

**C2200 Vacuum  
Tube Stereo  
Preamplifier**



**“combines new  
and venerable technologies  
with spectacular results”**

The C2200, which utilizes vacuum tubes to provide all signal amplification, delivers an unsurpassed sonic experience.

Unlike a simple rehash of yesterday's news, the C2200 is an entirely new design that combines the benefits of advanced technology with classic vacuum tube audio performance.

Unaffected by amplifier type—tube or solid state—the C2200 will enhance the performance of any system while providing a host of sophisticated operational features.

- Vacuum Tube Design
- Recorder Loop
- Electromagnetic Switching
- Eight Programmable Source Selections
- Blue Vacuum Florescent Display
- Digitally Controlled Attenuator
- Post Attenuator
- Variable Rate Volume (VRV)
- Illuminated Output Meters
- Double-Shielded Power Transformer
- Switched Audio Outputs
- Input Level Match
- Four Power Control Outputs
- Gold-Plated Input and Output Connectors
- Tube Management Auto Turn-On Delay
- Tube Saver
- IR Remote Control
- Headphone Jack
- Pass-Thru Integration

*A Tradition of Excellence*



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## C2200 Vacuum Tube Stereo Preamplifier

### EIGHT PROGRAMMABLE SOURCE SELECTIONS

All eight source selections accommodate unbalanced inputs while four of the eight also accommodate balanced inputs. Any of 12 standard names can be assigned to a source selection and the panel display can be customized to indicate only available sources.

### SILENT ELECTROMAGNETIC SWITCHING

Signal routing is accomplished through digitally controlled electromagnetic switching devices. Precision switch contacts, isolated from environmental contamination inside inert gas-filled glass tubes, provide the most reliable, quietest and lowest distortion switching possible.

### VRV (VARIABLE RATE VOLUME) DIGITALLY CONTROLLED ATTENUATOR

The output attenuator controls volume over 214 steps of .5dB each with accuracy within .1dB. The volume vs. rotation rate varies as preamplifier gain varies and attenuation changes occur at the zero crossings of the audio signal to prevent audible artifacts during adjustment.

### TUBE MANAGEMENT AUTO TURN-ON DELAY

Outputs are muted until delay circuits sense the tubes are stabilized which prevents exposure to noise generated by other components

#### Vacuum tube design

Eight programmable input source selections, four for balanced or unbalanced and four unbalanced only

Tape recorder loop

Three balanced and three unbalanced outputs, one main and two switched

Electromagnetic switching

Input level match

12-character blue alphanumeric display for input selection, volume level and menu selection

VRV (Variable Rate Volume) with multi-stage precision digitally controlled attenuator system

Illuminated output level meters

Double shielded power transformer

Gold-plated input and output connectors

Low noise 1% metal film resistors used throughout

IR remote control

Component source data ports

Front panel headphone jack

Three programmable triggers

Auto turn-on delay

Tube saver

#### FREQUENCY RESPONSE

+0, -0.50dB from 20Hz to 20kHz

#### TOTAL HARMONIC DISTORTION

0.08% maximum from 20Hz to 20kHz

#### RATED OUTPUT

5 Vrms at MAIN and SWITCHED  
1 and 2 Balanced Outputs

2.5 Vrms at MAIN and SWITCHED  
1 and 2 Unbalanced Outputs

#### MAXIMUM VOLTAGE OUTPUT

16.0 Vrms at MAIN and SWITCHED  
Balanced Outputs

8.0 Vrms at MAIN and SWITCHED  
Unbalanced Outputs

#### INPUT IMPEDANCE

Phono, Moving Magnet:  
47K ohms, 65pf

High Level: Balanced 44K Ohms  
Unbalanced 22K Ohms

#### OUTPUT SOURCE IMPEDANCE

500 Ohms balanced  
250 Ohms unbalanced

#### SENSITIVITY

Phono: 4.5mV for 2.5V out  
@ 1kHz

High Level: 450mV for 2.5V out

#### VOLTAGE GAIN

Phono, (MM) to Tape Out: 40dB  
@ 1kHz

Phono to Main Out: 55dB  
High Level to Tape Out: 0dB  
High Level to Main Out: 15dB

#### POWER REQUIREMENTS

100, 120 or 230 VAC,  
50-60Hz 70 Watts

#### DIMENSIONS

Front panel, 17-1/2 inches (44.4 cm) wide, by 7-5/8 inches (19.3 cm) high. Depth is 20 inches (50.8 cm) including clearance for connectors. Knob clearance in front of the mounting panel is 3/4 inches (1.9 cm).

#### Weight

26.75 lbs (12.1 kg) net  
47.75 lbs (21.7 kg) shipping weight

#### FINISH

The front panel is black glass with gold/teal illuminated nomenclature. The chassis is totally enclosed.

