

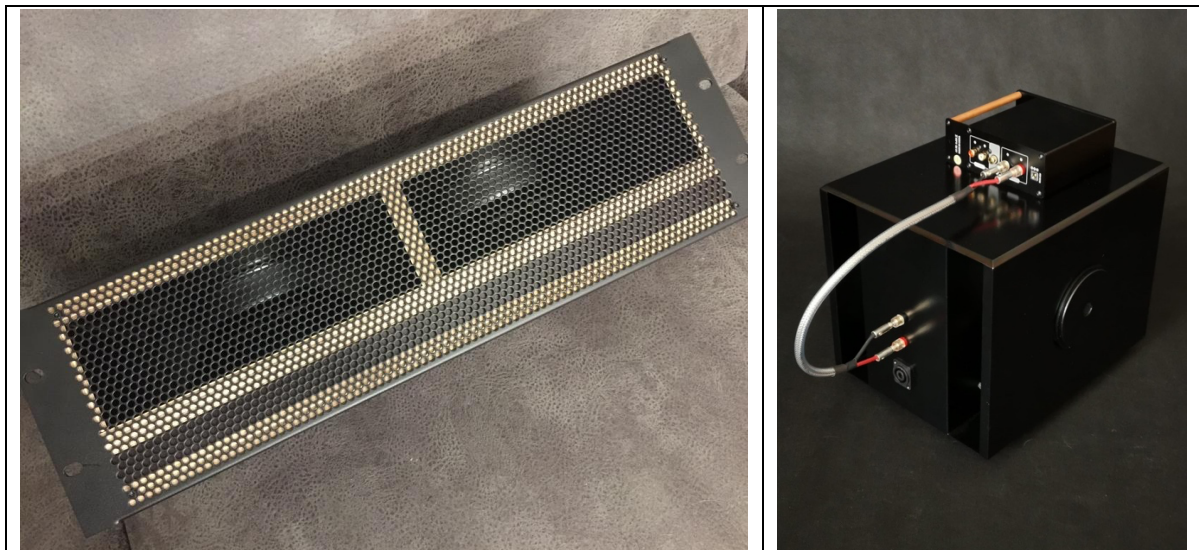
nearfield dipole bass modules

in reproducing acoustic signals within a room, the bass range is the most difficult to handle. from 20 to 200 hz there is a combination of room modes and phase cancelling effects that make an objective bass response impossible. this dilemma is well known amongst audio experts.

one might try to minimize these problems through acoustic modifications or by placing the speakers into the wall. in reality, common monopole bass concepts will always stimulate room modes and the bass response will get messy in most parts of the room. this is the nature of physics.

the dipole principle is known to avoid the problems by using cancelling effects in a specific way. the front and rear side of a speaker membrane affect the room with a phase shift of 180 degrees and only fill the areas directly in front of the speaker, as well as the rear side, which makes a certain distance to the rear wall necessary (50 cm is enough).

the result is a quick bass with a perfect linearity and very few negative effects within the room. we specialize in near and midfield dipole bass modules and offer options with 8, 10 and 15 inch speakers, that are suitable for certain dipole constructions. they need power amplification and a dsp, which is provided by our recommended manufacturers. please don't hesitate to get in touch if you have any further questions.



michael herrmann | frequenzgarten.com | milchberg 13 | 86150 augsburg

2r2n@gmx.de | 015738807065