The 12S/12S-D loudspeakers

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The biaxial12S/12S-D are high performance 2-way loudspeakers employing a single 12" driver in a bass-reflex enclosure and different HF sections for a wide range of installed sound applications. Both versions are lightweight passive designs using neodymium drivers and large horns for accurate pattern control. The 12S/12S-D are single box solutions providing rotatable dispersion characteristics of 75° x 50° and 110° x 55° respectively.

With their extended frequency response from 48 Hz to 18 kHz both versions can be used as full range systems and can also be supplemented by different subwoofers of the xS-Series.

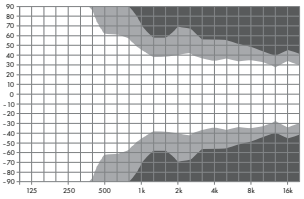
The enclosures are constructed from marine plywood with an impact resistant black paint finish and are Ball Impact Resistant according to DIN 18032-3 for schools and sports halls. The front of the loudspeaker cabinets are protected by a rigid metal grill backed by an acoustically transparent foam. The top and bottom panels incorporate a pair of M10 threaded inserts, whilst the rear panel incorporates two M8 threaded inserts.

System data

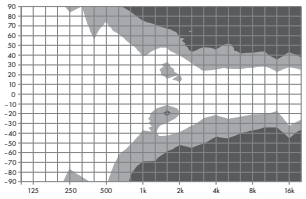
Frequency response (–5 dB standard) ..... 48 Hz - 18 kHz
Frequency response (–5 dB CUT mode) ..... 100 Hz - 18 kHz
Max. sound pressure (1 m, free field)[1] .....
12S/12S-D with D6 ..... 130 dB
12S/12S-D with D12 ..... 133 dB
Input level (100 dB SPL/1 m) ..... –14 dBu

Loudspeaker data

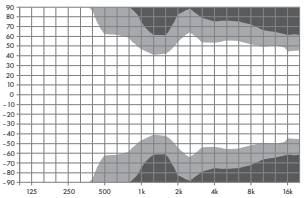
Nominal impedance ..... 8 ohms
Power handling capacity (RMS/peak 10 ms) ..... 300 W/1600 W
Nominal dispersion angle 12S/12S-D (h x v) .....
..... 75° x 50°/110° x 55° rotatable
Components ..... 12" driver with neodymium magnet
..... 1.4" compression driver
..... Passive crossover network
Connections ..... 2 x NL4
..... screw terminal block
Pin assignments ..... NL4: 1+/1–
Weight ..... 17 kg (37 lb)



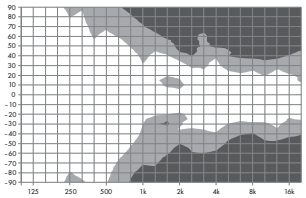
12S horizontal dispersion characteristics[2]



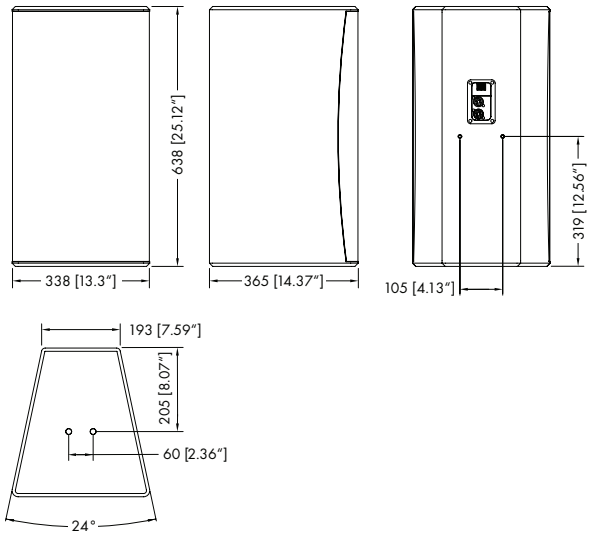
12S vertical dispersion characteristics[2]



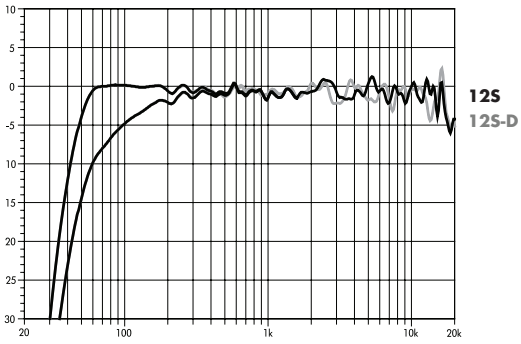
12S-D horizontal dispersion characteristics[2]



12S-D vertical dispersion characteristics[2]



12S/12S-D cabinet dimensions in mm (inch)



12S/12S-D frequency response, standard and CUT modes

1 Broadband measurement, pink noise, crest factor 4, peak measurement, linear weighting
2 Dispersion angle vs frequency plotted using lines of equal sound pressure (isobars) at –6 dB and –12 dB