

## Applications

- FOH system for audiences of 300 - 3.000 people
- Sidefill / Outfill / Infill / Drumfill for big stages
- fixed installation

## 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, Polyurea coated

The AD-Systems 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 42 kilogrammes - features which make the Stium a highly economic and flexible product.

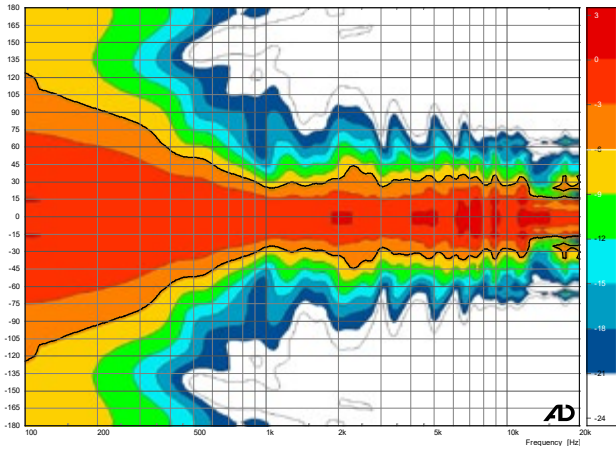
Corresponding with a high performance system of its class the AD-Systems Stium is layed out as semi-active system, i.e. a complex, passive 2.5-way crossover provides phase coherent combination of both ways as well as a specifically optimized coverage pattern, while equalizing and speaker protection is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

The handling of the slender, polyurea coated enclosure is pleasantly easy due to the well placed handles on both sides. The available accessories round the systems concept perfectly off: The Quick-Rig flying bar is mounted within seconds and enables easy set up due to the optimally matched pivot point. The detachable front board as well as the padded transport cover protect from dirt and rough handling effectively.

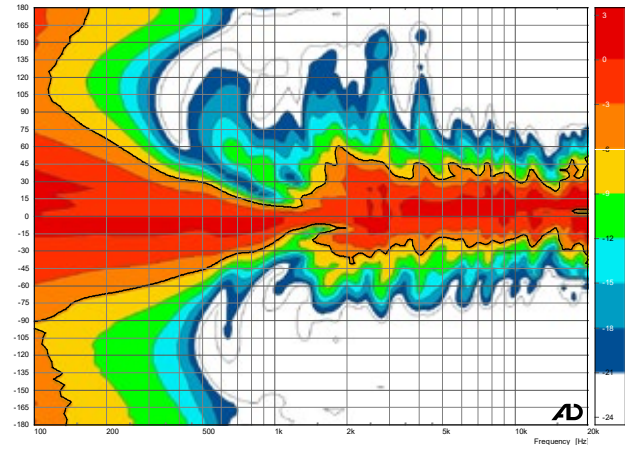


<b>Type</b>	Stium
<b>Enclosure</b>	15 mm baltic birch plywood w/ Polyurea coating
<b>Basic layout</b>	2.5-Way passive, horn and reflex loaded
<b>Protective Grille</b>	2.0 mm sheet steel, hex-stamped, black acoustic foam on inside
<b>Components</b>	2x12" ND low mid woofer w/ 3" VC 1.4" ND compression driver w/ 3.0" VC on 75°x 50° BEM CD-Horn passive crossover w/ phase correction
<b>Frequency Response</b>	100 Hz-18 kHz +/-3 dB,
<b>Power handling RMS   peak</b>	750 W RMS   3.000 W Peak
<b>Nominal Impedance</b>	6 Ω
<b>Dispersion pattern</b>	75° x 50° constant coverage
<b>Sensitivity</b>	108 dB Lo-Mids, 111 dB High
<b>SPLmax</b>	143 dB (peak) @ 1m
<b>Connectors</b>	NL4: 1+/1-
<b>Dimensions (w x h x d)</b>	450 x 1020 x 420 mm
<b>net weight</b>	44.5 kg
<b>Accessories</b>	Pan-tilt bracket, wheel board

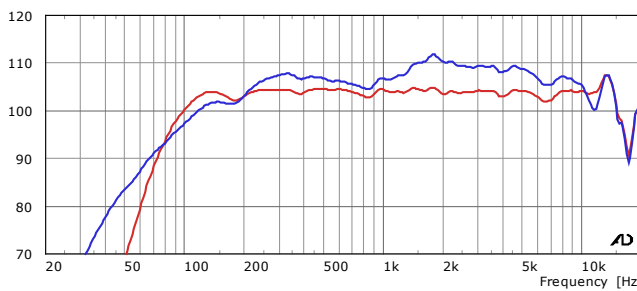
## Horizontal coverage pattern



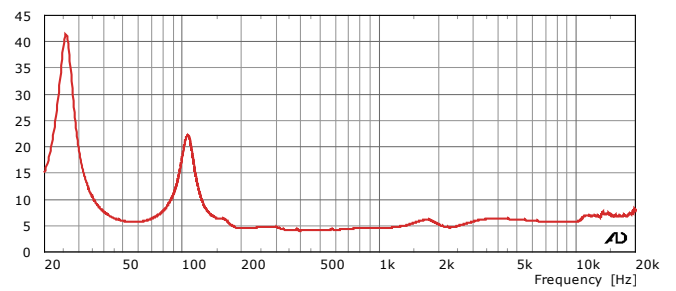
## Vertical coverage pattern



## 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.

