

STEREO CONTROL CENTER

C-2150

● AAVA volume control with newly developed ANCC feature ● Five line level and two balanced inputs for optimum flexibility ● Recorder connection support ● Logic-control relays for shortest signal paths ● Separate power supplies for left and right channels ● Fully modular construction with individual left / right amplifier units ● Phase selection function ● Tone controls ● Dedicated headphone amplifier ● Option board slots provide additional versatility for digital input handling and analog record playback



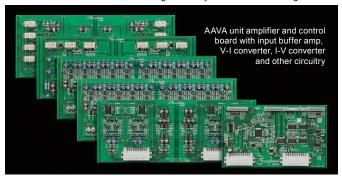


The C-2150 for the first time combines a new topology called ANCC with the AAVA volume control principle. As a result, music reproduction is supple, elegant and full of transparency, with a spatial expression capability that makes one forget the presence of any volume control circuit. With a functionality level close to higher-end models and a versatile array of input and output terminals, plus the choice of adding option boards, the C-2150 provides fully immersive music enjoyment. This next-generation control center will satisfy even the most demanding music lover.

Innovation - The leading edge of technology

AAVA operation principle is purely analog

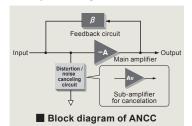
AAVA converts the music signal into 16 differently weighted current streams $(1/2, 1/2^2, ... 1/2^{16}, 1/2^{16})$ which are combined according to the position of the volume control knob, resulting in exactly the desired listening level.

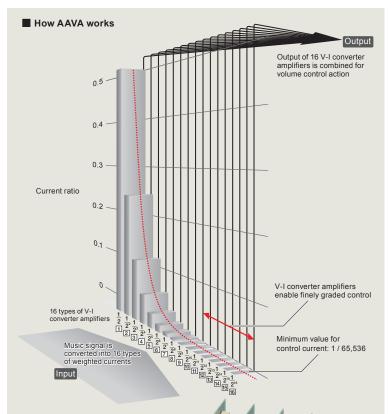


Drastic reduction of distortion and noise ANCC: Accuphase Noise and distortion Cancelling Circuit

The C-2150 uses ANCC topology for the I-V converter amplifier, balanced output amplifier, and headphone amplifier. This innovative topology adds a sub-amplifier for effectively canceling noise in the main amplifier circuit. The use of

amplifier circuit. The use of low-noise technology in the sub-amplifier (noise density: 1.5 nV / \Hz) further enhances the benefits of ANCC. By incorporating ANCC in the I-V converter amplifier and the balanced amplifier of the AAVA section, a further drastic reduction in noise is achieved, especially at low to medium volume level positions.



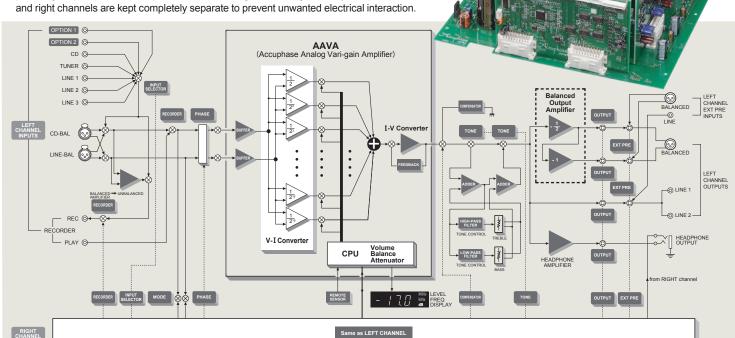


Unit amplifie

High reliability

Separate unit amplifiers for left and right

The C-2150 comprises five separate amplifiers: input buffer, V-I converter, I-V converter, output buffer, and headphone. These are configured as five separate circuit boards arranged on a motherboard, providing ample space for components and ensuring outstanding reliability and performance. Left and right channels are kept completely separate to prevent unwanted electrical interaction.



■ C-2150 Block Diagram

Advanced features

- Logic-control signal switching relays for shortest signal paths
- Five line level and two balanced inputs
- Line input and output connectors for a recorder
- EXT PRE function allows use of external preamplifier
- Individual phase setting for each input
- Stereo signal can be switched to monophonic operation
- Instrumentation amplifier principle for input buffer
- AAVA also adjusts left / right channel balance
- AAVA circuitry uses thin-film resistors to minimize thermal fluctuations and current noise
- Convenient attenuator is useful for example when operating an analog record player
- Loudness compensator enhances low end
- Tone controls using summing active filters
- Dedicated headphone amplifier using ANCC for optimum sound quality
- Maximum gain can be set to 12 dB, 18 dB, or 24 dB
- Separate power supplies for left and right channels prevent mutual interference
- On / off switching capability for level / frequency display
- Champagne-gold front panel and high-gloss side panels
- Two option board installation slots
- DAC input selector button for use when digital input board (DAC-50 or DAC-40) is installed



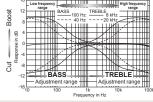


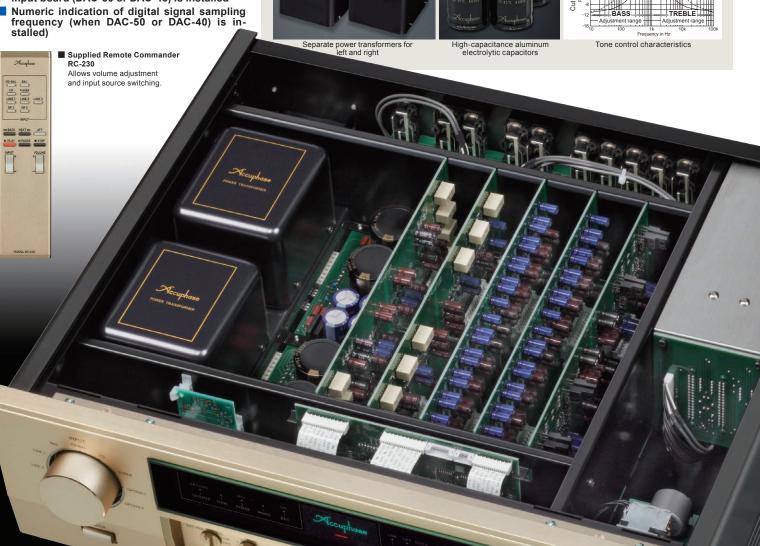


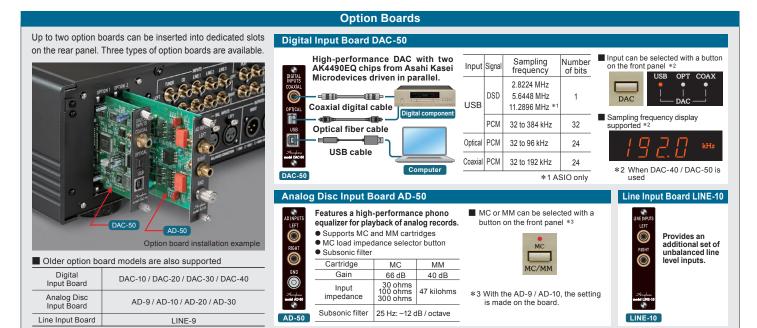
- Output selector for using an external preamplifier and switching the output
- Bass tone control knob
- Treble tone control knob
- 4 Tone control on / off button
- 6 Bass control frequency selector button
- 6 Treble control frequency selector button
- MC / MM selector button for gain switching according to the phono cartridge type when AD-50, AD-30 or AD-20 is installed
- 8 Left / right balance control knob
- Gain selector for overall system gain
- Recorder selector for function switching when a recorder is connected
- Phase selector button for input signal
- 12 Mono / stereo selector button for combining left / right channel signals
- Display mode button for level / frequency display on / off and switching
- DAC input selector button for use when digital input board (DAC-50 or DAC-40) is installed

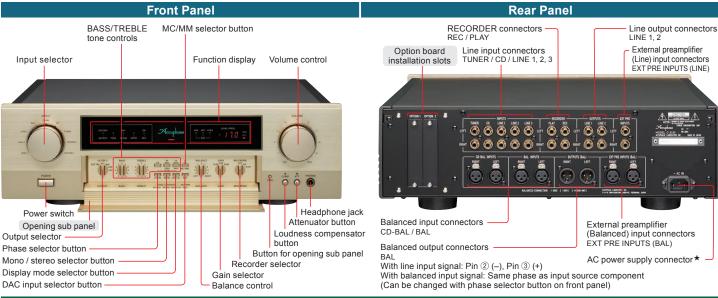












C-2150 Guaranteed Specifications [Guaranteed specifications are measured] d according to EIA standard RS-490.] * indicates values measured with AD-50 installed

Minimum Load

Frequency Response BALANCED / LINE INPUT: 3 - 200,000 Hz +0 -3.0 dB 20 -20 000 Hz +0 -0.2 dB AD INPUT [MM/MC]*: 20 -20,000 Hz ±0.3 dB

Total Harmonic Distortion (for all inputs) 0.005%

Input Sensitivity,	Input	Input sensitivity		Input impedance
Input Impedance		For rated output	For 0.5 V output	input impedance
	BALANCED	252 mV	63 mV	40 kilohms (20 / 20 kilohms)
	LINE	252 mV	63 mV	20 kilohms
	AD: MM / 40 dB*	2.5 mV	0.63 mV	47 kilohms
	AD: MC / 66 dB*	0.126 mV	0.0315 mV	30 / 100 / 300 ohms (selectable)

Rated Output Voltage, BALANCED / LINE OUTPUT: 50 ohms Output Impedance RECORDER REC (with AD input) *: 252 mV 200 ohms

O / N. D. C.					
S / N Ratio (Gain selector: 18 dB)	Input	Input shorted (A weighting)	S / N ratio		
	mput	S / N ratio at rated output	(EIA)		
	BALANCED	110 dB	108 dB		
	LINE	110 dB	108 dB		
	AD: MM / 40 dB*	80 dB	86 dB		
	AD: MC / 66 dB*	68 dB	76 dB		

Maximum Output Level (0.005% THD, 20 - 20,000 Hz)

BALANCED / LINE OUTPUT 7 0 V RECORDER REC (with AD input)*: 6.0 V BALANCED / LINE INPUT: 6.0 V

Input Voltage

Max. AD input voltage * MM / 40 dB INPUT: 60.0 mV (1 kHz, 0.005% THD) MC / 66 dB INPUT: 3.0 mV

Impedance RECORDER REC: 10 kilohms **Channel Separation** -74 dB (10 kHz) **BALANCED INPUT** → BALANCED OUTPUT: 18 dB Gain (Gain selector: 18 dB) BALANCED INPUT → LINE OUTPUT: 18 dB With gain selector set to 12 dB, add –6 dB to all values at right LINE INPUT → BALANCED OUTPUT: 18 dB LINE INPUT → LINE OUTPUT: 18 dB AD [MM:40 dB] INPUT * \rightarrow BALANCED / LINE OUTPUT: 58 dB With gain selector set to 24 dB, add 6 dB to all values at right AD [MM:40 dB] INPUT $* \rightarrow REC$ OUTPUT: 40 dB AD [MC: 66 dB] INPUT * → BALANCED / LINE OUTPUT: 84 dB AD [MC: 66 dB] INPUT * \rightarrow REC OUTPUT: 66 dB **Tone Controls** Bass / Treble controls turnover frequencies and adjustment range BASS: 40 / 100 Hz ±10 dB TREBLE: 8 / 20 kHz ±10 dB +6 dB (100 Hz) Loudness Compensation Subsonic Filter * 25 Hz: -12 dB / octave Attenuator -20 dB Headphone Jack Output level: 2 V (40 ohms), Suitable impedance: 8 ohms or higher 120 / 220 / 230 V AC, 50 / 60 Hz **Power Requirements**

BALANCED / LINE OUTPUT:

Power Consumption 34 W

Maximum Dimensions Width 465 mm(18.3") Height 150 mm(5.9" Depth 405 mm(15.9")

16.9 kg (37.0 lbs) net Mass

23.0 kg (50.7 lbs) in shipping carton

(Voltage as indicated on rear panel)

Maximum

- ★ 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.

Supplied accessories

- AC power cord
- Audio cable with plugs AL-10
- Remote Commander RC-230



ACCUPHASE LABORATORY, INC. • The specifications and appearance of this product are subject to change without notice

600 ohms