



## Headphone Amplifiers at a Glance

	<b>Nëo 230HAD</b>	<b>Nëo 430HA D</b>
<b>Configuration</b>	Single-ended	Fully Balanced Differential
<b>Type of Amplification</b>	Transconductance	Transconductance
<b>Input Impedance</b>	22,000 $\Omega$	22,000 $\Omega$
<b>Single-ended inputs (RCA)</b>	1	2
<b>Balanced inputs (XLR)</b>	n/a	1
<b>Mini-jack input</b>	1 (1/8")	1 (1/8")
<b>Selectable Gain</b>	n/a	14dB and 20dB
<b>Defeatable Crossfeed Circuit</b>	n/a	Yes
<b>Single-ended Headphone Outputs</b>	1 x 1/4" Stereo TRS	1 x 1/4" Stereo TRS
<b>Balanced Headphone Outputs</b>	n/a	1 x 4-Pin / 2 x 3-Pin
<b>Single-ended line-level outputs (RCA)</b>	1 x Fixed / 1 x Variable	1 x Fixed / 1 x Variable
<b>Output Power @ 600<math>\Omega</math> / 300<math>\Omega</math> / 50<math>\Omega</math></b>	100mW / 200mW / 1W	667mW / 1.33W / 8W
<b>Output Impedance</b>	1.25 $\Omega$	1.25 $\Omega$
<b>S/N Ratio @ full output</b>	115dB	120dB
<b>THD @ 1kHz, 0dBFS</b>	0.005%	0.005 %
<b>Intermodulation Distortion</b>	0.005%	0.005%
<b>Digital-to-Analog Converter (DAC)</b>	Yes	Optional
<b>Digital Inputs</b>	S/PDIF x2 USB x1 Toslink x1	S/PDIF x2 USB x1 TosLink x 1
<b>DSD Decoding (via USB only)</b>	DSD64, DSD128 & DSD256	DSD64, DSD128 & DSD256
<b>PCM Decoding</b> (352.8 & 384kHz via USB only)	16-32 bits / 44.1-384kHz	16-32 bits / 44.1-384kHz
<b>Remote Control</b>	CRM-2	CRM-3
<b>12V Trigger Output</b>	No	1
<b>RS-232 Port</b>	No	Yes
<b>Infra-Red (IR) Input</b>	No	Yes
<b>SimLink</b>	No	Yes
<b>Weight (lbs.)</b>	6.2 lb. / 2.8 Kg.	17 lb. / 7.5 Kg.
<b>Dimensions (W" x H" x D")</b>	7.0 x 3.0 x 11.0 in. 17.8 x 7.6 x 28.0 cm.	16.9 x 3.5 x 13.8 in. 42.9 x 8.9 x 35.1 cm.



## Digital-to-Analog Converters at a Glance

	<b>Nêo ACE</b>	<b>Nêo 260D *</b>	<b>Nêo 280D</b>	<b>Neo 340i * Nêo 350P *</b>	<b>Nêo 380D</b>	<b>650D</b>	<b>750D</b>	<b>780D</b>
<b>Outboard Power Supply</b>	No	No	No	No	No	Optional <b>820S</b>	Optional <b>820S</b>	Optional <b>820S</b>
<b>S/PDIF Input</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>AES/EBU Input</b>	No	No	Yes	No	Yes	Yes	Yes	Yes
<b>Optical (Toslink) Input</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>USB Input **</b>	Yes	<b>24-bit/192kHz</b>	Yes	Yes	Yes	<b>24-bit/192kHz</b>	<b>24-bit/192kHz</b>	Yes
<b>Bluetooth Input</b>	Yes	No	Yes	No	No	No	No	Yes
<b>DSD Decoding (via USB)</b>	Yes	No	Yes	Yes	Yes	No	No	Yes
<b>Single-ended out (RCA)</b>	n/a	Yes	Yes	n/a	2 pairs #	1 pair	1 pair	Yes
<b>Balanced out (XLR)</b>	n/a	Yes	Yes	n/a	2 pairs #	Yes	Yes	Yes
<b>Digital Output - S/PDIF</b>	n/a	Yes	No	n/a	Yes	Yes	Yes	No
<b>Digital Output -AES/EBU</b>	n/a	Yes	No	n/a	No	Yes	Yes	No
<b>RS-232 Port</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Infra-Red (IR) Input</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>SimLink</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>MiND Streaming Module</b>	Yes	No	Optional	No	Yes	No	No	Yes
<b>DSD Streaming via MiND</b>	Yes	No	Yes	No	Yes	No	No	Yes
<b>S/N Ratio @ full output</b>	> 115dB	> 120dB	> 118dB	> 115dB	> 120dB	> 120dB	> 120dB	> 124dB
<b>THD @ 1kHz, 0dBFS</b>	< 0.001 %	< 0.001 %	< 0.001 %	< 0.001 %	< 0.001 %	<0.001 %	<0.0003 %	<0.0001 %
<b>Remote Control</b>	CRM-3	CRM-3	CRM-3	CRM-3	CRM-3	FRM-3	FRM-3	FRM-3
<b>Weight (lbs.)</b>	24	16	16	28 / 16.5	16	35	35	35
<b>Dimensions (w" x h" x d")</b>	16.9x3.4x13.1	16.9x3.4x13.1	16.9x3.4x13.1	16.9x3.4x13.1	16.9x3.4x13.1	18.8x4.1x16.8	18.8x4.1x16.8	18.8x4.1x16.8

\* Optional DAC board

\*\* USB input is PCM 32-bit/384Hz capable unless otherwise noted

# 1 pair is optional variable analog outputs



## Digital-to-Analog Converters at a Glance

	<b>Nëo 230HAD</b>	<b>Nëo 430HA *</b>
<b>Outboard Power Supply</b>	No	No
<b>S/PDIF Input</b>	Yes	Yes
<b>AES/EBU Input</b>	No	No
<b>Optical (Toslink) Input</b>	Yes	Yes
<b>USB Input **</b>	Yes	Yes
<b>BlueTooth Input</b>	No	No
<b>DSD Decoding (via USB)</b>	Yes	Yes
<b>Single-ended out (RCA)</b>	Yes	Yes
<b>Balanced out (XLR)</b>	No	No
<b>Digital Output - S/PDIF</b>	No	No
<b>Digital Output -AES/EBU</b>	No	No
<b>RS-232 Port</b>	No	Yes
<b>Infra-Red (IR) Input</b>	No	Yes
<b>SimLink</b>	No	Yes
<b>MiND Streaming Module</b>	No	No
<b>DSD Streaming via MiND</b>	No	No
<b>S/N Ratio @ full output</b>	> 114dB	> 116dB
<b>THD @ 1kHz, 0dBFS</b>	< 0.001 %	< 0.001 %
<b>Remote Control</b>	CRM-2	CRM-3
<b>Weight (lbs.)</b>	6.2	17
<b>Dimensions (w" x h" x d")</b>	7.0x3.0x11.0	16.9x3.4x13.8

\* Optional DAC board

\*\* USB input is PCM 32-bit/384Hz capable unless otherwise noted