



3100 Integrated Amplifier

Date of manufacture : ?

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note that this document contains the text from the original product brochure, and some technical statements may now be out of date



For most manufacturers, the highest quality parts and most highly refined designs are used only in separate audio components-in preamplifiers, power amplifiers, and tuners. Integrated amplifiers are usually made to a less exalted standard, while all-in-one stereo receivers are regarded as compromise products suitable only for casual listeners. But not at NAD. NAD electronics are designed in modular form, and many of the same circuits are used in all product categories. The 3100 Integrated Amplifier, for example, combines NAD's robust 2100 Power Amplifier with high-quality preamplifier circuitry derived from some of NAD's finest preamplifiers. The pre- and power amplifier sections of the 3100 are joined by removable external jumpers that allow you to insert external processors such as a surround-sound unit or an electronic crossover for bi-amping in the signal path.

The power amplifier section of the 3100 employs all of the NAD innovations described on pages 4 and 5. Like the 2100 Power Amplifier, it is conservatively rated at 50 watts/ channel for sine-wave test tones, while its Power Envelope circuit produces 200 to 330 watts channel of long-term tone-burst power for the dynamic waveforms of music. Its high-current output stage, impedance selector, and heavy-duty speaker terminals are designed to deliver maximum power to loudspeakers of any impedance. The preamplifier section of the 3100 contains the same low-noise MM/MC phono stage as the 1700 Preamplifier/ Tuner and the same switchable Infrasonic Filter, flexible two-way tape connections, Bass EQ, and ultra-quiet feedback-operated volume control as NAD's state-of-the-art 1300 Preamplifier.

The tone controls are Baxandall bass and treble circuits, but with their parameters carefully selected to allow substantial adjustments at low and high frequencies without altering the neutrality of the midrange.

PRE-AMP SECTION

Phono input

Input impedance (<i>R and C</i>)	MM	47k Ω / 100pF
	MC	100 Ω / 1000pF
Input sensitivity, 1kHz	MM	2.5mV ref. 0.5V
	MC	0.18mV
Signal/Noise ratio (<i>A-weighted with cartridge connected</i>)	MM	75dB ref. 5mV
	MC	75dB ref. 0.5mV
THD (<i>20Hz - 20kHz</i>)		<0.04%
RIAA response accuracy (<i>20Hz - 20kHz</i>)		\pm 0.5dB

Line level inputs

Input impedance (<i>R and C</i>)	50k Ω / 500pF
Input sensitivity (<i>ref. 1W</i>)	20mV
Maximum input signal	10V
Signal/Noise ratio (<i>A-weighted ref 1W</i>)	94dB
Frequency response	20Hz - 20kHz / \pm 0.5dB

Line level outputs

Output impedance	Pre-amp	600 Ω
	Tape	Source Z + 1k Ω
Maximum output level	Pre-amp	10V

Tone controls

Treble	\pm 9dB at 10kHz
Bass	\pm 10dB at 50Hz
Bass EQ	+3dB at 55Hz
	+6dB at 36Hz
Infrasonic filter (<i>switchable</i>)	-3dB at 12Hz - 12dB/octave

POWER AMP SECTION

Continuous output power into 8 Ω *	60W (17dBW)
Rated distortion (<i>THD 20Hz - 20kHz</i>)	0.03%
Clipping power (<i>maximum continuous power per channel</i>)	70W
IHF Dynamic headroom at 8 Ω	+6dB
IHF dynamic power (<i>maximum short term power per channel</i>)	8 Ω 200W (23dBW)
	4 Ω 250W (24dBW)
	2 Ω 330W (25dBW)
Damping factor (<i>ref. 8Ω, 50Hz</i>)	>100
Input impedance	10k Ω / 600pF
Input sensitivity (<i>for rated power into 8Ω</i>)	850mV
Frequency response	3Hz - 100kHz / +0, -3dB
Signal/noise ratio	ref. 1W 100dB
	ref. rated power 117dB
THD (<i>20Hz - 20kHz</i>)	<0.03%
Remote	No
NAD Link	No

PHYSICAL SPECIFICATIONS

Dimensions (W x H x D)	435 x 106 x 385mm
Net weight	10.5kg
Shipping weight	11.6kg
Power consumption (<i>120 ~ 240V, 50/60Hz</i>)	330VA

* Minimum power per channel, 20Hz - 20kHz, both channels driven with no more than rated distortion.

Dimensions are of unit's cabinet without attached feet; add up to 18mm for total height.

Dimension depth excludes terminals, sockets, controls and buttons.