



Tönende pizza box

With ten liters of volume, powerful and high-quality sound in a studio or living room? The German newcomer GGNTKT raises this claim with its compact

The active box Model M1 S.

Michael Lang

Early 2020. As it turned out shortly afterwards, the last time I was at the Hamburg, North German HiFi Days HiFi fair on German soil. Under stand out from the large number of exhibitors want is a tough nut to crack. But with Roland Schäfer and the sounds of his loudspeakers with the dimensions of a “pizza box” – like him fuller

Self-mockery admits - and that first seemingly unpronounceable name GGNTKT, there is a crowd, although no one knows the company. There seems to be something going on that you should pay attention to, especially as a professional visitor.

A few minutes later I managed to get a decent seat in the screening room and I'm as pleasantly surprised as one can be given the adverse conditions at the trade fair. The subsequent friendly and informative conversation with the company owner then leaves the wish arise to deal intensively with these loudspeakers.

Between the hopefully weaker who dending waves of the corona virus it now has finally worked out that company founder and Owner Roland Schäfer visit us and

explain his creations to us in detail could, including the reduced but obvious naming. If you just put two E flats and an A between the consonants ten, you have solved the riddle and end up at GENTAKT.

Although, strictly speaking, he is only the spiritus rector, i.e. the intellectual originator of the box, because he left the development of his ideas for a pioneering loudspeaker to a team of internationally recognized specialists, including the acoustics researcher Professor Anselm Götz from Aachen.

Active loudspeakers – rethought

The result is a newly conceived and elaborately manufactured active loudspeaker whose wide, rounded housing, CNC-manufactured in southern Germany, is made of the extremely low-vibration material Val

chromatic and in connection with the opposite and anti-phase arrangement of the woofers, the inherent movements of the only 14 centimeter deep housing are reduced by a factor of ten puts. In connection with the adjustable radiation characteristics of the bass, it is also possible to set it up very close to the wall. The entire interior of the housing is dampened with the material Basotect, which is also often used in room acoustics and is milled from solid for the GGNTKT.



Elaborate housing construction with two anti-phase working 17er woofers

The tweeters that at GGNTKT first select animal and then paired are from Celestion, a subsidiary of GP, which, apart from batteries and rechargeable batteries also makes speakers. The idea for the tweeter was to use a compression driver and a horn attachment created using a five-axis milling machine to achieve a broad and even dispersion of 100° horizontally and 100 degrees vertically. With its 44 millimeter titanium membrane and an extremely large voice coil as well as the extensive use of neodymium, it managed to achieve extremely low distortion and a peak sound pressure level of around 115 decibels with a sensitivity of 105 dB.

Also the three in the closed case The working woofers come from a good family, from SD-Acoustics, a company that is backed by former Scan Speak employees. With 17 centimeters rather small, they take care of threefold Presence, a linear stroke of a whopping eleven millimeters and their coated and Alumem reinforced at critical points branen for casually taking on a single 25 bass chassis.

The two rear drivers, working with a minimal time delay using the DSP stop working beyond 240 Hertz. This

trick makes it possible to carry out targeted cancellations above 240 Hertz

and thus to change the radiation characteristics, for example for installation close to a wall, while the front woofer has to slave away up to 1.7 kHz, which is why we speak of a 2.5-way system here.

Integrated vs. separate The electronics are housed in a separate, passively cooled housing, in which six Pascal Class D amplifier modules from the last generation with a total of just under 500 watts of power and a high-performance SHARC processor, which controls the switch function and all



3 IN 1

Three channels in one cable and lockable Speakon connector

KEYWORD

Valchromat A

homogeneous, very stable wood powder mixed with resin that is significantly stiffer than MDF.



Very wide radiation
thanks to clever horn construction

already impressed here
wide stage and the precise
reproduction of individual sound
sources, but the upper bass range was clear
overly accentuated and obscured
therefore some important details
in many recordings.

So it soon became clear that we
Roland Schäfer on site visit
would ask to demonstrate
what his built with phase
neutral FIR filters
Active crossover and the switchable
Radiation characteristics among these
conditions can align.
To make it short: The Verän

adjustments accepted. Separate power
supplies for left, right and bass channels
and opulent buffering, particularly in the S
version we tested, ensure stable
performance under all conditions. "Made in
Germany" is what Manufak, based near
Bonn, means

Incidentally, this also includes the use of particularly
temperature-stable and long-lasting 105° electrolytic
capacitors - expensive, but good.

If you ask Roland Schäfer, for whom
from his point of view this is first of all close
field monitor speakers come into
question, he calls recording studios and an
Both optics and sound make high demands
People who sit no more than three
meters from the speaker and like to listen
to music in company - what through the
wide radiation of the Model 1 is easy.
At the same time, the radiation, which
is asymmetrical at the top and narrower
at the bottom, ensures that there are
virtually no drone effects.

How helpful the possibility of on-site
calibration can be (costs around 500 euros)
became apparent when we did not include
the GGNTKT in the first listening session
acoustically optimized publisher's
listening rooms, but in a normal, 40 square
meter living room. That is

Changing the radiation
characteristics in the bass resulted in a
badly thinned out, disembodied sound that
was not suitable for listening to music,
especially as any emotionality was
conspicuous by its absence. So the richly overemphasized
be deprived of excess energy; a task
that the shepherds completed with just
a few measurements and an acoustic
check in just under half an hour to the full
satisfaction of all those present
had done.

Studio vs. HiFi

Music could now be enjoyed as one
would expect from an excellent HiFi
loudspeaker, and at the same time the
GGNTKT managed to fully prove its
studio suitability

len. The famous silver platter on which
details were handed was now used
excessively. The transparency
was extraordinary, the bass on Walter
Wolfman Washington's "Nobody's Fault
But Mine" and his voice suddenly showed
the right mix between sonorous and
throaty that had previously been lost. The
bass sounded crisp and seemed fast and
agile, adapting seamlessly to the midrange.

TEST DEVICES

CD Player/DAC:
Wadia 8/Aavik D180,
Auralic Altair G2.1

Turntable:
Denon DP 59/Shure
Ultra 500

preamp:
T+A P 3100 HV,
Audio Research
Ref One, Funk Audio
technik MTX Monitor

Speaker:
Enjoy the DARC 100
Cable:
Funk, Stockfisch

A trumpet is also a challenge for every loudspeaker. If you hear Chet Baker with "But Not For Me", you know what "challenge" means. The sound drifts very easily in the direction of intense, but shrill. In contrast, Baker's vocals - tender, fragile, a little soft, a little raspy. The Model 1 is largely unscathed here, but does not gloss over the fact that the recording sounds intimate and sometimes harsh when the trumpet starts.

Joe Jackson, for decades a reliable supplier of sophisticated arrangements and melodies that are as unusual as they are catchy, delivers a rhythmic impulse firework with "ChaCha Loco" on "Body and Soul" that quickly loses its magic when the time references are blurred. Here the GGNTKT feels audible in their Element skilfully prances around every cliff and does not make lazy compromises in any frequency range, but rather surprises with finely balanced low-frequency components and is very natural in the center playback. What her developers her

also wrote in the family book, is a non-aggressive, but ruthless resolution in the high-frequency range.

Joan Armatrading's new album has a lot of qualities, also sonically, but the rendition of her voice remains a tightrope walk between "tolerable" and "a touch too much". The latter can be found again and again on "Consequences", and the GGNTKT makes no secret of it. But

unlike their classic passive ones

Competitors can follow this trend

fine-tune here if necessary and according to taste, even if this is at the expense of the truth.

challenge vs.

A walk A walk,

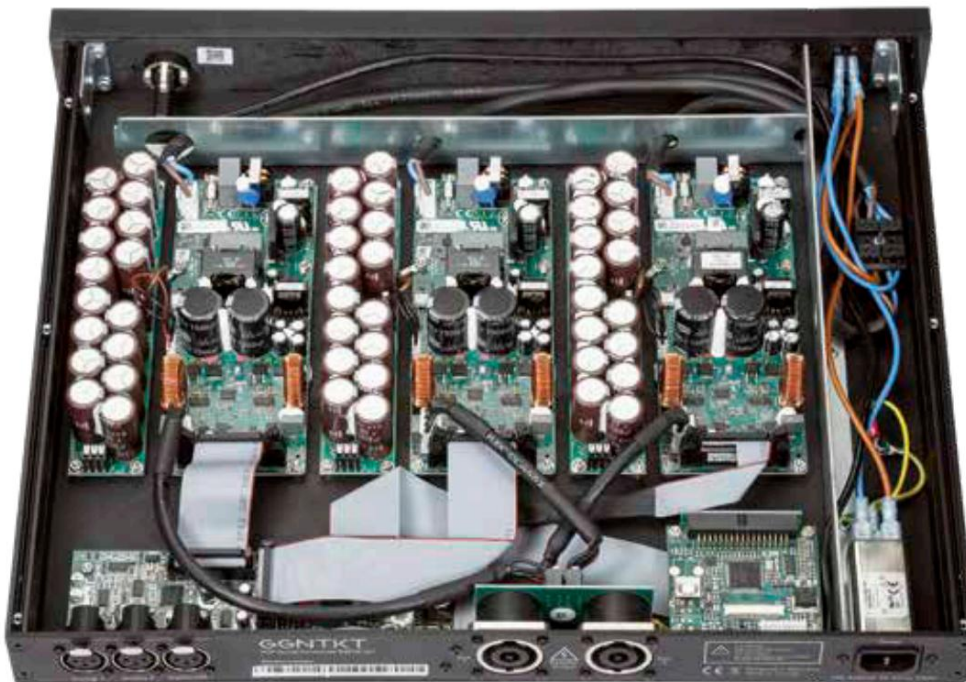
on the other hand, is Zappa's "Bobby Brown": outstandingly present without nerves, full of detail and with the ability to portray the spitefulness of the song, which was not played by radio stations in the USA because it was harmful to young people.

HAVE WITH IT WE HEARD

Joe Jackson:
Body and Soul



The odd Brit's 84 album is varied and original and was carefully produced in the recording studio. At least that applies to the LP mix.



Six amplifier sections, large capacitor bank, DSP and two mains filters



STANDFUSS

The stands are dampened at the base and top plate to suppress resonance.

Orchestras of all sizes are common
A stumbling block for boxes with the dimensions of the Model 1, because there is no volume to represent the opulence of the sound body.

We heard, among other things, Dvorák's sinfo never No. 9 under Ferenc Fricsay and enjoyed the openness with which the compact active box meticulously worked out the subtleties of the strings with the power the wind section and also the use of the entire orchestra was able to present it in a complex and full of pathos. The impression that the music here for their strength and therefore one most of their effect could be brought, did not appear for a second.

You can't help but pay Roland Schäfer and his team a big compliment. When you consider the regions in which passive two-way compact speakers are often found these days, which are increasingly being built in the Far East, and then look at what is being produced here in Germany, right down to the housing with exceptional manufacturing quality, one can only wish the young entrepreneur that committed dealers would contact him to show these gems and enter their demo room

to be measured. Almost certainly you will then find that the "pizza boxes" shine with sound properties that are not to be expected given the size or the price. \ddot{y}



The passively cooled housing is available in the color of your choice – complete with an engraved company name.

www.stereo.de

GGNTKT Model M1 S

Price: from €6950 (stand: €975/pair; paintwork available at extra cost; standard; in white & matt black)

Dimensions: 41 x 32 x 15 cm (WxHxD)

Guarantee: 2

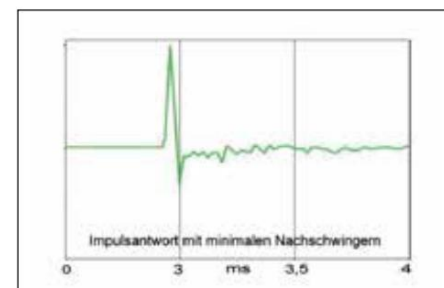
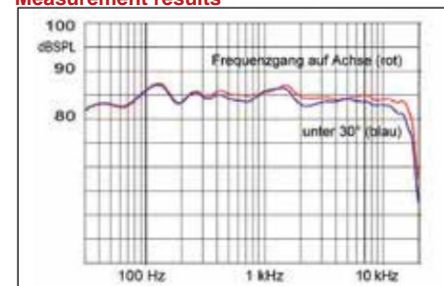
years Contact:

GGNTKT Tel.: +49 (0)22 25 -

99 89 689 www.ggntkt.de

Extremely compact and powerful 2.5-way active speaker with external electronics, DSP control and power amplifier. Hard to beat in terms of sound for size and price. Sound image neutral, fine resolution and deep. Can also be loud.

Measurement results



Kennschalldruck (2,83 V/m)	91 dB SPL
Lower cutoff frequency (-3dB SPL)	30 Hz
Distortion factor at 63/3k/10k	3/0,1/0,4 %
Hz power consumption. Stby/idle (at)	/24 W (226 Volt)

Labor Commentary



Frequency response already on the safe side before the calibration,

Impulse response good, distortion in the bass a little higher at high levels. Radiation behavior directed, but very broadband.

Features 2.5-way

active speaker in closed housing with external electronics; on space a measurable; Radiation characteristics can be changed electronically, eg when installed close to a wall; stands as accessories; Various paint finishes for an additional charge

STEREO -TEST

SOUND LEVEL 98%

PRICE/

yyyyy EXCELLENT