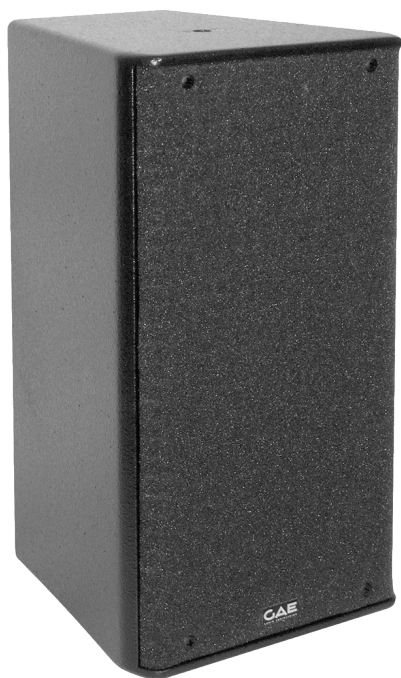


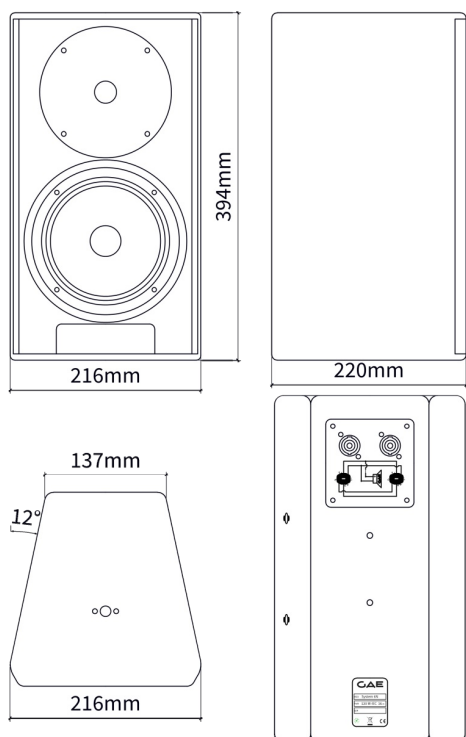
### GAE System 6N Compact 2-Way Loudspeaker

#### Key Features

Small format - big performance. Passive loudspeaker system for music and speech reproduction. The trapezoidal vented cabinet incorporates a high power N-Dym 6,5" transducer with 1,5-inch voice coil and a 1" HF-Driver with 1,4-inch voice coil on a 90° Radial Horn. The minimum phase crossover design reduces inductive losses without degrading the sensitivity of the system.



System 6N



System 6N: physical dimensions

#### General:

The System 6N is a passive high performance stage system for mobile use and fixed installations. With a small form factor it provides a radial dispersion of 90°. The smooth frequency and phase response in line with the dispersion characteristic allows many applications including excellent playback only performance.

The rugged enclosure is made from 12mm multiplex and provides four 8mm threaded shafts on one side, top and bottom and two 6mm threads on the backside. Different installation attachment are applicable. Connectivity is provided by 2 NL4 Connectors.

With its high sensitivity of 91dB SPL 1W/1m the System 6N produces 114dB/1m with 125W. The acoustical bandwidth is 85Hz - 19KHz ( (-3dB)/-2,5dB) with controller) and the phase response within +/-45°.

The non critical impedance response with a minimum 12,4Ohm@243Hz allows the safe operation of multiple System 6N on one channel of a professional grade power amplifier.

#### Architectural:

The System 6N is a small format sound reinforcement loudspeaker in a slim trapezoidal cabinet design. It is widely known for its sound quality in voice transmission and music reproduction and therefore remarkably accepted in mobile applications and installations.

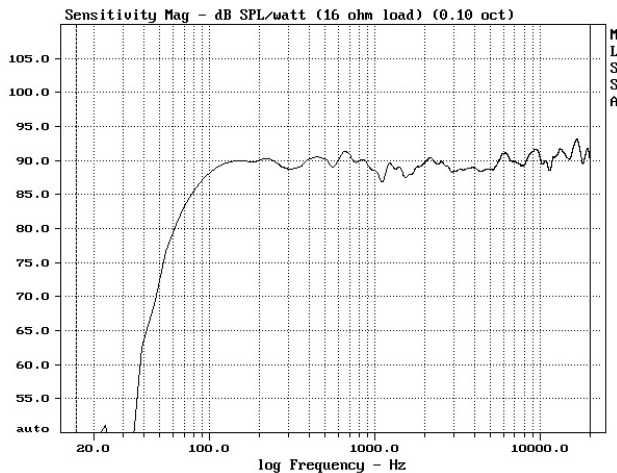
The System 6N measures 394mmx215mmx220mm (HxBxT) only and different colour options in RAL/NCS tones are available to match interior desing. A special protective front grill with a highly permeable acoustic foam cover is recessed into the baffle design. Different mounting accessories for wall-, ceiling- or pole mounting are available and can be ordered colour coordinated.

In addition user specified mounting hardware can be designed and manufactured by GAE.

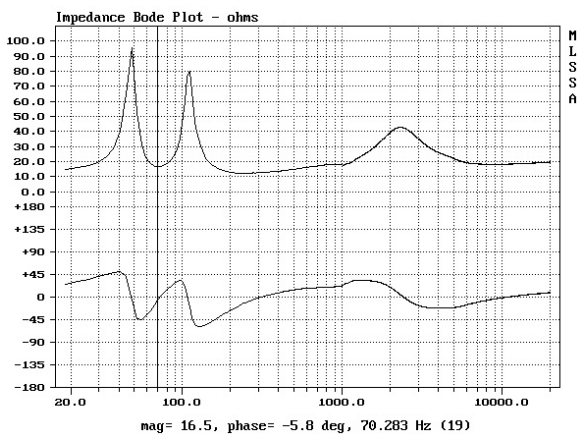
The musical quality can easy be underlined with a matching sub-/low woofer system like the GAE BR12N extending the performance down to 40Hz. A variant versions of the System 6N is the System 62, a twin coaxial desing.

## Applications:

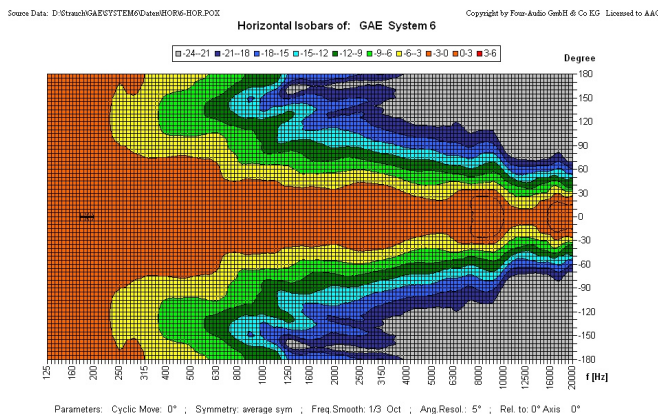
Portable audio and installed systems \* Fill- effect- and delayline loudspeaker for stages and theaters  
High quality playback systems for lobbies and bars \* Audio for conference centres, presentations and ballrooms  
High quality boardroom installations



System 6N: On Axis Frequency Response unsmoothed



System 6N: Impedance and Phase Response



System 6N: horizontal isobars of directivity

## Engineering:

Design: 2-way passive loudspeaker in a vented cabinet

Frequency Response -3dB: ((-3dB)+/- 2,5dB): 85Hz - 19KHz in Fullrange Setup

Frequency Response -10dB (-10dB +/-2,5dB: 55Hz - 19KHz in Fullrange Setup

Dispersion: 90° radial

Phase Response (+/-45°): 85Hz - 19KHz

Nominal Impedance: 16Ohm, minimum impedance is 12,4Ohm@243Hz

Power Handling Capacity: 125W RMS (IEC 268-5) = 32dBu, 240W Program = 35dBu

Sensitivity (4V/16Ohm/1m): 91dB/SPL

Program SPL: > 114dB @125W/1m<sup>1</sup>

Components: 1x6,5-inch cone transducer with neodymium magnet and coated cone with 1,5-inch voice coil and 1"HF-driver with 1,4-inch voice coil on radial 90° Horn

Mounting: 4 x M8 threads on top/bottom and sidewall, 2xM6 on backside

Housing: 12mm multiplex wood with varnish coating

Dimensions (HxWxD): 394x216x220mm

Connectivity: 2 speakon NI-4 in parallel

Weight: 7,4kg

Options: RAL/NCS colours for varnish coating. Standard Colour is RAL 9005 (black)

Optional attachments: wall/ceiling mounting yoke, standing yoke and customer specified mounting hardware.

Related Products: GAE BR 12N sub/low woofer system, System 62 twincoaxial loudspeaker

Compliant to: CE, ROHS, Reach

<sup>1</sup> ≤ 10% THD