

ME 180

musikelectronic geithain



STUDIO MONITORING SYSTEMS

HIGHEND LOUDSPEAKER

SOUND REINFORCEMENT SYSTEMS



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The ME180 extends Musikelectronic Geithain's product range of passive high-end loudspeakers. The 3-way concept comprises two highly efficient 10-inch woofer systems and a tweeter array of three vertically arranged 1-inch dome tweeters. Through this combination a sensitivity of 90dB is achieved without wave guides. In connection with the linearized impedance the ME180 is also the perfect partner to tube amplifiers. Power compression and non-linear distortions are therefore very low, even in fortissimo passages. The directivity of the system has been optimized to listening distances between three and six metres (9'10" and 19'8"), providing a natural sound pattern in stereo and multi-channel operation. The vented cabinet, designed to deliver optimal transient fidelity, ensures a precise and dry bass reproduction down to a roll-off frequency of 35Hz. It is possible to close the cabinet's vent and thereby prevent excessive increase in the bass range when positioned near walls.

Frequently used wave guides in front of tweeter systems make directivity control easy; however they tend to produce unavoidable colorations caused by short-time reflections at the inner horn surface. Musikelectronic Geithain breaks the mould by using a tweeter array, doing without horn attachments for sound level boost. The tweeter unit that is arranged coaxially in front of the midrange system guarantees the trademark low coloration rendition of music and speech and creates the sound event closeness desired by the listener.

The ME180 is adjustable to the acoustic conditions in the listening room. Especially in modern living rooms with longer reverberation time in the midrange an increase of the acoustic power in the presence range is possible as well as an attenuation at 200Hz.

Summing up all the constructive measures, the ME180 achieves seamless sound compatibility with all other products made in the Geithain manufacture. The high timbral neutrality, excellent spatial performance and depth arrangement, together with fatigue-free monitoring of even most complex sound events are typical ME Geithain characteristics of this loudspeaker.

This loudspeaker will harmonize perfectly with your listening room due to its attractive design and the large variety of different wood veneers or high-gloss or semi-gloss varnish surfaces.



SPECIFICATIONS



GENERAL	Passive high-end coaxial loudspeaker for listening distances between 3 m (9'10") and 6 m (19'8")
PRINCIPLE OF CONSTRUCTION	Coaxial 3-way system in vented and closed cabinet
MAXIMUM SPL	118 dB peak / r = 1 m (3'3") (4 π)
BANDWIDTH	35 Hz ... 20 kHz \pm 3 dB
ADJUSTMENTS	200 Hz -3 dB via gold-plated jumper 3 kHz +2 dB via gold-plated jumper
SENSITIVITY	190 dB / r = 1 m (3'3")
DIRECTIVITY INDEX FROM 100 Hz ... 10 kHz	increasing from 2 dB to 13 dB
TOTAL HARMONIC DISTORTION MEASURED AT 96 dB _{SPL} / r = 1 m (3'3") FROM 100 Hz ... 10 kHz	\leq -44 dB
IMPEDANCE	4 Ω (impedance linearized)
ELECTRONIC CROSSOVER FREQUENCIES	300 Hz und 2 kHz
NOMINAL POWER HANDLING	200 W
MAXIMUM POWER HANDLING	500 W peak
RECOMMENDED AMPLIFIER OUTPUT POWER	50 W ... 500 W peak
INPUT CONNECTOR	bi-wiring, gold-plated binding posts 4-mm banana jacks
DRIVE UNITS	
WOOFER	1x 260 mm (10") cone
MID-RANGE UNIT	1x 260 mm (10") cone
TWEETER	3x 25 mm (1") dome
ENVIRONMENTAL CONDITIONS	
FOR USE	+15 °C ... +35 °C (+59 °F ... +95 °F)
FOR STORAGE	-25 °C ... +45 °C (-13 °F ... +113 °F)
HUMIDITY	45% ... 75%
DIMENSIONS (H x W x D)	1,165 mm x 357 mm x 419 mm (45.9" x 14.1" x 16.5")
WEIGHT	53 kg (116.9 lbs)
DESIGN OF THE CABINET	MDF wood in ash black veneered; different veneers and colours on request

