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MAGAZIN FÜR HIFI • HIGH

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BLU-RAY-SPIELER IM PRAXIS-CHECK

S.28

Ein Player für alle Gelegenheiten?

**Test Report Manger MSM s1**

NEUE SERIE TONSTUDIOS S.16

Hier entsteht magischer Klangzauber

ROTELS 15er S.40



Fortsetzung einer Erfolgsstory

ANALOG(E)R ANMACHE(R) S.72



Pro-Jects gelungene Evolution

LUXUS PUR S.10

Solutions Vollverstärker-Statement

REPORT: HYPE ODER KLANGGEWINN

**Alles über
HD-Musik
aus dem Netz** S.46

MESSLATTE HÖHER GELEGT

S.20

Audio Physics „große“ Classic

Seductive Radiation

Do you believe in love at first sight? Then beware: the Manger MSMs1 might enchant you on your first encounter

Many years ago I encountered the predecessor of the loudspeaker presented here, the legendary "Manger Diskus", in a Cologne HiFi store. As a young man I was pretty intrigued by the unusual looks and the striking ambient sound of the Diskus, but its restrictions in dynamics, bass range and a slight

tonal deviation from the optimum impaired the overall sound impression of this "UFO loudspeaker". In the following years I frequently came across the Manger Transducer – without the Diskus enclosure – in various loudspeakers. I remember quite well the "Medea" from Audio Physic, which accommodated even three of the plain discs per enclosure. The Medea undeniably exerted its fascination on many people, but unfortunately was afford-

able for owners of deep pockets only. Now about a decade has passed since I could take a closer look at a Manger loudspeaker. I remember that my ears had to adapt to the listening experience: It took me about 15 to 20 minutes until I got to like the sound permanently, especially in the midrange. I couldn't exactly tell where this impression came from, but I always seemed to detect a slight coloration caused by the synthetic disc. In addition the enclosure could be sensed as a distinct sound source. Since Daniela Manger took over the company in 1991 she made many efforts to optimize the advantages and minimize the drawbacks of the fullrange transducer.



With non-technical looks and a rather shallow enclosure the Manger loudspeaker cuts a good figure in living rooms as well.

Fine-Tuning

The 5th generation MSW went into production in the mid 90s. The sandwich construction of the membrane is manufactured under high pressure and high temperature. A ring on the membrane edge produces a **load impedance** which ensures that no undesired vibrations are propagating from the edge to the center – in this way the transducer, which theoretically could start operating at 80 Hz but sets in at 300 Hz, works as a point sound source. Due to the use of neodym magnets the entire system weighs only 1.2 kg. Efficiency, power handling capacity and frequency response have been improved over the years and were up-to-date as our measurements confirmed. Which brings us to Daniela Manger's favorite topic: response time. Her transducer is very fast and very precise indeed, as witnessed by the impulse response. And this is achieved without electronic DSP tricks, whose step response is only correct in one point of measurement anyway. Furthermore the company offers to update older Manger Transducers – very customer-friendly and against



That's how the Manger "Diskus" looked – pretty eye-catching even nowadays

Power Pack at its Best

After Daniela Manger had set up the loudspeakers meticulously, she encouraged us to choose whatever volume level we liked. Peers, who were not involved in the listening session, were pretty bewildered when they opened the door of the listening room and caught us enjoying R.E.M. and Patti Smith at almost deafening volume levels. But we were

KEYWORDS

mechanical load impedance: composed of mass, spring rigidity and frictional losses – analogous to inductance, capacitance, and ohmic resistance.

more interested in the spatial imaging and the integrity of the sound stage than in maximum sound pressure. Grand pianos in various recording environments, from Keith Jarrett's "Köln Concert" to Martin Vatter, could be clearly distinguished. The instruments stayed sharply

contoured and the ambient room was illuminated in every detail. A big role in this performance played the low-reaching, crisp and virtually distortion-free bass, which did a very dedicated and precise job without any time delay. The harmony singing of the Weavers turned out to be a real treat too. Finally Johnny Cash's version of "One" dispelled any doubts as to the neutral, authentic tuning of the MSMs1. The voice was clear-cut, the mixture of bitterness and despair was touching and made it clear that this Manger is a real gem as far as looks, sound, value and price/performance ratio is concerned.

the trends of our throwaway society. The power amplifiers use bipolar transistors and provide plenty of output power – during the entire test we could not make the clipping lamp flicker. And we didn't listen at low volumes...



The discreet amplifiers provide more than 400 watts. Filter settings for bass, mids, and highs as well as switches for sensitivity, phase, and high-pass filter are accessible from the outside (li.)

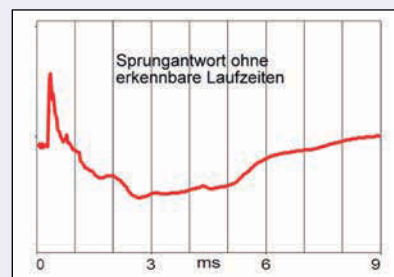
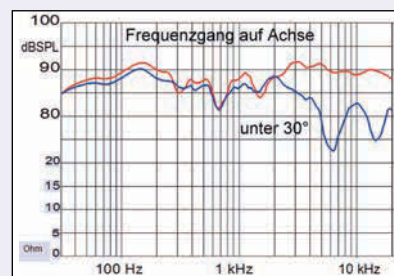
MANGER MSM s1

starting at € 15000 pp
dim.: 10.6 x 44.9 x 8.3"
(WxHxD)
warranty: 3 years
contact: Manger
phone: +49 9776 9816
www.manger-msw.de



Shallow, suitable for living rooms, high-quality workmanship, adaptable to rooms and preferences – the active Manger loudspeaker not only is a mature engineering achievement, but also a loudspeaker tuned with diligence and understanding of music.

MEASUREMENT RESULTS *



nominal impedance	n/a, active O
minimum impedance	- Hertz
maximum impedance	- Hertz
sensitivity (2.83 V/1m)	- dB SPL
voltage for 94 dB SPL (1m)	200 mV
low cut-off frequency (-3 dB)	30 Hz
THD @ 63 / 3 k / 10 k Hz	0.3 / 0.3 / 0.1 %

LAB COMMENT

Frequency response is rippled in the mid-range with narrow-band dips. Align to listening position or treble loss will start at 3 kHz already. Minimum distortions, top impulse response. Can be driven via PC, CD Player/DA converter, preamplifier etc. Frequency response and sensitivity are flexibly adaptable. Setup service at customer's site.

STEREO-TEST

SOUND QUALITY LEVEL 97%

PRICE/PERFORMANCE

★★★★☆
EXCELLENT

* Additional measurement values and diagrams for subscribers under STEREO-Club at www.stereo.de

Michael Lang