

STUDIO MONITORING SYSTEMS

HIGHEND LOUDSPEAKER

SOUND REINFORCEMENT SYSTEMS



## **ME 180**

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 90 dB 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 35 Hz. 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 200 Hz.

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** 

PRINCIPLE OF CONSTRUCTION

MAXIMUM SPL

BANDWIDTH

**ADJUSTMENTS** 

SENSITIVITY

DIRECTIVITY INDEX

FROM 100 Hz ... 10 kHz

TOTAL HARMONIC DISTORTION

MEASURED AT  $96 \, dB_{spl}$  /  $r = 1 \, m (3'3'')$ FROM 100 Hz ... 10 kHz

**IMPEDANCE** 

**ELECTRONIC CROSSOVER FREQUENCIES** 

NOMINAL POWER HANDLING

MAXIMUM POWER HANDLING

RECOMMENDED AMPLIFIER OUTPUT POWER

INPUT CONNECTOR

DRIVE UNITS **WOOFER** 

MID-RANGE UNIT

**TWEETER** 

**ENVIRONMENTAL CONDITIONS** 

FOR USE

FOR STORAGE

**HUMIDITY** 

DIMENSIONS ( $H \times W \times D$ )

WEIGHT

**DESIGN OF THE CABINET** 

Passive high-end coaxial loudspeaker for listening distances

between 3 m (9'10") and 6 m (19'8")

Coaxial 3-way system in vented and closed cabinet

 $118 dB peak / r = 1 m (3'3") (4 \pi)$ 

35 Hz ... 20 kHz ±3dB

200 Hz - 3 dB via gold-plated jumper

3kHz +2dB via gold-plated jumper

 $190 \, dB / r = 1 \, m \, (3'3'')$ 

increasing from 2dB to 13dB

≤-44dB

 $4\Omega$  (impedance linearized)

300 Hz und 2 kHz

200 W

500 W peak

50 W ... 500 W peak

bi-wiring, gold-plated binding posts

4-mm banana jacks

1x 260 mm (10") cone

1x 260 mm (10") cone

3x 25 mm (1") dome

+15°C ... +35°C (+59°F ... +95°F)

-25°C ... +45°C (-13°F ... +113°F)

45% ... 75%

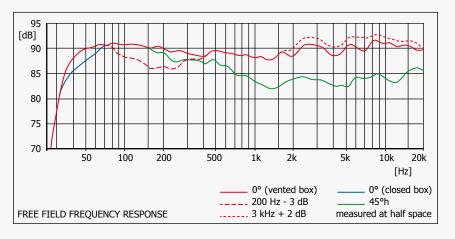
 $1,165 \,\mathrm{mm} \times 357 \,\mathrm{mm} \times 419 \,\mathrm{mm} \,(45.9'' \times 14.1'' \times 16.5'')$ 

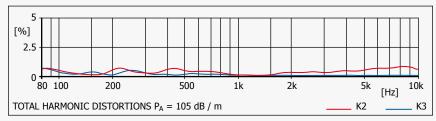
53 kg (116.9 lbs)

MDF wood in ash black veneered;

different veneers and colours on request

## **Acoustic diagrams**







Nikolaistraße 7 04643 Geithain / Germany

Tel: +49 (0) 34341 3110 Fax: +49 (0) 34341 31144

E-Mail: info@me-geithain.de

www.me-geithain.de

