

superLinear demo-system



stereo pre-Amplifier

Extremely Low Noise and Distortion
Rigorously Analog Signal Processing
Modular Architecture

Technical specifications (per channel)

- Supply sections of channels completely separated
- Inputs: 3 RCA + 2 XLR. Outputs: 1RCA + 1 XLR
 - Recording section: 2 inputs RCA and 2 outputs RCA
- Output impedance: RCA= 50 ohm, XLR = 2 x 50 ohm
 - Input impedance: 20 k Ω
 - Frequency response (± 0.2 dB): 10Hz-100kHz
- Output noise: 2 μ V un-weighted (10Hz-22kHz) (G = 6dB)
- Crosstalk between channels (un-weighted): < 120 dB (1kHz)
- Modular architecture with independent functional modules
- Volume Adjust module: from -90dB to 0dB (steps: 0.3 to 0.1dB)
- Distortion (THD & IMD): < 0.0002 % (G \leq 12dB, Vout < 2V, 20Hz-20kHz)
- Error Correction topologies: Standard Feedback and Balanced Error Feedback
 - Linear dynamic range: > 120 dB
- Sew-rate: > ± 15 V/ μ S (RCA output); > ± 30 V/ μ S (XLR output)
 - Programmable gain at each input (dB): 6, 12, 18
 - Programmable output level: 1/2 Volt (0 /+6 dBv)
 - Maximum output level: > +15 dBv (RCA), > +21 dBv (XLR)
- Technology: PTH/SMD with multilayer boards (up to 8 layers)
 - Weight: 15 kg. Dimensions (L,H,P): 45 x 16 x 41 cm
 - Headphone Amplifier module (optional): load \geq 50 Ω
- Output voltage limiter (function under development): adjustable from 0 to 15dBv
- Tone Control module (optional, under development): Bass/Treble: ± 6 dB, 1dB steps