

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





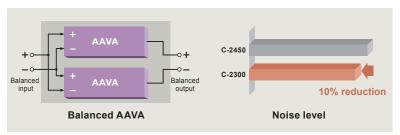
Balanced AAVA preamplifier combining sound quality and functionality

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.

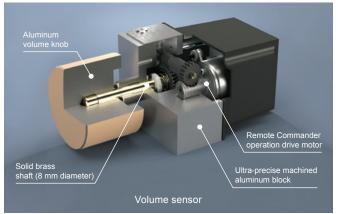
Innovation - Leading-edge technology

■ 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



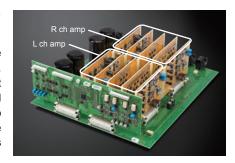
■ Quiet and smooth volume sensor design

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.

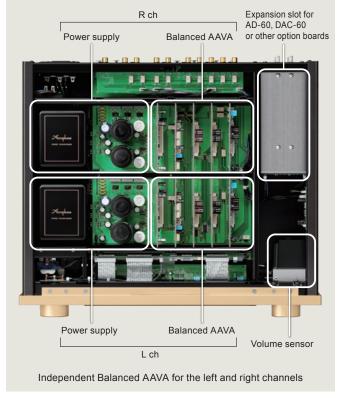


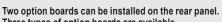
Separate power supplies for left and right channels

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.









Three types of option boards are available.

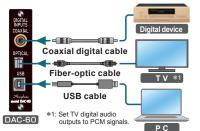


■ Conventional models are also supported

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

DAC-60 Digital Input Board

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



Option Boards

■ The input terminal can be selected from the front panel (*2)

■ The sampling frequency can be displayed (*2)

> *2: When DAC-60 / DAC-50 / DAC-40 is installed

Input	Signal	Sampling frequencies	Number of bits
USB	DSD	2.8 MHz 5.6 MHz 11.2 MHz*3	1 bit
	PCM	32 to 384 kHz	32-bit
Optical	PCM	32 to 96 kHz	24-bit
Coaxial	PCM	32 to 192 kHz	24-bit

*3: ASIO only

AD-60 Analog Disc Input Board

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

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

Cartridge МС MM 66 dB Gain 40 dB 30 ohms 100 ohms Input 47 kilohms Impedance 200 ohms 300 ohms Subsonic 25 Hz, -12 dB/octave

■ MC/MM selection (*4), input impedance selection (*5), and subsonic filter ON/OFF (*5) can be selected from the front panel.







*4: This setting is on the option board with the AD-10 / AD-9. *5: This setting is on the option board with the AD-50 / AD-30 / AD-20 / AD-10 / AD-9.



LINE-10 Line Input Board



additional set of unbalanced line level inputs.

Front Panel			Rear Panel			
Input selector	Function display	Volume control Button for knob opening the sub panel	Line input connectors TUNER / CD / LINE 1, 2, 3	Recorder connectors Line out PLAY / REC connectors I		
100 Miles			Print Print C	No. No.	A TOTAL CONTROL OF THE PARTY OF	
Power switch	* See the previous page for information on the controls in the sub panel.	Compensator Headphone ON/OFF button jack Attenuator ON/OFF button	Option board installation slots Balanced input BAL CD			

C-2300 Guaranteed Specifications

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	20 – 20,000 Hz ±0.3 dB				
Total Harmonic Distortion	(20 – 20,000 Hz,	at rated output, all input connectors)				0.005 %	
	Innut connector	Input sensitivity			Inni	t impodonoo	
	Input connector	At rated output For 0.5 V output			Шрс	Input impedance	
Input Sensitivity,	BALANCED	252 mV	6	63 mV 40 kiloh		40 kilohms (20 kilohms / 20 kilohms)	
Input Impedance	LINE	252 mV	6	63 mV 2		20 kilohms	
	★AD: MM / 40 dB	2.5 mV	0.63 mV		47 kilohms		
	★AD: MC / 66 dB	0.126 mV	0.0	0.0315 mV 30 / 100		/ 200 / 300 ohms	
Rated Output Voltage,	BALANCED / I	ANCED / LINE OUTPUT 2 V			V	50 ohms	
Output Impedance	★RECORDER F	RECORDER REC (at AD input)			mV	200 ohms	
	Input connector	Input shorted (A weigh			ting) S/N ratio (EIA)		
C/N Datia Innut	input connector	S/N ratio at rated output			S/N Tallo (EIA)		
S/N Ratio, Input Converted Noise	BALANCED / LINE	111 dB			108 dB		
Convented Noise	★AD: MM / 40 dB	80 dB			80 dB		
	★AD: MC / 66 dB	68 dB			80 dB		
Max. Output Voltage	BALANCED / LINE OUTPUT					7.0 V	
	(Distortion: 0.005%, 1 kHz)	Distortion: 0.005%, 1 kHz) RECORDER REC (at AD output)				6.0 V	
Max. Input Voltage	BALANCED / LINE INPUT				6.0 V		
	(Distortion: 0.005%, 1 kHz)	★AD MM / 40 dB INPUT			60.0 mV		
	(Distollion, 0.000 /6, T KHZ)	★AD MC / 66 dB INPUT				3.0 mV	

Supplied accessories

Audio cable with plugs AL-10, 1 m (39.4")

 Remote Commander RC-250 AC power cord

Minimum Load	BALANCED / LINE OUTPUT			600 ohms		
Impedance	RECORDER REC			10 kilohms		
Crosstalk	–74 dB / 10 kHz					
	INPUT		OUTPUT	Gain		
Gain	BALANCED / LIN	E	BALANCED / LINE	18 dB		
(Gain switching:	BALANCED / LIN	E	RECORDER REC	0 dB		
18 dB) * ±6 dB GAIN switching	★AD MM: 40 dE	3	BALANCED / LINE	58 dB		
possible for all modes	★AD MM: 40 dE	3	RECORDER REC	40 dB		
except REC OUTPUT	★AD MC: 66 dE	3	BALANCED / LINE	84 dB		
	★AD MC: 66 dE	3	RECORDER REC	66 dB		
Loudness compensation	+6.0 dB (100 Hz)					
★Subsonic filter	25 Hz –12 dB/octave					
Llandahana isak	Suitable impedan	ce	r higher			
Headphone jack	Output level		2 V (40	ohms)		
Attenuator	-20 dB					
Power	120 V, 220 V, 230 V AC (voltage as indicated on rear panel)					
requirements	50 / 60 Hz					
Power Consumption	41 W (when option board AD-60 and DAC-60 are installed)					
Maximum dimensions	Width 465 mm (18.3") × Height 150 mm (5.9") × Depth 405 mm (15.9")					
Mana	Net	19.3 kg (42.5 lbs)				
Mass	In shipping carton	25 kg (52 lbs)				

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

- 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.

