

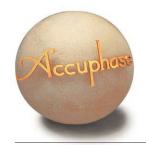
INTEGRATED STEREO AMPLIFIER

E-370

■ Revolutionary AAVA volume control ● Output stage with high power transistors in parallel push-pull configuration produces quality power: 100 watts x 2 into 8 ohms ● Instrumentation amplifier principle for power amplifier input stage allows fully balanced signal transmission, complemented by current feedback amplification circuitry ● Logic-control relays for shortest signal paths ● Strong power supply with massive high-efficiency transformer and large filtering capacitors ● POWER IN button allows separate use of preamplifier and power amplifier sections ● Numeric indication of volume level



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Prepare to Be Surprised—The E-370 takes the performance and sound quality of the integrated amplifier to another level. Featuring a wealth of technological advances, such as the renowned AAVA volume control with even lower noise level and a power amplifier section with super low impedance, it delivers S/N ratio and drive power that stand out from the crowd. With sound quality to rival much higher ranked products, it opens up a world of unlimited musical enjoyment.

outstanding technology top-of-the-line E-600 and the high-power version E-470, the E-370 represents a full model change from the E-360. It is an integrated amplifier that redefines what this product category can do, both in terms of technical excellence and sonic performance. Internally, the preamplifier and power amplifier sections are kept entirely separate, in order to allow each to develop their full potential, rivaling the functional concept and quality of separate type components. With a simple flick of a switch, the POWER IN feature allows individual use of the two sections

At the heart of the preamplifier section is the same version of the AAVA volume control as found in the E-600, pushing the noise floor to an absolute minimum. The power amplifier block employs the latest instrumentation amplifier topology, enabling fully balanced signal transmission in all stages. This reliably shuts out external noise interference and ensures perfectly stable operation. As a result, overall S/N ratio has been improved by 3 dB. Other impressive features include MOS-FET switches in place of relays for speaker protection, helping to ensure superb electrical characteristics and improve long-term reliability. The circuit topology of the output stage is designed for extremely low impedance, resulting in a damping factor of over 400, demonstrating excellent speaker drive capability.

Bipolar transistors arranged in a parallel push-pull configuration for each channel further enhance performance with low-impedance loads, producing an impressive 150 watts into 4 ohms

Preamplifier Section Functions and Features

Hermetically sealed relays designed for industrial communication applications are used in an optimized logically controlled configuration to realize a wide array of input choices, including balanced connections that are impervious to externally induced noise



Individual phase setting is possible for each input position. The balanced connectors support both pin 2 + and pin 3 + configurations.





Two option board installation slots on the rear panel provide further versatility.

The DAC input selector button allows the user to select the desired input when using the Digital

Input Board DAC-40 With **USB Port.** Display of the sampling



frequency of the locked digital signal is also possible.



When the Analog Disc Input Board AD-30 is installed, MC/MM switching is possible with a selector on the front panel of the E-370.



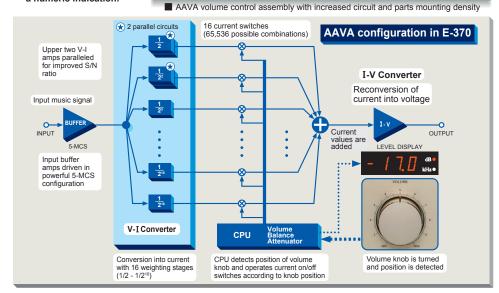
AAVA (Accuphase Analog Vari-gain Amplifier) Volume Control

AAVA volume control with further lowered noise floor

The volume control is the most important aspect of a preamplifier, with a decisive influence of performance and sound quality. AAVA is a revolutionary type of completely analog volume control that does away with any variable resistors in the signal path. This ensures that the signal remains completely 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.

- 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.





Power Amplifier Section Functions and Features

Strong power supply with oversized high-efficiency transformer and large filtering capacitors (30,000 μF x 2) providing 1.5 times more smoothing capacity.







Semiconductor (MOS-FET) switches used for speaker protection circuitry prevent contact problems and

ensure long-term reliability. Eliminating mechanical contacts from the music sig-

add a second power

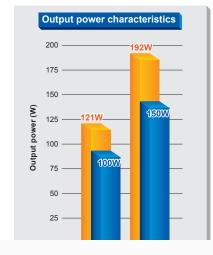
amplifier for bi-amping.



Parallel push-pull power amplifier unit with high-power transistors produces ample power: 150 watts per channel into 4 ohms or 100 watts per channel into 8 ohms



High-performance high-power transistors



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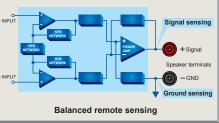
Two sets of large speaker terminals (A / B) also accept spade and banana connectors and facili-

tate bi-wiring connection of loudspeakers.

Metal bus bars directly link the speaker terminals with the output circuitry, for minimum losses and maximized performance.



Balanced remote sensing technology provides feedback for both the signal and GND lines from near the speaker terminals to ensure lowest impedance and improved damping factor.



Redesigned NFB circuit topology minimizes output impedance and improves the damping factor, thereby contributing to enhanced sound quality.



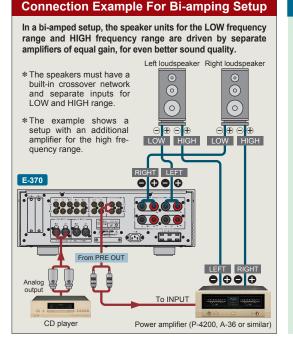
The analog peak power meters feature a new type of LED lighting for improved readability. The meters provide



visual enjoyment as well as precise information



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Input selector

Power switch

MONO/STEREO switching

POWER IN switching

Phase switching
Tone controls ON/OFF

Option Boards

- Two slots allowing easy insertion of option boards are provided on the rear panel.
- Option boards can be used to implement high-quality reproduction of a digital music signal supplied di-rectly to the amplifier, or high-quality reproduction of analog records.
- It is also possible to install two identical boards.



Digital Input Board Features a high sound quality, high-performance MDS++ D/A converter. The USB port allows connection to a computer via USB cable, for reproduction of high-resolution music library data with superior sound quality. ● COAXIAL: For 75-ohm coaxial cable Supported sampling frequency range: 32 kHz to 192 kHz, 24 bit

OPTICAL: For optical fiber cable

Supported sampling frequency range: 32 kHz to 96 kHz, 24 bit

For USB cable (Type B connector) • USB: Supported sampling frequency range: 32 kHz to 192 kHz, 24 bit

Analog Disc Input Board

Features a high-performance, high-gain phono equalizer for playback of analog records with outstanding sound quality.

MC/MM switching is possible on the front panel

of the E-370.

Internal DIP switches control MC input impedance

and subsonic filter on/off. Gain:

MC Input impedance: 30/100/300 Ω (selectable) Gain: MM Input impedance: 47 kΩ

Provides a set of general line level inputs.

Line Input Board

DAC-40 connection example Coaxial digital cable (Up to 192 kHz/24 bit) Digital (S/PDIF) output Optical fiber cable USB cable (Type B connector Up to 192 kHz/24 bit) DAC-40 * For playback of material on a computer via the USB port, if is necessary to install software from the supplied USB Utility CD-ROM. (Not required with an Apple Macintosh computer.

Front Panel § Function LED indicators Volume level display 4 Volume control B Headphone jack Bass control Attenuator 8 Treble control Function selector buttons
Speakers ON/OFF A/B

Speakers ON/OFF A/B Loudness

Sub panel

Display mode switching, MC/MM switching

Recorder ON/PLAY selection
DAC input switching, Meter ON/OFF

Rear Panel Line inputs TUNER / CD / LINE 1, 2, 3 Recorder input/ Preamplifier output connectors (Line) output connectors Power amplifier input connectors (Line) 18 Left/right speaker output terminals (A/B, 2 sets) 0 0 0 AC power connector* (9) CD/LINE balanced input connectors Pin ② – , Pin ③ + *Can be changed with phase

E-370 Guaranteed Specifications [Guar ording to EIA standard RS-490.

compensator

Pressing this button

opens the sub panel.

■ Rated Continuous Average Output Power (both channels operating simultaneously, 20 - 20,000 Hz) 150 W/ch 4-ohm load

Function selector buttons

100 W/ch 8-ohm load

● Total Harmonic Distortion (both channels operating simultaneously, 20 - 20,000 Hz) 0.05% 4 to 16 ohm load

Intermodulation Distortion 0.01%

Frequency Characteristics HIGH LEVEL INPUT

control

At rated continuous average output: $20 - 20,000 \; \text{Hz} \; +0, -0.5 \; \text{dB}$

POWER INPUT

At rated continuous average output:

20 - 20,000 Hz +0, -0.2 dB At 1 watt output: 3 - 150,000 Hz +0, -3.0 dB

400 (with 8-ohm load, 50 Hz) Damping Factor

Input Sensitivity, Input Impedance

land.	Input sensitivity		Input
Input	For rated output	For 1 W output (EIA)	impedance
HIGH LEVEL INPUT	142 mV	14.2 mV	20 kΩ
BALANCED INPUT	142 mV	14.2 mV	40 kΩ
POWER IN	1.13 V	113 mV	20 kΩ

Output Voltage, Output Impedance

PRF OUTPUT 1 13 V 50 ohms (at rated continuous average output)

Gain

HIGH LEVEL INPUT → PRE OUTPUT: 18 dB → OUTPUT:

Tone Controls

_TREBLE: 3 kHz ±10 dB (20 kHz)

● Loudness Compensation +6 dB (100 Hz)

Attenuator

S/N Ratio, Input-converted Noise

		Input shorted (A weighting)	S/N ratio
		S/N ratio at rated output	(EIA)
	HIGH LEVEL INPUT	107 dB	98 dB
	BALANCED INPUT	97 dB	97 dB
	POWER IN	123 dB	102 dB

Power Meters Logarithmic peak level indication, shown in dB and %

 Load Impedance 4 - 16 ohms (Terminals A or B)

8 - 16 ohms (Terminals A and B simultaneously) Stereo Headphones Suitable impedance: 8 ohms or higher

120 V/230 V AC, 50/60 Hz Power Requirements

(Voltage as indicated on rear panel) 46 watts idle Power Consumption

245 watts in accordance with IEC 60065

Maximum Dimensions Width 465 mm (18-5/16") Height 171 mm (6-6/8") Depth 422 mm (16-5/8")

22.7 kg (50.1 lbs) net

29.0 kg (63.1 lbs) in shipping carton

- This product is available in versions for 120/220/230 V AC. Make sure that the voltage shown on the rear panel matches the AC line voltage in your area.
- The 230 V version has an Eco Mode that switches power off after 120 minutes of inactivity.

 The shape of the AC inlet and plug of the supplied power cord depends on the voltage rating and destination country.

Supplied accessories

- AC power cord
- Remote Commander RC-230



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