

PRECISION STEREO CONTROL CENTER

C-2300

● Balanced AAVA volume control ● 4-band tone control ● Quiet and smooth volume sensor construction ● Ample inputs: 5 Line and 2 Balanced ● Independent power supplies and unit amplifiers for left and right ● Phase setting memory for each input ● Highly reliable logic-controlled signal switching relays ● High-quality headphone amplifier ● Additional option boards support digital signals and analog records



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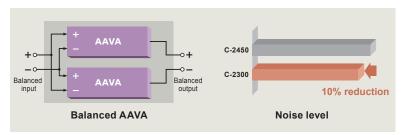
Balanced AAVA preamplifier combining sound quality and functionality

For more than half a century, Accuphase has continued its relentless pursuit of creating the ideal volume control circuitry. The C-2300 preamplifier utilizes Balanced AAVA – the successor of the AAVA system – to control volume without sacrificing vibrancy in the source sound. A newly added 4-band tone control enables fine adjustments to sound tone. Experience the sonic depth from the combined sound quality and superior features the C-2300 provides.

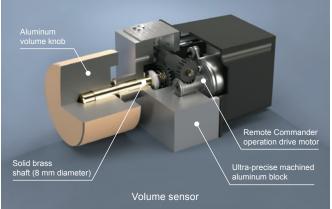
Innovation - Leading-edge technology

■ Balanced volume control, Balanced AAVA

Conventional preamplifiers use variable resistors to adjust volume, which causes contacts to deteriorate and creates grit while increasing 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 C-2300 incorporates "Balanced AAVA" consisting of balanced "AAVA" circuits, which further reduces the noise level by approximately 10% over the C-2450.



Input amplifier Voltage-to-current converter amplifier 1 Voltage-to-current converter amplifier 2 Current-to-voltage converter amplifier Balanced AAVA built with discrete circuit boards



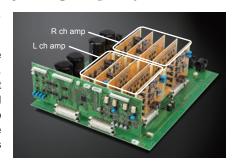
■ Quiet and smooth volume sensor design

AAVA uses a volume sensor design to detect the position of the volume knob and changes the combination of signals to adjust volume. Machined from an aluminum block in an ultra-precise extrusion process, the C-2300 uses a volume sensor design developed in-house with hefty, rigid materials to achieve an utterly smooth and solid operation feel when rotating the knob for extremely accurate position detection. Operational sounds are subdued even when using the Remote Commander, resulting in quiet and gratifying volume adjustment.

Sound quality - In pursuit of the highest quality audio

Separate unit amplifiers for left and right

Music signal circuits like the AAVA contain five unit amplifiers. By separating the left and right channels, the attention to detail in the unit amplifiers works to suppress electrical interference and prevent any negative impacts on sound quality.

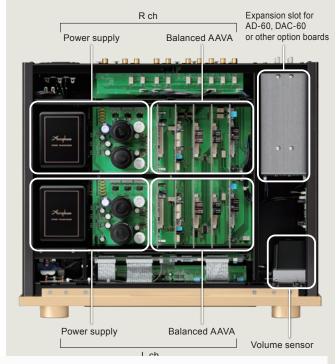


Separate power supplies for left and right channels

The power source driving the circuits can greatly affect sound quality. Each side of this preamplifier features a high-quality transformer housed inside its own case. The two $10,\!000~\mu F$ high-capacity, high-quality custom-made filtering capacitors mounted on each side supply power with margins and are highly impervious to load fluctuations.



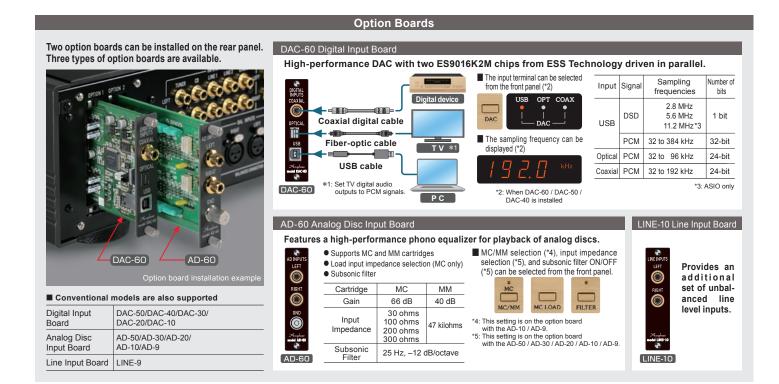


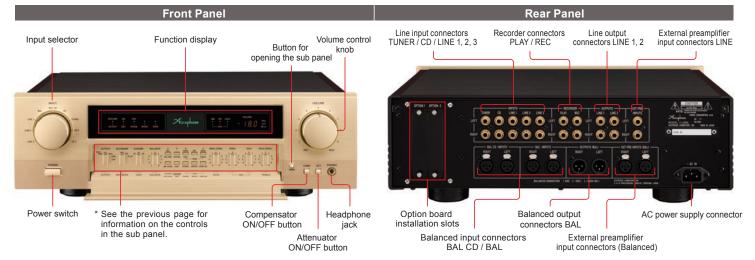


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Advanced features ■ Balanced AAVA volume control ■ Highly reliable logic-controlled signal switching relays ■ Separate power supplies for the left and right channels ■ Volume sensor design achieves a quiet and smooth Line input and output connectors 2 Balanced input and output connectors ■ Abundant inputs/outputs (5 line level inputs, 2 line level outputs, 2 balanced inputs, 1 balanced output) 12 ■ Line level and balanced EXT PRE inputs for connection of an external preamplifier 3 ■ Recorder selector (OFF / ON / PLAY) ·······5 ■ Left/right balance control with Balanced AAVA················⑦ ■ MC/MM switching (when AD-60 / AD-50 / AD-30 / ■ Subsonic filter ON/OFF switching (when AD-60 is installed) · · · (9) ■ MC load input impedance switching (when AD-60 is installed, 30 / 100 / 200 / 300 ohms)...... ■ DAC input selector (when DAC-60 / DAC-50 / DAC-40 ■ Individual phase setting for each input·············(2) ■ Stereo signal can be switched to monophonic operation…(3) (40 Hz / 125 Hz, 500 Hz, 2 kHz, 8 kHz / 20 kHz) ■ Discretely configured, high-quality headphone amplifier with parallel push/pull output stages ■ High-carbon cast iron insulators for superior vibration Frequency (Hz) 6 4-band tone control ■ Loudness compensator to adjust audible sonic balance… (9) ■ Volume attenuator that can instantly reduce sound as low LOUDNESS COMPENSATOR : ON Headphone amplifier 18 High-carbon cast 19 Loudness compensator iron insulators properties Can also control Accuphase CD players Supplied Remote

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C-2300 Guaranteed Specifications

Minimum Load Impedance

Frequency	BALANCED / LINE INPUT			3 – 200,000 Hz +0 –3.0 dB 20 – 20,000 Hz +0 –0.2 dB			
Response	★AD INPUT	MM / MC			Hz ±0.3 dB		
Total Harmonic Distortion	(20 – 20,000 Hz,	at rated output, all input connectors) 0.005 %					
Input Sensitivity, Input Impedance	Input connector	Input sensitivity			Inni	ıt impodonoo	
		At rated output	t rated output For 0.5 V output			Input impedance	
	BALANCED	252 mV	6	3 mV	40 kilohms (20 kilohms / 20 kilohms)		
	LINE	252 mV	6	63 mV		20 kilohms	
	★AD: MM / 40 dB	2.5 mV	0.	63 mV	47 kilohms		
	★AD: MC / 66 dB	0.126 mV	0.0	0315 mV 30 / 100		/ 200 / 300 ohms	
Rated Output Voltage, Output Impedance	BALANCED / I	ED / LINE OUTPUT 2 V			V	50 ohms	
	★RECORDER REC (at AD input) 252				mV	200 ohms	
S/N Ratio, Input Converted Noise	Input connector	Input shorted (A weightin			nting)	S/N ratio (EIA)	
		S/N ratio at rated output				S/N Tallo (LIA)	
	BALANCED / LINE	111 dB			108 dB		
	★AD: MM / 40 dB	80 dB			80 dB		
	★AD: MC / 66 dB	68 dB			80 dB		
Max. Output Voltage	BALAI	7.0 V					
	(Distortion: 0.005%, 1 kHz)	tortion: 0.005%, 1 kHz) RECORDER REC (at AD output)					
Max. Input Voltage	BALANCED / LINE INPUT					6.0 V	
	(Distortion: 0.005%, 1 kHz)	★AD MM / 40 dB INPUT				60.0 mV	
		★AD MC / 66 dB INPUT				3.0 mV	

-74 dB / 10 kHz					
INPUT		OUTPUT	Gain		
BALANCED / LINE		BALANCED / LINE	18 dB		
BALANCED / LINE		RECORDER REC	0 dB		
★AD MM: 40 dB		BALANCED / LINE	58 dB		
★AD MM: 40 dB		RECORDER REC	40 dB		
★AD MC: 66 dB		BALANCED / LINE	84 dB		
★AD MC: 66 dB		RECORDER REC	66 dB		
+6.0 dB (100 Hz)					
25 Hz		-12 dB/octave			
Suitable impedance		8 ohms or higher			
Output level 2 V (40			ohms)		
–20 dB					
120 V, 220 V, 230 V AC (voltage as indicated on rear panel)					
50 / 60 Hz					
41 W (when option board AD-60 and DAC-60 are installed)					
Width 465 mm (18.3") × Height 150 mm (5.9") × Depth 405 mm (15.9")					
Net	19.3 kg (42.5 lbs)				
In shipping carton	on 25 kg (52 lbs)				
	BALANCED / LINE BALANCED / LINE BALANCED / LINE AD MM: 40 dB AD MC: 66 dB AD MC: 66 dB AD MC: 66 dB 25 Hz Suitable impedance Output level 120 V, 220 V, 23 41 W (when opti Width 465 mm (18.3")	BALANCED / LINE BALANCED / LINE #AD MM: 40 dB #AD MM: 40 dB #AD MC: 66 dB #AD MC: 66 dB *AD MC: 66 dB 25 Hz Suitable impedance Output level 120 V, 220 V, 230 V A 41 W (when option b) Width 465 mm (18.3") × He Net	INPUT BALANCED / LINE RECORDER REC ★AD MM: 40 dB BALANCED / LINE ★AD MC: 66 dB RECORDER REC ★AD MC: 66 dB BALANCED / LINE ★AD MC: 66 dB RECORDER REC +6.0 dB (100 Hz) 25 Hz -12 dB, Suitable impedance Output level 2 V (40 -20 dB 120 V, 220 V, 230 V AC (voltage as indicated to the companion of t		

BALANCED / LINE OUTPUT

600 ohms

★ Indicates properties with the analog disc input board AD-60 installed.

Supplied accessories

- AC power cord
- Remote Commander RC-250
- Audio cable with plugs AL-10, 1 m (39.4")

- 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.



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