CONCERT SERIES

212 PROCESSOR CONTROLLED MID/HIGH PACK

Applications:
- High SPL Concert Sound
- Auditorium Installations
- Houses of Worship
- Dance Music

http://www.arx.com.au

The ARX Concert series has been engineered to function as a unique, fully compatible 'building block' system with the flexibility to easily assemble custom configurations.

The trapezoidal 212 is a powerful, compact Mid/High pack. Easy to fly, its angled sides minimise internal standing waves and allow curved point source arrays to be easily assembled.

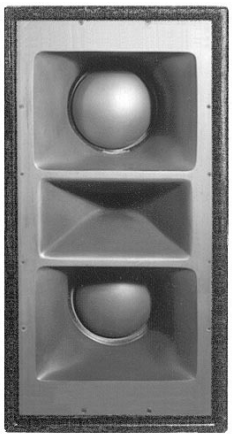
The acoustically correct alignment of the Mid/High components in the 212 ensure smooth, coherent horizontal and vertical dispersion with negligible lobing error through the crossover region.

Its one piece moulded internal construction produces a unit that will stand up to a heavy touring schedule.

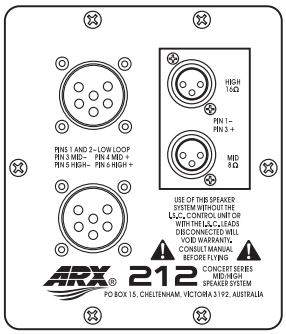
It is designed to be used as a system with the LSP-2 speaker processor. This is a dual channel unit providing crossover functions, phase correction, and controls for Mid, High and VHF, recessed beneath an acrylic security cover.

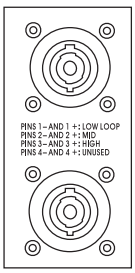
The LSP-2 also features ARX's Interactive System Control (I.S.C.™) for speaker protection at absolute sound pressure levels. Unlike simple in-line limiters or compressors, ISC offers true system protection without the usual loss of dynamic range, by constantly monitoring the amplifier output and comparing it with an internal model of the SOA (safe operating area) of the 212's drivers. It then holds the output power at a level which is safe for the speaker to reproduce.

The 212 is an ideal Mid/High pack for Production companies, live sound reinforcement, and all kinds of permanent installations.

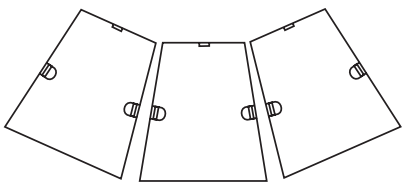


Left: The 212's rigid one piece moulded internal construction
Below left: The 212's rear panel
Below right: Optional Neutrik Speakon connectors





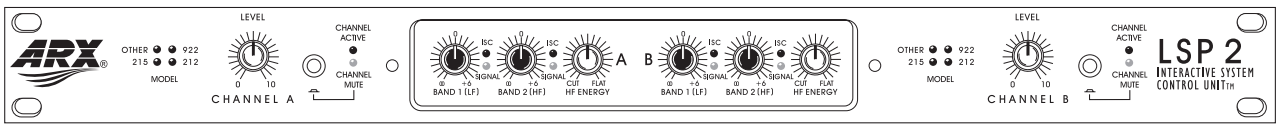
The 212's angled sides (15° taper from front) enables curved arrays to be easily assembled.
Its unique symmetrical component layout on a one piece fibreglass moulding allows maximum speed and flexibility in rigging.
The 212 shares compatible dimensions with other models in the Concert Series, so it can easily be incorporated into mixed arrays



Features

- ☑ **Rugged premium grade void free plywood outer shell**
- ☑ **One piece moulded fibreglass composite flare**
- ☑ **All drivers acoustically aligned for smooth, coherent dispersion**
- ☑ **15° trapezoidal cabinet design for point source arrays**
- ☑ **Flying points and angling point fitted as standard**
- ☑ **Building block compatibility for assembling custom arrays**
- ☑ **Processor controlled with the LSP-2 for dependable performance**
- ☑ **Available with EP6 or Speakon Multipin connectors**
- ☑ **Flawless sound in the toughest audio environment**

LSP-2 Speaker Processor



212
Specifications

Each 212 cabinet comprises 2 x 12" (300 mm) Mid drivers with integral PowerDome™ loaded onto quasi-exponential midrange flares; and 1 x 2" (50 mm) throat aluminium diaphragm compression driver loaded onto a modified flat front radial horn; all enclosed in a premium grade, multi laminate plywood enclosure. All three flares are moulded in a one piece fibreglass unit for greater strength; the Mid and High frequency drivers are in acoustic alignment.

Frequency Response
200Hz-20KHz ±5 dB

Impedance
Mid 8 ohms
High 16 ohms

Recommended amplifier power
Mid 350 W/8 ohm min
High 300 W/8 ohm min

Dispersion -6dB points
60° x 40°

Efficiency/Axial Sensitivity
108 dB @ 1 Watt, 1 metre averaged response over cabinet range

Maximum SPL @ 1 metre
134 dB + Peak
128 dB Long term

Connectors
2 x EP6 Male
2 x Speakon
Plus 2 x XLR

Maximum Dimensions
40"H 20"W 22"D
1000 x 515 x 580 mm

Weight
70 Kgs (150 lbs)

Compatibility
ARX 922 Low cabinet
ARX 218 Sub cabinet
ARX 925 Full range system

ARX®

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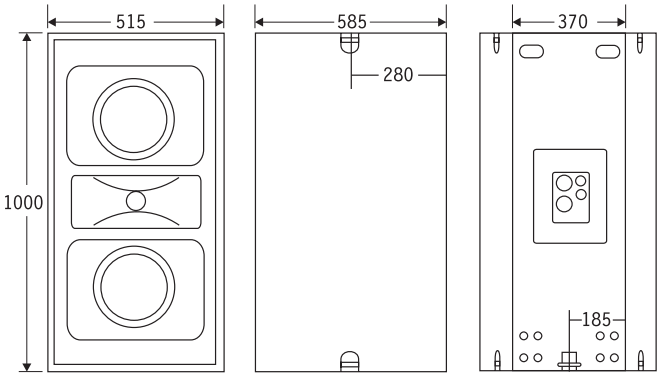
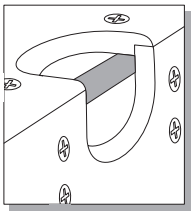
Our policy is one of continuous improvement, and therefore designs may change without notice. However, unless otherwise stated, specifications will always equal or exceed those previously given.

212 ENCLOSURE LAYOUT



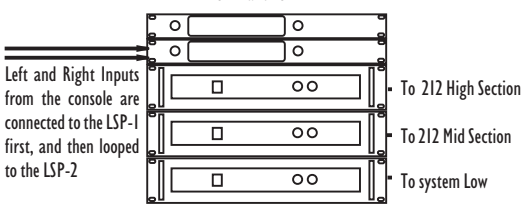
Each 212 cabinet is equipped ready to work, with 4 x ARX 'EziFly' flying points, sealed handle ports, plus a back panel angling (strapping) point at the bottom.

Multi Pin connectors are fitted as standard, plus connectors for access to individual components. All dimensions in mm.

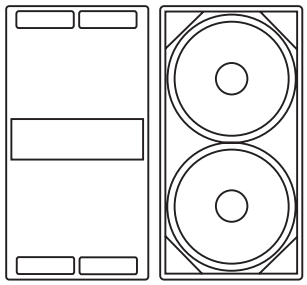


The ARX 'Ezi Fly' flying point is fitted as standard to all 212 cabinets. Fitted from the inside, it serves both as an attachment point for a snaplock and as a tie plate to tie the sides and top and bottom of the enclosure together. It is attached to the enclosure by 6 x high tensile ¼" bolts.
Independent laboratory test report available upon request.

212 SYSTEM LAYOUT



Recommended Amplifiers:
Low: ARX SX3000; 212 Mid: ARX SX1500; 212 High: ARX SX1500. However, for standardization of racks, SX3000 models would be the most flexible for mix and match applications.



The 212 is designed to be run on a one -to-one basis with a bass cabinet of similar power and efficiency. Ideally we'd like you to buy the ARX 925 or 218 since they are designed to be a perfect match!

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The loudspeaker system shall be a two way active type comprising two 12" (300 mm) midrange drivers with integral phase plugs mounted onto two quasi-exponential fibreglass flares, and one 2" throat high frequency driver mounted onto a fibreglass modified radial horn.
All three flares shall be moulded in a one piece fibreglass unit for greater strength; the Mid and High frequency drivers shall be in acoustic alignment. The enclosure shall be fitted with four certified rigging points and one angling point.
Performance of the loudspeaker system shall be achieved utilizing a dedicated speaker system processor.
This processor shall be a dual channel unit in a 1 rack unit package, supplying crossover functions, phase alignment and speaker protection from excessive amplifier power. Each channel shall have an overall level control, and individual level controls for Mid, High and Very High frequencies, and indicator LEDs shall supply visual confirmation of the system's status at all times.
Rated impedance of the loudspeaker system shall be 8 ohms mid frequency section and 16 ohms high frequency section.
Sensitivity measured on axis @ 1 metre shall be 108 dB (averaged response). Frequency response measured @ 1 metre on axis shall be 200Hz - 20 kHz ±5 dB.
Maximum SPL @ 1 metre on axis shall be 134 dB
The enclosure shall be constructed from premium grade multi laminate plywood in a trapezoidal design. The dimensions shall be 40"H x 20"W x 22"D (1000 x 515 x 585mm) and it shall weigh 150 lbs (70 kgs).
The loudspeaker system shall be the ARX 212. The speaker system processor shall be the LSP-2.

Specifications available on disk

Your ARX dealer is:

ARX Systems Pty Ltd, Australia; Phone: +61-3 9555 7859 Fax: +61-3 9555 6747