impedance and 70V - 100V loudspeaker loads. Internal DSP presets of Optimal Audio loudspeakers are selected by switches to the rear of the amplifier, which enable the appropriate EQ and overload protection settings.

The SmartAmp 30 can be configured to drive either low or high impedance loads at a maximum of 250W per channel, giving the options of a localised or evenly distributed speaker system.

The SmartAmp 30 is ideally suited to power multiple Up 6 speakers and models from the Cuboid series.

APPLICATIONS



Cafes



Bars/
Restaurants



Retail



Wedding
Venues



Hotels



Education
Facilities



Houses of
Worship



Corporate
Offices



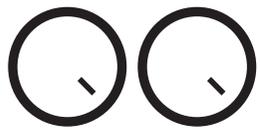
Museums



Fitness Studios



Residential



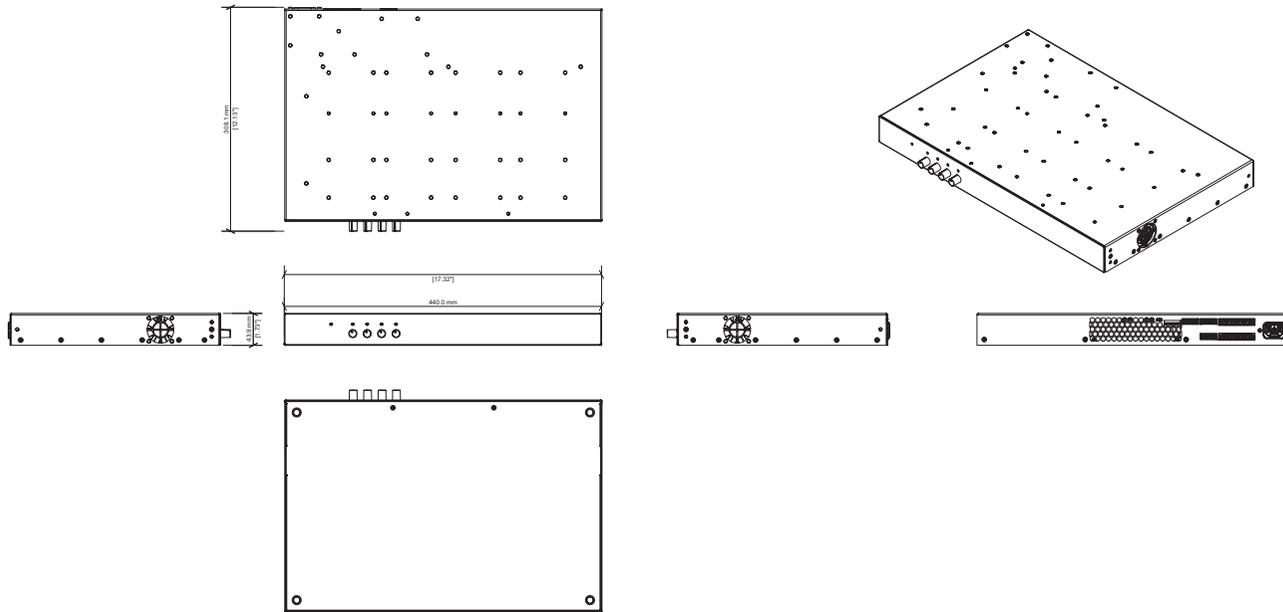
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SPECIFICATIONS

TYPE	CLASS D power amplifier with DSP
POWER OUTPUT (4Ω-16Ω)	4 x 250W
70V - 100V OUTPUT	4 x 250W
DIGITAL SIGNAL PROCESSING	EQ & limiter presets for Optimal Audio loudspeakers
COOLING	Forced air cooling with fan
ANALOGUE IN/LINK	4 balanced line inputs on Euroblock connectors
ANALOGUE INPUT IMPEDANCE	10kΩ unbalanced, 20kΩ balanced
MAXIMUM ANALOGUE INPUT LEVEL	+24dBu
AMPLIFIER OUTPUTS	Euroblock
SIGNAL TO NOISE RATIO	> 100 dB (A-weighted, 20 Hz - 20 kHz, 8 Ω load)
FREQUENCY RESPONSE	20 Hz - 20 kHz, +0/-0.25 dB (8 Ω load, 3 dB below rated power)
TOTAL HARMONIC DISTORTION	< 0.05 % (20 Hz - 20 kHz, 8 Ω load, 3 dB below rated power)
SLEW RATE	8.796V/μS at 70 V peak, low impedance, 17.77V/μS at 100 V peak, high impedance
DAMPING FACTOR	370 with 8Ω load
CONTROL AND MONITORING	GPIO
NETWORK PROTOCOL	
DSP SAMPLE RATE	48kHz
MAINS POWER INPUT	Universal Mains, 100-240V, 50-60Hz
MAINS CONNECTOR	2 x IEC
POWER CONSUMPTION	300W
HEAT GENERATED	1080 kJ per hour
DIMENSIONS	(W) 440mm x (H) 44mm x (D) 308mm (W) 17.32" x (H) 1.73" x (D) 12.13"
WEIGHT	3.6kg (7.9lbs)
ACCESSORIES (included)	2 x Rack ears
ACCESSORIES (available separately)	Rear rack support kit



Paint Finish



Weight

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