

**The S-12 is a compact reflex loaded subwoofer intended for a wide variety of mobile and fixed installation applications where size is critical, yet significant output and a wide frequency response are also required. The S-12 is as much at home as a compact FOH subwoofer for small scale live music reinforcement as it is in a theatre, cafe/bar or nightclub installation.**

## FEATURES AND BENEFITS

- Compact size yet significant output
- Ideal low frequency support when size is restricted
- 1 x 12" high-excursion LF drive unit
- Surprising depth and power from a compact enclosure
- Impact and weather resistant black, and textured white finishes as standard
- Multiple M10 flying points
- M20 threaded pole mount adapter
- RAL colour and weather protection options
- Rubber feet and stacking recesses



## APPLICATIONS

- Cafés and bars
- Houses of worship
- Conference, corporate and audio-visual

The S-12 is a compact reflex loaded subwoofer designed to extend the bandwidth and increase the headroom of EMS Series loudspeaker models, as well as lend low frequency support in restricted spaces. It consists of a 12" (305mm) high-excursion low frequency driver in a reflex loaded enclosure designed to provide smooth LF roll-off and extended bass response.

The drive unit is housed within a compact, vented enclosure constructed from premium 15mm (5/8") multi-laminate Birch plywood. The S-12 has significant output compared to its footprint, and its compact dimensions enable it to be unobtrusively installed in restricted spaces such as under seating in clubs and bars or flown in ceiling spaces. A total of 16 M10 threaded fixings are incorporated around the enclosure on the top, bottom, sides, and rear for attachment of rigging hardware and safeties. A single flush bar handle, M20 threaded pole mount fitting and feet with matching stacking recesses complete the mechanical offering. The enclosure includes a pair of Neutrik® speakON™ NL4 connectors for in-

put and enclosure link, and a tough mesh-backed perforated steel grille protects the drive unit from damage which can be quickly removed for service purposes. The enclosure is finished in a rugged black textured polyurethane finish or white textured paint as standard, however RAL colour matching and weather-protected outdoor installation options are also available.

The S-12 is designed to provide useful low frequency extension in any application where space is at a premium. The S-12 can support any product, but is especially suitable for reinforcing EMS-41, EMS-51, EMS-61 and EMS-81X loudspeakers.

The S-12 requires a single amplifier channel and external active high/low pass filters, and should be used with professional power amplifiers capable of delivering 1000 to 1600W RMS into an 8-ohm load. For optimal results, the DQ Series Advanced System Amplifiers should be used.

## ENCLOSURE OPTIONS

S-12 enclosures are available as standard in black 3-step impact resistant polyurethane finish, or white water-based Warnex textured paint. Custom RAL colours can be supplied on request; extended lead times and set up costs apply. S-12 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.

## TECHNICAL SPECIFICATIONS

<b>ENCLOSURE TYPE:</b>	Reflex loaded subwoofer
<b>DIMENSIONS: (HxWxD):</b>	360 (14.2) x 530 (20.9) x 500 (19.7) mm/(ins)
<b>NET/SHIPPING WEIGHT:</b>	29kg/30kg (63.8/66lbs)
<b>FREQUENCY RESPONSE<sup>1</sup>:</b>	45Hz – 150Hz ±3dB
<b>SENSITIVITY<sup>2</sup>:</b>	98dB
<b>DISPERSION<sup>3</sup>:</b>	Omnidirectional
<b>DRIVE UNITS:</b>	1 x 12" (305mm) LF drive unit
<b>LOUDSPEAKERS PER AMPLIFIER:</b>	DQ6 <sup>4</sup> : 1 per channel, DQ10: 2 per channel, DQ20: 4 per channel
<b>POWER HANDLING:</b>	700W RMS, 1400W program
<b>MAXIMUM SPL<sup>4</sup>:</b>	124dB continuous, 130dB peak
<b>NOMINAL IMPEDANCE:</b>	8 ohms
<b>CROSSOVER:</b>	External active
<b>CONNECTORS:</b>	2 x Neutrik® speakON™ NL4
<b>ENCLOSURE:</b>	15mm (5/8") multi-laminate Birch plywood finished in impact and weather resistant black, or textured white paint
<b>RIGGING &amp; HARDWARE:</b>	16 x M10 threaded mounting points single bar handle, rubber feet & mating recesses, M20 threaded pole mount adapter
<b>GRILLE:</b>	Mesh-backed perforated steel
<b>OPTIONS:</b>	Colours / weather protection
<b>SPARE PARTS:</b>	DU-1211 12" drive unit RFG-S12 replacement grille

### NOTES ON MEASUREMENT CONDITIONS:

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

\* The DQ6 does not provide sufficient power for maximum headroom for the S-12 and as such should only be used in lower SPL environments.

## ENGINEERING DRAWING

