

NAD

S250 Multi-Channel Power Amplifier



- **125W x 5 Continuous Power (8 ohms); all channels driven simultaneously**
- **200W x 2 Continuous Power (8 ohms); two channels driven simultaneously**
- **Mono-block, Modular construction • Differential, Class A input circuit topology**
 - **Low loss, massive Holmgren* toroidal mains transformer**
- **Input gain control for each individual channel • All inputs Gold Plated RCA**
- **Soft Clipping • THX certified • 12V trigger for automated ON/OFF operation**

Producing a five-channel power amp of sufficient power for large Home Theatre layouts with enough reserves for lower sensitivity 5.1-channel speaker arrays, while maintaining the Silver Series' very high standards for sonic excellence was a tough challenge. NAD elegantly met it with the S250, whose five fully independent 125-watt channels supply sufficient performance, stability and reliability to earn with ease the demanding THX Ultra certification.

The S250 employs monoblock construction for each of its five channels. Every element of each channel's circuitry, save the power transformer, is fully independent, eliminating inter-channel influences as a concern. Like its stereo predecessor, the Silver Series S200, the five-channel S250 is stable and musical even into "unreasonable" loudspeaker loads. An immense edition of NAD's unique, extremely low-noise/low-hum "Holmgren" type power transformer—a significant advance over conventional toroid components—works in concert with five monoblock amplifier sections. Over 60,000 uF of storage capacitance ensure an ample reserve of power for even the most demanding music and film soundtracks.

Each section features pure-differential, fully Class A input and driver stage circuits, and a high-current output-stage design, employing the same high speed output devices as used in the S200 to promulgate superb dynamic quality. The result is musical detail, impact, and soundstage stability and depth unmatched by multi-channel amps of two and three times the S250's price. NAD's proprietary Soft Clipping (defeatable) maintains sonic quality under even severe overdrive conditions.

Individual gain adjustment for each channel promotes easy, accurate system configuration, as does the S250's integral 12V trigger turn-on response, which features a sophisticated "zero crossing" triad rather than the more common mechanical relay to promote long component life and reduced turn-on surge. The multi-channel amplifier delivers its output via very heavy-duty "five-way" connectors.

NAD was the first company to introduce a THX certified power amplifier. It was therefore no surprise the NAD S250 passed Lucas Films' stringent THX requirements with flying colours. As a result the NAD S250 will handle all dynamics with ease and yet retain every subtle detail in the most demanding THX Dolby Surround systems.

The S250 incorporates NAD's unique defeatable Soft-Clipping circuitry for all five channels. Any amplifier can be overdriven if too much is asked of it (playing too loud, exceeding the maximum output power). Under such circumstances, amplifiers will produce extremely high levels of distortion, which, besides sounding very unpleasant, can damage your loudspeakers. The Soft Clipping circuit will curtail such distortion and minimise the risk of damage to speakers. This is particularly important with AV software that often consists of very dynamic outbursts in which, unlike music, it is difficult to hear this potentially damaging distortion.

Ruggedness and in-system reliability are critical to successful custom-installed systems. This amplifier utilises a combination of fuse and electronic non-intrusive protection: dependable, fail-safe, and sonically benign. Each channel is protected against excess temperature, DC fault and loudspeaker short-circuit. Most important of all, the S250's inherently conservative, high-voltage/high-current output-stage engineering has been designed for years of high-performance, trouble-free service.

PROVISIONAL SPECIFICATIONS - NAD S250

Power Amp Section

Continuous Average Power Output at 8 Ω

(Min. power per channel, 20Hz - 20kHz both channels driven with no more than rated distortion)

Rated distortion (THD 20Hz-20kHz)

Clipping power

IHF power dynamic headroom at 8 Ω

IHF power dynamic power

Damping factor

Input impedance

Input sensitivity

Voltage gain

Frequency response

Signal/noise ratio

5 x 125W (21.0dBW)

<0.05%

0.05%

+1.4dB

8 Ω 172W (22.4dBW)

4 Ω 273W (24.4dBW)

ref. 8 Ω, 50Hz >300

rated power into 8 Ω 50kΩ

1.1 V

29.0dB

20Hz-20kHz +0, -0.2dB

2Hz to 100kHz -3dB

ref. 1W 95dB

ref. rated power 125dB

Physical Specifications

Dimensions (W x H x D)

17 1/8 x 5 3/16 x 16 3/16"

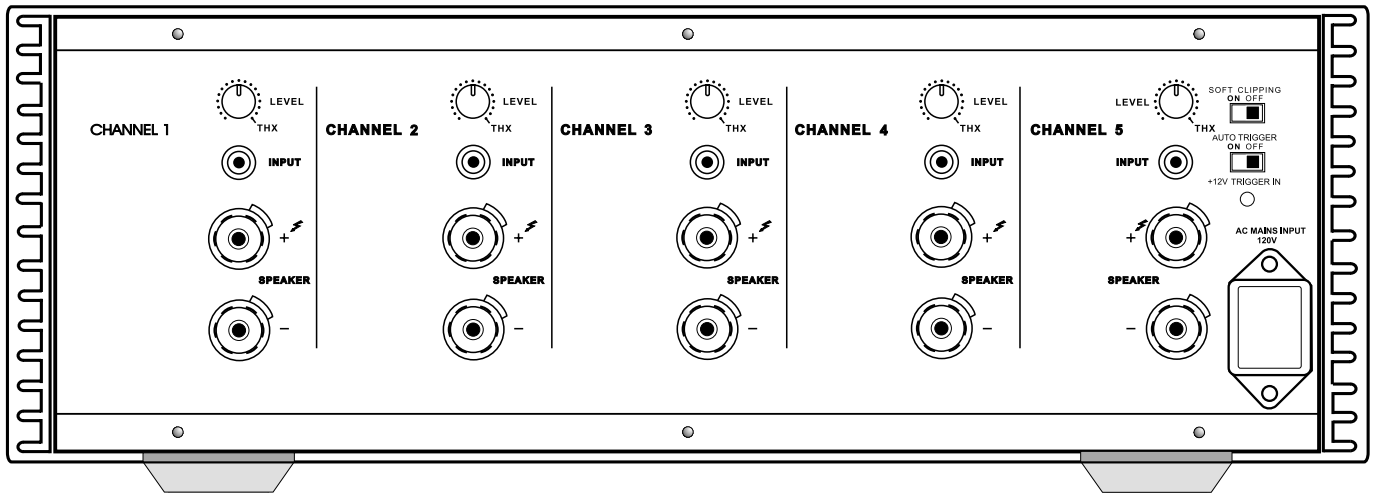
Net weight

(435 x 132 x 410mm)

Shipping weight

41.8 lbs (19.0kg)

46.2 lbs (21.0kg)



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