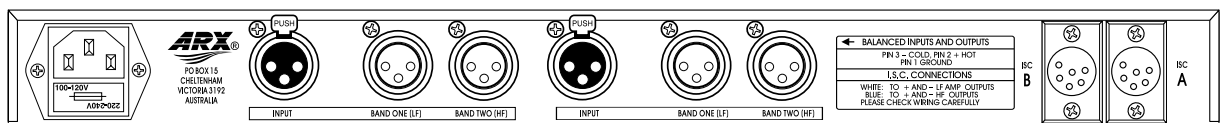
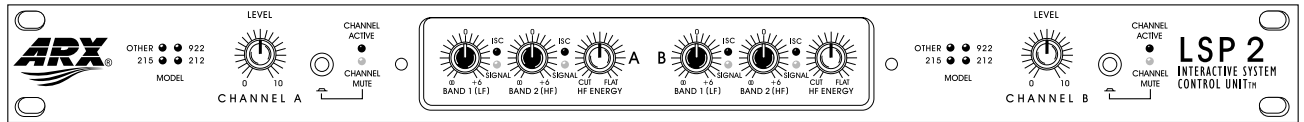


CONCERT SERIES



LSP-2 DUAL CHANNEL SPEAKER PROCESSOR WITH ISC (INTERACTIVE SYSTEM CONTROL)



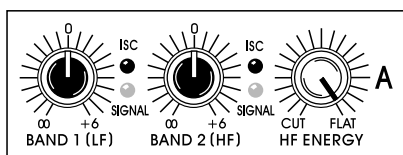
About The LSP-2

The dual channel ARX LSP-2 ISC speaker processor is a unique unit that controls all the operating parameters of the ARX Concert Series speaker systems.

It is generally accepted throughout the pro audio industry that a well designed, dedicated speaker processor or control unit is the best way to get reliable, repeatable performance from speaker systems with the minimum of time consuming pre-show setup and adjustment.

ARX has been building processor controlled speaker systems for over 15 years now, and the second generation LSP-2 is a new Dual Channel 2-way speaker processor that supplies level control, EQ trim, phase correction, crossover functions, and fail safe ISC™ speaker protection, neatly fitted into a one rack unit package.

ISC™ (Interactive System Control) is our innovative speaker protection circuitry. Extra leads run from the amplifier outputs back into the LSP-2, so it can constantly monitor the amount of power the amplifier is delivering to the speakers.



Channel A Sub Panel detail

The LSP-2 is supplied with factory calibrated plug-in cards fitted for specific models in the Concert Series, and so it knows the speaker's exact Safe Operating Area (SOA). If it senses that a peak in amplifier power is about to exceed this SOA, it automatically triggers the system protection circuits to hold the level momentarily at the loudest safe setting until the power peak has passed.

The rear panel has Balanced XLR inputs and outputs as standard, plus extra multipin ISC connections to the system power amps.

The LSP-2 is placed last in the system chain before the power amps, usually in the amp rack. Once it has been connected up correctly, it needs no readjusting. Just set it and forget it - the LSP-2 looks after the rest!

The LSP-2 and other speakers

The LSP-2 has plug in cards that determine its operating parameters, depending on the ARX Concert Series speaker that the LSP-2 has been set up and calibrated for.

Cards can also, on request, be supplied calibrated to other manufacturer's similarly configured systems.

Contact ARX to find out what speaker parameters are required to set up a custom plug-in card.

Features

- Dual Channel, Two-way Speaker processor
- System parameters controlled by Plug-in cards
- Low band, High band and Very High band controls
- ISC™ Speaker protection with 2 stage LED indicators
- Relay switched protection
- Intuitive user friendly interface
- Balanced XLR Inputs and Outputs
- Fast and easy setup
- Flawless performance in any audio environment
- Security cover available

LSP 2 Specifications

Input Impedance

20Kohms Electronically balanced

Maximum Input Level

+20dB

Input Level Control

∞ – 0dB (no gain)

CMRR

>50dB @ 1KHz

Output Impedance

(band 1 & band 2 output)

300 ohms Balanced

150 ohms Unbalanced

Maximum Output Level

+22dB

Low Output Level Control

∞ – +6dB (gain)

Signal to Noise Ratio

-96dB Band 1 output

-93dB Band 2 output

Frequency Response

20Hz—20KHz summed

Dynamic Range

118dB Band 1 output

115dB Band 2 output

Distortion (THD) < .004%

Crossover Frequency

Dependent upon

loudspeaker model

Crossover Filter Type

Linkwitz Riley 24dB per octave

High Pass Filter

Dependent upon loudspeaker

model; Modified Butterworth

type, 24dB per octave

High Frequency Equalisation

Variable, dependent upon

loudspeaker model

ISC Returns

20K ohms Differential Input

ISC Return Connector Type

2 x Male 6 Pin Socket.

Pins 1 & 2 Low return

Pins 3 & 4 High return

Input /Output Connector type

XLR

Power Requirements

100–120, 220–240 VAC

50-60 Hz, 5 VA

Weight

5 lbs/2.2 Kg

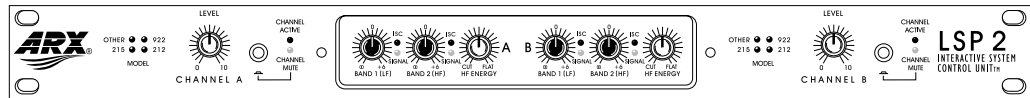
Dimensions

19"W x 1¾"H x 6"D

482 x 44 x 155mm



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.

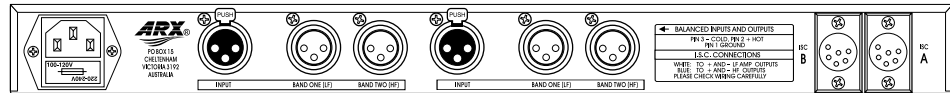


FRONT PANEL

- Plug-In card ID LEDs
- Channel A and B overall level controls
- Channel A and B active/mute switches
- Channel A and B active/mute LEDs

Recessed under security cover:

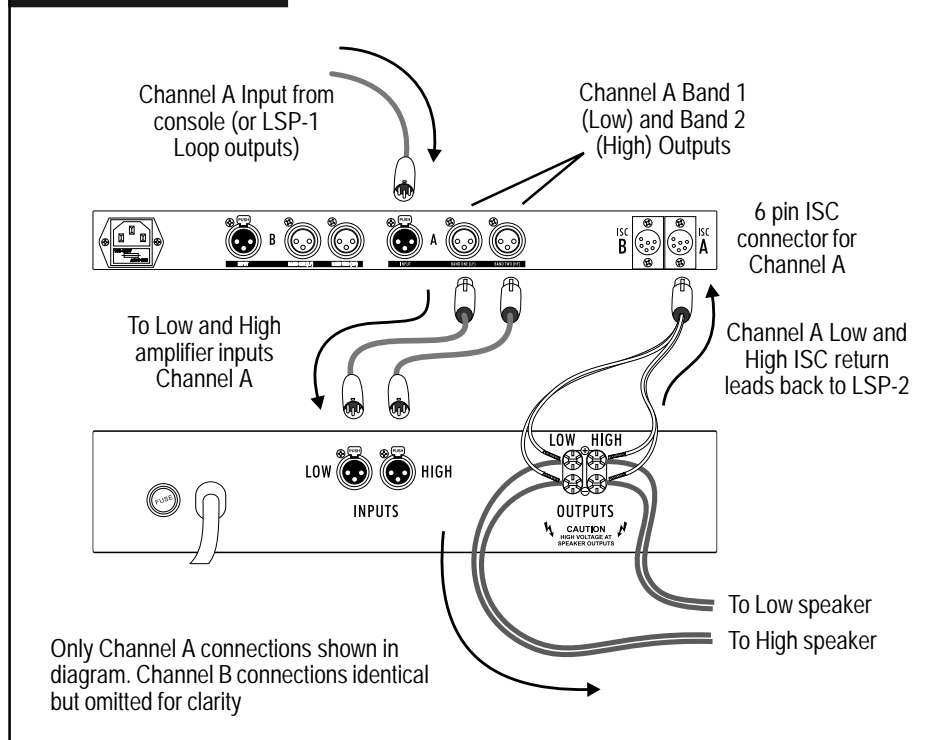
- Band 1 (Low), Band 2 (High), and HF energy controls for Channel A and B
- Signal and ISC active LEDs for each band



REAR PANEL

- Channel A and B Balanced XLR Input connectors
- Channel A and B Balanced XLR Band One (Low) and Band Two (High) Output connectors
- Channel A and B 6 Pin Male ISC return connectors
- AC input connector, with 100–120 and 220–240 voltage switch and fuse.

LSP-2 CONNECTIONS



Only Channel A connections shown in diagram. Channel B connections identical but omitted for clarity

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