

Speaker „Secundo“

Dynamic – Balanced – Unbelievably free



Product overview of the *mfe* loudspeaker Secundo

‘Particularly impressive was the enormous playback dynamics, despite the considerably difficult space in this aspect’ (Anselm Goertz)

This speaker is dynamic, balanced and sounds incredibly free! It's fun to re-discover 'old' discs!

The *mfe* Secundo is equipped with professional components. Despite its rather small housing, the directly emitting surface is relatively large due to the use of a special 12" bass driver in combination with an excellent midrange driver with a large ribbon tweeter. This constellation offers unique listening pleasure!

The use of our select **12" bass driver** (600W nominal power, 96dB/1W/1m) with **medium-hard diaphragm suspension** allows the construction as a 3-way combination in a **bass reflex enclosure**.

The setup is not critical!

If necessary, the reflex openings can be damped.

Our heavy duty speaker system is already working well with low power amplifiers.

Naturally, the speaker system also performs very well with larger amplifiers, easily delivering concert level volume, if required..



Views and model variations of *mfe* speaker Secundo



Connector panel
on the back

Upon customer request, we deliver the *mfe* Secundo in the best piano finish (e.g. high gloss black) or in precious wood veneer. The scope of delivery also includes a matching front cover, which is attached magnetically.

The history of the speaker *mfe* Secundo

The loudspeakers were developed in collaboration with Michael Franken and Joachim Schneider, primarily to optimally demonstrate *mfe* amplifiers.

There were high requirements in the specification sheet, some of which were also supposed to be mutually exclusive. It wasn't supposed to be just any speaker, but THE ultimate loudspeaker!

Our requirements on the loudspeaker in detail:

- Suitable for any kind of music
- High level stability
- Low harmonic distortion
- Low lower limit frequency
- Good efficiency
- Can be integrated in a normal living room from ~ 12m²

This task turned out to be a challenge for Michael Franken and Joachim Schneider: Several well-known speaker chassis didn't make it past the testing phase; coupling capacitors in the switch turned out to be audible and were selected based on tonal aspects. Good measurement readings often did not reflect satisfactory audio results. It took many sessions to get to the final version.

The great result finally led to the decision to include the loudspeaker in the *mfe* portfolio. The first production model was successfully presented at the West German HiFi Days in October 2014, where it was presented complete with *mfe* tube electronics (preamplifier Tube One SE, mono amplifiers TA 300 SE) and cables incl. power conditioner P16C. The response of the visitors was consistently positive.

Finally, it can be said that the massive effort paid off. This is evident in the sound result and the measured values. We are not aware of any other hi-fi speaker on the market that goes down to a 'cutoff frequency' of 33 Hz and at the same time can produce a level of 118 dB at nominal power. The efficiency of about 90 dB allows operation with small amplifiers, even the in-house 845 (2 x 17 watts) sounds surprisingly great.

P.S.:

The 'official' measurement reading incl. report by Prof. Anselm Goertz (TH Aachen) and the sound description by Cai Brockmann (Fidelity) can be found on our website www.mfe.technology.

**Want to know more?
Simply give us a call!
Tel.: +49 (0) 24 34 20867**

Equipment features and technical specifications of *mfe* Secundo:

- Weight: 58kg
- Nominal impedance: 8 Ω
- Frequency response: 33Hz - 40KHz
- Amplifier recommendation: from ~ 15 W (8 Ω)
- Rated power: 600 W
- Sound pressure at nominal load: 118dB
- System: 3-way bass reflex system, 2 reflex tubes with exponential space coupling
- Housing material: Multiplex (front panel thickness 50 mm)
- Housing construction: low-resonance, braced and optimally damped
- Dimensions (HxWxD): 1070 x 340 x 385 mm
- Inputs: Neutrik Speakon and universal terminals
- Mounting:
 - 1 Small volume high frequencies
 - 12" Bass
 - 6.5" midrange
 - rear tweeter for room adjustment, 2-stage switchable
- Surfaces: veneered and/or painted according to customer requirements

Developers:

Dipl.-Ing. Joachim Schneider
Dipl.-Ing. Michael Franken

Warranty

The warranty period lasts 5 years

Technical changes and errors reserved!



Development - Production - Service

Tube Electronics • Speaker • Digital Converter • Power Line Filter Technology
High-End Accessoires • Special Components • Repairs • Modifications

Special designs of all kinds