

# audiolab

8000CD

8000CDE

8000S

8000Q

8000P

8000M

8000AV

8000X7



*“The new 8000 series offers a definitive and genuine hi-fidelity performance from a no-nonsense approach to engineering”*





## Introduction

Audiolab has since it was founded in 1969, always had a reputation for high-quality, no-nonsense engineering, excellent build-quality and reliability.

Our design engineers are all experts in their fields, with a string of remarkable projects to their name. We seek to achieve near textbook performance from our components, which are neither overstated, nor 'euphonically' over emphasised.

Every Audiolab product is born of a passion for music. Rhythmic timing, speed

and accuracy are all important attributes exemplified in our designs. Above all, the nature of the recording is fully preserved.

Our pre and power amplifiers can be used in a huge number of configurations - providing the potential for an upgrade path through integrated amplifier solutions, pre-power combinations, monobloc amplifiers and even bi-amp/tri-amp combination systems.

Our AV solutions are equally modular; with a 7.1 channel pre amp and 7 channel power amplifier completing the line-up.

# 8000CD

Analog	Connectors	Two pairs RCA phono
	Output level	2.4V rms
	Frequency response	20Hz - 20kHz +/- 0.5dB
	Output impedance	100 Ohms
	S/N ratio	Better than 100dBA
	Channel balance	Better than +/- 0.5dB @1kHz
	Channel separation	Less than 0.003% @ 1kHz (>-90dB / 2.4V)
Digital	THD+N (at 1kHz)	SPDIF
	DAC	24bit 192kHz, 5th order delta sigma
	Output format	75 Ohm BNC, RCA phono, Optical
General	Connectors	550mV p-p (nom.) +/- 10%
	Output level	75 Ohms +/-5%
	Output impedance	10°C - 40°C (ambient)
	Operating temperature range	10°C - 40°C (ambient)
Power requirements	(depending on region) 50-60Hz 100V, 110-120V and 220-240V	
Dimensions (WxHxD - mm)	445 x 74 x 335	



# 8000CD - CD Player



The Audiolab 8000CD player is a reference quality CD player with a measured performance amongst the finest in the world.

Rather than using off-the-shelf servo, as most manufacturers do, which involves lots of compromise, our engineers have adopted a 'ground-up' design philosophy which involved completely redesigning the servo and software to optimise all aspects of performance.

Most CD players use mechanisms designed to cover a host of uses - such as computer drives, portable CD players etc. - so are not optimised for audiophile use. the Audiolab 8000CD employs a 'Lazy servo' mechanism, which means that rather than the optic moving backwards and forwards

quickly in the event of dropped data, it simply stays put and waits for the disc to spin round again.

Through using this technique, the noise floor is reduced significantly, with very minimal servo noise in the system.

Due to the unique way the clock is integrated into the design, we are able to achieve a near perfect 'jitter' measurement of less than 6pS.

Other design attributes include the separation of power supplies for the digital and analogue stages of the player. Again, designed to minimise 'noise', this separation is essential to achieve the high signal-to-noise ratios expected of a truly 'reference' player.

# 8000S - Integrated Amplifier

The original 8000 series from Audiolab left a legacy of revolutionary products, one of which being the legendary 8000A; a product which led the way in simple but technically advanced stereo systems.

The 8000S is its spiritual successor, but this latest version features a raft of audiophile features including the ability to work in one of five modes.

Following the audiolab philosophy of employing a modular approach for an easy upgrade path, the 8000S is really a separate pre amplifier and power amplifier sharing only a box and power supply. The two sections can be effectively separated from each other using the front panel selector, with the unit run in Pre/Power mode; or

separately as a pre amplifier; or just a power amplifier.

A high quality, motorised volume control and motorised source selector are just two examples of the attention to detail exemplified in the design

The power of the 8000S is self-evident, with 60 Watts per channel output and a maximum peak output current of over 25 Amps, the system is able to drive most loudspeaker loads with ease and comfort and is fitted with twin sets of loudspeaker terminals for convenient bi-wiring.

The 8000S also features 6-line level inputs and has 3 tape loops, all selectable from the supplied system remote control.



8000 series

# 8000S

Rated output power	60 W per channel into rated load impedance (8Ω), 95 W into 4Ω
Typical output power	72 W per channel into rated load impedance (8Ω), 115 W into 4Ω
Preamp input impedance	20 kΩ nominal
Preamp maximum output	Greater than 7.76 V rms
Power amplifier input impedance	47 kΩ nominal
Frequency response (-3 dB)	1 Hz - 65 kHz
Frequency response (±0.5dB)	20 Hz - 20 kHz
Channel separation	Greater than 60 dB at 1 kHz
Crosstalk rejection	Greater than 80 dB at 1 kHz
Operating temperature range	10 - 35°C
Power consumption	Less than 300 W Idle/Power
Dimensions (WxHxD - mm)	445 x 74 x 335



# 8000SE

Rated output power	60 W per channel into rated load impedance (8 $\Omega$ ),95 W into 4 $\Omega$
Typical output power	72 W per channel into rated load impedance (8 $\Omega$ ), 115 W into 4 $\Omega$
Preamplifier input impedance	20 k $\Omega$ nominal
Preamplifier maximum output	Greater than 7.3V rms
Power amplifier input impedance	47 k $\Omega$ nominal
Frequency response (-3 dB)	1 Hz - 65 kHz
Frequency response ( $\pm$ 0.5dB)	20 Hz - 20 kHz
Channel separation	Greater than 60 dB at 1 kHz
Crosstalk rejection	Greater than 80 dB at 1 kHz
Operating temperature range	10 - 35°C
Power consumption	Less than 300 W Idle/Power
Dimensions (WxHxD - mm)	445 x 74 x 335



## 8000SE - Integrated Amplifier



The 8000SE integrated amplifier retains nearly all the performance of the 8000S amplifier, and offers remarkable value-for-money.

The same circuit topology is used, but with a simpler orientation. Motorised volume controls and remote controls are forsaken, as are the bi-wire terminals, yet in all other respects, the SE is every bit as competent as the famous 8000S.

In pure performance terms, the 8000SE stands 'head and shoulders' above the competition, and offers the true enthusiast a real hi-fi alternative to the 'feature-rich but lacklustre performance' integrated amplifiers that are frequently suggested.

Available in silver paint and a new, anodised, brushed aluminium black finish as shown left.

# 8000Q - Pre Amplifier

Separating the delicate signals that pass through pre-amplifier circuits from the high current, field inducing signals that pass through power amplifiers has obvious electrical benefits.

Reliable and robust, the 'Q' has been a stalwart of the 8000 series. Good pre-amplifiers are few and far between in the audiophile world. To be considered such an audiophile pre-amplifier, the 8000Q must provide all of the functionality and control required without imparting any character of its own to the delicate audio signals. It's this neutrality that is so hard to

achieve, and it is this neutrality that is the secret of the 8000Qs enduring appeal.

The 8000Q is a simple, but high quality, remote control pre-amplifier with a wide range of inputs and outputs. All signals are switched with audiophile signal relays and the volume control is a motorised potentiometer

The low impedance line-amplifier is a miniature class A power amplifier with current mirror bias - ideal for use with long interconnects to multiple power amplifiers.



8000 series

# 8000Q

Input impedance	20 k $\Omega$ nominal
Input level vs. gain setting	500 mV at 0 dB - 350 mV at 3 dB - 250 mV at 6 dB 175 mV at 9 dB - 125 mV at 12 dB - 90 mV at 15 dB
Frequency response (-3 dB)	0.1 Hz - 75 kHz
Frequency response ( $\pm 0.2$ dB)	20 Hz - 20 kHz
Channel separation	greater than 100dB at 1 kHz
Crosstalk rejection	greater than 100dB at 1 kHz
Preamplifier output impedance	100 $\Omega$ nominal
Preamplifier maximum output	greater than 7.7 V rms (20 dBm)
Record output impedance	1 k $\Omega$ nominal
Operating temperature range	greater than 10 - 35°C
AC supply frequency	50 - 60 Hz
AC supply voltage	110 - 120 V or 220 - 240 V
Power consumption	less than 25 W
Dimensions (WxHxD - mm)	445 x 74 x 335



# 8000M

Rated output power	125 W per channel into rated load impedance (8 $\Omega$ ), 200 W into 4 $\Omega$
Typical output power	145 W per channel into rated load impedance (8 $\Omega$ ), 240 W into 4 $\Omega$
Input for full rated power	1.13 V rms
Input impedance	47 k $\Omega$ nominal
Gain	29.0 dB at 1 kHz
Signal to noise	Greater than 96 dB (relative to 0 dBV)
Frequency response (-3 dB)	0.1 Hz - 75 kHz
Frequency response ( $\pm$ 0.3dB)	20 Hz - 20 kHz
Total harmonic distortion + noise	Less than 0.05%
Dimensions (WxHxD - mm)	445 x 74 x 337



## 8000M - Power Amplifier



Using two monobloc amplifiers, rather than a two-channel stereo power amplifier can significantly improve the performance of any hi-fi system.

Although the 8000M offers greater power output than an 8000P, it is gain matched, so should you upgrade your system in the future, you can happily use the two in combination.

The 8000M provides a genuine 125W power into an 8Ohm loudspeaker load,

and features twin output terminals for easy bi-wiring.

It has parallel phono connectors making it easy to connect several pairs of 8000Ms to any pre-amplifier. This allows you to daisy-chain units to further improve headroom in bi-amped and even tri-amped systems.

Simple styling belies the power and speed of response available from this compact powerhouse.

# 8000P - Power Amplifier

The 8000P is a classic two-channel power amplifier, delivering over 100W per channel and a peak output of over 40 Amps.

Comfortably able to drive most loudspeaker loads, the 8000P is equally useful in Home Cinema configurations as it is in high performance stereo applications.

A simple aesthetic and wide compatibility with other components ensures the 8000P amplifier is an ideal building block for your current and future systems.

All Audiolab 8000 series power amplifiers are gain-matched for easy integration into a growing system.



8000 series

# 8000P

Rated output power	100 W per channel into rated load impedance (8 $\Omega$ ), 150 W into 4 $\Omega$
Typical output power	120 W per channel into rated load impedance (8 $\Omega$ ), 180 W into 4 $\Omega$
Input for full rated power	1.0 V rms
Input impedance	47 k $\Omega$ nominal
Gain	29.0 dB at 1 kHz
Signal to noise	Greater than 95 dB (relative to 0 dBW)
Frequency response (-3 dB)	0.1 Hz - 75 kHz
Frequency response ( $\pm 0.3$ dB)	20 Hz - 20 kHz
Total harmonic distortion + noise	Less than 0.05%
Dimensions (WxHxD - mm)	445 x 74 x 337





# The Complete AV Experience



Audiolab Home Cinema products are designed to form the hub of your home entertainment system.

As more enthusiasts are beginning to employ a 'whole house' approach to their entertainment system, our AV products offer scalable and no-compromise solutions to meet the differing demands of home cinema, traditional 2 channel music and multi-room installations.

An audiophile approach has been adopted, and whilst all products offer a huge range of inputs, outputs and as many playback standards as possible, this is never at the expense of absolute performance.

Our vision is one of seamless integration and a quality approach to home cinema. The 8000AV pre-amplifier and 8000X7 power amplifier are superlative building blocks for such a system.

# 8000AV - Pre-Amplifier

The new 8000 Series from Audiolab also caters well for Home Theatre applications. The 8000AV Pre-Amplifier and the 8000X7 Power Amplifier continue the theories of no-nonsense engineering and great production quality. Designed for the real AV enthusiast these two components have stacks of power and are capable of handling any of the most complicated of Home Theatre applications you should wish to throw at them.

The 8000AV home theatre pre-amplifier is a fully featured 7.1 channel AV processor which can be used

in conjunction with our dedicated 7 channel power amplifier or any combination of our stereo and mono power amplifiers.

Optical and co-axial digital inputs, as well as analogue audio inputs, allow seamless transitions between audio sources. Video switching is offered between up to eight inputs - both S-video and composite.

All popular formats are supported and the unit is supplied as standard with trigger switches to allow integration with a full cinema installation.



8000 series

# 8000AV

Digital input frequencies	44.1 kHz, 48 kHz, 96 kHz
Digital input impedance	Coaxial: 75 Ohm
Digital output impedance	75 Ohm
Analog input impedance	10 kOhm
Analog input frequency response	DC-50 kHz (-3 dB) Direct, 2 Hz - 20 kHz ( $\pm 0.5$ dB) processed
Analog input total harmonic distortion	0.0065% processed, 0.0015% unprocessed (Direct)
Tape output impedance	100 Ohm
Tape output gain	-3 dB
Analog output impedance	100 Ohm
Maximum analog output level	5 V rms on all channels
Analog output frequency response	2 Hz - 20 kHz (processed)
Analog output signal to noise ratio	Left/right: 102 dB (A-weighted), other channels: 90dB @ 0dB volume
Analog output total harmonic distortion	Left/right: 0.004%, all other channels: 0.004 % @ 0 dB volume setting
Video bandwidth	5 Hz - 4.2 MHz ( $\pm 0.25$ dB), 1 Hz - 20 MHz (-3 dB)
Video input impedance	75 Ohm
Video output impedance	75 Ohm
Dimensions (WxHxD - mm)	445 x 75 x 338



# 8000X7

Power output	7 x 100W into rated load impedance (8 Ohm) 5 x 100W and 1 x 150W (8 Ohm) 3 x 100W and 2 x 150W (8 Ohm)
IHF toneburst power	7 x 120W (8 Ohm)
Input for rated power	1.05 Vrms
Input impedance	47 kOhm
Gain	+29 dB at 1 kHz
Signal to noise	better than 90 dB (relative to 0 dBW) unweighted
Frequency response	1.5 Hz - 150 kHz (-3 dB)
Input connector	RCA



## 8000X7 - Power-Amplifier



The 8000X7 is a genuine one-box, seven channel power amplifier; capable of handling even difficult loudspeaker loads.

The 8000X7 home theatre power amplifier delivers 7 x 100Wrms power. However, you can also run it in five or six channel mode too.

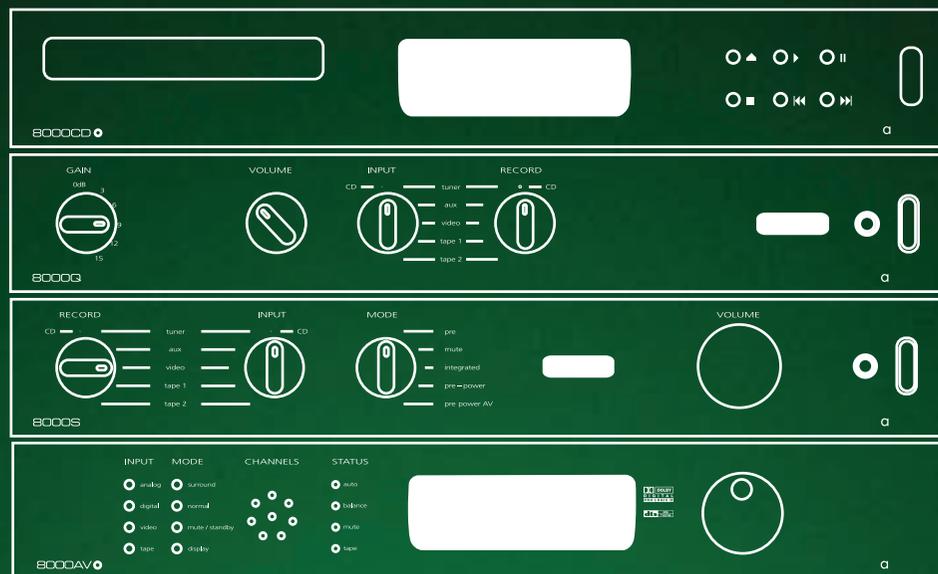
By bridging two channels it is possible to create a more powerful single channel - especially useful if your front left and front right speakers are more performance critical than the other speakers in your 5.1 system.

This can be achieved simply by changing switch settings on the rear of the unit.

The 8000X7 is gain matched with the other 8000 series power amplifiers, and indeed the Power section of the 8000S integrated amplifier.

It will work happily in combination with any of these should the demands of your system change in time.

Unobtrusive, with an elegant simplicity, the 8000X7 is a compact yet powerful performer.



audiolab

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