

Goals

The basic idea was the design of a high-efficiency loudspeaker combining several contradictory requirements allowing reproduction of living music as vector of intense emotions:

- **Relaxed listening** of all music styles, from very low to very high levels
- **The use of amplifiers covering all power classes**, explosive dynamics even with single-ended tube amplifiers with power as low as 4 W per channel
- **Reproduction of infinite details**, without projection, due to the placement of the driver diaphragms in a unique coaxial and coplanar configuration. This feature brings better spatial reproduction fidelity, too. In classic coaxial designs, the high-frequency driver diaphragm is situated far behind the low-frequency driver, resulting in huge high-frequency delay. Some loudspeaker-manufacturers introduced complex time-delay networks for the low-frequency driver to compensate this inconvenient.
- **Enhanced listening zone** (horizontally and vertically) due to the housings diamond-shaped section, facilitating the angular placement. The controlled directivity results in a smooth polar diagram in both planes.
- **Extreme dynamics** thanks to the very high efficiency combined with high power rating. That's the only way to avoid the audible thermal compression of classic loudspeakers.
- **Easy placement**, adjacent to a wall or even near a corner. The 2π environment is integral part of the loudspeaker design. The fine-tunable bassreflex opening and the discrete adjustable mid- and high range allow optimized integration in rooms of different size, adsorption rates and listening distances.
- **Less excitement of room resonance and echoes** due to controlled directivity and high efficiency. This can be explained by the (to easily forgotten) physical law of energy continuum.
- **Long term reliability** and value conservation due to oversized long-life components. All parts have been selected by numerical simulation, measuring and during hundreds of listening hours using objective and subjective quality criteria.
 - Drivers for professional use, designed and built in Europe
 - Bass/Midrange driver: Cast aluminium frame, vented core and spider
 - Compression driver : Self-centering diaphragm, field replaceable
 - Selves : Mundorf ribbon self
 - Capacitors : Polypropylène 400V, loss angle < 0,0003
 - Resistors : Cement
 - Internal wiring : Signal cables in quad configuration
 - Connectors: Laboratory connectors 100V 24-32 A

Technical specification

Continuous noise AES standard.....	250 W
Program power (6dB crest factor).....	400 W
Peak power <10ms.....	800 W
Rated impedance.....	8 Ohm
Sensitivity (Thiele half space reference efficiency).....	96 dB(1W/1m)
Maximum acoustic output (1 loudspeaker).....	116 dB
Maximum acoustic output (pair of loudspeakers).....	122 dB
Frequency range in-axis	50 – 16'000 Hz(+/- 3dB)
Recommended amplifier rating (tube amps).....	4 - 30 Watt at 8 Ohm
Recommended amplifier rating (solid state amps).....	20 – 80 Watt at 8 Ohm
Maximum reasonable amplifier power.....	300 Watt at 8 Ohm
Frequency dividing network, free air cabled.....	1,4 kHz, 12 dB/octave
Low frequency adjustment range.....	+/-2 dB continued
Medium-high adjustment range.....	+/-1,5 dB discrete
Polarity : Positive voltage on red terminal gives forward cone motion	
Housing : Handmade from plywood with natural wood veneer , 2-component lacquer	
External dimensions (including spike).....	320 x 320 x 950 mm

Hearing is believing, come in for a listening session at:



Swissonor.ch Frei CH-1256 Troinex, Fax 0041/ 22 784 63 69

<http://www.swissonor.ch>, info@swissonor.ch