

# POWERMAX SERIES

## PowerMAX 2 PROCESSOR CONTROLLED SPEAKER SYSTEM

## PowerMAX 4 PROCESSOR CONTROLLED STAGE MONITOR



<http://www.arx.com.au>



The PowerMAX series of innovative speaker systems from ARX raises the concept of processor controlled speaker systems to a new level.

Designed to fit your installation as well as your budget, the PowerMAX line features ultra efficient designs that install easily and neatly into any venue, yet deliver performance you'd expect from much larger speaker systems.

The PowerMAX 2 is a quantum leap forward in compact, powerful sound reinforcement. It is a 2 way speaker system in an all plywood trapezoidal cabinet, featuring an ARX Pro Series 15" (380mm) bass driver for maximum low end response.

The all-new ARX extended range, large diaphragm compression driver handles high frequencies, coupled to a Noryl resin CD horn flare for increased efficiency.

The PowerMAX 4 is a stage monitor based on the PowerMAX 2. It features speaker frequency management tailored to the critical vocal range, with all the power to really cut through on stage.

Its rugged all plywood, multi profile design has the flexibility to handle the most demanding stage monitoring requirements, from vocal monitors to sidefill.

All PowerMax speakers are controlled by the PowerPRO II speaker processor, a unique multi channel control unit that supplies EQ trim, phase correction, sub crossover, and fail safe speaker protection to keep the PowerMAX sound happening, day after day, night after night.

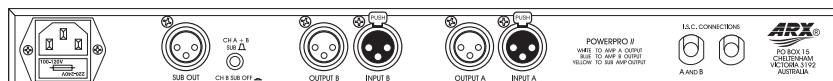
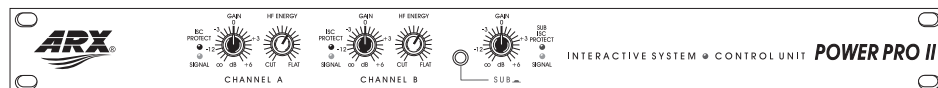
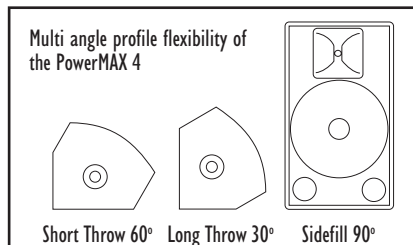
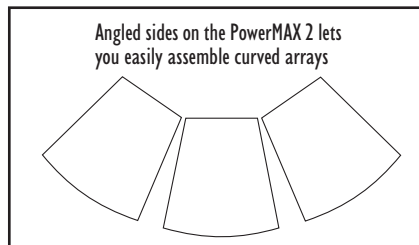
### Applications:

- Compact PA
- Concert Sound in fill
- Auditorium Installations
- Houses of Worship
- Club systems
- Cinemarettas

### THE POWERPRO II

The second generation dual channel ARX PowerPRO II ISC speaker processor is the heart of the PowerMAX system. ISC™ (Interactive System Control) is our innovative speaker protection circuitry. Extra leads run from the amplifier outputs back into the PowerPRO II, so it can constantly monitor the amount of power the amplifier is delivering to the speakers. Since the PowerPRO II is factory calibrated for the PowerMAX series, it knows the speaker's exact Safe Operating Area (SOA). If it senses that the amplifier power is about to exceed the 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 PowerPRO II 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 PowerPRO II looks after the rest!



PowerPRO II Speaker Processor

## PowerMAX 2

## PowerMAX 4

### Specifications

#### Components:

1 x ARX Pro series 15" (380mm) Bass driver, 1 x ARX Ferrofluid cooled 1" throat compression driver on a Noryl CD horn flare

#### Frequency Management

Internal 24dB per octave crossover on fibreglass PCB

#### Control Unit

PowerPRO II dual channel plus Sub speaker processor

#### Frequency Response

45 Hz - 18 KHz  $\pm 5$  dB

#### Impedance

8 ohms nominal

#### Minimum Amplifier Power

300W RMS @ 8 ohms

#### Dispersion

90° H x 75° V (Mid/High)

#### Sensitivity

99dB, 1 watt, 1 metre

#### Maximum SPL

124+ dB

#### Weight

27 Kg (60lbs)

#### Connectors

2 x male XLR or Neutrik Speakon, on recessed steel plate

#### Cabinet

All plywood construction, catalyzed paint, sculpted steel mesh grille, speaker stand insert, handles.

#### Profiles

##### PowerMax 2:

Trapezoidal, 7° taper per side

##### PowerMax 4:

Multi angle stage monitor wedge 30°, 60°, 90°

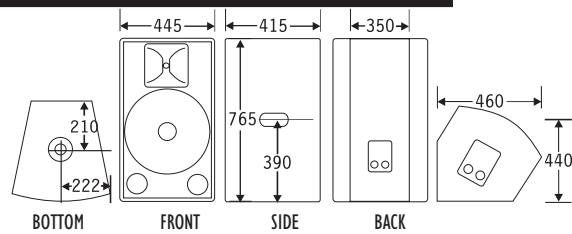
#### Accessories

Optional flying points and hardware, folding tripod speaker stands

#### Processor Type

ARX PowerPRO II or PowerDrive Integrated system amplifier

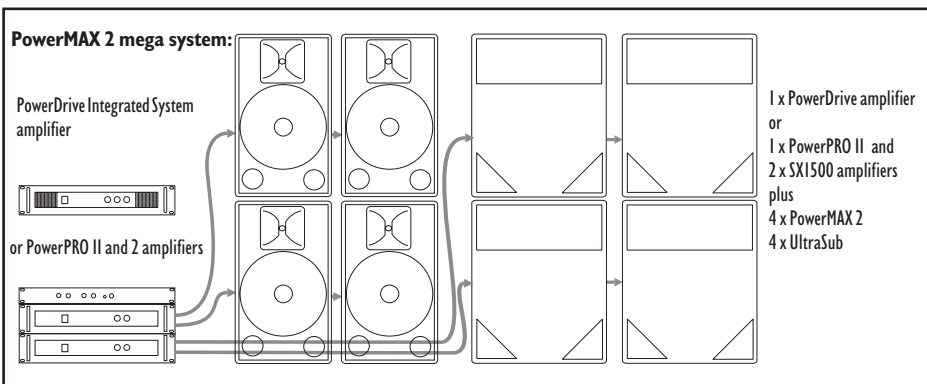
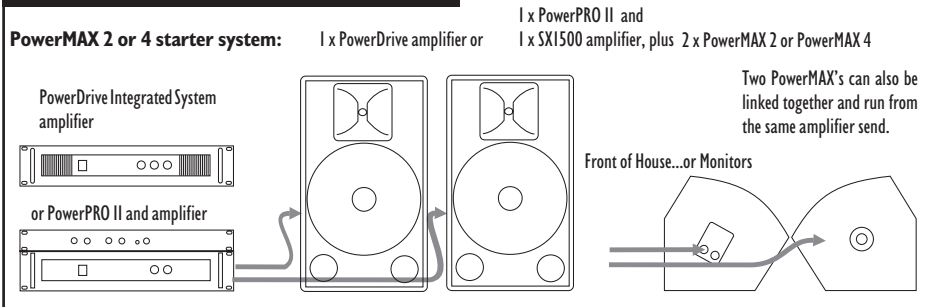
## POWERMAX ENCLOSURE LAYOUT



Each PowerMAX 2 cabinet is equipped with sealed handle ports, heavy duty steel mesh, stand insert and dual XLR or Speakon connectors on a steel plate

Each PowerMAX 4 stage monitor is equipped with sealed handle ports, heavy duty steel mesh, stand insert, multi-angle profile and dual XLR or Speakon connectors on a steel plate

## POWERMAX SYSTEM LAYOUTS



## ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The speaker system shall be a two way design, comprising a 380mm (15") low frequency driver and a Ferrofluid cooled 25mm (1") throat compression driver mounted onto a Noryl resin constant directivity high frequency horn. The low and high frequencies shall be integrated via an internal 24 dB per octave crossover mounted to a fibreglass pcb. Performance of the speaker system shall be achieved using a dedicated processor.

Rated impedance shall be 8 ohms. Sensitivity measured on axis @ 1 metre shall be 101 dB. Frequency response measured @ 1 metre on axis shall be 45 Hz-18 KHz  $\pm 3$ dB. Maximum SPL @ 1 metre on axis shall be 126dB. Dispersion shall be 90° H x 75° V.

The enclosure shall be constructed of premium

grade multi laminate plywood and be trapezoidal in shape, with the two sides tapering back at an angle of 7°. Dimensions shall be 765mmH x 445mmW x 414mmD (30"H x 117.5" W x 16" D) and it shall weigh 27 kgs (60lbs).

The speaker system shall be the ARX PowerMAX 2. The stage monitor speaker system shall be a two way design, comprising a 380mm (15") low frequency driver and a Ferrofluid cooled 25mm (1") throat compression driver mounted onto a Noryl resin constant directivity high frequency horn. The low and high frequencies shall be integrated via an internal 24 dB per octave crossover mounted to a fibreglass pcb. Performance of the speaker system shall be achieved using a dedicated processor.

Rated impedance shall be 8 ohms. Sensitivity

measured on axis @ 1 metre shall be 101 dB. Frequency response measured @ 1 metre on axis shall be 45 Hz-18 KHz  $\pm 3$ dB. Maximum SPL @ 1 metre on axis shall be 126dB. Dispersion shall be 90° H x 75° V.

The enclosure shall be constructed of premium grade multi laminate plywood and be multi angled, with the front baffle able to sit at angles of 30°, 60° and 90° relative to horizontal. Dimensions shall be 765mmH x 445mmW x 414mmD (30"H x 117.5" W x 16" D) and it shall weigh 27 kgs (60lbs). The stage monitor speaker system shall be the ARX PowerMAX 4 multi-profile monitor wedge.

Specifications available on disk



Your ARX dealer is:

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www.arx.com.au

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.

