

## PRECISION STEREO PREAMPLIFIER

*C-3850* 

● Revolutionary low-noise "Balanced AAVA Volume Control" ● High-rigidity, high-accuracy volume knob sensor mechanism ● Separate high-efficiency toroidal power transformers for left and right channels ● Selectable preamp gain ● Fully modular construction with separate left/right units for each amplifier stage ● Logic-controlled relays for shortest signal paths ● Independent phase selection for each input position ● Printed circuit boards made from glass cloth fluorocarbon resin ● Massive wood cabinet with natural grain finish





The Ultimate Analog Preamplifier — Balanced AAVA, the supreme volume control system from Accuphase, provides incredible smoothness and complete mastery over the music reproduction process. Outstanding signal/noise ratio prepares the stage for the source to emerge with breathtaking realism, conveying a wealth of acoustic detail such as hardly ever experienced before. The C-3850 represents the pinnacle of 45 years of Accuphase excellence in analog preamplifiers.

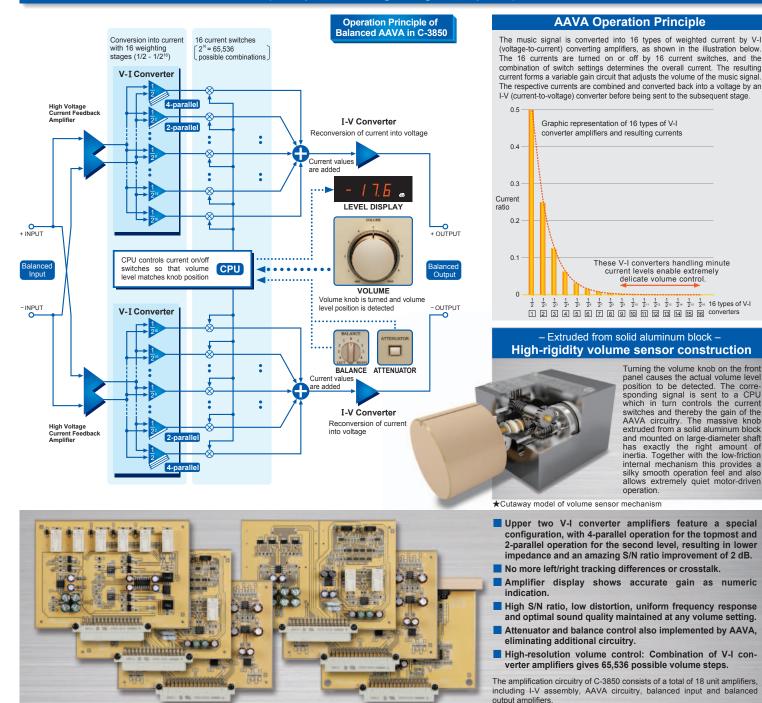
Having been founded in 1972, Accuphase commemorated its 40th anniversary by releasing a next-generation beacon model, the Precision Stereo Preamplifier C-3800, It marked a major milestone and was highly lauded by audiophiles around the world as a tour de force in technological excellence, performance, and sound quality. The new Precision Stereo Preamplifier C-3850 continues the challenge and raises the bar even further, bringing together the entire wealth of preamplifier know-how gained by Accuphase over the years. In construction as well as circuit design, it incorporates latest technology realized with components selected through a thorough review process including extended listening tests. The result is an audio instrument that admits no compromise in the pursuit of peerless performance for musical mastery.

Conventional volume controls attenuate the input signal by

introducing a resistance (either using a rotary variable resistor or fixed resistors) in the signal path, and then amplifying the result. This makes it inevitable that-along with attenuation-information will be lost and noise will increase at the lower volume level settings that are normally used. By contrast, AAVA does not "turn down" the volume in the ordinary sense. Rather, it switches a combination of V-I amplifiers as required in order to directly change the amplifier gain and thereby achieve the desired volume. This revolutionary approach eliminates impedance changes as well as adverse effects from noise and other factors. Because there is almost no increase in noise, S/N ratio does not suffer at any listening level including the important moderate volume settings. Frequency response remains uniform and sound quality always maintains its full excellence. The C-3850 features a further evolved version

of this principle, called "Balanced AAVA", with two AAVA circuits driven in a parallel balanced configuration. This results in ideal volume control behavior from balanced input to balanced output. In addition, the volume knob and sensor mechanism fashioned with utmost precision from a single highly rigid aluminum block provides silky smooth operation with excellent tactile feel, and also improves the quietness of motor-driven operation. The entire path for all signals from the input connectors to the outputs is fully balanced, and signal purity is further elevated by the use of ultimate-quality parts and materials, ensuring electrical characteristics and sonic excellence of the highest order. With its no-holds-barred use of resources, and its bold realization of latest circuit design, the C-3850 is an analog preamplifier that redefines the state of the art and points the way towards the future.

#### Balanced AAVA (Accuphase Analog Vari-gain Amplifier) Volume Control



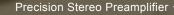
# The Essence of Technology



## The Beauty of Tradition

COMP

- 17.6



precision stereo preamplifier C-3850

Nccuphase

CD-BAL

As the ultimate analog preamplifier, the C-3850 has been honed to perfection, bringing together sophisticated technology and carefully selected materials in a package of refined visual appeal. The gold-hue front panel and the exquisite wood cabinet reflect true craftsmanship, as the natural wood grain of each individual unit has been mirror-finished by expert hands. The result is a product that exudes a graceful and dignified atmosphere.



VOLUME

ATTENUATOR

PHONES

OPEN

### **Features and Functions** Ideal power supply design realizes dual mono construction with newly developed high-efficiency toroidal transformers and filtering capacitors (10,000 $\mu$ F x 12) selected for sound quality.

- Logic-controlled relays for signal switching assure high sound quality and long-term reliability.
- Versatile arrangement of line and balanced input and output connectors.
- Printed circuit boards for signal transmission are made from glass cloth fluorocarbon resin with low dielectric constant and minimum loss.
- Selectable preamplifier gain with three settings (12 dB, 18 dB, 24 dB).
- EXT PRE function allows use of external preamplifier.
- Output phase selectable individually for each input, with visual indication. When INV LED is lit, output phase is inverted. When LED is out, phase is normal.
- Dedicated headphone amplifier with three selectable gain settings.
- Advanced High Carbon cast iron insulator feet with superior damping characteristics further enhance sound quality.

#### Massive wood cabinet with natural grain finish.

#### More versatile features:

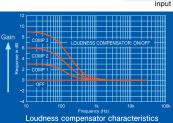
- Provisions for recording and playback with a recorder.
- Attenuator (-20 dB).
- Loudness compensator with three selectable characteristics enhances low end presence.
- Alphanumeric indication of input position.
- Large, easy to read numeric indication of volume level setting.



#### Unit amplifier assembly

A total of 18 unit amplifiers handle the signal transmission for the left and right channel. The printed circuit boards are made from glass cloth fluorocarbon resin, and the glass cloth hubrocarbon resin, and the copper foil surfaces are gold-plated. The unit amplifiers are mounted on a glass epoxy motherboard, and left and right sections are kept completely separate. An 8 mm thick frame made of hard aluminum prevents mutual interference by arouiting electrical mutual interference by providing electrical shielding and suppressing physical vibrations.

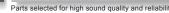
Supplied remote commander RC-210 Allows volume adjustment, input source switching, and other operations



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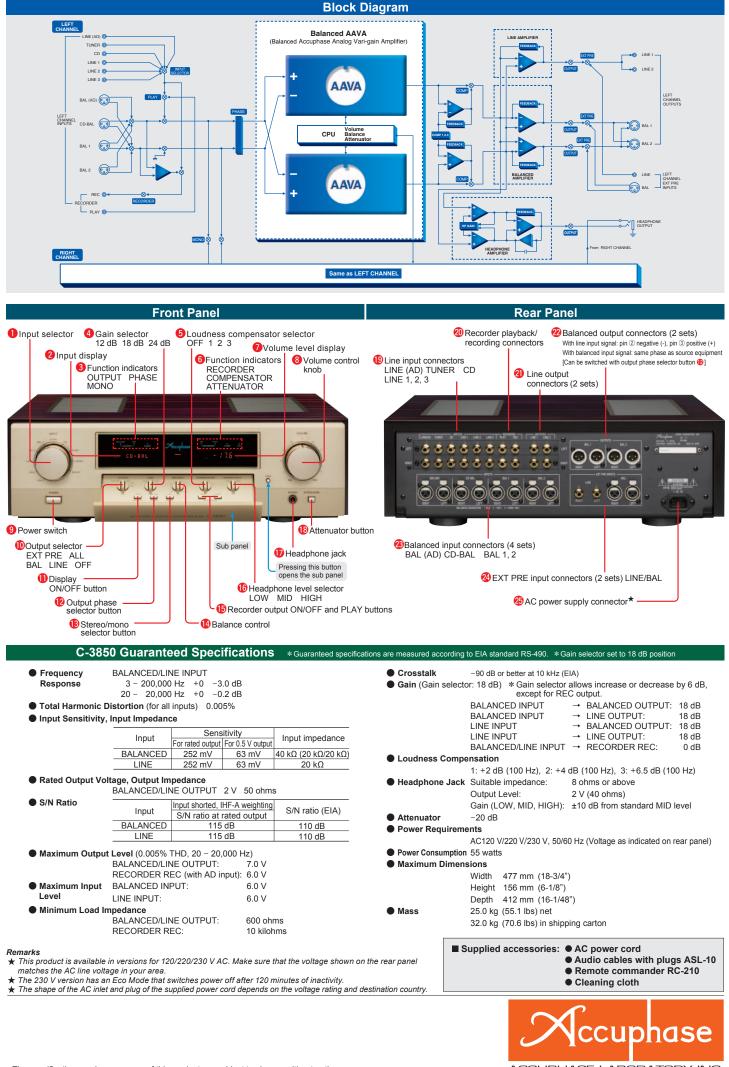


Audio quality filtering capacitor

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EXT/OFF INV - OUTPUT PHASE EXT PRE phase setting indication Phase selector button GAIN OUTPUT PHONES LEVEL ALL BAL 18dB LOW MID HIGH 12dB 24dB YT PRE Headphone level selector RE selecto





The specifications and appearance of this product are subject to change without notice.
<a href="http://www.accuphase.com">http://www.accuphase.com</a>

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