

C500 TUBE OR SOLID STATE PREAMPLIFIER



The new McIntosh C500 stereo preamplifier is a no-holds-barred, fully balanced, dual-mono design with separate power supplies. Available with solid-state or tube preamplifier electronics, the C500 preamplifier combines outstanding audio performance with flexible user-programmability.

Moving Coil and Moving Magnet phono preamplifiers are supported in both the solid-state and tube designs. Both feature high open-loop gain enabling the use of negative feedback around the compensation amplifiers for very low noise and distortion and markedly improved RIAA performance.

The C500 volume control is a balanced design with a logic-controlled audio taper. This custom attenuator is accomplished via a 4-stage, digitally controlled analog circuit that operates with 16 bit precision. Exceptional tracking accuracy guarantees that common noise and distortion rejection are maximized. The second stage of this control adjusts the gain of the output amplifier towards unity as the attenuation of the first stage is increased. The result is very low distortion and wide dynamic range.

- Tube or Solid State
- MM and MC Phono Inputs
- Switched Data Output Ports
- Four Power Control Outputs
- Output Level Meters
- Pass Thru Mode
- ¼" Front Panel Headphone Jack

McIntosh®

LEGENDARY™



ADVANCED VOLUME CONTROL

The McIntosh two stage VRV (Variable Rate Volume) Control is electronic in action. It never wears or needs cleaning, and keeps channels matched to within an amazing 1/10th of 1dB.

CUSTOMIZABLE INPUTS

The inputs can be renamed from an internal list to match the needs of the user. Unused inputs can be deleted from the display and level matching between inputs is provided.

POWER SUPPLY DESIGN

Multiple stages of regulation ensure top performance unaffected by power fluctuations. The R-Core transformer radiates no hum that could otherwise compromise the preamplifier's low noise floor.

FOR THE CONSUMER'S PROTECTION

In order to ensure the highest level of customer satisfaction, "new" McIntosh products may only be purchased over-the-counter or delivered and installed by an Authorized McIntosh Dealer.

McIntosh products that are purchased over the Internet, by phone or mail order are presumed to be "used" and do not qualify for any McIntosh Warranty. McIntosh does not warrant, in any way, products that are purchased from anyone who is not an Authorized Dealer or products that have had their serial number altered or defaced.

FREQUENCY RESPONSE

C500P: +0, -0.5dB from 10Hz to 20kHz
C500T: +0, -0.5dB from 10Hz to 20kHz

TOTAL HARMONIC DISTORTION

C500P: 0.002% max from 20Hz to 20kHz
C500T: 0.05% from 20Hz to 20kHz

MAXIMUM VOLTAGE OUTPUT

C500P: 12V RMS Unbalanced, 25V RMS Balanced
C500T: 10V RMS Unbalanced, 20V RMS Balanced

INPUT IMPEDANCE

C500P and C500T: High Level, 22k ohms
Phono MM, 47k ohms; 50 to 750pF, in 50pF steps
Phono MC, 25, 50, 100, 200, 500 or 1,000 ohms; 100pF

OUTPUT IMPEDANCE

C500P and C500T: 220 ohms

SENSITIVITY

C500P: High Level, 450mV for 2.5V rated output
Phono MM, 4.5mV for 2.5V rated output
Phono MC, 0.45uV for 2.5V rated output
C500T: High Level, 450mV for 2.5V rated output
Phono MM, 4.5mV for 2.5V rated output
Phono MC, 0.45mV for 2.5V rated output

SIGNAL-TO-NOISE RATIO

C500P: High Level 100dB; Phono 88dB
C500T: High Level 93dB; Phono 80dB

MAXIMUM INPUT SIGNAL

C500P and C500T: High Level, 5V Unbalanced,
10V Balanced Phono MM, 50mV; Phono MC, 5mV

VOLTAGE GAIN

C500P and C500T:
Phono, MC to Record Out: 60dB
Phono, MM to Record Out: 40dB
High Level to Record Out: 0dB
High Level to Main Out: 15dB

POWER REQUIREMENTS

100 Volts, 50/60Hz, 75 Watts
110 Volts, 50/60Hz, 75 Watts
120 Volts, 50/60Hz, 75 Watts
220 Volts, 50/60Hz, 75 Watts
230 Volts, 50/60Hz, 75 Watts
240 Volts, 50/60Hz, 75 Watts

OVERALL DIMENSIONS (H x W x D including knobs, connectors and feet)

C500C, C500P and C500T: 6" (15.24cm) x
17-1/2" (44.45cm) x 24" (61cm)

WEIGHT

C500C: 30.1 lbs. (13.65kg) net;
46.5 lbs. (21.09kg) in shipping carton
C500P: 25.1 lbs. (11.39kg) net;
41.5 lbs. (18.82kg) in shipping carton
C500T: 26.4 lbs. (11.97kg) net;
42.8 lbs. (19.41kg) in shipping carton.