

# Accuphase

Class-A  
PRECISION INTEGRATED STEREO AMPLIFIER

## E-700

- Integrated amplifier with fully balanced configuration from input to output
- Balanced AAVA type volume control ● High-accuracy, high-rigidity volume sensor construction ● Power amplification stage configured as an instrumentation amplifier
- Four-fold parallel push-pull configuration using power MOS-FETs driven in Class A
- Linear power output of 35 watts into 8 ohms, 70 watts into 4 ohms, or 140 watts into 2 ohms ● 160 W output into 1-ohm load (music signals) ● High damping factor of 1,000 ● Strong power supply with massive high-efficiency toroidal transformer and large filtering capacitors ● Protection circuitry using MOS-FET switches





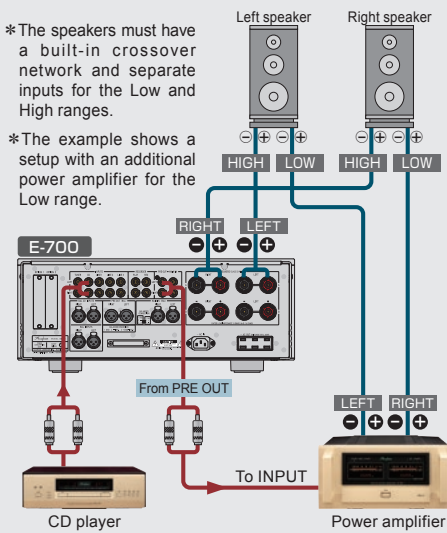


## Bi-amping for Further Enhanced Sound

In a bi-amped setup, the speaker units for the Low range and the High range are driven by separate amplifiers with equal gain, enabling playback with higher sound quality.

\*The speakers must have a built-in crossover network and separate inputs for the Low and High ranges.

\*The example shows a setup with an additional power amplifier for the Low range.



## Option Boards



The rear panel expansion slots allow use of three types of option boards: DAC-60, AD-60, and LINE-10. The E-700 can accommodate two boards according to the requirements.

■ 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-50/AD-30/ AD-20/AD-10/AD-9
Line Input Board	LINE-9

### Analog Record Input Board AD-60



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

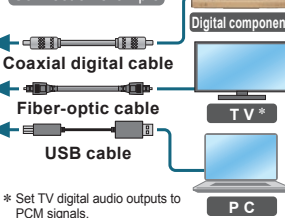
- Supports MC and MM cartridges
- Load impedance selection (MC only)
- Subsonic filter

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

### Digital Input Board DAC-60



Connection example



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	
		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

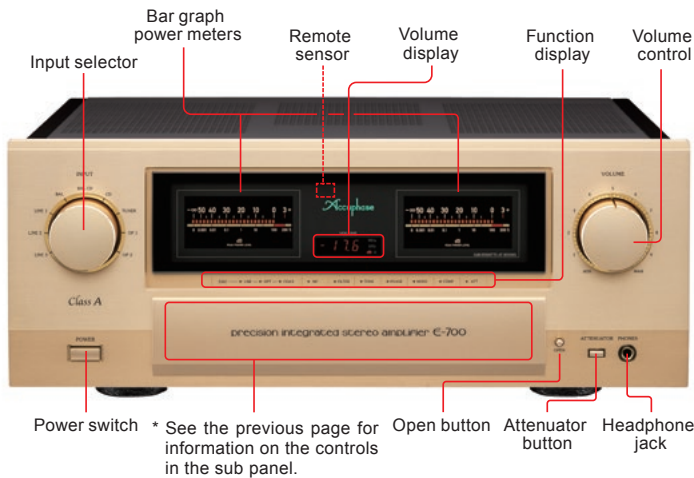
\* Set TV digital audio outputs to PCM signals.

### Line Input Board LINE-10



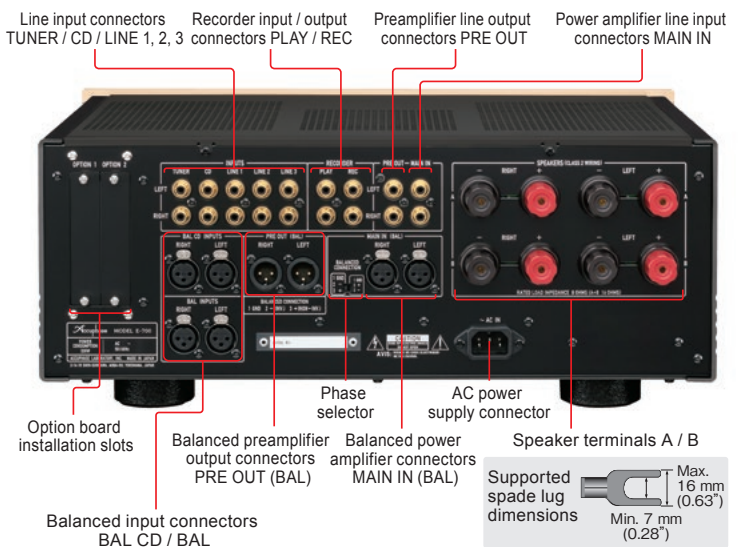
Provides an additional set of unbalanced line level inputs.

## Front Panel



\* See the previous page for information on the controls in the sub panel.

## Rear Panel



Supported spade lug dimensions  
Max. 16 mm (0.63")  
Min. 7 mm (0.28")

## E-700 Guaranteed Specifications

Rated Output (20 to 20,000 Hz)	1-ohm load *		160 W/ch
	2-ohm load *		140 W/ch
	4-ohm load *		70 W/ch
	8-ohm load		35 W/ch
Total Harmonic Distortion (20 to 20,000 kHz, rated output)	2 to 4-ohm load		0.05 %
	8 to 16-ohm load		0.03 %
Intermodulation Distortion	0.01 %		
Frequency Response	At rated output	INPUT (BALANCED / LINE)	20 to 20,000 Hz (0, -0.5 dB)
	At 1 W output	MAIN IN (BALANCED / LINE)	20 to 20,000 Hz (0, -0.2 dB)
Damping Factor	1,000		
	Input Sensitivity	At rated output	INPUT (BALANCED / LINE)
		MAIN IN (BALANCED / LINE)	666 mV
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
Max. Input Voltage	INPUT (BALANCED / LINE)		5.0 V
Output Voltage	At rated output	PRE OUTPUT (BALANCED / LINE)	0.666 V
Output Impedance	PRE OUTPUT (BALANCED / LINE)		50 ohms
Gain	INPUT (BALANCED / LINE) → PRE OUTPUT (BALANCED / LINE)		18 dB
	MAIN IN (BALANCED / LINE) → SPEAKER OUTPUT		28 dB

Tone Controls	Turnover frequency and adjustment range	Bass: 300 Hz	±10 dB
		Treble: 3 kHz	±10 dB
Loudness Compensator	+6 dB (100 Hz)		
Attenuator	-20 dB		
S/N Ratio	At rated output (Input shorted, A weighting)	INPUT (BALANCED)	103 dB
		INPUT (LINE)	103 dB
	EIA	MAIN IN (BALANCED / LINE)	117 dB
		MAIN IN (BALANCED / LINE)	97 dB
	MAIN IN (BALANCED / LINE)	101 dB	
Power Meters	Bar graph meters, Output voltage (dB) using 26 points, with ON/OFF switch		
Headphones Jack	Compatible impedance		8 ohms or higher
Power Requirements	120 V, 220 V, 230 V AC (voltage as indicated on rear panel)		
Power Consumption	Idle		178 W
	In accordance with IEC 62368-1		220 W
	Stand-by		0.3 W
Maximum Dimensions	Width 465 mm (18.3") × Height 191 mm (7.5") × Depth 428 mm (16.9")		
	Mass	Net	24.9 kg (54.9 lbs)
In shipping carton		32 kg (71 lbs)	

\* Music signals only

● Measurement methods for Guaranteed Specifications adhere to JEITA CP-1301A and IEC 60268-3.

### 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.



ACCUPHASE LABORATORY, INC.

● The specifications and appearance of this product are subject to change without notice.

<https://www.accuphase.com/>

C2405Y 850-2232-00 (B1) PRINTED IN JAPAN