



MAGNESIUM - TUNGSTEN - PALLADIUM - TITANIUM

All Elementi speakers are powered by fully digital amplifiers and benefit from floating 32 point DSP processing, digital crossovers, FIR filters with correction in the frequency and time domains, look forward speaker protection, high flow PASCAL amplifiers and high quality D/A converters. PASCAL amplifiers have proven to be incredibly reliable and offer a higher sonic performance.

500W, 1000W & 1600W models feature a passive design which ensures they are silent in the cinema. 2200W active models feature ultra-silent fans that suit front wall placement to run Elementi Audios most powerful speakers. Most cinemas require between 6000-23,000W of amplifier power to ensure 3-6dB of dynamic headroom, yet these highly efficient amplifiers can be run off a single power circuit.

Traditionally home cinema speakers are wired back to amplifiers located in a cupboard or rack. This creates a significant barrier to high quality sound, as the electrical properties of the cables significantly change the longer the cable is run around the cinema and through walls. Ideally speakers should be located within 3m of the amplifier. Rather than conform to the normal, Elementi Audio was designed to provide the ultimate in flexible cinema engineering, while also being electrically uncompromised.

Elementi Amplifiers are mounted vertically against the cinema walls and hidden behind fabric or in joinery. Audio signals are run either over balanced audio cables the same as for concert grade professional equipment or via Dante™ (AOIP) digital audio for optimal performance. This ensures that there are no electrical loses in the system.

An added benefit of this type of system design is that heat and heat related problems are removed from the rack/cupboard, where ventilation is often a challenge. Most cinema equipment can then be housed in a space of no more than 1200mm high.

There are many reasons why Elementi Audio is quickly becoming is the benchmark of Home Cinema, but it is our fundamental dedication to uncompromised design that shines through.



MAGNESIUM / TUNGSTEN

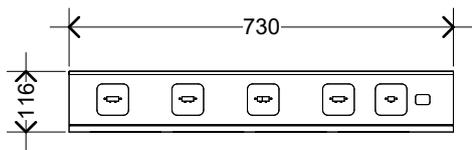


PALLADIUM

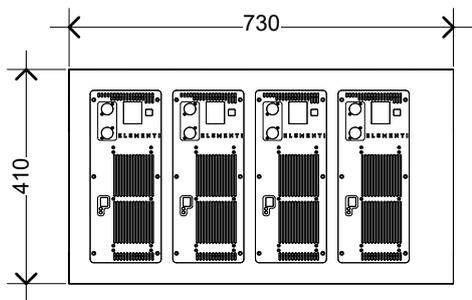


TITANIUM

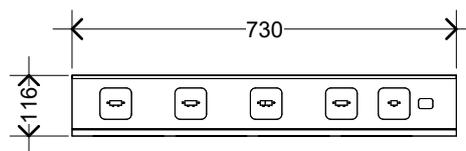
SPECIFICATIONS



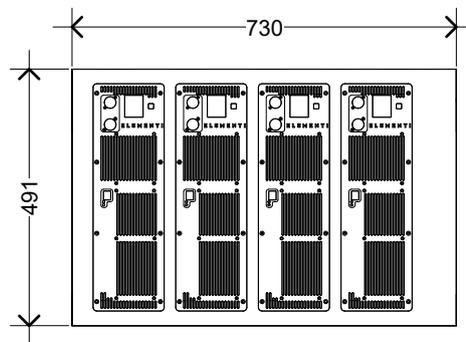
TOP



FRONT



TOP



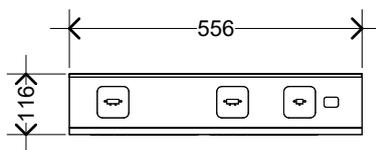
FRONT

MAGNESIUM & TUNGSTEN ENCLOSURE

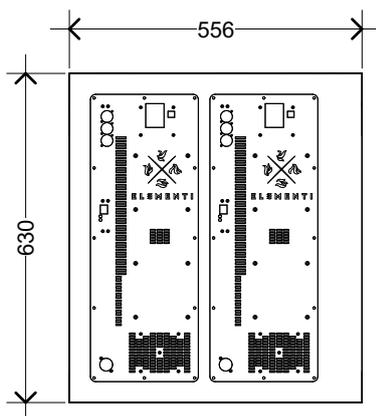
AMPLIFIERS:	4 - Passive Cooling
TOTAL POWER :	500W or 1000W
AMPLIFIER:	Up to 2-way active

PALLADIUM ENCLOSURE

AMPLIFIERS:	4 - Passive Cooling
TOTAL POWER :	1600W
AMPLIFIER:	Up to 3-way active



TOP



FRONT

TITANIUM ENCLOSURE

AMPLIFIERS:	2 - Active Cooling
TOTAL POWER :	2200W
AMPLIFIER:	Up to 3-way active

ELECTRICAL SPECIFICATIONS				
	500W	1000W	1600W	2200W
Number of Amplifier Channels	2	2	2	3
Single Channel Output Power (1% THD+N, 1kHz)	Ch 1: 500W 230V at 4Ω Ch 2: 200W at 8Ω	490W at 4Ω	810W at 4Ω	Ch.1: 2000 W at 4Ω Ch. 2,3: 800 W at 4Ω
Peak Output Current	Ch 1: 30A Ch 2: 11A	30A	40A	Ch. 1: 30 A Ch. 2,3: 21 A
Peak Output Voltage (SE)	± 70 V (equals RMS value of 36 dBu)	±70 V (equals RMS value of 36 dBu)	±84.5 V (equals RMS value of 37,7 dBu)	Ch. 1: RL = 4 Ω : 160 V Ch. 2,3: 80 V
THD+N (1kHz, 1W, 8 ohms)	0.003%	0.003 %	0.0028 %	0.003 %
Dynamic Range	A-weighted: 120 dB, unweighted: 118 dB	A-weighted: 120 dB, unweighted: 118 dB	A-weighted: 120 dB, unweighted: 118 dB	A-weighted: 120 dB, unweighted: 118 dB
Output Idle Noise	All channels: 53 μVRMS, -85.5 dBu A-weighted	60 μVRMS, -84.9 dBu A-weighted	73 μVRMS, -83.1 dBu A-weighted	Ch. 1: 140 μVRMS, -77 dBu A-weighted Ch. 2,3: 75 μVRMS, -83 dBu A-weighted
Output Impedance (1 kHz, SE)			6.5 mΩ	Ch. 1: 11 mΩ Ch. 2,3: 6 mΩ
Maximum Input Level	+22.9 dBu	+22.9 dBu	+22.9 dBu	+22.9 dBu
Analog Input SNR	128 dB (A)	128 dB (A)	128 dB(A)	128 dB(A)
Output SNR	112 dB (A)	112 dB (A)	112 dB (A)	112 dB(A)
Analog in 1	balanced XLR (input impedance 20 kΩ)	balanced XLR (input impedance 20 kΩ)	balanced XLR (input impedance 20 kΩ)	balanced XLR (input impedance 20 kΩ)
Digital AES in	XLR	XLR	XLR	XLR
Dante	RJ45	RJ45	RJ45	RJ45
Mains Input Voltage	85 VAC - 265 VAC, 45-65 Hz	85 VAC - 265 VAC, 45-65 Hz	85 VAC - 265 VAC, 45-65 Hz	85 VAC - 265 VAC, 45-65 Hz
Idle Power Consumption	17W	11.2W		