

## **306** Stereo Integrated Amplifier

Date of manufacture : Jul 92 - Dec 95

Please note that this document contains the text from the original product brochure, and some technical statements may now be out of date



The big brother of the 300 series integrated amplifiers, the NAD 306 carries more worthwhile (we call them Real World) facilities and features, offers more power and is more flexible and expandable in its potential than almost any other available. And although the 306 is fully loaded with features, everything has a sensible purpose which will expand your audio and home cinema system's potential and increase your listening pleasure.

Conservatively rated at 50 watts per channel into 8 ohms, the 306 will handle power peaks in excess of three times that figure, and again thanks to 'Soft Clipping and 'EDP', does so easily, without losing the drama or presence of the music.

The 306 also offers a sophisticated tone selection configuration, including bass and treble controls, plus Tone Defeat, a Bass EQ selector that gives a slight boost in the bass response, particularly useful with smaller loudspeakers. The 306 is especially of interest to vinyl collectors, with our finest discrete, low noise transistor phono stage offering moving coil and moving magnet cartridge options, Finally, six stereo programme inputs allow for the full range of video and audio programme sources, including VCR/Laserdisc plus music via CD, tuner, phono and two tape inputs. The Record Out selector permits recording from any source whilst listening to another.

In all the NAD 306 is an incredibly versatile amplifier and a glance at the full specifications will prove that every feature offers a real benefit to your listening pleasure.

PRE-AMP SECTION		
Phono input		
Input impedance (R and C)		47kΩ / 220pF
Input sensitivity, 1kHz	MM	2.5mV
	MC	120µV
Signal/Noise ratio (A-weighted with cartridge connected)	MM	78dB (low gain)
7115	MC	78dB (high gain)
THD (20Hz - 20kHz)		<0.04%
RIAA response accuracy (20Hz - 20kHz)		±0.5dB
Line level inputs		
Input impedance (R and C)		18kΩ / 200pF
Input sensitivity (ref. 1W)		170mV
Maximum input signal		>10V
Signal/Noise ratio (A-weighted ref 1W)		98dB
Frequency response (20Hz - 20kHz)		±0.3dB
Line level outputs		
Output impedance	Pre-amp	300Ω
	Таре	Source Z + $2k\Omega$
	Phones	330Ω
Maximum output level	Pre-amp	>12V
	Таре	>10V
	Phones	>10V into 600Ω
		>500mV into 8 $\Omega$
Tone controls		
Treble		±7dB at 10kHz
Bass		±10dB at 20Hz
POWER AMP SECTION		
Continuous output power into 8Ω * Rated distortion (THD 20Hz - 20kHz)		50W (17dBW) 0.03%
Clipping power (maximum continuous power per channel)		60W
IHF Dynamic headroom at $8\Omega$		+5dB
IHF dynamic power (maximum short term power per channel)	8Ω	160W (22dBW)
in aynamic power (maximum short term power per channel)	4Ω	200W (23dBW)
	2Ω	250W (24dBW)
Damping factor (ref. 8Ω, 50Hz)		>100
Input impedance		18kΩ / 560pF
Input sensitivity (for rated power into $8\Omega$ )		1V
Frequency response (20Hz - 20kHz)		±0.3dB
Signal/noise ratio	ref. 1W	101dB
	ref. rated power	118dB
THD (20Hz - 20kHz)		<0.03%
Bridged Mode		
Continuous output power into $8\Omega$ *		100W (20dBW)
IHF Dynamic headroom at $8\Omega$		+6dB
IHF dynamic power (maximum short term power per channel)	8Ω	400W (26dBW)
	4Ω	500W (27dBW)
Remote		No
NAD Link		No
PHYSICAL SPECIFICATIONS		
Dimensions (W x H x D)		420 x 108 x 385mm
Net weight		8.7kg
Shipping weight		6.7Kg 10.6kg
Subbind weight		10.0Kg

\* Minimum power per chnnel, 20Hz - 20kHz, both channels driven with no more than rated distiortion. Dimensions are of unit's cabinet without attached feet; add up to 18mm for total height.

Dimension depth excludes terminals, sockets, controls and buttons.