

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



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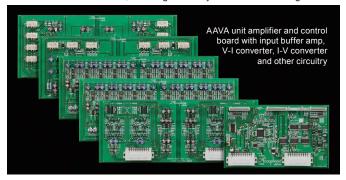
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The C-2150 for the first time combines a new topology called ANCC with the AAVA volume control principle. As a result, music reproduction is supple, elegant and full of transparency, with a spatial expression capability that makes one forget the presence 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

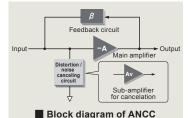
AAVA converts the music signal into 16 differently weighted current streams  $(1/2, 1/2^2, ... 1/2^{16}, 1/2^{16})$  which are combined according to the position of the volume control knob, resulting in exactly the desired listening level.

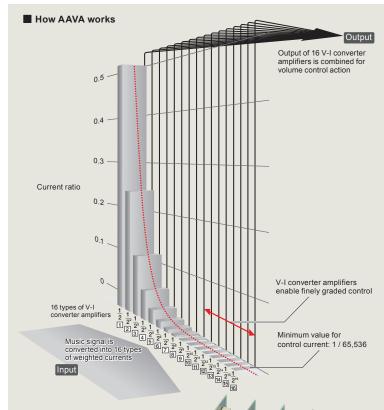


## Drastic reduction of distortion and noise ANCC: Accuphase Noise and distortion Cancelling Circuit

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

ogy adds a sub-amplifier for e 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.



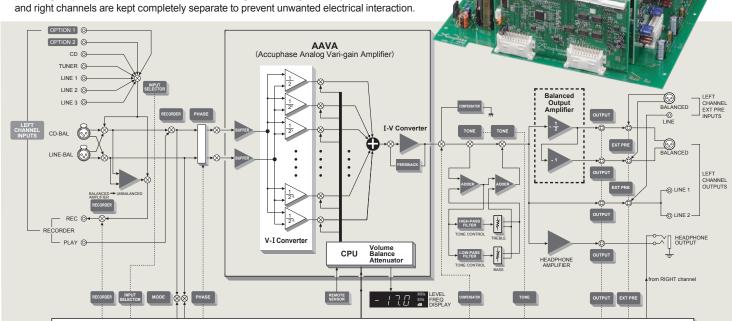


Unit amplifie

### 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.



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#### 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 presence
- 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
- Numeric indication of digital signal sampling frequency (when DAC-50 or DAC-40) is installed)

■ Supplied Remote Commander





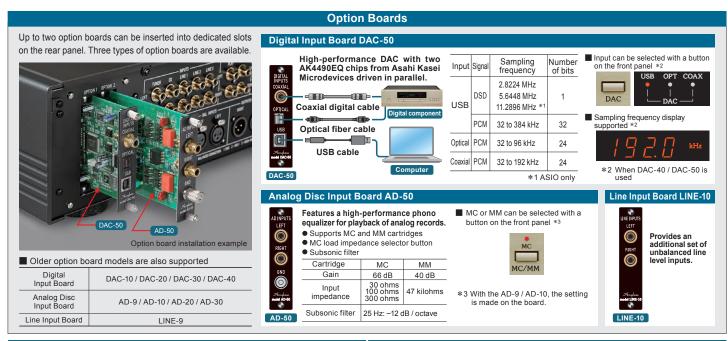


- Output selector for using an external preamplifier and switching the output
- 2 Bass tone control knob
- 3 Treble tone control knob
- 4 Tone control on / off button
- 6 Bass control frequency selector button
- 6 Treble control frequency selector button
- MC / MM selector button for gain switching according to the phono cartridge type when AD-50, AD-30 or AD-20 is installed
- 3 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
- 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





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#### according to EIA standard RS-490.] \* indicates values measured with AD-50 installed

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%

ivity,	Input	Input sensitivity		Input impedance	
dance		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

O / N. D. C.				
S / N Ratio (Gain selector: 18 dB)	Input	Input shorted (A weighting)	S / N ratio	
(Gaill Selector, 10 ub)	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

Maximum

Input Sensit

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Max. AD input voltage \* MM / 40 dB INPUT: 60.0 mV (1 kHz, 0.005% THD) MC / 66 dB INPUT: 3.0 mV Minimum Load BALANCED / LINE OUTPUT: 600 ohms Impedance RECORDER REC: 10 kilohms **Channel Separation** -74 dB (10 kHz) BALANCED INPUT BALANCED OUTPUT: (Gain selector: 18 dB) BALANCED INPUT → LINE OUTPUT: With gain selector set to 12 dB, add –6 dB to all values at right LINE INPUT → BALANCED OUTPUT: LINE INPUT LINE OUTPUT: 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: AD [MC: 66 dB] INPUT \* → BALANCED / LINE OUTPUT: 84 dB AD [MC: 66 dB] INPUT \*  $\rightarrow$  REC OUTPUT: **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** (Voltage as indicated on rear panel)

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

- ★ 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



18 dB

18 dB

18 dB

18 dB

40 dB

66 dB

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