

Soft Dome Tweeter Esotec MD 102

The Dynaudio Esotec mobile loudspeakers follow in the long-standing tradition of the company's renowned home audio driver designs.

The new Esotec MD 102 tweeter is a soft-dome design as characteristic of Dynaudio. The fine soft dome features a special coating to facilitate an extended high frequency response free of distortion. The compact, shallow depth MD 102 tweeter features a 28 mm (1.1 inch) diameter surface area that is approximately 60% greater than that of conventional car audio tweeters. The optimized dome geometry provides greatly improved dispersion characteristics, enabling the MD 102 tweeter to offer exceptional performance even when mounted off of the listening axis. The dome coating serves to eliminate any high frequency break-ups, while providing improved damping. To eliminate high frequency distortions caused by reflections from inside the structure, the MD 102 tweeter rear chamber is also sealed and acoustically damped to eliminate high frequency distortion, which could be caused by back-wave reflections, while ferrofluid cooling adds damping and additional power handling.

The extremely smooth and incredibly detailed high frequency reproduction characteristic of the Dynaudio sound is ensured by the all-new Esotec soft-dome tweeter, which features the latest Dynaudio technological innovations. For the most authentic high-frequency reproduction – powerful Neodymium – one of the most efficient but also most expensive magnetic materials for loudspeaker construction is used in the tweeter magnet systems.

The soft-dome tweeter design topology allows unrestricted dynamics and a linear frequency response with extremely low distortion. The MD 102 features an aluminum voice coil, another Dynaudio hallmark, which has been updated and improved via an increased coil height with additional windings to allow an increased range of linear excursion within the magnetic field. Furthermore, as a result of the low moving mass of the new voice coil, a higher maximum output level and increased dynamics are achieved, while the frequency range has been expanded, thus allowing a better integration with the upper midrange frequencies to deliver a more natural sound with an open and detailed, and incredibly transparent reproduction of the high frequencies.

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