

CR Electronic Design

Woodham Phono Pre-Amplifier

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Designed to complement the 300B power amplifier and the new KT88 amplifier - this all new pre-amplifier includes many new ideas and features, yet builds on CR's great experience in tube design.



The pre-amplifier is constructed on printed circuit boards to ensure a reliable and consistent product with minimal variations from one unit to another.

The main PCB contains the phono input and equalisation, line level pre-amplifier and output stages.

The line level pre-amplifier stages are arranged on the double-sided PCB in a dual mono configuration to minimise cross-talk wherever possible.

Single ended and balanced input and outputs are provided to ensure compatibility with a wide range of input sources and power amplifiers.

For the phono input, 3 triodes are used per channel for gain and equalisation. Accurate R1AA equalisation is achieved using some negative feedback, and close tolerance polypropylene capacitors carefully selected for this sensitive part of the pre-amplifier.

This is a 2-box design with an external power supply unit, housed in a small matching metal box. The illuminated VU meters complete a combination of retro and professional style. A separate tube stage ensures there is no interference with audio signals.

SPECIFICATIONS		TUBE LINEUP		DIMENSIONS	
Configuration	Active	Phono	12AY7 x 2 12AU7 x 1	Unpacked	480x330x140mm
Output Level (Line & Balanced)	775mV	Amplifier	12AX7 x 2 12AU7 x 2	Packed	530x450x240mm
Response	20Hz-25KHz ±0.1dB	Output Buffer	12AU7 x 2	PSU Unpacked	120x205x75mm
Distortion	<0.05%	Meter Buffer	12AU7 x 1	PSU Packed	190x450x160mm
Number of Inputs	3 x Line 1 x Balanced 1 x Phono			Weight Net	9.5Kg
Input Level (for Rated Output)	Line 250mV Phono 3mV			Weight Gross	11.25Kg
Power Consumption	125 Watts				
Line Voltage	115/230 Volts				
Noise	<100µV				