Accuphase

PRECISION STEREO CONTROL CENTER

C-2450

● AAVA volume control for high performance and outstanding sound ● Separate power transformers for left and right channels ● Selectable preamp gain ● Fully modular construction with individual left/right amplifier units on motherboard ● Logic-controlled relays for shortest signal paths ● Independent phase selection for each input position ● Optional phono equalizer unit enables playback of analog records ● Elegant side panels with natural wood grain finish





Featuring highly sophisticated AAVA volume control technology — Next-generation preamplifier takes C-2850 technology to another plane.

Blending the purely analog AAVA volume control circuit with sophisticated technology inherited from the C-2850 results in superb S/N ratio and a refinement of expression that brings new clarity to the music. The utterly smooth operation feel of the volume sensor assembly and a top plate made of brushed aluminum with a hairline finish demonstrate a level of dedication and hands-on craftsmanship that pervades every aspect of this preamplifier. Each C-2450 is individually honed to provide nothing short of perfection. Experience music as it was meant to be heard.

Innovative: At the leading edge of technology

AAVA operation principle is purely analog

The AAVA circuit converts the input music signal into 16 types of weighted currents which are then combined according to the position of the volume control knob. The combination of signal currents forms a variable gain circuit that adjusts the level of the music signal.



High-accuracy, high-rigidity volume sensor assembly with responsive yet solid feel

Although AAVA adjusts the volume level by combining the output of weighted amplifiers, it is operated using a volume knob that appears similar to conventional systems. Internally however there are major differences. The volume sensor mechanism that detects the angular position of the volume knob rests on a frame extruded from a massive aluminum block and finished with utmost precision. The volume knob feels both responsive and solid when rotated and ensures extremely accurate position detection. The entire mechanism is supported on the chassis by a floating suspension using insulators, which has the added advantage of extremely quiet motor-driven operation when the remote commander is used.

UNE1 LINE 2





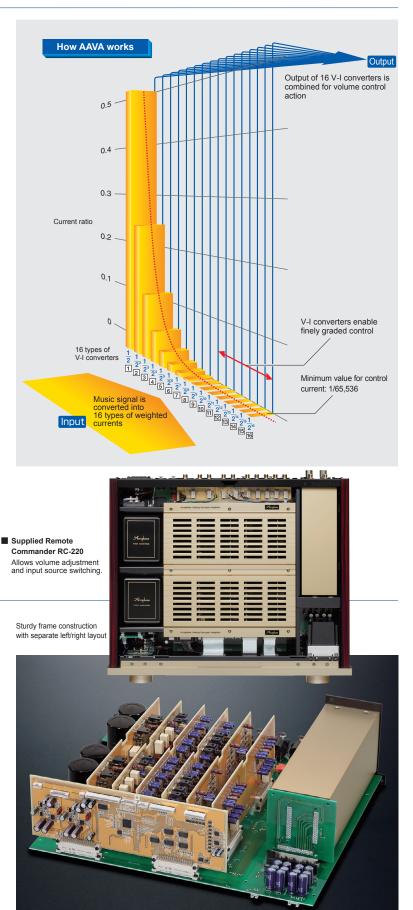
Separate unit amplifiers for left and right

The main amplification tasks such as input buffering, AAVA, balanced output, and headphone output are handled by a total of six modular amplifiers for each channel. These unit amplifiers are mounted on a glass epoxy motherboard, with left and right sections being kept completely separate. In order to eliminate unwanted mutual interference between the amplifiers, a sturdy frame is used to provide support. As a result, both electrical interference and physical vibrations are reliably suppressed, creating an ideal operation environment.

Separate left/right power supplies

The power supply circuitry not only acts as the energy source of an amplifier, the current that it supplies to the load also has a significant influence on sound quality. The C-2450 incorporates four custom-made filtering capacitors which are rated for 10,000 µF and have been specially tuned for optimum sonic properties. Along with the power transformer, the entire power supply section is duplicated and kept separate for the left and right channel, resulting in a full mono construction. The entire circuitry from the input right through to the output benefits from a strong and stable supply of current which enhances the quality of the musical signal.





Advanced Features

- Logic-controlled relays for signal switching assure high sound quality and long-term reliability
- Total of 10 inputs and 5 outputs Thanks to a versatile complement of input and outputs, the C-2450 is ready for any program source combination.
- EXT PRE function allows use of external preamplifier

Setting the OUTPUT selector to the EXT PRE position allows the use of an external preamplifier or other component without having to change system connections.

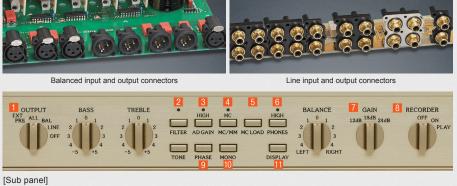
Selectable preamp gain Overall gain can be set to 12 dB, 18 dB, or 24 dB. Eliminate phase differences in balanced

connections The PHASE button makes it easy to compensate

for differences in absolute phase of any input or output component connected via a balanced link.

- Independent phase selection for each input position The phase can be set and memorized separately for each input and recorder selector position.
- On/off switching capability for level display
- Subsonic filter removes ultra low frequency noise Loudness compensator function offsets the characteristics of human hearing
- Tone controls using summing active filters for optimum sound quality
- Dedicated headphone amplifier optimized for sound quality
- Elegant side panels with natural wood grain finish
- Thick aluminum top plate with exquisite hairline finish

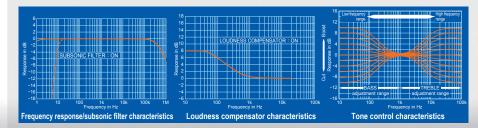
Top plate

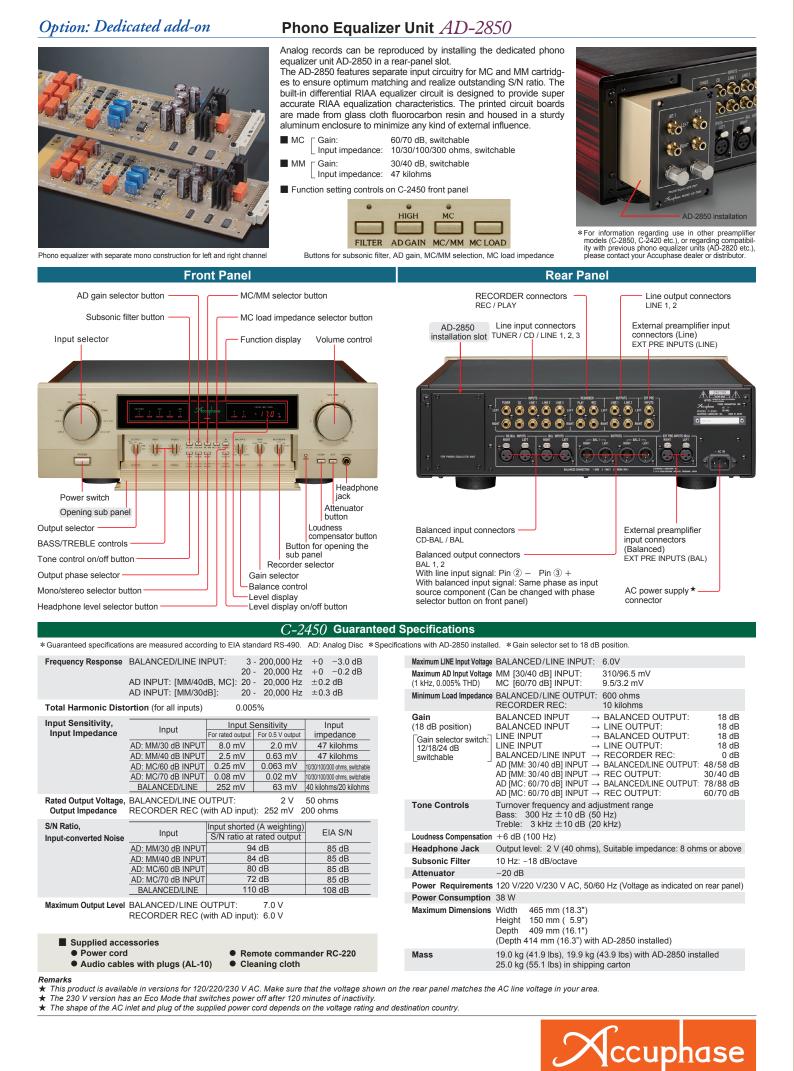


- Output selector
- 2 Subsonic filter button for effectively removing ultra low frequency noise without affecting sound quality
- 3 AD gain selector for choosing equalizer gain
- 4 MC/MM button for selecting phono cartridge type
- 5 MC load impedance button for selecting load impedance when using MC cartridge
- 6 Headphone level selector button
- 7 Gain selector
- 8 Recorder selector for recording or playback
- 9 Output phase selector button
- 10 Mono/stereo selector button for combining left/right channel signals

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11 Level display on/off button





ACCUPHASE LABORATORY, INC.