

GAE System 12N-TM High Power Top/Monitor Loudspeaker

Key Features

Medium format - Top/Monitor. Passive fullrange loudspeaker system for music and speech reproduction. The functional vented cabinet incorporates 1 high power N-Dym 12-inch transducer with 4-inch voice coil combined with a N-Dym 2" HF-Driver with 3-inch voice coil on a radial horn with a coverage of radial 60°. The low-loss passive crossover realises a minimum phase behaviour and incorporates an active two-stage HF-driver protection.



General:

The System 12N-TM is a passive high output FOH/monitor system for mobile use and fixed installations. The 2-way system design incorporates low loss filter stages linearising the phase-/frequency response. The radial horn design with a dispersion of 60° is also optimum for floor monitor application. The smooth frequency and phase response of the 2-way system together with the high output/low distortion of the system makes it also suitable for FOH use as a fullrange system.

The rugged enclosure is made from multilayered plywood with 2 recessed handles in the cheeks. It provides five threaded shafts to attach mounting hardware. Three on top and sides and two on backside making different installation mounts possible.

Connectivity is provided by two NL4 Connectors.

With its high sensitivity of 97dB SPL 1W/1m the System 12TM produces impressive 125dB/1m with 700W.

The acoustical bandwidth is 55Hz - 18KHz ((-3dB)/- 2,5dB) with controller) and the phase response is within +/-45°.

The non critical impedance response with a minimum of 6,3Ohm@184Hz allows the safe operation of multiple Systems 12N-TM on one channel of a professional grade power amplifier.

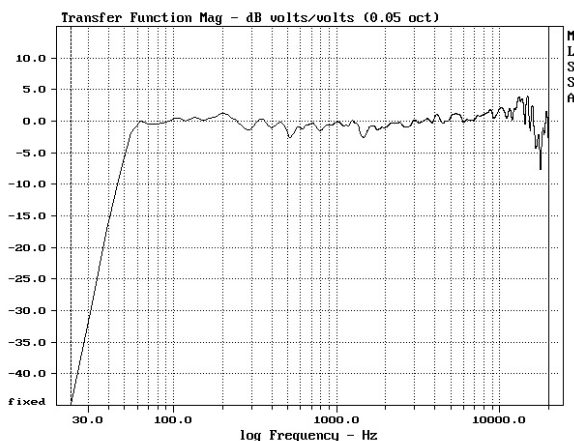
Architectural:

The System 12N-TM is a medium format Top/Monitor loudspeaker in a functional cabinet design. It is well known for its sound quality and its remarkable headroom in voice transmission and music reproduction and therefore well accepted in mobile applications and installations.

The System 12N-TM measures 600mmx377mmx343mm (HxWxD) and different colour options in RAL tones are available to match interior design. 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.

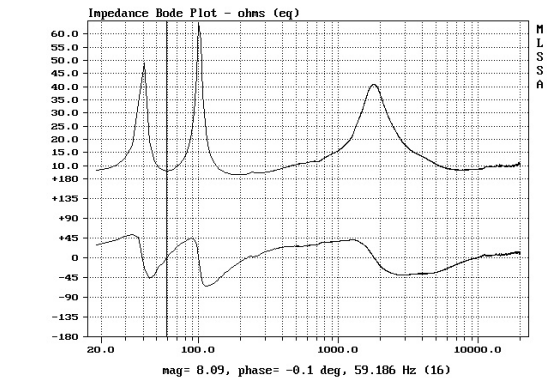
The musical quality can easily be underlined with a matching sub-/low woofer system like the GAE BR118 or GAE BR218 extending the performance down to 40Hz.



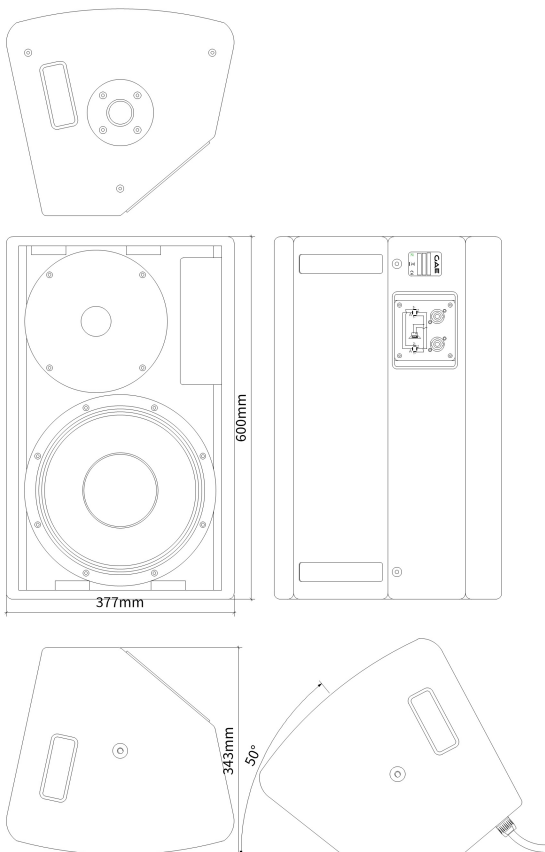
Frequency Response On Axis

Applications:

Portable audio and installed systems * Front of house and Monitor * Point Source Clusters
High quality playback systems for clubs and stages * Audio for ballrooms



ESC - exit, F1 - print, F2 & cursor keys move cursor. MLS9A: Frequency Domain
Impedance and Phase Response



Engineering:

Design: 2-way passive loudspeaker in a vented cabinet

Frequency Response -3dB: ((-3dB)+/- 2,5dB): 55Hz - 18KHz in Fullrange Setup

Frequency Response -10dB: (-10dB +/-2,5dB: 45Hz - 18KHz in Fullrange Setup

Dispersion: 60° radial

Phase Response (+/-45°): 30Hz - 18KHz

Nominal Impedance: 8Ohm, minimum impedance is 6,30hm@184Hz

Power Handling Capacity: 350W RMS (IEC 268-5) = 37dBu, 700W Program = 40dBu

Sensitivity (2,83V/80hm/1m): 97dB/SPL

Program SPL: > 125dB @700W/1m¹

Peak SPL: > 127dB@1000W/1m¹

Components: 1x12-inch cone transducers with neodymium magnet and coated cone with 4-inch voice coil and 2" N-Dym HF-driver with 3-inch voice coil on a 60° radial horn

Mounting: 2 x M10 threads on sides, 1 x M10 on top, 2 x M8 on backside, polemount on bottom.

Housing with recessed handles in the cheeks: multilayered multiplex wood with polyurea coating and rubber runners on bottom.

Dimensions (HxWxD): 600x377x343mm

Left or right version available

Active 2-stage HF-Driver Protection

Connectivity: 2 speakon NI-4 in parallel

Weight: 23,8kg

Options: RAL colours for Varnish. Standard is polyurea coating standard colour is RAL 9005 (black)

Optional attachments: UB12TM/h yoke, UB12TM/v yoke customer specified mounting hardware.

Related Products: GAE BR118, BR218, GAE BR115, BR215 sub/low woofer systems

Compliant to: CE, ROHS, Reach

¹ ≤ 10% THD