

Headphone Amplifiers Comparison Chart

	230HAD	430HA
Configuration	Single-ended	Fully Balanced Differential
Type of Amplification	Transconductance	Transconductance
Input Impedance	22,000Ω	22,000Ω
Single-ended inputs (RCA)	1	2
Balanced inputs (XLR)	n/a	1
Mini-jack input	1 (1/8")	1 (1/8")
Selectable Gain	n/a	14dB and 20dB
Defeatable Crossfeed Circuit	n/a	●
Single-ended Headphone Outputs	1 x 1/4" Stereo TRS	1 x 1/4" Stereo TRS
Balanced Headphone Outputs	n/a	1 x 4-Pin / 2 x 3-Pin
Single-ended line-level outputs (RCA)	1 x Fixed / 1 x Variable	1 x Fixed / 1 x Variable
Output Power @ 600Ω / 300Ω / 50Ω	100mW / 200mW / 1W	667mW / 1.33W / 8W
Output Impedance	1.25Ω	1.25Ω
S/N Ratio @ full output	115dB	120dB
THD @ 1kHz, 0dBFS	0.005%	0.005%
Intermodulation Distortion	0.005%	0.005%
Digital-to-Analog Converter (DAC)	●	Optional
Digital Inputs	S/PDIF x2 USB x1 Toslink x1	S/PDIF x2 USB x1 Toslink x1
DSD Decoding (via USB only)	DSD64, DSD128 & DSD256	DSD64, DSD128 & DSD256
PCM Decoding (352.8 & 384kHz via USB only)	16-32 bits / 44.1-384kHz	16-32 bits / 44.1-384kHz
Remote Control	CRM-3	CRM-3
12V Trigger Output	○	1
RS-232 Port	○	●
Infra-Red (IR) Input	○	●
SimLink	○	●
Weight	6.2 lb / 2.8 kg	17 lb / 7.5 kg
Dimensions (W" x H" x D")	7.0 x 3.0 x 11.0	16.9 x 3.5 x 13.8

Tableau comparatif – Convertisseurs N/A (DAC)

	ACE	260D ¹	280D	340i DPX ¹	390	650D	780D	230HAD	430HA ¹
Alimentation externe	○	○	○	○	○	820S optionnel	820S optionnel	○	○
Entrée S/PDIF	●	●	●	●	●	●	●	●	●
Entrée AES/EBU	○	○	●	○	●	●	●	○	○
Entrée TosLink	●	●	●	●	●	●	●	●	●
Entrée USB ²	●	24-bit/192kHz	●	●	●	24-bit/192kHz	●	●	●
Entrée Bluetooth®	●	○	●	○	●	○	●	○	○
Support DSD (par USB)	●	○	●	●	●	○	●	●	●
Sortie asymétrique (RCA)	n/a	●	●	n/a	2 paires ³	1 paire	●	●	●
Sortie balancée (XLR)	n/a	●	●	n/a	1 paire	●	●	○	○
Sortie digitale - S/PDIF	n/a	●	○	n/a	n/a	●	○	○	○
Sortie digitale - AES/EBU	n/a	●	○	n/a	n/a	●	○	○	○
Port RS-232	●	●	●	●	○	●	●	○	●
Entrée Infra-Rouge (IR)	●	●	●	●	●	●	●	○	●
SimLink™	●	●	●	●	●	●	●	○	●
Module MiND	●	○	Optionnel	○	●	○	●	○	○
Lecture DSD via MiND	●	○	●	○	●	○	●	○	○
Rapport signal/bruit	> 115dB	> 120dB	> 118dB	> 110dB	> 125dB	> 120dB	> 124dB	> 115dB	> 116dB
DHT @ 1kHz, 0dBFS	< 0.001 %	< 0.005 %	< 0.001 %	< 0.001 %	< 0.0004 %	< 0.001 %	<0.0001 %	< 0.001 %	< 0.001 %
Télécommande	CRM-3	CRM-3	CRM-3	CRM-3	CRM-3	FRM-3	FRM-3	CRM-3	CRM-3
Poids (lb)	24	16	16	28	22	35	38	6.2	17
Dimensions (l" x h" x p")	16.9x3.5x14.4	16.9x3.4x13.1	16.9x3.4x13.1	16.9x3.5x14.8	16.9x3.5x13.1	18.8x4.0x16.8	18.8x4.0x16.8	7.0x3.0x11.0	16.9x3.5x13.8

¹ Module DAC optionnel
² L'entée USB input est compatible 32-bit/384kHz sauf si indiqué
³ 1 paire est une sortie analogique variable optionnelle