

306 Designer Series

THE DESIGNER SERIES MASTERPIECES



A 306 Amplifier

C 306 Preamp

CD 306 SACD

The Designer Series 306 family of innovative digital audio masterpieces is another milestone in Cary Audio Design history. The A 306 stereo amplifier offers 600 watts per channel of Class D technology and the C 306 dual mono preamplifier rivals any preamplifier in the world. Of course, the Designer Series would not be complete without the CD 306 SACD player. The Designer Series is meant to blend style, performance and sonic excellence in equal parts with technical innovation and superior industrial design. Experience your audio future... Cary Style.

CD 306 SACD Player

The flagship for this series is the CD 306 SACD player for both CD and SACD disc playback. Features include the top panel drive window, an all aluminum chassis, and the custom aluminum loader tray. The height adjustable custom machined aluminum cone feet and the overall clean style are both readily apparent. The view window on top houses a bubble level balance for leveling the player during installation.

C 306 Preamp

The front end of any high performance home audio system is the preamplifier, and in the Designer Series, that component is the C 306 Preamp. The C 306 has a matching all aluminum chassis, adjustable custom machined aluminum cone feet and three individual power supplies. This allows all circuits to be fed clean power, avoiding interference from demands of the other channels. This is truly an advance in an audiophile stereo preamplifier design for great sound quality.

A 306 Amplifier

The A 306 is the turbo engine for the Designer Series. This dual mono digital power amplifier is rated at 600 watts per channel @ 8 Ohms. It is capable of 1100 watts output per channel @ 4 Ohms. This dual mono circuit design amplifier has finesse and massive power mixed with the excellent style of the Designer Series. The A 306 has an all aluminum chassis, adjustable custom machined aluminum cone feet and an etched crystal front panel which is back lit by blue LED lights.

Highlights

- Fully configurable audiophile preamplifier.
- High power stereo power amplifier for great control of any speakers.
- SACD playback stays in pure DSD format all the way to the analog output section.

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SPECIFICATIONS

	CD 306 SACD	C 306 Reference Preamplifier	A 306 Power Amplifier
Power Input	Configured for 100/120 or 200/240 Volts AC @ 50-60 Hz	Configured for 100/120 or 200/240 Volts AC @ 50-60 Hz	Configured for 100/120 or 200/240 Volts AC @ 50-60 Hz
Power Consumption	35 watts - Operation 7 watts - Standby	95 watts - Operation 5 watts - Standby	1200 watts - Operation 7 watts - Standby
Power Supplies	4 power transformers	3 power transformers	3 power transformers
Signal-to-Noise Ratio	133 (1 kHz)	- 120 dB, 20 - 20 kHz	80 dB, CCIR
THD	0.0008% (1 kHz) THD	0.001%	0.2%
Frequency Range	2 Hz - 80 kHz @ 192 kHz	5 Hz - 100,000 Hz, + 0.1 dB	20 Hz - 20 kHz
Amplitude Linearity	0.1 dB (20 Hz - 20 kHz)	-----	+ 0.5 dB (20 Hz - 20 kHz)
Audio Output Level	Single-ended 3.0 Vrms Balanced XLR 6.0 Vrms	-----	600 watts/channel @ 8 Ohms 1100 watts/channel @ 4 Ohms
Circuit Design	-----	Dual mono, Class A, solid state	Class D Amplifier
Input Impedance	-----	RCA - 100 k Ohms XLR - 200 k Ohms	RCA - 100 k ohms XLR - 200 k ohms
Voltage Gain	-----	18 dB in the line stage	27 dB
Dimensions	5" H x 18" W x 15" D	5" H x 18" W x 15" D	5" H x 18" W x 15" D
Weight	50 lbs.	40 lbs.	50 lbs.

Additional Specifications

CD 306 SACD	Digital Sample Rates (Fs):	44.1, 96, 192, 384, 512 or 768 kHz sample rates (Fs) for CD playback to the analog audio outputs, 44.1, 96 or 192 kHz sample rates (Fs) for digital inputs
	Master Clock Jitter:	Below measurable levels, digital buffer circuit to eliminate jitter
	Digital/Analog Converters:	8 Burr Brown PCM 1792u, 4 per channel
	Transport:	SCD-1 Digital Drive with Cary Audio Design custom loader
	Analog Filter:	3rd Order Bessel
	Analog Outputs:	(1) Balanced XLR, (1) Single-ended RCA
	Digital Input:	1 ea - AES/EBU, Coaxial, Toslink
	Digital Output:	1 ea - AES/EBU, Coaxial, Toslink
	Digital Input Sample Rate:	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz or 192 kHz, Accepts 16, 20, or 24 bits
	Phase Linearity:	3 degrees (20 Hz - 20 kHz)
	Dynamic Range:	130 dB (1 kHz)
	Channel Separation:	110 (1 kHz)
C 306	Output Impedance:	< 2.2 k Ohms - RCA, < 4.4 k Ohms - XLR
	Crosstalk:	- 120 dB
	Input Connections:	(3) XLR stereo pair inputs, (3) RCA stereo pair inputs, (1) RCA Tape monitor input pair
	Tape Outputs:	2 RCA outputs
	Maximum Output:	RCA 8 volts, XLR 16 volts
A 306	Analog Inputs:	XLR balanced; RCA unbalanced
	Damping Factor:	> 1,000 from 20 Hz - 20 kHz
	Amplifier Class:	Class D
	Cabinet:	All aluminum chassis
	Speaker Connections:	CARDAS speaker binding posts

Due to ongoing development, specifications are subject to change without notice or obligation.