



Features

- 140W x 7 Continuous Power (8 or 4 Ohms); all channels driven simultaneously, 20 Hz to 20 kHz.
- 200W x 2 Continuous Power (8 or 4 Ohms); two channels driven simultaneously
- Dynamic Power - 230W 8 Ohms, 345W 4 Ohms, 570W 2 Ohms
- Mono-block, Modular construction
- Balanced Differential, Class A input circuit topology
- Low loss, massive Holmgren toroidal mains transformer
- Input gain control for each individual channel
- Thermostatically controlled fan with signal tracking circuit
- All inputs Gold Plated RCA
- NAD Soft Clipping™
- 12V trigger for automated ON/OFF operation

Details

NAD has a well-deserved reputation for producing amplifiers with extraordinary performance and always at an affordable price. The T975 keeps this tradition alive and well by applying over 30 years of experience to the challenge of producing a very high power, high performance, seven channel power amplifier able to provide the musical muscle required for even the most sophisticated Home Theatres.

Consumers are often confused about power ratings, with many 'mass market' brands claiming power output levels that seem too good to be true. These inflated claims quickly fall short at the first listen. NAD's Full Disclosure Power ratings are the most conservative in the industry, and allow the T975 to handle any speaker load and any program material. The benefit of NAD's Full Disclosure Power is the total elimination of audible distortion at any listening level. This provides pinpoint imaging and spine tingling realism with music and movies alike.

Design

As might be expected in an amplifier capable of one kilowatt (1,000 watts) of continuous power output, the power supply needs to be very carefully designed. As usual, NAD favours the toroidal transformer type for its superior regulation and low stray magnetic field. Our exclusive "Holmgren" transformer uses a special core design and materials to enhance efficiency and make the transformer less sensitive to DC offsets on the AC mains voltage. Over 80,000 uF of storage capacitance ensure an ample reserve of power for even the most demanding music and film soundtracks.

The T975 employs monoblock construction for each of its seven channels. Every element of each channel's circuitry, save the power supply is fully independent, eliminating inter-channel influences as a concern. The T975 employs active ground isolation to further eliminate any possibility of inter-channel interference even when more than one preamplifier is driving the power amp (as might be the case in a custom installation). Each section features an FET Class A input and driver stage circuits, and a high-current output-stage design, employing high speed, high current discrete output devices to promulgate superb dynamic quality. The result is musical detail, impact, and soundstage stability and depth unmatched by multi-channel amps of even two and three times the T975's price. NAD's proprietary Soft Clipping™ (defeatable) maintains sonic quality and offers speaker protection even under severe overdrive conditions.

Individual gain adjustment for each channel promotes easy, accurate system configuration, as does the T975's integral 12V trigger turn-on response. This multi-channel amplifier delivers its output via heavy-duty "five-way" connectors.

Ruggedness and in-system reliability are critical to successful home theatre systems. The T975 uses a unique variable speed fan cooling system first introduced on the M25 Masters Series amplifier which allows the T975 to deliver massive amounts of power for hours on end. Many lesser amps thermally protect and cycle on and off when asked to perform at their maximum causing an unpleasant disruption of the movie. While a well designed forced air system can eliminate thermal cycling, it is crucial to keep the noise of the cooling fan from intruding itself - especially during quiet passages of the movie or music. To this end, we have developed a unique circuit that measures not only the temperature of the heat sinks, but also the level of the input signal automatically silencing the fans during quiet passages.

This amplifier utilizes a combination of fuse and electronic non-intrusive protection: dependable, fail-safe, and sonically benign. Each channel is fully protected against excess temperature, DC fault, and loudspeaker short-circuit.

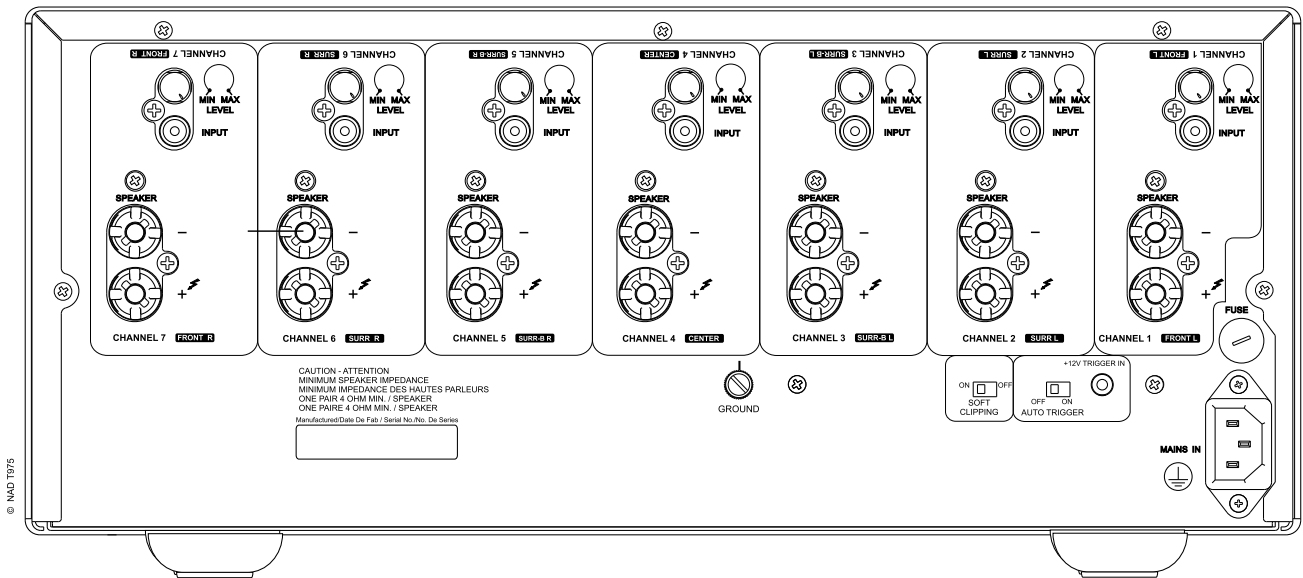
PowerDrive™

The T975 also benefits from NAD's proprietary PowerDrive circuit topology, now well established and used throughout the NAD product range. The PowerDrive topology allows the T975 to deliver maximum performance under virtually any circumstance, independent of the loudspeakers it is driving. The

circuitry automatically senses the impedance characteristics of the loudspeaker and will then adjust its power supply settings to best cope with that specific load. PowerDrive topology is a practical approach to enable an amplifier to easily deal with musical dynamics and difficult speaker loads. Thus we have the highly desirable characteristics of high dynamic power and low impedance drive capability in one affordable package.

NAD also takes a stand against the meaningless “brochure power” touted by many of our competitors by offering Full Disclosure power specs. We specify minimum continuous power, across the entire audible range of frequencies, at rated distortion, for both 8 and 4 Ohms with all channels driven simultaneously. Perhaps even more importantly, we also specify Dynamic Power at 8, 4, and even 2 Ohms, which better describes the way the amplifier will perform in the real world, with musical signals and reactive loudspeaker loads.

But even the most carefully reported specs cannot fully describe the sonic performance of an amplifier. Only your own ears can finally judge our achievement. We urge you to listen and compare NAD to other products in its price range, and even higher. We don't think you'll find anything that comes close to offering the T975's overall musical satisfaction, well-rounded performance, and stellar value for money.



SPECIFICATIONS

Continuous Power, 20Hz-20kHz, all channels driven simultaneously at 4/8Ω	7 x 140W (21.5dBW)
Rated Distortion (THD 20Hz-20kHz)	0.03%
Clipping Power (0.1% THD)	170W (22.1dBW)
IHF dynamic headroom at 8Ω	+1.4dB
IHF dynamic power at 8Ω	230W (24dBW)
IHF dynamic power at 4Ω	390W (26dBW)
IHF dynamic power at 2Ω	450W (26.5dBW)
Damping Factor	ref. 8Ω, 50Hz >300
Input Impedance	50K
Input Sensitivity	1.1V

Voltage Gain	29.0dB
Frequency Response	20Hz - 20kHz +0, -0.2dB 2Hz - 100kHz -3dB
Signal/Noise Ratio	ref. 1W 95 dB ref. rated power 125dB
Dimensions (W x H x D)*	17 1/8 x 7 x 17 7/8" (435 x 180 x 453mm)
Net Weight	68 lbs (31kg)
Shipping Weight	72 lbs (33kg)

* Dimensions are of unit's cabinets without feet attached; add up to 18mm for total height. Dimension depth excludes terminals, sockets, controls and buttons.

