

PRECISION STEREO PREAMPLIFIER

C-3900S

● Dual Balanced AAVA volume control with ANCC ● Quiet and smooth volume sensor ● 8 parallel output amplifiers ● Left and right balance adjustment with increased adjustment steps ● 5-stage loudness compensator ● Separate toroidal power transformers for left and right ● Newly developed filtering capacitors ● Separate unit amplifiers for left and right ● Printed circuit boards using glass cloth fluorocarbon resin ● Wood cabinet with natural grain finish





A world-class preamplifier providing the pinnacle of volume control

The evolution of preamplifiers in the history of volume control. Accuphase has addressed the issue of variable resistance with our original AAVA technology, which evolved into Balanced AAVA, and later became Dual Balanced AAVA. The Dual Balanced AAVA with ANCC installed in the C-3900S represents circuitry technology that achieves the ultimate in volume control. The C-3900S is a premium preamplifier for breathing life into deeply emotional performances and songs.

Innovation: Leading-edge technology

Revolutionary AAVA volume control (Accuphase Analog Vari-gain Amplifier)

AAVA eliminates the entire process of resistor-based input signal attenuation. With this breakthrough principle, direct volume adjustment is performed through a combination of V-I (voltage-current) conversion circuits of different gain. As a consequence, there are no changes in impedance or frequency response and sound quality remains impeccable. Any changes in noise level related to the selected volume position are kept to an absolute minimum, thereby realizing an outstanding S/N ratio also at commonly used listening levels.

■ Dual Balanced AAVA takes AAVA to new heights

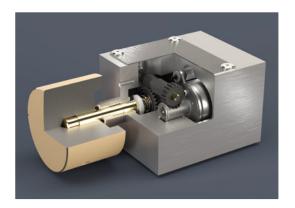
In the C-3900S, the Balanced AAVA principle which involves two balanced AAVA circuits is further elevated by driving two such units in parallel, resulting in the Dual Balanced AAVA topology with significantly improved electrical characteristics. This creates a 30% reduction to the already excellent noise level achieved by models with Balanced AAVA.

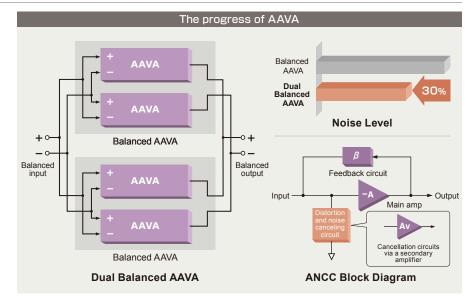
■ ANCC vastly reduces distortion and noise (Accuphase Noise and distortion Canceling Circuit)

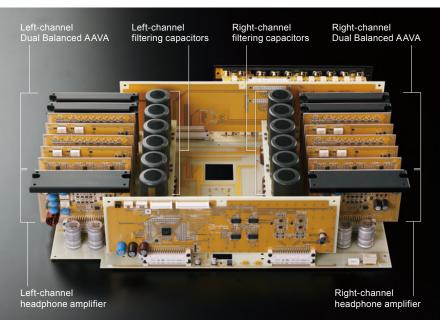
ANCC uses a secondary amplifier to cancel out noise and distortion from the main amplifier. The secondary amplifier utilizes a low-noise amplifier to increase the effect of the ANCC. Incorporating this ANCC into the Dual Balanced AAVA I-V conversion amplifier drastically improves noise suppression performance, particularly when transitioning from low volume settings to typical volume positions.

High-accuracy, high-rigidity volume sensor design

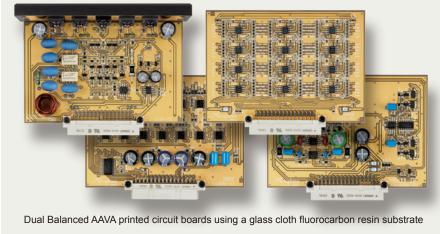
The volume sensor mechanism detects the angular position of the volume knob. Accuphase has developed the volume sensor in-house, using a massive aluminum block finished with the utmost precision. The knob itself offers an utterly solid and smooth operation feel and achieves extremely accurate position detection. When using the Remote Commander, a motor drives the volume knob via a set of gears. Generally, gears produce a meshing sound when rotating, but this position sensor is designed so that the gears mesh with each other while always maintaining a constant pressure, which enables super quiet and comfortable volume adjustment.







Dual Balanced AAVA with separate configuration for left and right channels



Graceful



performer





Recommended product

■Connecting the C-3900S with the C-57 Stereo Phono Amplifier enables playback of analog records.

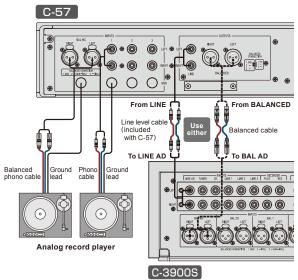


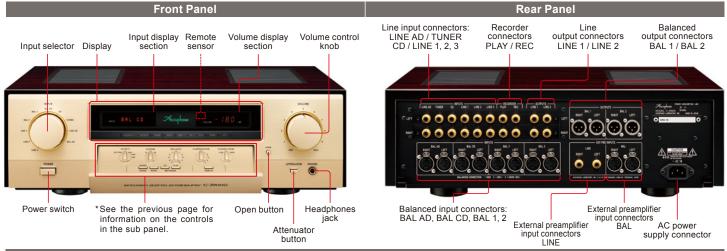
C-57 Stereo Phono Amplifier

- Head amplifier with ANCC
- Low-noise fully balanced configuration
- One dedicated balanced MC phono input and three sets of regular phono inputs
- Balanced and line level output connectors
- Separate settings memory for each input position



Phono cartridge	Input impedance (ohms)	Gain (dB)
МС	10/30/60/100/ 200/300/1k	64/70
ММ	1k/47k/100k	34/40





C-3900S Guaranteed Specifications

Frequency	BALANCED /	3 to 200,000 Hz +0, -3.0 dB		
Response	LINE INPUT	20 to	.2 dB	
Total Harmonic Distortion (20 to 20,000 Hz, at rated output)	0.005%			
Input Sensitivity, Input Impedance	Input connectors	Input sensitivity		Input
		At rated output	0.5 V output	Impedance
	BALANCED	252 mV	63 mV	40 kilohms (20/20 kilohms)
	LINE	252 mV	63 mV	20 kilohms
Rated Output Voltage, Output Impedance	BALANCED / LINE OUTPUT	2 V, 50 ohms		
S/N Ratio, Input- Converted Noise (Gain Switch: 18 dB)	Input connector	Input shorted (A weighting)		
		S/N ratio at rated output	Input-converted noise	S/N ratio (EIA)
	BALANCED	118 dB	-130 dBV	113 dB
	LINE	118 dB	-130 dBV	113 dB
Max. Output Voltage	BALANCED / LINE OUTPUT			7.0 V
	RECORDER REC			6.0 V
Max. Input Voltage	BALANCED INPUT			6.0 V
	LINE INPUT			6.0 V

Supplied accessories

- AC power cord, 2 m (6.5') Audio cable with plugs ASL-10B, 1 m (3.3')

Minimum Load	BALANCED / LINE OUTPUT		600 ohms		
Impedance	RE	10 kilohms			
Crosstalk (10 kHz)	–90 dB				
Gain (GAIN selector at 18 dB) * Gain changes depending on	BALANCED INPUT → BALANCED OUTPUT		18 dB*		
	BALANCED INF	18 dB*			
	LINE INF	18 dB*			
the position of the GAIN selector	LINE INF	18 dB*			
(12 dB / 18 dB / 24 dB).	BALANCED/LINE IN	PUT → RECORDER REC	0 dB		
Loudness compensator (100 Hz)	1: +2 dB, 2: +3 dB, 3: +4 dB, 4: +5.25 dB, 5: +6.5 dB				
Attenuator	–20 dB				
Headphones Jack	Suitable impedance		8 ohms or higher		
	Output level		2 V (40 ohms)		
	Level selection (LOW, MID, HIGH)		±10 dB MID baseline		
Power Requirements	120 V, 220 V, 230 V AC (voltage as indicated on rear panel)				
	50 / 60 Hz				
Power Consumption	60 W				
Maximum Dimensions	Width 477 mm (18.8") × Height 156 mm (6.1") × Depth 412 mm (16.2")				
Mass	Net 25.3 kg (55.8 lbs)				
	In Shipping Carton 33 kg (73 lbs)				
Management with add for Coursetted Consideration adhere to JETA CD 4204A and JEC COCCO 2					

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

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.
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 The shape of the plug of the supplied AC power cord depends on the voltage rating and destination country.

