

The EM Acoustics Reference Series of loudspeakers is not simply another iteration of a familiar slim profile form-factor. Rather, the series is the physical result of our ambition to redefine what is possible from a loudspeaker of this kind. A benchmark in physical and sonic elegance, possessing exceptional headroom and stability across all demands, the Reference Series represents the ultimate no-compromise option for point source applications.

FEATURES AND BENEFITS

- Three-way passive design
- Unrivalled headroom
- Natural, open and elegant voicing
- Unique crossover approach combined with FIR for unrivalled impulse response
- Interchangeable wide (110 x 50) and narrow (80 x 50) rotatable waveguides
- 2 x 8" neodymium LF, coaxial 4"/2.5" MF/HF drive units
- Flexible rigging and mounting options
- Impact and weather-resistant black or white finishes as standard
- RAL colour and permanent outdoor use options

APPLICATIONS

- Small to medium theatre and musical theatre events
- Small to medium live sound reinforcement
- Houses of Worship
- Conference, corporate and audio-visual



Following in the footsteps of the award-winning R10, the R8 is a compact loudspeaker model in the Reference Series. Suited to any performance environment requiring ultra-high quality sound reinforcement in a versatile, low-profile package, the R8 is a 3-way passive system that is especially useful where space is limited but system capacity and headroom are still critical. Whether rigged on a cramped theatre proscenium or deployed in a live music or corporate sound reinforcement setting where discreet appearance is key, the R8 will deliver truly abundant audio that defies its physical size.

The slim, discreet enclosure contains a pair of state-of-the-art 2.5" (64mm) voice coil 8" (203mm) neodymium LF drivers, and the same 4-inch (100mm)/2.5-inch (64mm) coaxial MF/HF compression drive unit as used in the R10 – meaning a completely consistent voicing across models in the Series. Just as with the R10, this coaxial compression drive unit feeds one of two alternate waveguides, which are direct derivations from the ground-breaking work undertaken on the R10. The result is that these waveguides possess not only an incredibly natural tonal character, but unparalleled consistency of response both on and off-axis.

Following the same example set by the R10, the R8 is supplied as standard with both waveguide options; a wide dispersion 110° x 50° for shorter throw applications and a narrower dispersion 80° x 50° option for controlled coverage over longer distances. Minutes of physical work and a simple change of preset in the DQ Series amplifier and the R8 can transform from a wide dispersion to a narrow and vice versa – offering excellent flexibility for rental users and installation customers alike. Which waveguide is installed – and crucially which orientation that waveguide is in – is easily identifiable without removing the front grille.

An entirely unique approach to crossover design marries the components together. The highly advanced crossover, in conjunction with the FIR processing functions of the DQ Series advanced system amplifiers, allows each drive unit to be used to the optimum extent. The combination of drive units, bespoke waveguide design and FIR processing yields flat frequency and phase responses and a consistency of sonic character across demand which is unrivalled by any loudspeaker in this class.

The elegant and compact enclosure draws its bracing technology from the HALO series, providing a tough and incredibly rigid yet lightweight package. Assembled from multi-laminate Birch plywood, the enclosure is coated with an impact and weather-resistant polyurethane finish which will enable the R8 to stand up to the most adverse conditions. This finish is available in both black and white as standard, however custom RAL colour matching options and permanent outdoor enhancements are also available.

The front grille is manufactured from stainless steel for enhanced lifespan and this is backed by an acoustically transparent fabric to complete the discreet appearance.

Intelligent handle placement combined with multiple threaded rigging points and a quick-release keyhole flying plate system ensure the R8 is easy and simple to handle and install both permanently and whilst on the road.

The architecture and construction of the R8 combined with EM Acoustics' state-of-the-art FIR processing liberates each component to achieve levels of sonic performance never yet attained by a loudspeaker of this size and form factor.

TECHNICAL SPECIFICATIONS

ENCLOSURE TYPE:	Three-way passive point source
DIMENSIONS (HxWxD)	(HxWxD) 580 (22.8) x 260 (10.2) x 377 (14.8) mm/(ins)
NET/SHIPPING WEIGHT:	23/27kg (50.6/59.4lbs)
FREQUENCY RESPONSE ¹ :	70Hz – 20kHz ±3dB
SENSITIVITY ² :	96dB
DISPERSION ³ :	Wide 110° x 50°, narrow 80° x 50°, both rotatable
DRIVE UNITS:	LF: 2 x 2.5" (64mm) voice coil, 8" (203mm) neodymium drive units MF/HF: 4" (100mm)/2.5" (64mm) neodymium coaxial compression drive unit DQ6: 1 per channel, DQ10: 2 per channel, DQ20: 3 per channel
LOUDSPEAKERS PER AMPLIFIER	750W RMS, 1500W program
POWER HANDLING:	128dB continuous, 134dB peak
MAXIMUM SPL ⁴ :	8 ohms
NOMINAL IMPEDANCE:	Asymmetric internal passive
CROSSOVER:	2 x Neutrik® speakON™ NLT4MP
CONNECTORS:	15mm (5/8") & 25mm (1") multi-laminate Birch plywood – rebated, screwed and glued. Finished in impact and weather-resistant polyurethane
ENCLOSURE:	Quick-release keyhole flying system 2 x M10 threaded fittings 6 x M8 threaded fittings Hex punched stainless steel backed with acoustically transparent fabric
RIGGING & HARDWARE:	Colours/Weather Protection
GRILLE:	FC-R8v vertical flying cradle
OPTIONS:	FC-R8h horizontal flying cradle
ACCESSORIES:	VFA-R8 variable angle flying bracket CASE-R8 dual enclosure touring flightcase
SPARE PARTS:	DU-807-16 8" drive unit CCD-1410 MF/HF compression drive unit PX-R8-LF replacement low frequency passive crossover assembly PX-R8-MHF replacement mid/high frequency passive crossover assembly RFG-R8 replacement grille/fabric

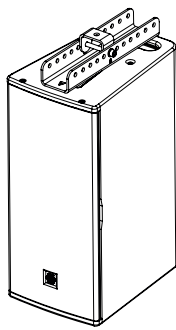
NOTES ON MEASUREMENT CONDITIONS:

¹Measured on-axis at 2m in an anechoic environment and referenced to 1m. ²Measured in half space at 2m with 4W sine wave input and referenced to 1m. ³Nominal dispersion, measured in an anechoic environment and averaged over stated bandwidth. ⁴Calculated and verified by subjective listening test of familiar program material.

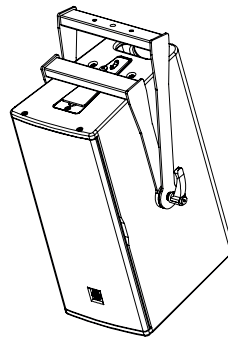
RIGGING ACCESSORIES



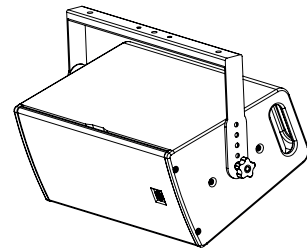
Stand adapter



VFA-R8



FC-R8v



FC-R8h

ENCLOSURE OPTIONS

R8 enclosures are available as standard in black or white 3-step impact resistant polyurethane finish. Custom RAL colours can be supplied on request; extended lead times and set up costs apply. R8 enclosures can also be supplied as an outdoor version (OD), finished in the same black weather-resistant 3-step polyurethane coating, with stainless steel grilles and weather-resistant connector options, and other cabinet details bespoke to the customer's request. Custom RAL colours are also available for outdoor options by specific quote. Please contact your local EM Acoustics representative for details.

ENGINEERING DRAWING

