TECHNICAL DATA SHEET

HALO-CS

HALO-CS COMPACT FLYABLE SUBWOOFER

The HALO-CS is the dedicated subwoofer for the HALO Compact system, designed to fulfil requirements for a wide range of professional audio applications. At 36kg (79.2lbs) in weight and only 492mm wide (19.4"), HALO-CS is a truly compact solution – yet as it is capable of continuous sound pressure levels in excess of 126dB it is an ideal solution for small-to-medium theatres, houses of worship, theme parks, conference venues & corporate A/V and even small to medium scale live sound reinforcement. Any application where size & weight are critical concerns yet high SPLs are required is a perfect fit for the HALO Compact system.

FEATURES AND BENEFITS

- **Extremely robust 15" neodymium LF drive unit offers usable low frequency performance from a compact enclosure**
- **Small enclosure footprint and low weight ensure discreet system that is easy to rig**
- **High power-to-size ratio**
- **Lightweight plywood enclosure offers significantly less panel flexure than plastic designs**
- **Intuitive, safe rigging system for both flown and groundstacked systems**

The concept behind the HALO-CS was to create a compact subwoofer which would add usable low frequency information both in flown and ground-stacked configurations. As such, a powerful, high excursion 15" (381mm) neodymium drive unit was used to allow the HALO-CS to comfortably respond down to 40Hz. For larger systems, the HALO-CS can be used to add low frequency weight to the flown array with larger subwoofers providing more information in the lower octaves.

The HALO-CS enclosure is the same width as the HALO Comapct, and is the equivalent height of two flown or ground-stacked HALO Compact elements. As such, flight casing and truck packing are simple tasks, as cases for HALO-CS subwoofers can easily be made the same height and width as cases with pairs of HALO Compact enclosures.

HALO-CS subwoofers are supplied with a similar rigging system to that on the HALO Compact – a four-point design made from ultra-high tensile Domex steel. This system is rated to support 24 HALO-C enclosures, or a combination of HALO-C and HALO-CS enclosures where one HALO-CS is equivalent to two HALO-C enclosures. As such, up to 12 HALO-CS subwoofers can be flown as a column if required. For ground stacking, the process is blissfully easy – simply turn the HALO-CS upside down and the rubber feet on the top of the enclosure rest on the floor to prevent the enclosure moving. Additional HALO-CS subwoofers or HALO-C elements can then be linked to the HALO-CS directly without the use of flying grids. Location holes are provided on the rigging hardware so that the first HALO-C enclosure in the array or ground stack can have either positive or negative angle – for example in a flown configuration, the first HALO Compact can be set at 5°, 4°, 3°, 2°, 1.5°, 1° or 0.5° uptilt, 0° or 1° - 10° downtilt in 1-degree increments. An M20 threaded polemount adapter is provided so that when the HALO-CS sits on its rubber feet, HALO-C or other fullrange enclosures can be mounted from a distance pole above.

The HALO-CS enclosure is constructed from premium 15mm (5/8") multi-laminate Birch plywood – rebated, screwed and glued together. Intelligent bracing design minimises panel flexure, thereby reducing unwanted resonance whilst still keeping the enclosure weight low. The enclosure is also supplied as standard with rubber feet on the top (for ground stacking when inverted), matching stacking recesses in the bottom of the enclosure as well as an M20 threaded polemount adapter, and two flush routed bar handles in the sides. The flying hardware is manufactured from ultra-high-tensile Domex steel, finished in a polyester powder coat with aircraft-grade ball lock pins to ensure swift yet safe array assembly. A perforated steel grille backed with acoustically transparent black fabric finishes the enclosure with a sleek but stylish appearance. Two Neutrik® speakON™ NLT4 tour-grade connectors are provided on the rear of the enclosure for input and link.

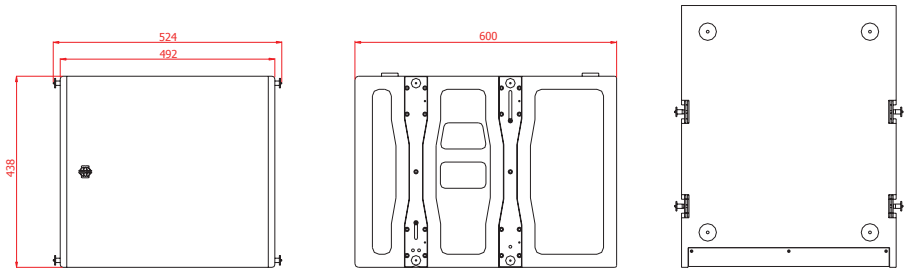
The enclosure is finished in black or white semi-matt textured paint as standard, however weather-protection options as well as custom RAL code colours are also available by request.

The HALO-CS requires active high/low pass filters and a single amplifier channel capable of delivering 1000-2000W RMS into an 8 ohm load. For optimal results, either the DQ Series Advanced System Amplifiers, or AD-9 or AQ-10 amplifiers combined with DSC48 processors should be used.

APPLICATIONS

- Small-to-medium theatre and touring events
- Small-to-medium live sound reinforcement
- Houses of worship
- Conference and corporate A/V
- Theme parks

EM ACOUSTICS



FRONT SIDE TOP

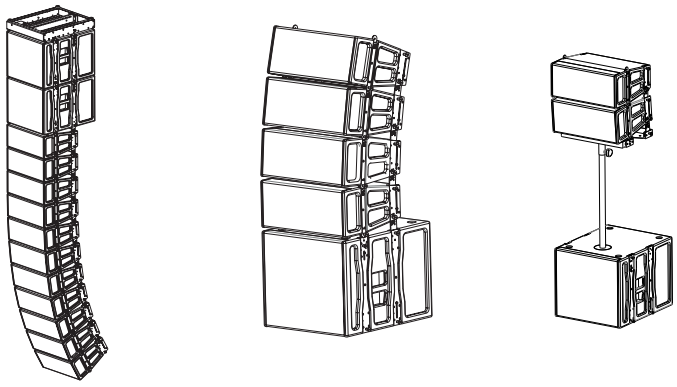
TECHNICAL SPECIFICATIONS

ENCLOSURE TYPE:	Compact flyable reflex subwoofer
DIMENSIONS (HxWxD): :	438 (17.2) x 492 (19.4) x 600 (23.6) mm/(ins) - enclosure only 438 (17.2) x 524 (20.6) x 600 (23.6) mm/(ins) - extremities of rigging/pins
NET/SHIPPING WEIGHT:	36/38kg (79.2/83.6lbs)
FREQUENCY RESPONSE[1]:	40Hz – 120Hz +/- 3dB
SENSITIVITY[2]:	95dB
DISPERSION[3]:	Omnidirectional
DRIVE UNITS:	15" (381mm) neodymium LF cone drive unit
POWER HANDLING:	600W RMS, 1200W program
MAXIMUM SPL[4]:	126dB continuous, 134dB peak
NOMINAL IMPEDANCE:	8 ohms
CROSSOVER:	External active, recommended below 100Hz
CONNECTORS:	2 x Neutrik® speakON™ NLT4
ENCLOSURE:	15mm (5/8") multi-laminate Birch plywood – rebated, screwed and glued. Finished in impact resistant textured paint
RIGGING & HARDWARE:	Four-point integral flying system, tested to 12 elements at 10:1 safety factor secured with aircraft-grade ball-lock pins Direct interface to HALO-C enclosures either flown or ground stacked
GRILLE:	Perforated steel backed with acoustically transparent fabric
OPTIONS:	Colours/Weather Protection
ACCESSORIES:	CASE-HALO-CS single element touring flightcase Various flying hardware options - see flying hardware datasheet
SPARE PARTS:	DU-1507 15" drive unit RK-1507 recone kit RFG-HALO-CS replacement grille/fabric

NOTES ON MEASUREMENT CONDITIONS:

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

RIGGING ARRANGEMENT



RIGGING ACCESSORIES

A wide variety of accessories are available for rigging HALO-CS enclosures both in flown and groundstacked configurations. Please consult the separate rigging hardware datasheet for more information on these different options.