# audiolab

## 8300 series

In 1983, audio enthusiasts Philip Swift and Derek Scotland launched Audiolab with their first product, the 8000A Integrated Amplifier. Born out of frustration that decent audio equipment appeared too expensive and was inconveniently sensitive to other system components, this integrated amplifier was a great success and each landmark product that followed delivered consistently. Audiolab subsequently has built a legacy for affordable, high performance hi-fi electronics with an ultra-clean, yet exciting sound fused with iconic modern styling.

This reputation was championed by the hi-fi press – The 8200CD alone has collected a combination of over 14 Five-Star reviews, Awards and Group Test wins, leaving behind any competition.

*"The result was that you could listen right in to all its fine detail, yet the overall listening experience was entirely natural"* - Hi-Fi Choice, 8200CD Review, Group Test Winner - £460-£850 CD Players

In the all-new 8300 Series, we've asked fundamental questions about how people enjoy the music they love and to make sure their hi-fi is as easy to use as it is easy on the ears.

While our engineers have referenced the blueprint of the 8200, each component has come under scrutiny to create a hi-fi system leaps ahead of what is already a leader in its field. With more efficient components, high-definition audio format technology and redefined aesthetics, the 8300 Series has raised the bar, yet again.

# 8300CD

The Audiolab 8300CD boasts even more flexibility than its predecessor. Now equipped with DSD file playback capability via the USB input, users are able to play SACD quality DSD files at full resolution and with faultless replication.

Building on that legacy, the DAC unit used is none other than the ESS9018 8 Channel Chip, the foundation of our multi-award winning M-DAC, and in the 8300CD is now enabled to process an astonishing resolution from files up to 384kHz/32-bit in addition to DSD256.

Our in-depth research and testing led to the development of a new slot-loading CD drawer, which is part of the new, sleek modern design – simplistic and yet completely reliable when compared with inferior tray-style mechanisms.

# 8300A

UK amp designer Jan Ertner has led the amplifier design of the new 8300A, refining the performance of a Class AB output stage that is completely stable in performance into all loads and across a wide range of operating temperatures. Whilst improving on an unfussy and easy to use design, the 8300A offers so much more. Efficiency of the amplifier has been improved, offering an increased 80W RMS of power while the addition of a phono input offers playback that caters for vinyl enthusiasts.

# 8300MB

Capable of 250 watts RMS into any load, the 8300MB has been designed to drive the highest calibre of loudspeakers with ease.  With fully balanced operation through the XLR inputs, this monoblock amplifier will reproduce your music collection with an incomparable clarity and inaudible distortion even when put under pressure. A 1W standby mode and 12v trigger integrate each model together, with a no-nonsense route to an outstanding hi-fi sound. The 8300MB is quite possibly the perfect example of Audiolab's goal to effortlessly reproduce music with exquisite detail.

# SPECIFICATIONS

| MODEL | 8300A |
|---|---|
| Input sensitivity (Phono RIAA) | 3mV (MM) , 300uV (MC) |
| Volume Range | -70dB -> +11dB |
| Input impedance   (line inputs) | 100K // 100pF |
| Input impedance (phono inputs) | 47K // 150pF (MM)   ,   100R // 2.7nF (MC) |
| Input Voltage (Line) | 3.5V max. (< 0.02% THD) |
| Output voltage | 2.3V max. (< 0.02% THD) |
| Output impedance | 120 ohm |
| Frequency response (Line) | +/- 0.1dB (10Hz - 20kHz) |
| Frequency response (Line) | +/- 3.0dB (1Hz - 100kHz) |
| Frequency response (Phono RIAA) | +/- 0.3dB (10Hz - 20kHz) |
| Total harmonic distortion (THD) | <0.001% |
| Signal-to-noise ratio (Line) | > 107dB  / >109dB(A-weighted) |
| Signal-to-noise ratio Phono (MM) | > 73dB / > 78dB(A-weighted) |
| Signal-to-noise ratio Phono (MC) | > 68dB / > 73dB(A-weighted) |
| Crosstalk | < 80dB (L-> R & R->L @10KHz) |
| Inputs | CD, Video,Tuner, AUX 1, AUX 2 , XLR (Balanced), Phono, 1 x RCA (Power), 1 x RCA (Pre) |
| Outputs | 1 x RCA (Pre), Speaker A + B |
| Gain | 29dB (20Hz-20KHz) |
| Input Sensitivity | 840mV (Power Out = 70W into 8ohm) |
| Input impedance   (line inputs) | 15K // 100pF |
| Rated max power output | 2 x 70W RMS (8 ohm) , 2x105W (4 ohm) |
| Peak output current | +/- 15A |
| Frequency response | +/- 0.1dB (10Hz – 20KHz) +/- 3.0dB (1Hz – 100KHz) |
| Total harmonic distortion (THD) | < 0.002% (Power Out = 50W @ 1KHz, BW = 20 – 20KHz) |
| Signal-to-noise ratio | > 107dB |
| Damping factor | 125 (8ohm Load @ 1KHz) |
| Dimensions (mm) | 80 x 444 x 330mm |
| Net weight | 7.8kg |
| Power Consumption | 300W max. (230V, 50/60Hz) / < 0.5W (Standby) |
| Standard accessories | power cord, remote control handset, user manual |

## MODEL                    8300CD

| | |
|---|---|
| Disc Compatibility | CD/CDR, SACD |
| DAC | ESS Sabre32 9018 chip |
| Resolution | 32 bits |
| Sampling Frequency | Optical,Coaxial, AES:32kHz – 192kHz, USB:32kHz – 384kHz(PCM)/DSD64, DSD128 |
| Maximum Sampling Frequency | Optical,Coaxial, AES: 192kHz, USB:384kHz (PCM)/5.6M(DSD128) |
| Digital Input | 2 x Coaxial, 2 x Toslink Optical, 1xAES/EBU, 1 x USB for PC USB |
| Digital Output | 1 x Coaxial, 1 x Toslink Optical,1xAES, |
| Output Voltage | (Balanced)4V RMS (Unbalanced)2V RMS |
| Output Impedance | (Balanced)20 ohm (Unbalanced)10 ohm |
| THD | <0.002% , |
| Frequency Response  +/-0.2dB | 20Hz – 20KHz (± 0.2dB) |
| Signal-to-Noise Ratio (S/N) | RCA:<98dB ,XLR<-100dB |
| Dynamic Range | RCA:>98dB ,XLR>100dB |
| Crosstalk | RCA:>120dB ,XLR>130dB |
| Dimensions | 80 x 444 x 317mm |
| Net Weight | 5.5kg |
| Standard Accessories | Power Cord, Remote Control, User Manual |

## MODEL                    8300MB

| | |
|---|---|
| Rated Power Output | 250W RMS (8Ω) 350W RMS (4Ω) |
| Peak Power Output | 450W RMS (4Ω) |
| Gain | 29dB |
| Inputs | XLR, RCA |
| Outputs | Speaker |
| Input Sensitivity | 1500mV |
| Input Impedance | 44K ohm (balanced) 22K  ohm (unbalanced) |
| Power Bandwidth | 5HZ-60KHZ |
| Frequency Response | 20Hz ~20kHz -0.3dB ,ref. 1kHz |
| Total Harmonic Distortion (THD) | 0.003% |
| Intermodulation Distortion (IM) | 0.03% |
| Transient Intermodulation Distortion (TID) | 0.03% |
| Signal-to-Noise Ratio (S/N) | 110dB |
| Damping Factor | 200 |
| Dimensions | 158 x 320 x 338mm |
| Net Weight | 9.5kg |
| Standard Accessories | Power Cord, User Manual |