

Applications

- Fixed installation horizontal
- FoH, grandstand, shower
- Balcony

Features + Benefits

- highly efficient, fully horn loaded loudspeaker system
- fully usable from 100Hz upwards, SPLmax >140dB
- 2x 12" high performance neodymium low-mid woofers
- 1.4" high performance neodymium compression driver heavily braced Baltic birch plywood, waterbased paint

The AD-Systems i.Stium is an very compact, horn loaded full-range loudspeaker system incorporating two 12" neodymium low-mid speakers and a high resolution 1.4" high frequency compression driver. Thanks to its acoustic design it is capable to generate sound pressure levels in excess of 140dB with low distortion. Compared to traditional designs this unit reaches a very low cutoff frequency of 100Hz and so can be used together with any common subwoofer system. Its nominal coverage pattern is 75° x 50°, but the high frequency horn is rotatable by 90° to get a 50° x 75° pattern. The loudspeaker incorporates a passive crossover and has a net weight of just 36 kilogrammes - features which make the i.Stium a highly economic and flexible product.

Corresponding with a high performance system of its class the AD-Systems i.Stium is layed out as semi-active-system, i.e. a complex, passive 2.5-way crossover provides phase coherent combination of both ways as well as a specifically optimized coverage pattern, while equalizing and speaker protection is provided by the AD-Systems DSP amplifiers. That's why powering of the i.Stium requires only one amplifier channel.

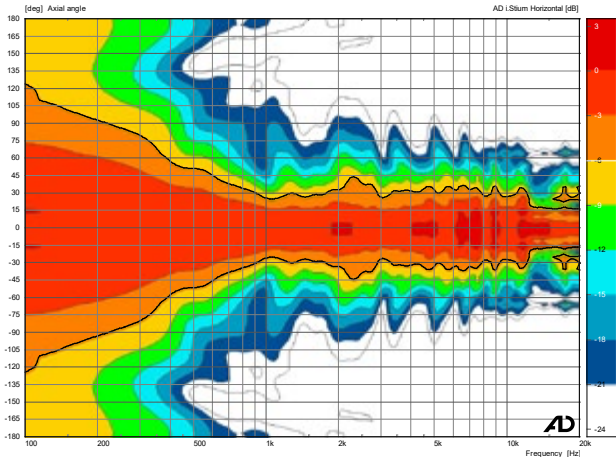
The available accessories round the systems concept perfectly off:

Horizontal bracket or customized mounting accessories

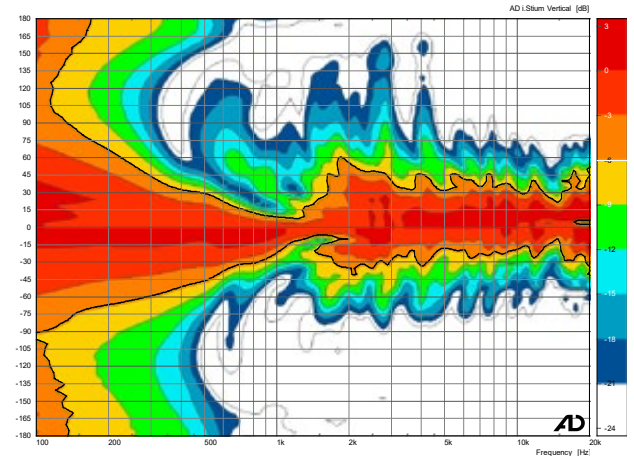


Type	i.Stium
Enclosure	15 mm baltic birch plywood with waterbased paint
Basic layout	2.5-Way passive, horn and reflex loaded
Protective Grille	1.0 mm sheet steel, hex-stamped, black acoustic foam outside
Components	2x12" ND low mid woofer with 3" VC 1.4" ND compression driver with 3.0" VC on 75°x 50° BEM CD-Horn passive crossover with PPCN technology
Frequency Response	100 Hz–18 kHz +/-3 dB,
Power handling RMS peak	750 W RMS 3.000 W Peak
Nominal Impedance	6 Ω
Dispersion pattern	75° x 50° 50°x 75° constant coverage
Sensitivity	108 dB Lo-Mids, 111 dB High
SPLmax	143 dB (peak) @ 1m
Connectors	Neutrik Speakon NL4: 1+/1- cable gland
Dimensions (w x h x d)	450 x 1020 x 420 mm
net weight	36 kg
Accessories	horizontal bracket customized mounting and RAL colour 100V transformer

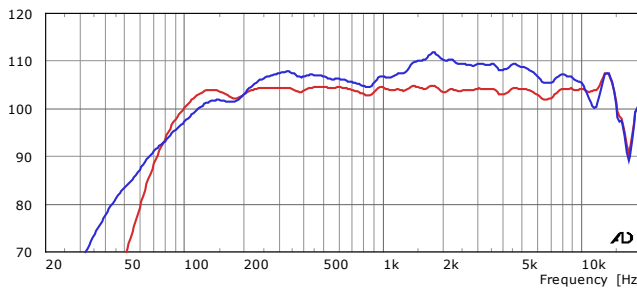
Horizontal coverage pattern



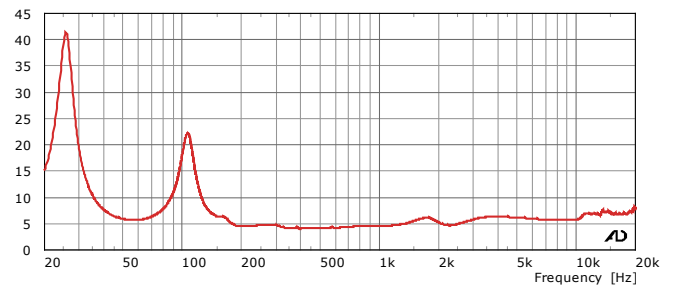
Vertical coverage pattern



Sensitivity / Processed Sensitivity



Impedance



Notes on performance data and graphs:

- 2) Frequency response: Range of the processed response -6db
- 3) Power Handling: Is based on the AES power handling of the transducers.
- 4) Nominal Sensitivity: SPL at 1 Watt at nominal impedance, referenced to 1 Meter.

- 5) Measurement condition: Full space in the far field of the speaker. Time-windowed
- 6) Maximum SPL: Calculated from nominal sensitivity at stated peak input power.
- 7) Resolution: For better readability a 1/6 octave smoothing is applied.

