

Specifications – Line Stages and Outputs

General Description:	High performance stereo line preamplifier featuring 7 single ended line inputs with jumper selectable 20 dB pad, MC/MM phono input, record loop, Baxandall tone controls (can be bypassed) and class A headphone amplifier; single ended output
1. Inputs	7 stereo single ended line level inputs with individual jumper selectable -20 dB 10 k Z_{in} attenuator pads (located internally on main PCB) 2 off stereo Phono inputs selectable on phono board for MM or MC (note, only one set of inputs can be active at a time - either MM or MC); Input selected via jumper on phono equalizer board (note: phono equalizer board has not been built as of June 2014)
2. Outputs	1 off single ended output (200 Ω max load)
3. Output Level	Nominal 1.5 V into 600 Ω at 1 ppm distortion 20 Hz to 20 kHz 12 V into 600 Ω ; 5 V into 200 Ω s at 10 ppm distortion 1.3 V into 50 Ω s at 25 ppm distortion
4. Tone Controls	Baxandall active type +9 dB cut and boost at 100 Hz and 10 kHz Tone control can be switched completely out of signal chain
5. Frequency Response	With tone control switched out: 20Hz to 20 kHz +0 dB, -0.1 dB; DC – 200 kHz -3 dB
6. Distortion	1 ppm (-120dB) at 1.5 V into 600 Ω 20 Hz- 20 kHz 10ppm (-100 dB) at 12 V into 600 Ω 20 Hz to 20 kHz 5ppm 1V RMS into 50 Ω s
7. Noise	-110 dB ($\sim 2\mu V$) ref 1 V into 600 Ω (Z_{in} source 50 Ω) Better than -130 dB ref 10 V into 600 Ω
8. Cross talk	Better than -80 dB at 20 kHz; better than -100 dB at 1 kHz
9. Headphone Amplifier	Max Output in class A is 2W RMS into 32 Ω . 3 V peak into 32 Ω class A at <3 ppm 20 Hz to 20 kHz; 6 V into 32 Ω class AB <13 ppm 20 Hz to 20 kHz; ~ 500 ppb distortion at 500 mV into 32 Ω ; 12V peak into 32 Ω < 60ppm distortion; Freq. Response 2Hz to 150 kHz -3 dB
10. Front Panel Controls	Input select, Volume, bass, treble, tone control bypass, record loop monitor; 1 x headphone output socket (6.5 mm); Power On/Off located on rear panel.
11. Rear panel connections	RCA sockets: 7 x stereo line inputs (incl. 1 x record loop), 2 x stereo phono inputs (only 1 can be active); 1 set stereo outputs; 1 x record output (buffered, class A into 10 k Ω load); 1 x switched fused 3 pin IEC mains receptacle
12. Power Consumption	25 Watts
13. Dimensions	480mm x 150mm x 300mm
14. Weight	10 kg's