



# SP221

## Powerful sub system

The SP221 is an elegant self-powered sub low system that gets the maximum out of the minimum. The SP221 proves that a super sub cabinet doesn't have to be heavy. A massive 13 layer plywood, optimally braced cabinet design loads two impressive neodymium magnet loudspeaker assemblies. Including the 2x2500 Watt ultra-light CCD amps the SP221 is an impressive featherweight of just above 100kg.

Dimensions are optimised to match international truckload size. Ergonomic, 12 point grip point layout, a combination of 8 castor positions, polyurethane coating, additional corner protection and multiple slide bars facilitate easy transport.

The SP221 will endow any kind of F.O.H. or distributed sound system with a rock solid foundation in the lowest audible octaves. The SALC (Single Audio-logic Level Control) speaker management is a proprietary RMS based gain riding circuit which maintains the tonal balance of the sound as perceived by the human ear. Especially at high levels. Additionally it protects the drivers from over excursion or overheating.

To match the desired cabinet dimensions with maximum efficiency in the lowest octave, state-of-the-art computer aided modelling techniques and acoustic calculation programs are used to precisely indicate the manifold reinforcing ribs and port tuning.

Acoustical specifications	
Drivers	2 x 21" Long stroke, high power, low weight neodymium design
Freq. response	30-60Hz/FR switchable: Sub Mode/FR (ext. LP filter)
Max. peak SPL @1m <sup>1</sup>	148dB
Coverage angle	Omni-directional

Electrical specifications	
Amplifier(s)	CCD™ technology
Output	2 x 2500W* sine (SALC limited)
Low pass 4th order	60Hz / FR (switchable) <sup>2</sup>
Filter subsonic	30Hz, 2nd order
Input impedance	20 kOhms balanced, 10 kOhms unbalanced
Output impedance	Hard-wired to input
Main voltage	230V (other on request)
Mains frequency	50 / 60 Hz
Idle	<50VA
Full load	< 6000 VA. DALC limited Ref. to continuous pink noise signal (12 dB c.f. within the specified range)
Protection	S.A.L.C. (Single Audio Logic Control)

<sup>1</sup> Peak level at 1M under half space conditions using pink noise with crest factor 4 (12dB)

<sup>2</sup> Fixed filter on request

\* Specified at 4 Ω

Additional descriptive data	
Cabinet construction	Cross grain laminated multiplex
Finish	Nano-armor™ coating
Weight	112Kg (wheels not included)
Size WxHxD (mm)	600 x 1200 x 860 (990)
Rigging points	None
Audio connectors	IEC XLR-3 in/out
Main connectors	Powercon in, Powercon out
Max. operating temp.	-10 to 40 C ambient

