

# RoomMatch® Progressive Directivity Array Loudspeakers

## Create Concert-Quality Sound In Any Room – At Every Seat.



**RM5505 full-range  
array module**



**RM286020 asymmetrical  
full-range array module**



**RMS215 subwoofer  
array module**



**RMS218 VLF-subwoofer  
array module**

### The new benchmark for line-array loudspeaker installations

Bose® RoomMatch® Progressive Directivity Array loudspeakers represent the next evolution of the line-array concept. RoomMatch arrays deliver concert-quality sound for live music, with outstanding vocal projection and speech clarity. The modular design allows Progressive Directivity Arrays to be optimized for almost any room size or shape. Innovative Bose technologies combine to ensure that concert-quality sound is delivered to every seat in the venue.

### 42 full-range array modules including horizontally asymmetrical patterns

Each 2-way, full-range array module contains six (6) Bose EMB2 2-inch titanium-diaphragm compression drivers and two (2) Bose LF10 10-inch, high-excursion woofers to provide 60 - 16,000 Hz response (+ / - 3 dB), allowing use for speech and light music without the need for additional subwoofers. Full-range modules are available with 5°, 10°, 20°, 40° or 60° vertical coverage angles. Symmetrical horizontal coverage angles are available in 55°, 70°, 90° or 120°, with an additional 22 horizontally asymmetrical coverage patterns.

### 2 subwoofer modules for choice of 40-Hz or 25-Hz extension

The RMS215 module extends usable array response down to 40 Hz and features dual Bose 15-inch high-excursion woofers. The RMS218 module extends usable array response down to 25 Hz and features dual Bose 18-inch high-excursion woofers. Both subwoofers can be integrated in suspended arrays. For the highest performance requirements, RMS215 and RMS218 subwoofers can be combined with full-range modules to form 4-way systems.

### Integrated rigging hardware and accessories save installation costs

Full-range modules feature integrated rigging hardware, which allows up to 8 modules (with 10:1 safety factor) to simply bolt together without the need for setting splay angles. Additional rigging accessories include small and large array frames, extender bars for rear RMS215 mounting, pull-back bracket and wall/ceiling brackets. These accessories accommodate a wide range of RoomMatch Progressive Directivity Array configurations, without requiring expensive, custom-made rigging frames.

### Applications

- Performing arts centers
- Auditoriums
- Sports arenas
- Dance clubs
- Houses of worship

### Innovative Bose technologies

- Bose EMB2 compression drivers
- RoomMatch waveguides
- Continuous Arc Diffraction Slot manifold
- Progressive Directivity Arrays



**BOSE**

# RoomMatch® Progressive Directivity Array Loudspeakers

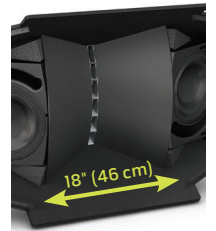
## **Bose® EMB2 compression driver: 500-16,000 Hz from a 2-inch diaphragm for best-in-class sound**

Specifically designed for RoomMatch arrays, the Bose EMB2 extended-midband compression driver uses a new, patented phase plug, allowing response down to 300 Hz while lowering total harmonic distortion by reducing the compression ratio. With six EMB2 drivers in each full-range module, the combined diaphragm area is 50% greater than that of a 4-inch diaphragm driver, for improved midband response from 500 to 1000 Hz. The EMB2 compression driver is a key Bose innovation that allows RoomMatch arrays to deliver best-in-class sound for both live music and speech.



## **RoomMatch® waveguide technology allows 42 coverage patterns, including asymmetrical patterns**

This unprecedented choice allows RoomMatch modules to form Progressive Directivity Arrays that optimize coverage for exact room dimensions. RoomMatch large-format waveguides allow control of horizontal coverage in the critical 1-4 kHz vocal intelligibility range. With RoomMatch waveguides, arrays deliver great sound for almost any room size or shape.



## **RoomMatch® CADS manifold eliminates array seams for quality sound in every seat**

In many competitive designs, the physical spacing between high-frequency devices can produce destructive phase-interference, or array "seams," which result in frequency-response dips in some seating locations. The Continuous Arc Diffraction Slot manifold improves sound quality by eliminating these phase-interference seams, for quality sound in every seat. The CADS manifold sums the output of six Bose EMB2 compression drivers, while maintaining acoustically equal spacing of high-frequency sources throughout the full array length. Five unique manifold arc angles provide precise coverage control for each of the five vertical coverage angles available for RoomMatch modules.



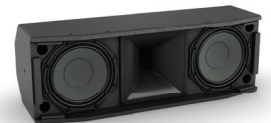
## **RoomMatch® progressive directivity arrays improve the line-array concept for indoor installs**

Both the horizontal and vertical coverage patterns of each module in the array can be selected for optimal coverage of exact room dimensions. Overall sound quality is improved by reducing the unwanted room acoustic reflections that can cause frequency-response dips and variations. With five different vertical angles, the number of modules can be reduced for modest SPL and budget requirements, without sacrificing total vertical coverage angle or sound quality.



## **RoomMatch® Utility RMU208 small-format zone-fill loudspeaker**

Intended for use in high-quality foreground music, under-balcony, zone-fill and vocal-range floor-monitor applications, this new model uses a single Bose EMB2 compression driver to provide mid/high-frequency voicing similar to that of RoomMatch full-range array modules. This provides consistent sound quality from main array to zone-fill coverage areas.



## **The ideal match for amplifier power and DSP**

Bose PowerMatch® configurable professional power amplifiers are designed to provide optimal amplification and loudspeaker DSP for all configurations of RoomMatch arrays.

The PM8500 is a class-D amplifier with a unique dual-feedback loop topology that delivers 4000 watts rated power with class-leading audio quality, efficiency and reliability, in a 2-rack-unit chassis weighing 28 pounds. The onboard DSP provides loudspeaker processing with presets for all Bose professional loudspeakers. The PowerMatch series also includes PM4500, PM8250 and PM4250 models.



**For additional information, please visit the [pro.Bose.com](http://pro.Bose.com) website.**

All information subject to change without notice. ©2013 Bose Corporation.

**BOSE**  
Better sound through research