



Instructions for installation and use

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INTRODUCTION

1 Introduction

Dear customer,

Thank you for the trust you have put in us by buying these speakers. You decided upon a quality product that in regard to tonal and technical characteristics complies to the utmost expectations.

The usual burn-in period is not required, because the speakers are artificially aged in-house.

Please read the technical description and manual to take advantage of the capabilities of these speakers and ensure safe operation.

DISCLAIMER

2 Disclaimer

Technical data and appearances are subject to changes without notice. Errors and omissions excepted. Musikelectronic Geithain GmbH assumes no liability for any loss which may be suffered by any person who relies either wholly or in part upon any description, photograph or statement contained herein. Musikelectronic Geithain GmbH products are sold through authorized fulfillers and resellers only. Fulfillers and resellers are not agents of Musikelectronic Geithain GmbH and have absolutely no authority to bind Musikelectronic Geithain GmbH by any express or implied undertaking or representation. This manual is copyrighted. No part of this manual may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or by any information storage or retrieval system without the prior written permission of Musikelectronic Geithain GmbH.

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SYSTEM DESCRIPTION

3 System description

The ME110 passive 3-way coaxial speaker is the smallest floorstanding loudspeaker in our ME series. Its two 5-inch cone woofers, which reproduce the low and mid frequencies, satisfying with excellent linearity. They are fitted into a vented cabinet with a downward-radiating port. This design simplifies the positioning of the loudspeakers for achieving optimal low-frequency reproduction in your listening room. An 1-inch dome serves as tweeter unit, located coaxially in front of the upper bass-midrange system. The particular radiation characteristics, in connection with the coaxial arrangement, allow a homogenous and natural sound pattern for a base width between 1.5 m (4'11") and 3 m (9'10"). The ME110 floorstanding loudspeaker can be complemented with our BASIS11K subwoofer.

The general concept of the passive 3-way coaxial loudspeaker ME110 is characterized by its well-balanced and low-distortion sound pattern and its dynamic qualities.

BASIC INFORMATION

4 Basic information

4.1 Guidelines

This product complies to requirements of current European and national guidelines (2004/108/EG Electromagnetical Compatibility). The conformity is ascertained, corresponding declarations and records are deposited with the manufacturer.



Products built by us belong to B2C-class of the WEEE guidelines and must not be disposed with domestic waste.

4.2 Safety instructions

Like using any other electrical device you should observe the following operation guidelines, safety instructions and warning signs to ensure optimum functionality and safety of operation!

- Read these instructions carefully.
- Keep these instructions during the life cycle at a safe place. The instructions are an important part of the product.
- Heed all warnings. Follow all instructions.
- ◀ The product may only be used in accordance with the information provided in the user manual. Before and during the usage of the amplifier please ensure that all recommendations, especially the safety recommendations in the user manual, are adhered to.
- Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury, and damage to the product.
- Do not expose the device to direct sun radiation.
- Do not install the device in rooms with high humidity.
- Do not try to insert anything into device openings.
- The device shall not be exposed to dripping or splashing and no objects filled with liquids shall be placed on the device.
- ◀ Clean only with dry or slightly moistened cloth.
- Refer all servicing to qualified service personnel.

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4.3 Unboxing

The speakers are shipped in proper condition. Unpack the speaker carefully and check for visible damages. In case of damages report them to your retailer. Keep the packaging, in case the speaker has to be transported in the future.

4.4 Delivery contents

- Speaker ME110
- Bi-wiring cable jumpers
- Technical description and user manual

4.5 Cleaning

The speaker is made of real wood veneer and needs to be nurtured in the same way as furnishings. We advise quality wax polish to ensure durability of the veneer. Surfaces can also be cleaned with tidy, slightly damped, fuzz-free, smooth cloth.

4.6 Environmental conditions

Ensure the following environmental conditions in your listening room:

◆ Operating temperature +15°C ... +35°C (+59°F ... +95°F)

◆ Storage temperature range -25°C ... +45°C (-13°F ... +113°F)

■ Relative humidity 45% ... 75%

4.7 Guarantee acknowledgements

Opening the device by unauthorized personnel leads to all claims under guarantee expire. In case of destruction by overload, misuse or outside influences there are no claims under guarantee.

POSITIONING

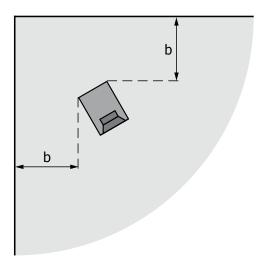
5 Positioning

Our speakers do not impose special requirements neither in stereo nor in multichannel set-ups. Nonetheless speaker positioning has influence on listening impression because every room is individually designed and furnished. The following advices are just guidelines that ease proper positioning. In addition we offer a measurement service to take advantage of the capabilities of your listening environment.

5.1 Positioning near walls

When speakers are installed near walls sound quality is physically affected. Every customary speaker behaves as a punctual sonic source in the low frequency range, with sonic waves spherical radiated without any constructional measures. Back wall reflections are unavoidable.

For optimum listening experience a minimum distance of 50 cm (19.7") to walls and furniture should be ensured. Avoid corner installations because unwanted bass accentuation could arise.



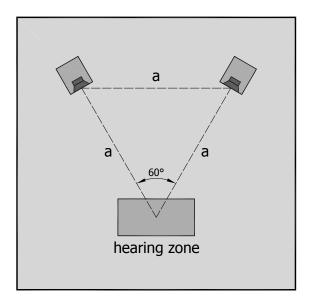
■ Minimum distance to wall

 $b \ge 50 \, \text{cm} (19.7'')$

POSITIONING 7

5.2 Stereo operation

The optimum position of the speakers in your listening environment is the so-called stereo triangle (see figure). The base distance between the speakers and the distance to the hearing zone form an equilateral triangle (stereo triangle). A distance less than 1.5 m (4'11") or more than 3 m (9'10") should be avoided. For precise, spacial reproduction turn the speakers inside, directed to the hearing zone.

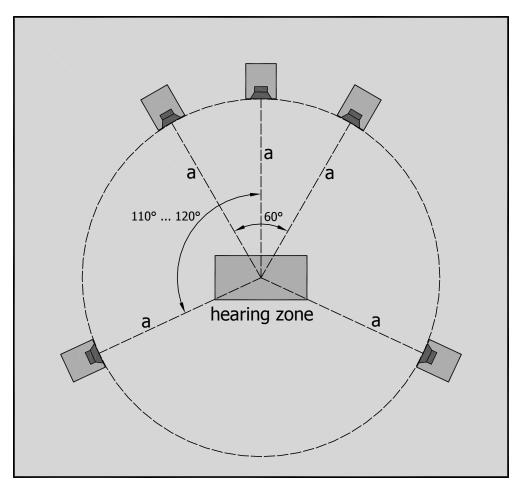


- **◆** Distance between speakers and your listening position $a = 1.5 \text{ m} \dots 3 \text{ m} (4'11'' \dots 9'10'')$
- Adjust the speaker horizontally to the height of the ear at the listening position

POSITIONING

5.3 Surround operation

In surround operation the stereo triangle (see Stereo operation) is extended to a circle. The hearing zone is the centre of this circle. Position all speakers in the same distance to the hearing zone. The centre speaker is positioned in the middle between both front speakers. Pay attention to positioning the front and rear speakers horizontally along one plane. The angle between centre and rear speakers should be about $110^{\circ}-120^{\circ}$.



▶ Distance between speakers and your listening position $a = 1.5 \, \text{m} \dots 3 \, \text{m} (4'11'' \dots 9'10'')$ In case installation in the prescribed way is not possible in your listening room most decoding devices allow adjustments of single speakers.

6 Connecting the speakers

Our passive speakers are no difficult load to common amplifiers. An amplifier power of $80\,W$... $120\,W$ at $4\,\Omega$ is suggested. Due to the linearized impedance the operation with tube amplifiers is possible without difficulties. Your authorized ME Geithain dealer will gladly provide you with professional advice.

6.1 Single-wiring connection

When connecting the speakers to an integrated amplifier or a power stage check the connection for the right polarity. The gold-plated screwed joints of the terminal are labelled with + and a -. Both mustn't be interchanged. Do not remove the bridges between the high and low frequency terminals.

6.2 Bi-wiring connection

In this case the high and low frequency crossovers are separately connected to your integrated amplifier or power stage. Remove the bridges between the high and low frequency terminals before connecting the speakers to the amplifier. Check the connection for the right polarity. The gold-plated screwed joints are labelled with a + and a – and mustn't be interchanged.

SPECIFICATIONS 10

7 Specifications

General Passive high-end floorstanding loudspeaker for listening distances be-

tween 1.5m (4'11") and 3m (9'10")

Principle of construction Coaxial 3-way system in vented cabinet

Maximum SPL $110 dB peak / r = 1 m (3'3'') (4\pi)$

Bandwidth $45 \text{ Hz} \dots 20 \text{ kHz} \pm 3 \text{ dB}$ Sensitivity 85 dB / r = 1 m (3'3'')

Directivity index

from 200 Hz ... 10 kHz increasing from 3 dB to 11 dB

Total harmonic distortion

measured at $96 \, dB_{SPL} / r = 1 \, m (3'3'')$

from 100 Hz ... 10 kHz \leq -40 dB Impedance 4Ω

Electronic crossover frequencies 300 Hz and 2.2 kHz

Nominal power handling 80 W Maximum power handling 120 W

Recommended amplifier output power 80 W ... 120 W

Input connector bi-wiring, gold-plated binding posts

Drive units

Woofer $1 \times 130 \, \text{mm}$ (5") cone Mid-range unit $1 \times 130 \, \text{mm}$ (5") cone Tweeter $1 \times 25 \, \text{mm}$ (1") dome

Environmental conditions

for use $+15\,^{\circ}\text{C} \dots +35\,^{\circ}\text{C} \ (+59\,^{\circ}\text{F} \dots +95\,^{\circ}\text{F})$ for storage $-25\,^{\circ}\text{C} \dots +45\,^{\circ}\text{C} \ (-13\,^{\circ}\text{F} \dots +113\,^{\circ}\text{F})$

humidity 45% ... 75%

Dimensions

Loudspeaker (H × W × D) 955 mm × 205 mm × 245 mm (37.6" × 8.1" × 9.7")

Base (W × D) $250 \text{ mm} \times 290 \text{ mm} (9.9'' \times 11.5'')$

Weight 18 kg (39.7 lbs)

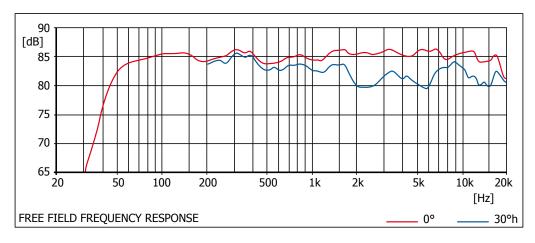
Design of the cabinet MDF wood in ash black veneered; different veneers and colours on

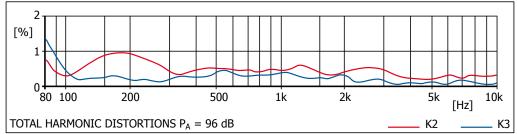
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ACOUSTIC MEASUREMENTS 11

8 Acoustic measurements

All acoustic measurements are carried out under anechoic conditions with 1 m (3'3") distance.





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9 Notes

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