



Pro-65B
Pro-65W

LOW FREQUENCY ARRAY LOUDSPEAKER SYSTEM

Description

The **Radia Pro Pro-65** low frequency array system is an indispensable addition to Pro-32 compact line array systems in applications where very precise low frequency dispersion control is required.

It is a known fact that dispersion control largely depends on line array length. The longer the array, the better dispersion control at low frequency. In some cases even a Pro-32 arrangement that meets basic coverage and SPL specifications may not have a sufficient LF dispersion control necessary to achieve exceptional intelligibility in very reverberant venues. A longer array may be required to improve acoustic parameters of a system in lower octaves of the vocal spectrum.

The **Pro-65** is a cost effective tool that helps solve issues in acoustically difficult venues. It is used as an augmentation to Pro-32 systems.

The **Pro-65** is built using the same extruded aluminum enclosure as Pro-32 but has no tweeter array or internal passive crossover. There are 6 x 5.25" (13.34 cm) Neodymium motor woofers installed in a line array, providing a powerful and controlled reproduction of LF spectrum.

The modular concept of the Pro-32 and Pro-65 permits stacking of additional Pro-65 modules around the Pro-32. In a typical installation requiring additional LF control, one Pro-32 would have one Pro-65 added and two Pro-32 would have two Pro-65 added above and below of Pro-32s.

Pro-65 integration in a system requires external low pass filtering. Recommended general settings are provided in the specification table.

Features

- Proprietary low frequency line array system for special applications where superior intelligibility in highly reverberant rooms is required.
- Flexibility of installation and system configuration. Threaded inserts on the back and on the side of the enclosure permit various mounting options.
- Pro-65 systems are weather proof and are usable for outdoor and other highly demanding applications
- Precise control of LF coverage. Greatly restricts vertical spreading of sound energy thus reducing ceiling and floor reflections—dramatically improving direct to reverberant ratios – resulting in increased speech intelligibility.

Applications

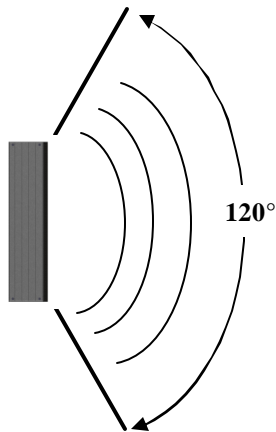
- Multimedia
- Cruise Ships
- Auditoriums
- Museums
- Courts of Law
- Cinemas
- Performing Arts Centers
- Houses of Worship
- Hotel Meeting Rooms
- Conference Centers
- Sports Facilities
- Theme Parks
- Mass Transportation
-and many more



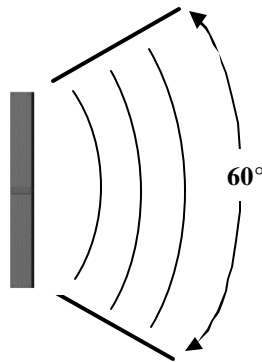
PRODUCT SPECIFICATIONS	
Pro-65B / Pro-65W	
Operating Range (1/2 space conditions)	80 Hz to 400 Hz max recommended
Sensitivity ¹ (1 W/ 1 m)	94 dB
Vertical Coverage Angle (at -6dB)	One Pro 65/Pro32 system - 60° at 250Hz Two Pro-65 flanking two Pro 32 - 30° at 250Hz
Power Handling ²	250 Watt RMS
MAX SPL (calculated @ 1 Meter)	116 dB Cont / 122 dB peak
Recommended Amplifier Power for Max Output	500 Watts
Nominal Impedance	6 Ohms
Transducers -- Low Frequency	6 x 13.34 cm long throw, Neodymium poly cone woofers
Input Connections	NL4 / Barrier Strip
Dimensions	H - 81.9 cm, W – 19.1 cm, D – 20 cm
Enclosure	Extruded Aluminum
Weight	10.0 Kg (22 lbs)
Mounting	4 threaded inserts for mounting hardware 1 position using 4 threaded insert for 3 rd party hardware ³
Optional Accessories	940230 Enclosure to Enclosure Coupling Brackets – Black 940231 Enclosure to Enclosure Coupling Brackets - white
Finish Options	Textured power coating in black or white (white paintable)

1. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals – corresponding to 1 W as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. Please note that the predicted device SPL at distance using inverse square law calculates will produce inaccurate results due to cylindrical wave radiation.
2. Conforms to AES2 – 1984 (r1997) method
3. When two or more Pro-65's are fastened together or to Pro-32s using the coupling brackets (optional accessory) the rear bottom pair of attachment points align with the rear top pair of the enclosure below and create an additional 3rd party bracket mounting point.

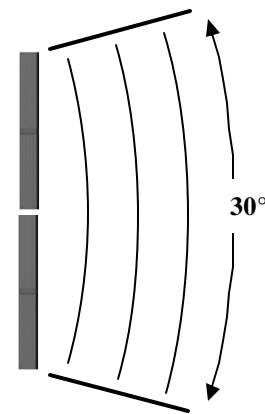
System dispersion



Pro-32 at 250 Hz



Pro-32+Pro-65 at 250 Hz



**2 x Pro-32, flanked
by 2 x Pro-65 at 250 Hz**