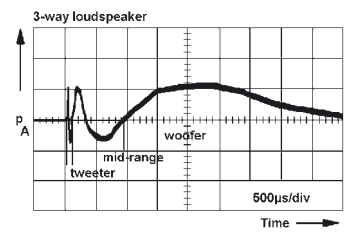
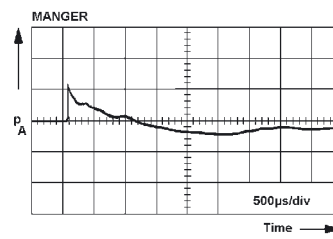
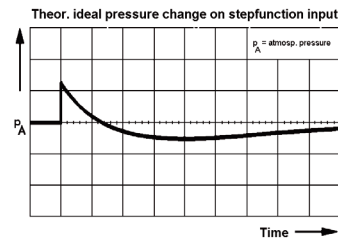
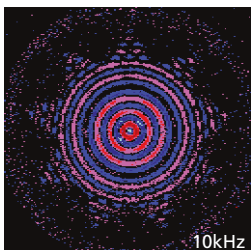
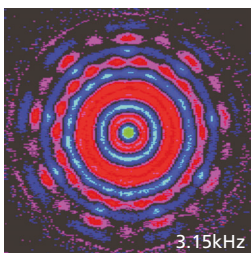
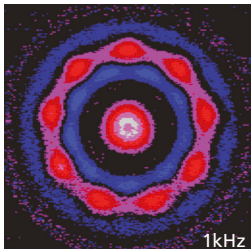
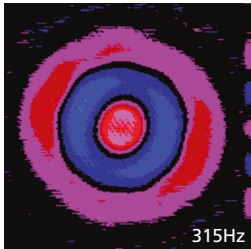
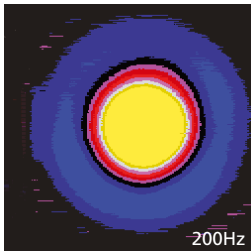


MANGER

PRECISION IN SOUND

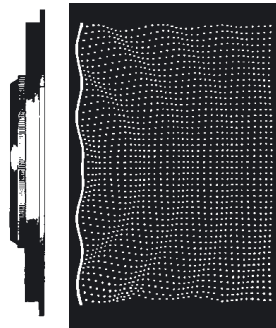
The Manger® Sound Transducer

is a bending wave transducer that works similarly to the human inner ear basilar membrane. It is a true full range driver from 80Hz to 35kHz and accurately follows the electrical input signal using a resistive, flat and flexible diaphragm.



The technical characteristics are:

- Full range driver with a bandwidth from 80Hz to 35kHz
- Rise time: 13µs
- Sensitivity: 91dBA 1W/1m
- Max. short term SPL: 114dB (< 1ms)
- Virtually perfect point source for all frequencies (see laser measurements at left)
- Far field radiation pattern at distances greater than 14 cm
- Load presented to amplifier is almost entirely resistive
- Voice coil inductance: 27µH
- Max. excursion: ± 3.5mm
- Max. short term power handling (< 1ms) 1.4 kW
- Virtually constant electrical impedance over entire frequency range
- Available in 4 Ohm or 8 Ohm impedance



When recently discovered requirements for a loudspeaker are applied correctly, listening takes on a whole new dimension. The fundamentally aperiodic nature of the Manger Sound Transducer indicates that any periodicity applied to the human ear must have been present in the input signal. It is impossible the "hear" the Manger Sound Transducer because it does not have an inherent "sound" of its own. Any sonic signature of the traditional loudspeaker is completely absent, allowing all of the information of the input signal to be revealed to the listener.

The Manger Sound Transducer embodies a rare combination of time, frequency and spatial accuracy and offers the following advantages:

- 1/ Greater realism: sounds are reproduced in a truly natural way. Enjoyable for the home listener (audiophile) and an essential tool for the professional.
- 2/ No listening fatigue: listen indefinitely. This is the hallmark of a truly accurate loudspeaker.
- 3/ No need to listen at elevated levels for critical assessment. Preserve your hearing! Although the Manger Sound Transducer is capable of high SPLs, its amazing accuracy allows the listener to instinctively match the reproduced level to that of the original acoustic event because the perceived timbre is correct.
- 4/ No stereo sweet spot. Any constraint on specific listening position is due to the sonic signature of traditional speakers. The Manger Sound Transducer fills the room with a realistic sound field true to the original. Listening can take place anywhere.

The incredibly realistic sound reproduction of the Manger Sound Transducer is recognized instantly. No musical or technical knowledge is required to appreciate this realism, nor should there be.