

7100 Stereo Receiver

Date of manufacture : ? - Nov 89

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note that this document contains the text from the original product brochure, and some technical statements may now be out of date



Our Monitor Series stereo receivers are unique in the industry. No design compromises are made simply to meet a price point. Rather, NAD's receivers contain exactly the same circuitry as NAD's high-performance separates. The 7100 consists of the 3100 integrated Amplifier, with its astonishingly large margin of dynamic headroom for the uncompressed peaks and climaxes in today's digital recordings, combined with a very sensitive and selective digital tuner.

A remote control is include for added convenience, allowing armchair operation of numerous key functions; volume, tuning (14 presets or station search), low level muting, six input selectors, and power on off, The remote control actuates a miniature DC motor on the volume control shaft, avoiding the potential noise and distortion of electronic volume circuits.

The tuner section of the 7100 employs substantially the same circuitry as NAD's 1700 Preamplifier, Tuner-including a sensitive dual-gate MOSFET input stage, a low-distortion quadrature detector, a PLL multiplex decoder with uniformly wide stereo separation, and a three-stage e I.F. circuit whose narrow-I.F. I mode cleanly extracts weak signals from the skirts of strong stations. FM NR improves the listenability of stereo signals and provides a 50 dB stereo quieting sensitivity y of just 26 dBf (5.5µV into 75 ohms). Up / down buttons provide manual tuning or skip to the next strong station.

With overload-proof line inputs, a feedback-operated volume control, and quiet low-impedance tonecontrol circuits, the 7100 accommodates a dynamic range greater than 110 dB, preserving the transparent clarity of the finest recordings. The MM, MC phono pre-amp has very low noise, precise RIAA equalisation, correct interfacing with the complex impedances of phono pickups, and plenty of headroom for high-level peaks without distortion.

Based on the 3100 Amplifier, the 7100 produces 50 watts/channel of continuous power and over r 200 watts/channel of tone-burst power for music. In bridged mode with the companion 2100 power amp, those ratings are doubled. The high-current output stage can deliver 30 ampere peaks for precise electromagnetic control of voice-coil motion and will drive impedances as low as 2 ohms with ease and authority. With the greatest ratio of useful power to price of many receivers on the market today , the 7100 Receiver is an astonishing value.

PRE-AMP SECTION		
Phono input		
Input impedance (R and C)	MM	47kΩ / 100pF
	MC	47kΩ / 100pF
Input sensitivity, 1kHz	MM	0.35mV ref. 1W
	MC	0.025mV ref. 1W
Signal/Noise ratio (A-weighted with cartridge connected)	MM	75dB ref. 5mV
	MC	75dB ref. 5mV
THD (20Hz - 20kHz)		<0.04%
RIAA response accuracy (20Hz - 20kHz)		±0.5dB
Line level inputs		
Input impedance (R and C)		50kΩ / 500pF
Input sensitivity (ref. 1W)		20mV
Maximum input signal		>10V
Signal/Noise ratio (A-weighted ref 1W)		94dB
Frequency response (20Hz - 20kHz)		±0.5dB
Line level outputs	2	500 G
Output impedance	Pre-amp	600Ω
NAC Second to the state	Таре	Source Z + 1k Ω
Maximum output level		>10V
Tone controls		
Treble		±9dB at 10kHz
Bass		±10dB at 50Hz
Bass EQ		+3dB at 55Hz
		+6dB at 36Hz
Infrasonic filter (Switchable)		-3dB at 12Hz, 12dB / octave
POWER AMP SECTION		
Continuous output power into 8Ω *		60W (17dBW)
Rated distortion (THD 20Hz - 20kHz)		0.03%
Clipping power (maximum continuous power per channel)		70W
IHF Dynamic headroom at 8Ω		+6dB
IHF dynamic power (maximum short term power per channel)	8Ω	200W (23dBW)
	4Ω	250W (24dBW)
	2Ω	330W (25dBW)
Damping factor (ref. 80, 50Hz)		>100
Input impedance		10kΩ / 600pF
Input sensitivity (for rated power into 8Ω)		850mV
Frequency response		3Hz - 100kHz +0, -3dB
Signal/noise ratio	ref. 1W	100dB
	ref. rated power	117dB
THD (20Hz - 20KHz)		<0.03%
Bridged Mode		
Continuous output power into 8Ω *		100W (20dBW)
IHF Dynamic headroom at 8Ω		+7dB
IHF dynamic power (maximum short term power per channel)	8Ω	500W (27dBW)
	4Ω	660W (28dBW)

FM TUNER SECTION		
Input sensitivity	Mono -30dB THD+N	11dBf (1.0μV/75Ω)
input sensitivity	Mono 50dB S/N	14dBf (1.4μV/75Ω)
	Stereo 50dB S/N	26dBf (5.5μV/75Ω)
	Stereo 60dB S/N	37dBf (20μV/75Ω)
Capture ratio (45 - 65dBf)	510100 0000 5/10	<1.6dB
AM rejection (45 - 65dBf)		>60dB
Selectivity, alternate channel		70dB
Selectivity, adjacent channel		6dB
Image rejection		>80dB
I F rejection		>120dB
Harmonic distortion	Mono	0.1%
	Stereo	0.1%
Signal/Noise ratio	Mono	82dB
	Stereo	78dB
Frequency response ±0.5dB		30Hz - 15kHz
Channel separation at 1kHz		50dB
AM TUNER SECTION		
Usable sensitivity		300µV
Selectivity		35dB
Image rejection		50dB
I F rejection		35dB
Signal/Noise ratio		45dB
Harmonic distortion		0.5%
Remote		Yes
NAD Link		No
PHYSICAL SPECIFICATIONS		42E y 106 y 200mm
Dimensions (W x H x D)		435 x 106 x 390mm
Net weight		11kg
Shipping weight		12.7kg
Power consumption (120 ~ 240V, 50/60Hz)		330VA

* 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.