Accuphase

INTEGRATED STEREO AMPLIFIER

E-270

Revolutionary AAVA volume control ● Output stage with high-power transistors in parallel push-pull arrangement delivers high quality power: 90 watts x 2 into 8 ohms ● Power amplifier stage features instrumentation amplifier configuration for balanced signal transmission.
 Logic-control relays for shortest signal paths ● Strong power supply with massive high-efficiency transformer and large filtering capacitors ● MAIN IN button allows separate use of preamplifier and power amplifier sections ● Numeric indication of volume level





Taking the integrated amplifier to further heights — Pursuit of performance and sound quality results in capability well beyond its class, approaching the level of separate type amplifiers.

Revolutionary AAVA volume control. A power amplifier section featuring high power transistors in parallel push-pull configuration, complemented by a robust power supply and low impedance output stage. 120 watts of quality power into 4 ohms, with a damping factor of 400. Current feedback amplifier topology assures excellent phase characteristics in the high range, and instrumentation amplifier principle enables fully balanced signal paths. Power MOS-FET switches in the protection circuitry eliminate the need for mechanical contacts.

Innovative Technology

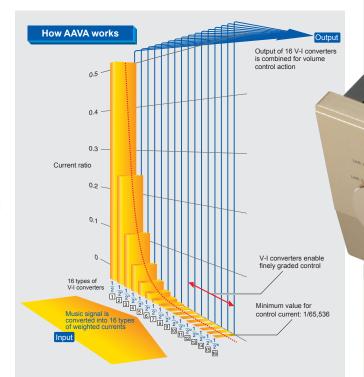
AAVA volume control with further lowered noise floor

The volume control in the preamplifier section is a crucial component with a decisive influence on performance and sound quality. AAVA is a revolutionary type of completely analog volume control that completely does away with any variable resistors in the signal path. This ensures that the signal remains perfectly unaltered, free from the adverse effects of impedance changes. As a result, both S/N ratio and sound quality are excellent at any volume setting.



AAVA volume control assembly with higher integration density of components and circuitry

- Configuration with a total of 18 V-I converter amplifiers, paralleled for upper two units, reduces overall AAVA impedance to one half and results in lower noise. Input stage with five buffer amplifiers ensures powerful drive capability.
- No more left/right tracking differences or crosstalk.
- Attenuator and balance control also implemented by AAVA, eliminating additional circuitry.
- Operation feel is exactly the same as a conventional volume control, and remote control is also possible.
- Combination of 16 types of weighted V-I converter amplifiers gives 65,536 possible volume steps.
- Volume level can be displayed accurately as a numeric indication.



Advanced Features

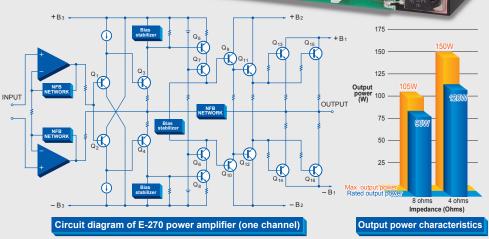
- Protection circuitry employs semiconductor (MOS-FET) switches for low impedance and excellent long-term reliability.
- Two sets of large speaker terminals. Y lugs and banana plugs are also supported.
- Balanced remote sensing technology provides balanced feedback for both the signal and GND lines from near the speaker terminals to ensure low impedance and high damping factor. Minimiz-
- ing the amplifier's output impedance results in a damping factor of 400.
 Bi-wiring connection using the two sets of speaker terminals is supported.
- Analog peak power meters with new LED lighting for improved legibility.
- Versatile array of input options including balanced inputs to shut out external noise interference.
- MAIN IN button and preamplifier output and power amplifier input connectors allow independent use of both sections.
- Individual phase setting is possible for each input position (with memory).
- The balanced connectors support both pin 2 \oplus and pin 3 \oplus configurations.
- Rear panel expansion slot allows the use of option boards.
- Option boards provide additional versatility for digital input (USB, coaxial, optical) handling or analog record playback.
- DAC input selector allows displaying the sampling frequency of the digital signal onto which the amplifier has locked.
- With the AD-30 board, MC/MM switching on the front panel is possible.
- Logic-controlled relays for signal switching assure high sound quality and long-term reliability.
- Dedicated headphone amplifier optimized for sound quality.
- "High Carbon" cast iron insulator feet with superior damping characteristics further enhance sound quality.



CD TUNER CD TUNER LINE1 LINE2 LINE3 0P1 0P2

AUSE STOP





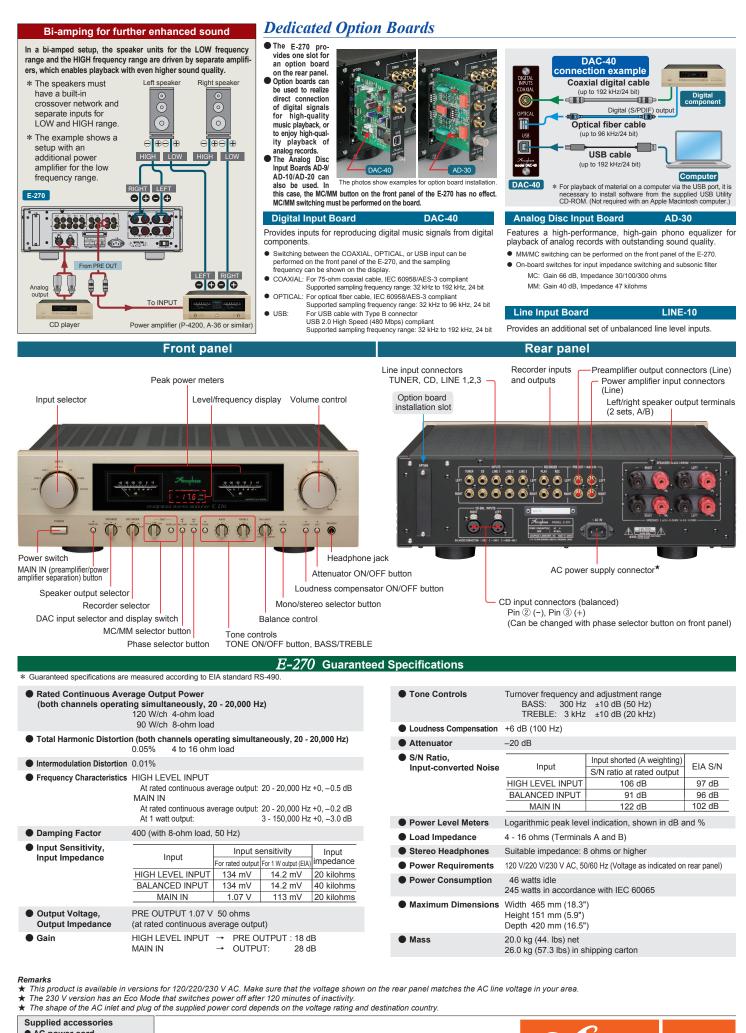
Designed for Maximum Sound Quality

- Parallel push-pull output stage and power amplifier stage mounted on large heat sink. Two identical units are arranged on the left and right sides of the chassis.
- Power amp units use high-power transistors in a robust parallel push-pull configuration, producing ample output of 120 watts into 4 ohms or 90 watts into 8 ohms per channel.



■ Strong power supply with massive high-efficiency transformer and large filtering capacitors. The E-270 uses a massive power transformer with high output capability. Highly effective filtering is realized with two custom-made aluminum electrolytic capacitors, each with a vastly increased 30,000 µF rating.





Remote commander RC-230

cuphase