



CONTINUING THE ITALIAN LEGACY



AUDIO DEVELOPMENT – TRAVELLING WITH AUDIO

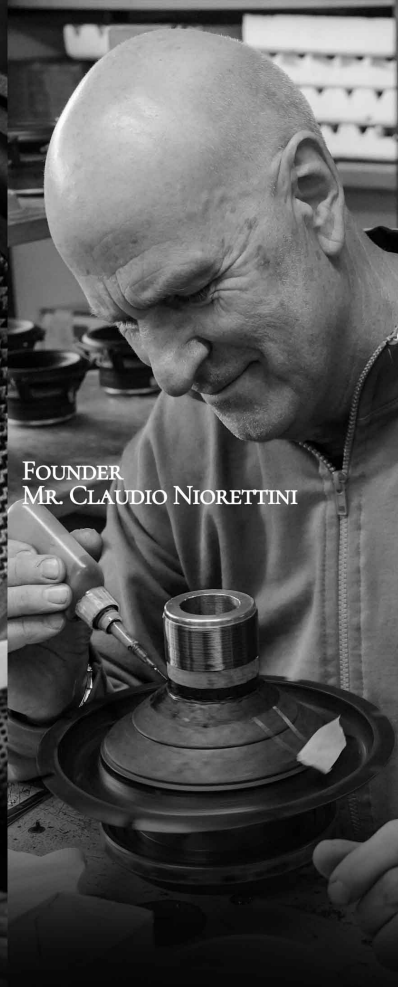
LABORATORIO AUDIO IS AN ITALIAN COMPANY WHICH DESIGNS, DEVELOPS AND MANUFACTURES LOUDSPEAKERS UNDER THE BRAND NAME AUDIO DEVELOPMENT; A PROUD COMPANY COMMITTED TO DEVISING THE PERFECT COMBINATION BETWEEN TRADITION AND INNOVATION.

DIRECTLY INVOLVED WITH EVERY PHASE OF PRODUCTION TO ENSURE THE HIGHEST STANDARDS OF QUALITY AND DESIGN, AUDIO DEVELOPMENT'S CORE MISSION IS TO REPLICATE MUSIC IN ITS PUREST FORM AS INTENDED BY THE ORIGINAL ARTIST; WITHOUT ADDING NOR HIDING ANYTHING. IT APPROACHES DIFFERENT CHALLENGES WITH DIFFERENT SOLUTIONS AND DESIGNS, NONETHELESS THE TARGET ALWAYS REMAINS THE SAME; THE ULTIMATE SATISFACTION OF THE LISTENER. SATISFACTION THAT IS FUELED BY RAW EMOTION.

ANY PRODUCT BEARING THE AUDIO DEVELOPMENT NAME IS CONSIDERED A SPECIAL DESIGN. A COMPANY THAT PREFERS TO BE CONSIDERED AS AN ARTISAN RATHER THAN A MANUFACTURER; AUDIO DEVELOPMENT CONTINUES TO STRIVE TOWARDS THAT GOAL, REMAINING DISSATISFIED EVEN AS IT'S DEVOTED CUSTOMERS ARE NOT. IT'S A COMPANY ROOTED IN CORE VALUES, COMPLETELY ADDICTED TO PRODUCING SWEET MUSIC FOR THE PEOPLE.



italy
MADE IN ITALY



FOUNDER
MR. CLAUDIO NIORETTINI



IN VIAGGIO CON LA MUSICA

AD600



2-Way Speaker System Handcrafted in Italy

In the realm of high-end car audio, few brands embody the marriage of traditional craftsmanship and modern engineering like AD (AudioDevelopment) Italy. Their AD600 series is a testament to this philosophy, delivering an authentic "Italian Sound" that is defined by its transparency, speed, and emotional depth.

T100 HandCrafted Tweeter

The heart of the high-frequency performance lies in the T100 Tweeter. Featuring a 28mm treated silk dome, the T100 is designed to provide a smooth, non-fatiguing sound that remains incredibly detailed.

- **High-End Construction:** It utilizes a high-thermal stability Neodymium magnetic circuit and a ferrofluid-cooled copper voice coil on an aluminum former for superior power handling.
- **Versatile Integration:** Thanks to its compact dimensions and the unique Tri-mount system, the T100 can be seamlessly integrated into any vehicle via flush, external, or flange mounting.

W600 HandCrafted Woofer

Complementing the T100 is the W600 Woofer, a mid-woofer engineered for those who demand impact without sacrificing tonal neutrality.

- **Advanced Materials:** The cone is crafted from Fiberglass with a rubber suspension, driven by a substantial 40mm OFC copper voice coil.
- **Resonance Control:** To eliminate unwanted distortions, AD employs a unique 16-bracket PPO chassis injected with fiberglass, ensuring the basket remains acoustically inert.
- **Performance Driven:** With a vented pole piece for forced air cooling, the W600 is "fast, dynamic, and has a good impact," making it the ideal choice for high-pressure front-stage systems.

Handcrafted Speaker





EXPERIENCE PURE MUSICALITY

Whether you are building a no-compromise three-way setup or a classic high-fidelity two-way system, the AD600 components offer a level of musicality that only true Italian hand-craftsmanship can provide. Enjoy the perfect balance of power, precision, and the soul of Italian acoustics.

ADMM3



3-Way Speaker System Handcrafted in Italy

In the world of high-end car audio, few brands capture the marriage of technical precision and emotive musicality like Italy's Audio Development (AD). The MM series—comprising the MM1/MM1T tweeter, the MM4 midrange, and the MM6 woofer—represents an uncompromising pursuit of sonic perfection, hand-crafted for those who view their vehicle as a private concert hall.

MM1-MM1T 28mm Masterpiece Tweeter

At the top of the frequency spectrum sits the MM1, a tweeter designed with a 28mm treated silk dome. Its heart is a high-sensitivity neodymium magnet, while its body is carved from a single block of turned aluminum.

- **Unique Feature:** It utilizes a double loading chamber that lowers the resonance frequency, allowing it to play deeper into the midrange than typical tweeters.
- **The "Red Spot":** AD has engineered an asymmetric off-axis dispersion, marked by a red dot on the chassis to guide installers toward the optimal acoustic stage.

MM4 4inch Masterpiece Midrange

The MM4 is a rare gem in the market—a 104mm reverse dome midrange utilizing a double-layer fiberglass cone.

- **Control & Clarity:** By using a reverse rubber suspension and a ferrite-cooled neodymium magnet, it achieves the open soundstage of a traditional dome tweeter but with significantly better control over unwanted dispersion.
- **Build:** Like its siblings, it features a proprietary basket machined from solid aluminum, ensuring zero resonance and absolute structural integrity.

MM6 6.5inch Masterpiece MidWoofer

The MM6 midwoofer is an unconventional masterpiece. Nicknamed "The Bumblebee" by AD engineers, it is said to "defy the laws of physics." While its measurements might look unorthodox on paper, its real-world performance in car doors is legendary.

- **Thermal Management:** It features a unique dust cover—an aluminum ring glued directly to the 40mm voice coil former—which acts as a heat sink and fine-tunes the moving mass.
- **Performance:** Designed for professional installations, the MM6 offers a rich, tactile bass response that prioritizes musical "sensation" over mere laboratory numbers.

Handcrafted 3-Way





THE ART OF SOUND

The AD MM series isn't just about specifications: It is about the Italian "know-how" of turning aluminum, silk, and fiberglass into a vivid, breathing musical experience. For the audiophile who demands a wide front stage and natural timbre, the MM series is the gold standard of Italian high-fidelity.



MM8

MADE IN ITALY

Audiophiles High-End Woofer

Continuing the legacy of the prestigious "Bumblebee" MM6, the Audio Development (AD) MM8 represents the pinnacle of Italian-made low-frequency transducers. Designed for audiophiles who refuse to compromise between power and musicality, the MM8 is a high-end woofer that combines artisanal manufacturing with rigorous acoustic engineering.

Technical Excellence & Performance

The MM8 is engineered to move air with absolute precision. With a significant effective piston area of 227 cm² and a massive 20mm peak-to-peak excursion, this driver delivers authoritative, tactile bass that can be felt as much as heard.

- **The Powerhouse:** Rated at a Pmax of 200W, the MM8 utilizes a 3-ohm voice coil to maximize power extraction from high-quality amplifiers, ensuring the system remains effortless even during complex dynamic peaks.
- **Precision Tuning:** With a free-air resonance of 54.3 Hz and a Total Q of 0.56, this woofer is optimized for high-fidelity performance in automotive environments. It balances a controlled low-end extension with the "punch" required to bring drums and bass guitars to life.
- **Moving Mass & Control:** The 45g moving mass is perfectly balanced against a robust motor assembly, providing the necessary inertia for deep extension while maintaining the quick transient response AD is known for.

Acoustic Character

In line with the MM series philosophy, the MM8 is not just about raw output; it is about timbre. Following the design cues of its smaller siblings, it utilizes premium materials to ensure that low frequencies remain transparent and integrated with the midrange.

Whether installed in a custom enclosure or a heavily treated door, the MM8 acts as the foundation of an "Absolute Quality" 3-way system. It offers the rare ability to disappear into the soundstage, providing a rich, natural low-end foundation that complements the delicate highs of the MM1 and the open transparency of the MM4 midrange.

- **Control & Clarity:** By using a reverse rubber suspension and a ferrofluid-cooled Neodymium magnet, it achieves the open soundstage of a traditional dome tweeter but with significantly better control over unwanted dispersion.
- **Build:** Like its siblings, it features a proprietary basket machined from solid aluminum, ensuring zero resonance and absolute structural integrity.

Key Parameters

Resonance Frequency : 54.3 Hz

Mechanical Excursion : 20mm

Power Handling : 200W

Nominal Impedance : 3ohm

Total Q : 0.56

Audiophiles Woofer





ITALIAN CRAFTSMANSHIP

For the serious enthusiast, the AD M8 is more than a woofer—it is the expression of Italian acoustic "know-how," designed to transform the car's interior into a world-class listening room.



MM8NEO



Audiophiles High-End Midbass

Forged from Italy rich legacy of acoustic artistry, Audio Development (AD) presents the MM8NEO—the quintessential midbass transducer for the high-end automotive audiophile. Crafted with uncompromising attention to detail, the MM8NEO is designed to deliver a rich, articulate, and authoritative performance across the critical lower-midrange and upper-bass spectrum. This isn't just about output; it's about transparency, resolution, and the seamless integration that is the hallmark of AD "know-how."

Technical Excellence & Performance

The MM8NEO is a technical tour-de-force, utilizing advanced materials and an optimized motor system to rewrite the expectations for midbass performance. It is engineered to perform effortlessly, whether anchoring a 3-way system or providing robust midbass in a high-resolution 2-way configuration.

- **Neodymium Power & Precision:** As indicated by the "NEO" in its name, this driver harnesses the power of a potent Neodymium magnet motor assembly. This choice delivers exceptional magnetic field strength within a compact footprint, resulting in a driver with remarkable transient speed and efficiency, combined with reduced weight.
- **The Pursuit of Resolution:** AD utilizes specialized cone materials (referenced as "reverse dome fiberglass" in related MM line drivers) to minimize cone breakup and unwanted coloration. The results are evident in the parameters: a perfectly balanced moving mass of 34.45g allows the driver to respond instantaneously to complex musical signals.
- **Optimal Tuning for the Car:** The MM8NEO features a Total Q of 0.72 and a free-air resonance of 49.0 Hz. This precise tuning makes it exceptionally versatile. It is optimized to perform flawlessly in a heavily treated car door environment, delivering a controlled and punchy low-end response (Fs is notably low for a midbass) while maintaining high articulation and a warm, natural character in the critical lower vocal ranges.

Key Parameters

Resonance Frequency : 49.0 Hz

Mechanical Excursion : 18.00 mm (peak-to-peak)

Motor Strength : 6.80 N/A

Equivalent Volume : 21.90 Liters

Total Q : 0.72

Effective Piston Area : 227.00 cm²

Moving Mass : 34.45 g

Power Handling : 140W

Nominal Impedance : 4.30ohm

Audiophiles Midbass





ITALIAN PRECISION IN MOTION

The MMBNEO is designed to deliver a rich, articulate, and authoritative performance across the critical lower-midrange and upper-bass spectrum. This isn't just about output; it's about transparency, resolution, and the seamless integration that is the hallmark of AD "know-how."

MM8.2SUB

Audiophiles High-End Subwoofer

Italy Audio Development (AD) has forged a reputation as an acoustic artisan, dedicating itself to handcrafting loudspeakers that prioritize sonic purity over mass production. Within their high-end MM line—renowned for component systems that blend seamlessly, like parts of a singular musical instrument—the MM8.2SUB represents the pinnacle of compact low-frequency refinement. This is not just a subwoofer; it is a meticulously engineered transducer designed to vanish into the soundstage while providing a flawless, emotive foundation for high-fidelity audio.

Engineering Precision:

The MM8.2SUB is a testament to calculated performance. It is designed to deliver authoritative, visceral bass from a relatively compact form factor, making it ideal for sophisticated automotive installations where space is premium but compromise is unacceptable.

- **Massive Excursion, Controlled Power:** With a striking of 30mm, this driver has the mechanical displacement to move substantial amounts of air. This translates into tactile, effortless low-end output that remains linear even at its limits. This capability is harnessed by a power handling rating of 300W, ensuring robust dynamics without strain.
- **Deep Extension and Efficiency:** The incredibly low free-air resonance of 38.5 Hz allows the MM8.2SUB to reach deep into the sub-bass territory, capturing the gravitas of a pipe organ or the visceral impact of an electronic kick drum. With a specific effective piston area of 254 cm², it maximizes acoustic coupling within its footprint.
- **Optimized Qts:** The total quality factor of 0.53 indicates a driver that is perfectly balanced. It offers the tight transient response necessary for critical listening—reproducing bass notes with precise articulation—while retaining the mathematical efficiency required to excel in sealed or small, vented enclosures.

Key Technical Specifications

Resonance Frequency : 38.5 Hz

Mechanical Excursion : 30mm

Power Handling : 300W

Equivalent Volume : 19.90 Liters

Total Q : 0.53

Effective Piston Area : 254.00 cm²

DC Resistance : 2.70 ohm

Audiophiles Subwoofer





ITALIAN SONIC MASTERPIECE

Whether performing as the cornerstone of an AD MM series 3-way system or augmenting a high-resolution front stage, the MMB.2SUB offers the rare gift of total acoustic integration. It provides a tacite, transparent, and effortlessly deep low-end foundation that complements, rather than overwhelms, the subtle details of the midrange and highs. For the audiophile seeking the standard of Italian luxury in low-frequency reproduction, the MMB.2SUB is an irreplaceable component.

MM12.2SUB

Audiophiles High-End Subwoofer

Italy Audio Development (AD) has established itself as an acoustic artisan, dedicated to crafting loudspeakers that combine emotional musicality with rigid engineering. Within their flagship MM series—famous for its component systems that blend seamlessly—the MM12.2SUB stands as the ultimate low-frequency transducer. This 12-inch subwoofer is a statement of intent, designed for audiophiles who demand deep, tactile bass without compromising the transparency and resolution that AD is known for.

Audiophiles Subwoofer

The Engineering Philosophy of Power and Control

The MM12.2SUB is not just a high-output driver; it is a meticulously calculated component tuned for optimal integration into a high-end system. The technical parameters reveal a subwoofer designed to handle demanding low frequencies while maintaining exceptional linearity.

- **Massive Displacement, Effortless Extension:** The sheer scale of the 510 cm² effective cone area allows this 12-inch driver to couple flawlessly with the listening environment. When combined with a 30mm peak-to-peak excursion, the MM12.2SUB can move significant amounts of air, reproducing the lowest octaves of an orchestra or the visceral impact of electronic bass with ease. The incredible free-air resonance of 30.7 Hz confirms its ability to provide deep, subsonic foundation.
- **The Pursuit of Articulation (Q Factor):** What sets the MM12.2SUB apart is its high Total Q factor of 0.54 and extremely high Mechanical Q of 8.82. This tuning approach indicates a driver that is physically substantial but electronically "loose," allowing it to perform flawlessly in heavily treated, large acoustic spaces (like a vehicle cabin). It provides the deep, satisfying decay sought in audiophile systems, while the high power handling and robust motor strength maintain the necessary control.
- **Advanced Materials and Integration:** Although specific cone materials vary within the MM Line (often fiberglass based), AD uses its "know-how" to ensure the MM12.2SUB remains transparent. Its parameters are perfectly optimized for a single driver configuration where its rich low-end character complements the delicate silk highs and open transparency of AD's smaller component speakers, like the MM1 and MM4.

Key Technical Specifications

Resonance Frequency : 30.7 Hz

Mechanical Excursion : 30mm (peak-to-peak)

Power Handling : 400W

Equivalent Volume : 46.70 Liters

Total Q : 0.54

Effective Piston Area : 510.00 cm²

DC Resistance : 2.20 ohm



ITALIAN BASS MASTERPIECE

The Audio Development MM12.2SUB is the embodiment of Italian sonic luxury. It combines brute force capability with a rare degree of articulation, allowing it to perform with the "hum" and "bumblebee" characteristic of the smaller MM series but on a grander, foundational scale. For the audiophile building an uncompromising system, the MM12.2SUB is an irreplaceable component for high-resolution, emotionally engaging bass.





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