

## TECHNICAL DATA SHEET

The S-215 is a compact high-power subwoofer, designed to provide optimum low frequency support in a wide variety of mobile and installation applications. The rugged enclosure houses a pair of reflex-loaded 4" voice coil, 15" (381mm) neodymium LF cone drive units. Like all EM Acoustics products, headroom is key - large amounts of low frequency information can be produced by a surprisingly small and lightweight subwoofer enclosure.

## FEATURES AND BENEFITS

- Medium format reflex subwoofer
- 2 x 15" neodymium high-excursion LF drive units
- Impact and weather resistant black, and textured white finishes as standard
- RAL colour and weather protection options
- Tour-grade castors included
- Protective floor runners and matching stacking recesses
- Can be used to form HALO-B ground stacks

## APPLICATIONS

- Medium scale live music reinforcement
- Theatre
- Houses of worship
- Conference, corporate and audio-visual
- Theme parks

The S-215 is a compact high power reflex subwoofer, designed to support any EM Acoustics fullrange loudspeaker. It can also be used to assemble HALO-B ground stacks with the GS-HALO-B rigging accessory.

The robust enclosure is constructed from premium 18mm (3/4") multi-laminate Birch plywood – rebated, screwed and glued together. The enclosure is finished in black impact and weather-resistant polyurethane, or white textured paint as standard, however RAL colour matching as well as weather protection options are available if required.

Input and link out are provided on Neutrik speakON™ NL4 connectors. The enclosure includes two M20 threaded polemount adapters for mounting fullrange loudspeakers in both portrait and landscape orientations. Runners are provided on the bottom of the enclosure and on one end to protect the paint finish when in use either lying down or stood on-end, and recesses on the top of the enclosure allow stable stacking of arrays. Eight flush bar handles and tour-grade castors are also fitted as

## ENCLOSURE OPTIONS

S-215 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-215 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.



standard. Lastly, a tough perforated steel grille backed with acoustically-transparent black mesh protects the drive units from damage, which can be quickly removed for service purposes.

The S-215 requires an active crossover to function correctly – although the choice of filter points is very wide, allowing the user to tailor the response to exactly what is required. Cardioid DSP program settings are also available to create arrays with significant rejection to the rear of the subwoofers.

The S-215 requires a single amplifier channel and an active crossover to function correctly – as such it is recommended to be used with the DQ10 or DQ20 advanced system amplifiers. Using these amplifiers a maximum of eight S-215 subwoofers could be driven from a single DQ20 amplifier. For cardioid arrays, separate amplifier channels are required for the rear-firing subwoofer(s) due to the different processing needed.

## TECHNICAL SPECIFICATIONS

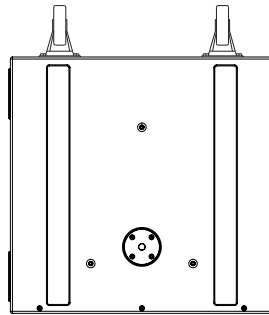
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|-----------------------------------|--|
| ENCLOSURE TYPE:                   | Medium format reflex subwoofer   |
| DIMENSIONS (HxWxD): :             | 550 (21.7) x 772 (30.4) x 752 (29.6) mm/(ins)  |
| NET/SHIPPING WEIGHT:              | 62/66kg (136lbs/141lbs)  |
| FREQUENCY RESPONSE <sup>1</sup> : | 40Hz – 150Hz ±3dB  |
| SENSITIVITY <sup>2</sup> :        | 100dB  |
| DISPERSION <sup>3</sup> :         | Omnidirectional  |
| DRIVE UNITS:                      | 2 x 4" voice coil 15" (381mm) neodymium LF cone drive units  |
| LOUDSPEAKERS PER AMPLIFIER        | DQ6*: 1 per channel, DQ10*: 1 per channel, DQ20: 2 per channel   |
| POWER HANDLING:                   | 2000W RMS, 4000W program   |
| MAXIMUM SPL <sup>4</sup> :        | 133dB continuous, 139dB peak   |
| NOMINAL IMPEDANCE:                | 4 ohms   |
| CROSSOVER:                        | External active  |
| CONNECTORS:                       | 2 x Neutrik® speakON™ NL4  |
| ENCLOSURE:                        | 18mm (3/4") multi-laminate Birch plywood – rebated, screwed and glued,<br>Finished in impact and weather resistant black polyurethane, or textured white paint |
| ENCLOSURE HARDWARE:               | 8 x flush bar handles, touring runners & mating recesses, tour-grade castors<br>2 x M20 threaded polemount adapter, 3 x M8 threaded fittings                   |
| GRILLE:                           | Mesh-backed perforated steel   |
| OPTIONS:                          | Colours / weather protection   |
| ACCESSORIES:                      | TC-S215 padded touring cover   |
| SPARE PARTS                       | DU-1508 15" (381mm) neodymium drive unit<br>RFG-S215 replacement grille  |

### NOTES ON MEASUREMENT CONDITIONS:

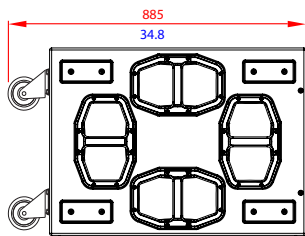
<sup>1</sup>Measured on-axis at 2m in an anechoic environment and referenced to 1m. <sup>2</sup> Measured in half space at 2m with 4W sine wave input and referenced to 1m. <sup>3</sup>Nominal dispersion, measured in an anechoic environment and averaged over stated bandwidth. <sup>4</sup>Calculated and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

\*Whilst the DQ6 and DQ10 will operate the S-215, they will not allow the subwoofer to reach its full potential and as such should only be used in low SPL environments.

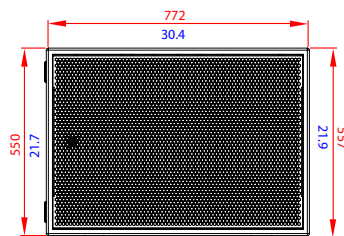
ENGINEERING DRAWING



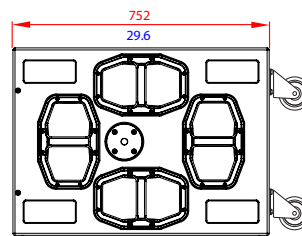
TOP



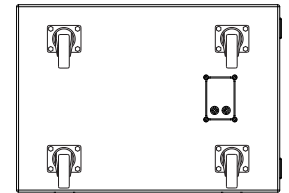
LEFT



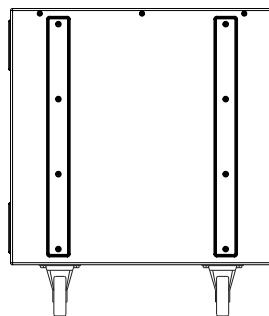
FRONT



RIGHT



REAR



BOTTOM