

NM250A

Ultra-compact 2-way bi-amplified active loudspeaker system

Montarbo
Made in Italy



Model NM250A is an active, bi-amplified, high performance system with a maximum output power at the top of its category. NM250A combines the high power and sound pressure levels typical of much larger and heavier professional systems with the sonic accuracy and precision typical of hi-fi systems in a compact package that's incredibly easy to transport and fast to set-up. Designed for small concerts, press conferences, talk-shows, NM250A gives you the fidelity, the dynamics and the versatility you ask to a reference monitor system for your home studio. Indoor and outdoor, in small auditoriums, clubs, restaurants, and small venues NM250A is the choice for sonic quality and ease of use.

SYSTEM'S ARCHITECTURE

- Design and construction meet a quality standard that is seldom available for products in the same category, offering top-level reliability, flexibility and performance.
- The bass section utilizes a 8" high-efficiency wide excursion woofer. The mid-high section is equipped with a 1" compression driver (1" voice coil) coupled with a 90° x 70° constant directivity horn (integrated in the cabinet body).
- The built-in electronics includes:
 - 2, class AB, Mosfet amplifiers, each one fitted with our exclusive loudspeaker protections and a soft-start circuit to reduce the peak current drain at switch-on. The two on-board power amplifiers deliver a total output power of 250 W divided into 200 W for the bass section and 50 W for the mid/high section.
 - 2 active dynamic processors optimize the specific features of each component and provide direct control of the operation of the systems, ensuring a constantly flat frequency response. They feature independent time constants (and operating thresholds that are sensitive to line voltage) and limit any excessive voice coil movement under the most critical conditions. Unimpeded operation is guaranteed even when the system is subjected to extreme line voltage excursions.
 - a high slope active electronic crossover (24dB/oct.) guarantees phase coherency and perfect overlapping of acoustic emissions of the transducers in the crossover region.
- NM250A is equipped with a balanced input switchable to accept both line and microphone level, a balanced output (link), a peak LED indicator and a 2-band equalizer (LF 80Hz, HF 10kHz) which allows to change the response curve of the system depending on the requirements of each different application. This enables optimizing the NM250A's working condition for each specific requirement whether it is used for example in a conference hall, on stage for monitoring and many other situations.

FEATURES

- 2, class AB, Mosfet amplifiers delivering a total output power of 250 Watts (LF 200 W, HF 50 W).
- 121 dB max spl.
- 8" high-efficiency wide excursion woofer with 2" voice coil.
- 1" compression driver with 1" voice coil.
- 90° x 60° constant directivity horn integrated in the shape of the cabinet.
- The cabinet, made from injection molded polypropylene, is equipped with a steel protection grid and two threaded inserts (M8).
- Recessed carrying handle, stand adaptor with safety lock, mating feet and cavities for safe cabinet stacking, and low turbulence tuning ports are all built into the cabinet.
- Multi-angled cabinet design, allowing for either vertical (P.A) or horizontal (stage monitor) installation.

APPLICATIONS

- Unlimited range of applications both indoor and outdoor
- Stage monitor
- Mini PA system for live music, conferences, bars, pubs, clubs, restaurants, retail outlets
- Places of worship
- Gym and health clubs
- Small auditoriums



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TECHNICAL SPECIFICATIONS

Enclosure	2-way; vented
Frequency response	58 Hz ÷ 20 kHz ± 2dB
Sensitivity	98 dB SPL @ 1W/1m on axis
Max. SPL	121 dB
Max output power	250 W (LF 200 + HF 50)

• Components	custom designed
- bass frequencies	8" high efficiency wide excursion woofer (2" voice coil)
- mid/high frequencies	1" compression driver (1" voice coil) constant directivity horn (90°H x 60°V)
Impedance	4 ohms (bass) / 8 ohms (mid/high)
Frequency response	bass frequencies: 58 Hz ÷ 1.6 kHz mid/high frequencies: 1.6 kHz ÷ 20 kHz

• Active electronic crossover	24 dB/oct
Crossover frequency	1600 Hz

• Built-in power amplifier	2 MosFet, class AB, dedicated power units with 2 independent dynamic processors; 'soft start' circuit
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Max output power	250 W
- bass	200 W (4 ohms / 0,1% THD)
- mid/high	50 W (8 ohms / 0,1% THD)
Input sensitivity	micro: -40 dBu, line: -10 dBu
Noise referred to input	-108 dB (A weighted)
Input impedance	micro: 2 kohms, line: 22 kohms

• Connectors	balanced Neutrik Combo® input balanced XLR output (link)
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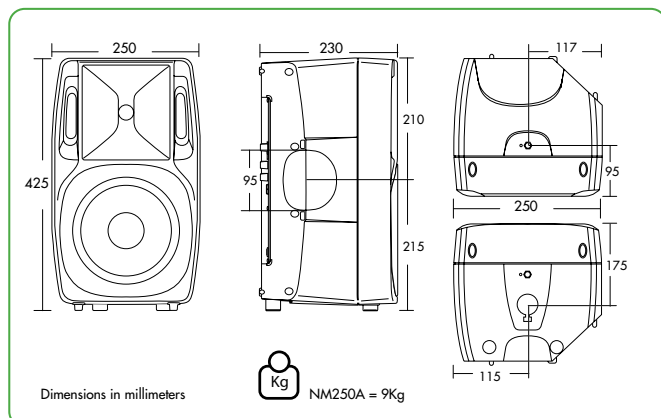
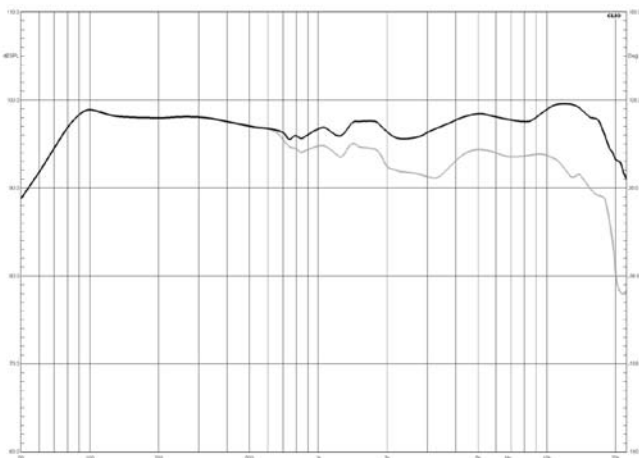
• Controls	master level 2 band EQ
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PHYSICAL SPECIFICATIONS

• Construction	multi-angled cabinet; injection moulded polypropylene; steel protection grille
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• Fittings	two x M8 threaded inserts; mating feet and cavities speaker stand adaptor with safety lock; recessed carrying handle
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• Dimensions / Weight	W 25 x H 42.5 x D 23 cm / 9 kg
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MUSIC - DATA SHEET