

Cambridge Audio

Tech specs

Azur 840C Upsampling CD Player



Azur 840C specifications

Features

Adaptive Time Filtering (ATF) Asynchronous upsampling technology converting 16-bit 44.1 kHz CD data to 24-bit 384kHz

32-bit Analog Devices "Black Fin" DSP

Dual differential DAC's 2 x Analog Devices AD1955 24-bit DACs running at 384kHz

Fully differential output stage topology

Anti-aliasing filters based on linear phase Bessel filters for constant group delay and minimum phase shift

DC servo circuitry with no capacitors in the signal path

Digital inputs 2 co-axial, 2 optical allowing upsampling and playback of other sources

Digital outputs 1 co-axial, 1 optical allows recording of raw or up-sampled audio (192kHz maximum)

Audio outputs 1 balanced (XLR), 1 unbalanced

Other connections Control bus input/output, 1 IR emitter in, 1 RS232C, 1 IEC type mains inlet

Extruded aluminium side panels and solid aluminium front panel

Ultra rigid, acoustically dampened chassis

Full function aluminium face azur navigator remote

Available in silver/black

ATF™ is a trademark of Analog Devices

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Cambridge Audio's policy is one of continuous improvement. Design and specifications are therefore subject to change without prior notice.

Performance

Frequency response 20Hz to 20kHz (+/-0.1dB)

THD

@ 1kHz 0dBFs	<0.0005%
@ 1kHz - 10dBFs	<0.0004%
@ 20kHz 0dBFs	<0.0007%
(19/20kHz) 0dBFs	<0.0002%

Linearity @ -90dBFs +/-0.5dB

Stopband rejection (>24kHz) > 120dB

S/N ratio, A weighted > 113dB

Total correlated jitter > 130ps

Crosstalk @ 1kHz > -130dB

@ 20kHz > -114dB

Output impedance > 50 ohms

Digital input word widths supported 16 - 24 bit

Digital output word widths supported 16, 20, 24 bit

Digital input sampling frequencies supported
32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz

Digital output sampling frequencies supported
32kHz - 192kHz pass through (including 44.1kHz for CD) 48kHz, 96kHz, 192kHz upsampled

Audio output upsampling Fixed 24 bit, 384kHz

Dimensions hxd 115 x 430 x 360mm (4.5 x 16.9 x 14.7")

Weight 8.5kg (18.7lbs)

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