

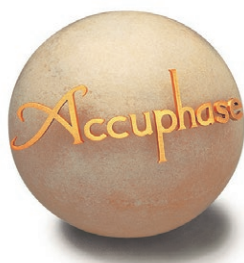
Accuphase

PRECISION INTEGRATED STEREO AMPLIFIER

E-5000

- Integrated amplifier with fully balanced configuration extending from input to output
- Balanced AAVA volume control
- Power amplification stage configured as instrumentation amplifier
- Five-fold parallel push-pull configuration of power transistors driven in Class AB
- High power output of 240 watts into 8 ohms / 320 watts into 4 ohms
- High damping factor of 1,000
- Strong power supply with massive high-efficiency toroidal transformer and high-voltage, large filtering capacitors
- Protection circuitry using MOS-FET switches





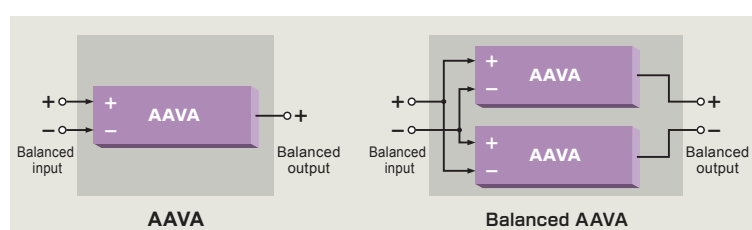
High-output integrated amplifier featuring Balanced AAVA

The E-5000 is the flagship high-power Class AB integrated amplifier developed to mark Accuphase's 50-year anniversary. The preamplifier section features our superior Balanced AAVA volume control, while the power amplifier section includes an instrumentation amp and power transistors in a five-fold push-pull arrangement driven in Class AB. These circuits create a balanced circuit from input to output. With its precisely balanced circuits and solidly built output stage, the E-5000 integrated amplifier presents every piece of music in exquisite detail.

Innovation – The leading edge of technology

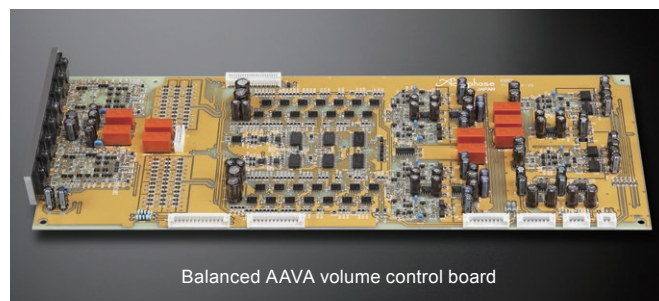
■ Balanced AAVA volume control

Conventional preamplifiers use variable resistors to adjust volume, which causes contacts to deteriorate and create grit as well as increase noise at normal volume levels. AAVA, however, produces multiple, widely varying signals from the input signal and controls volume by changing the combination of those signals. This achieves minimum noise at all volume levels without any grit. The E-5000 with its balanced AAVA circuits delivers exceptional noise suppression performance.

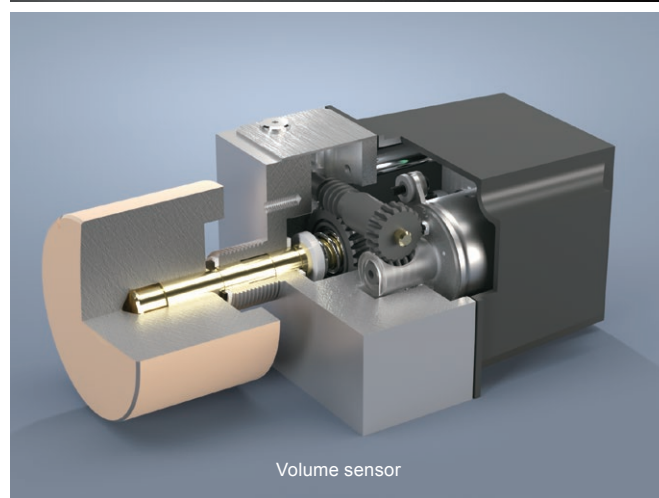


■ Quiet and smooth volume sensor design

The AAVA controls the volume levels by using its volume sensor to detect the position of the volume knob and then changing the combination of those signals. Accuphase developed the volume sensor in-house, using robust and heavy materials and crafting it using an aluminum block extrusion process to achieve smooth operations, a solid operation feel, and precise position detection when rotating the knob. It also suppresses operation sounds when using the Remote Commander to allow for quiet and pleasant volume adjustment.



Balanced AAVA volume control board



Volume sensor

Sound quality – Simply aiming for the best

■ Formidable power amplification stage

The power amplification stage on both the left and right sides is equipped with a large heat sink and employs five-fold parallel push-pull power transistors driven in Class AB to provide rated, high-power output of 240 watts into 8 ohms and 320 watts into 4 ohms.

■ High damping factor brings out the full potential of the loudspeakers

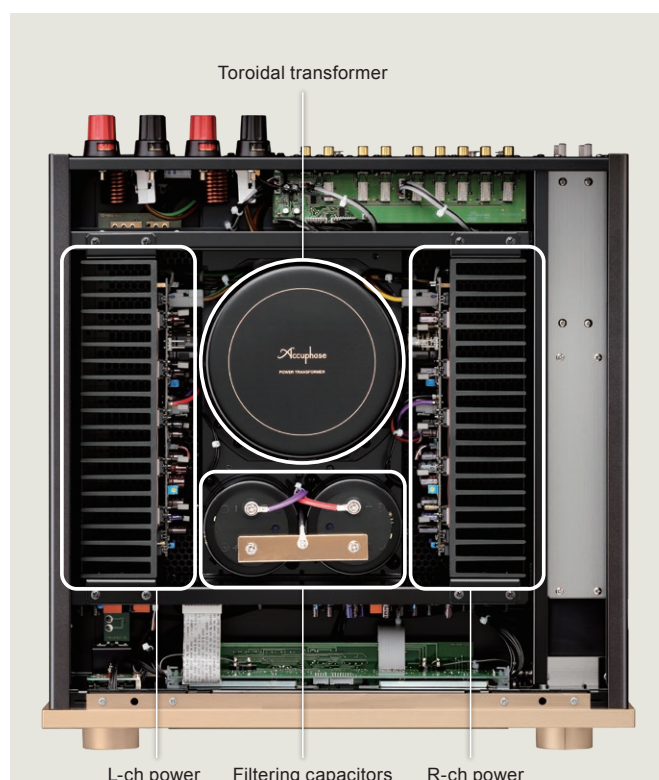
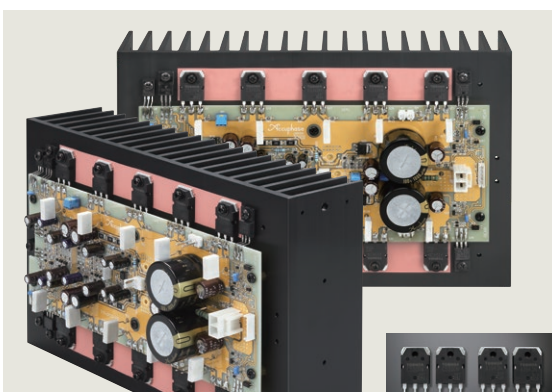
The damping factor represents the amplifier's ability to drive the speakers. A damping factor of 1,000 (guaranteed) extracts the maximum potential from the loudspeakers.

■ Power supply circuitry designed for optimum stability

A strong power supply featuring a massive toroidal transformer and two high-voltage, large filtering capacitors (40,000 μ F/100 V) offers a stable power supply at all times.



Massive toroidal transformer



Toroidal transformer

L-ch power

Filtering capacitors

R-ch power

When style



matters



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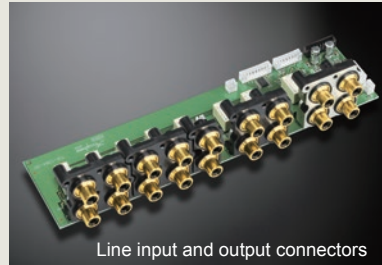
- Find specs, manuals and used listings across thousands of audio products.

Advanced features

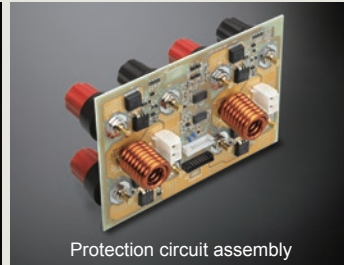
- Balanced AAVA volume control
- Highly reliable logic-control signal switching relays
- Ample input connectors (Five line level and two balanced)
- Line level input and output connectors for a recorder
- Individual phase setting for each input
- Stereo signal can be switched to monophonic operation
- Left / right balance control through Balanced AAVA
- Volume attenuator that can instantly reduce sound as low as -20 dB
- Loudness compensator to adjust audible sonic balance
- Tone controls using summing active filters
- Power amplification stage employs instrumentation amplifier principle
- Current feedback amplification circuit topology assures excellent phase characteristics in high range
- Speaker output protection circuit guards against short-circuiting
- Protection circuitry using low impedance, highly reliable MOS-FET switches
- Two massive speaker connectors for output switching and simultaneous output
- Line level and balanced outputs at the preamplifier section support bi-amping connection
- Line level and balanced inputs at the power amp section allow use as a power amplifier
- Dedicated, high-quality headphone amplifier constructed with discrete components
- Two expansion slots for option boards
 - [When AD-50 / AD-30 / AD-20 is installed]
 - MC / MM switching from the front panel
 - [When DAC-60 / DAC-50 / DAC-40 is installed]
 - DAC switching from the front panel
 - Sampling frequency display of digital input signal



- | | | |
|--------------------------------|--|--|
| 1 Speaker output selector | 6 Mono / stereo selector button | 11 Balance control |
| 2 Bass control | 7 Loudness compensator on / off button | 12 Preamplifier / power amplifier separator switch |
| 3 Treble control | 8 DAC input selector button | 13 Recorder selector |
| 4 Tone control on / off button | 9 MC / MM selector button | |
| 5 Phase selector button | 10 Display mode selector button | |



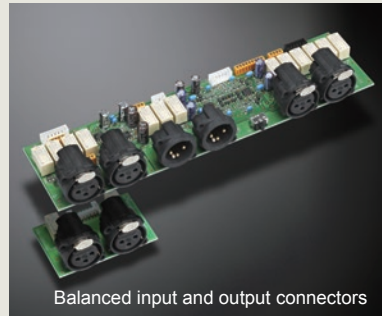
Line input and output connectors



Protection circuit assembly



MOS-FET switches



Balanced input and output connectors



Speaker terminals connected directly to protection circuitry



High-carbon cast iron insulators

-30.0 dB
Volume display

11.2 MHz
Sampling frequency display
(When DAC-60 is installed)



A newly developed large analog power meter capable of displaying output level to -50 dB



Includes CD player operation

Supplied Remote Commander RC-250

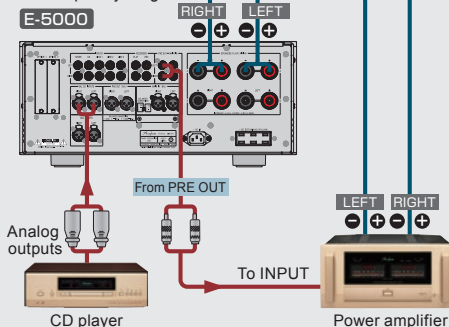


Bi-amping for further enhanced sound

In a bi-amped configuration, the speaker units for the LOW and HIGH frequency range are driven by separate amplifiers with equal gain, enabling sonic reproduction with even higher sound quality.

*The loudspeakers must have a built-in crossover network and separate inputs for the LOW and HIGH range.

*The example shows a setup with an additional power amplifier for the low frequency range.



Option Boards



According to the requirements, the rear panel expansion slots allow mounting of up to two option boards: DAC-60, AD-50 and/or LINE-10.

■ The following option boards can also be used:

Digital Input Board	DAC-50 / DAC-40 / DAC-30 / DAC-20 / DAC-10
Analog Record Input Board	AD-30 / AD-20 / AD-10 / AD-9
Line Input Board	LINE-9

Analog Record Input Board AD-50

Features a high-performance phono equalizer for playback of analog records.

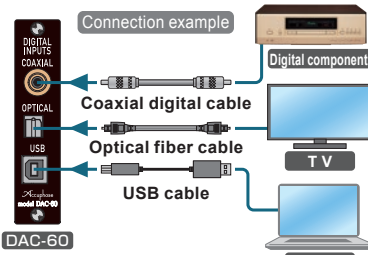
- Supports MC and MM cartridges
- Load impedance selection (MC only)
- Subsonic filter

Cartridge	MC	MM
Gain	66 dB	40 dB
Input Impedance	30 ohms 100 ohms 300 ohms	47 kilohms

AD-50

Digital Input Board

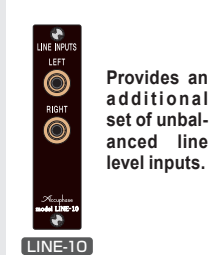
DAC-60



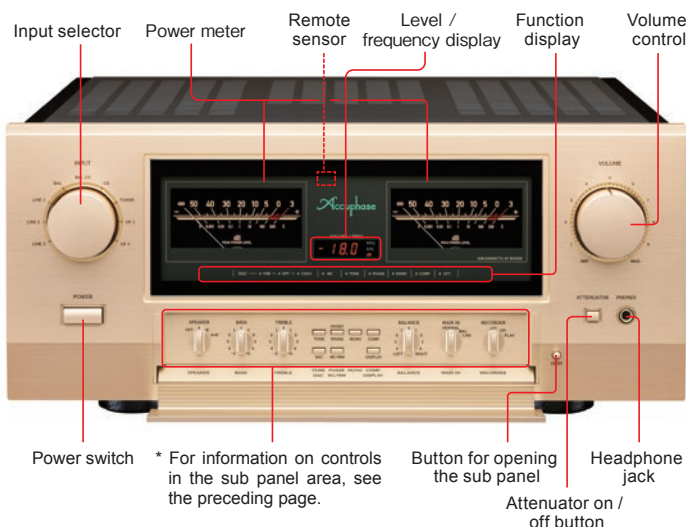
High-performance DAC with two ES9016K2M chips from ESS Technology driven in parallel.

Input	Signal	Sampling frequencies	Number of bits
USB	DSD	2.8 MHz	1-bit
		5.6 MHz	
		11.2 MHz [ASIO only]	
OPTICAL	PCM	32 to 384 kHz	32-bit
		32 to 96 kHz	24-bit
COAXIAL	PCM	32 to 192 kHz	24-bit

Line input board LINE-10

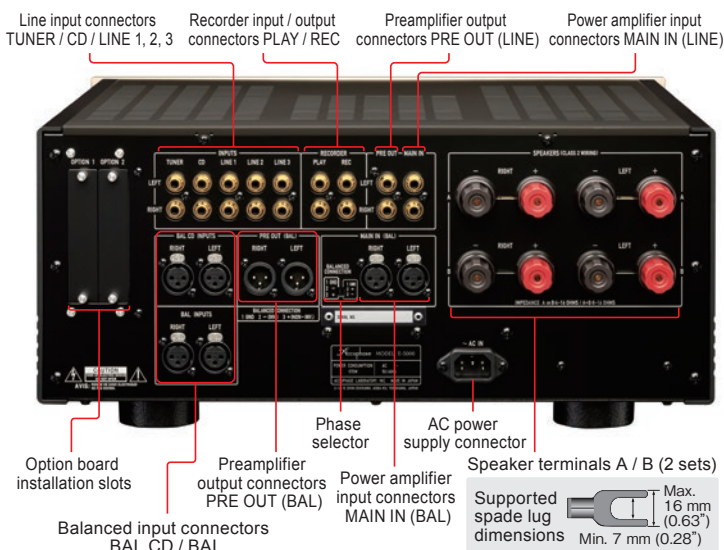


Front Panel



* For information on controls in the sub panel area, see the preceding page.

Rear Panel



E-5000 Guaranteed Specifications [Guaranteed specifications are measured according to EIA standard RS-490]

Rated Continuous Average Output (20 – 20,000 Hz)	both channels driven	4-ohm load	320 W / ch
		8-ohm load	240 W / ch
Total Harmonic Distortion (20 – 20,000 Hz)	both channels driven	4 to 16 ohm load	0.05%
Intermodulation Distortion			0.01%
Frequency Response	INPUT (BALANCED / LINE)	*	20 – 20,000 Hz (0, -0.5 dB)
	MAIN IN (BALANCED / LINE)	*	20 – 20,000 Hz (0, -0.2 dB)
	At 1 W output		3 – 150,000 Hz (0, -3.0 dB)
Damping Factor	with 8-ohm load, 50 Hz		1,000
Input Sensitivity	At rated output	INPUT (BALANCED / LINE)	220 mV
		MAIN IN (BALANCED / LINE)	1.74 V
	EIA (at 1 W output)	INPUT (BALANCED / LINE)	14.2 mV
		MAIN IN (BALANCED / LINE)	113 mV
Input Impedance		INPUT (BALANCED)	40 kilohms
		INPUT (LINE)	20 kilohms
		MAIN IN (BALANCED)	40 kilohms
		MAIN IN (LINE)	20 kilohms
Maximum Input Voltage	INPUT (BALANCED / LINE)		5.0 V
Output Voltage and Impedance	At rated continuous average output	PRE OUTPUT (BALANCED / LINE)	1.74 V
			50 ohms
Gain	INPUT (BALANCED / LINE) → PRE OUTPUT (BALANCED / LINE)		18 dB
	MAIN IN (BALANCED / LINE) → SPEAKER OUTPUT		28 dB

*: At rated continuous average output

Supplied accessories

● AC power cord

● Remote Commander RC-250

Remarks

★ 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 plug of the supplied AC power cord depends on the voltage rating and destination country.

