NAD T760 Surround Sound Receiver

• 60W x 5 Continuous power (8 ohms); all channels driven simultaneously • 200W Dynamic power (2 ohms) • Up to 40 amps of peak current capability • Dolby Digital & DTS decoder integrated • Crystal DSP processor • Crystal Sigma-Delta ADCs and DACs with 96kHz/24 bit resolution • 5.1 input for external decoder • Pre-outs for all channels (5.1 out) • Impedance Sensing Circuitry (ISC) • CD; Tape; 5 Video inputs; 2 video outputs • 3 S-Video inputs; 1 S-Video output; S-Video and Composite Monitor output • 3 digital inputs; 2 RCA; 1 TOS Link • EARS (Enhanced Ambience Recovery System) music surround mode • RDS tuner (RDS PS & RDS RT) • 30 presets • Soft Clipping • System Remote Control • NAD-Link

Most A/V receivers available on the market today focus predominantly on the Video and Surround Sound aspects, leaving the audio circuitry almost as an afterthought. At NAD we believe that there are many people for whom music will always come first so, with NAD's reputation for high value / high performance it was obvious that the Model T760 would have to please both Audiophiles and Videophiles alike.

Design:
By doing away with many costly and superfluous features, NAD's engineers concentrated only on the truly important parts of an A/V receiver. As the new Digital Surround Sound formats allow for the same wide bandwidth and large dynamic range for the front channels as the rear channels, all five channels are capable of putting out an equal amount of power. As usual with NAD, the T760 uses discrete output stages only, including the surround channels. The benefits of this approach have been proven over the years in many acclaimed NAD amplifiers and receivers. The integrated output modules favored by so many other designs will deliver a decent amount of power under laboratory conditions, driving an 8 ohms resistor, but can have great difficulties in driving moderately difficult speakers. The NAD T760 uses the new Impedance Sensing Circuitry (ISC) topology (patent pending) designed by Bjørn Erik Edvardsen.

ISC:
The ISC topology allows the T760 to deliver maximum performance under virtually any circumstance, independent of the loudspeakers it is driving. The circuitry automatically recognizes the impedance characteristics of the loudspeaker and will then adjust its power supply settings to best cope with that specific load. The benefit of this innovative design is that distortion remains low, not just with test tones in the lab, but also when playing real music through real loudspeakers.

NAD takes a stance to the mindless "brochure power" approach which doesn't give a realistic indication of an amplifier's true capabilities. Instead, the ISC topology is a practical approach to enable an amplifier to easily deal with dynamics and difficult loads. More meaningful are the T760's dynamic capabilities; up to 200 Watts into 2 ohms and up to 40 amps peak current capability.

Whereas it is widely accepted with CD players that the digital and analog circuitry play a vital role in the performance, it appears that many AV receivers employ only mediocre Digital-to-Analog (DAC), Analog-to-Digital (ADC) converters and Digital Signal Processors (DSP). For the T760 the engineers have chosen the best available within the budget: Crystal™ Sigma-Delta DACs and ADCs, each with 24-bit resolution. The DSP chip that handles the Dolby Digital, DTS, Dolby Pro Logic and EARS Modes, is also from the well renowned manufacturer Crystal™. The combination of these components ensure that the integrity of the original signal, be it music or an action movie, retains its full resolution and dynamics.

Flexibility
As one would expect from any NAD component, the Model T760 offers great flexibility: the 5 video (1 on front panel for easy connection of game console or camcorder) and 2 audio inputs allow you to connect all your sources with ease. Three of the video inputs are full S-Video and Composite compatible.

Besides these "normal" inputs, the T760 also sports an external decoder (5.1 channel) input so you can easily expand your receiver in the future with an outboard decoder for another surround sound format. 3 Digital inputs are provided, to cater for every eventuality: Two coaxial digital inputs and a TOS Link for sources with optical outputs. With pre-amplifier outputs for all channels (Left, Centre, Right, Left Surround, Right Surround and subwoofer) you can easily upgrade your output power too.

To ensure long-terms contact reliability, all speaker terminals are of the robust binding post variety rather than the usual spring clips and all other audio sockets are gold plated.

The remote control handset supplied with the Model T760 also has controls for NAD CD players or changers and a (dubbing) cassette deck. With NAD Link it is possible to remote control other NAD products which do not have their own remote control (NAD Cassette Deck Model 616, for instance) from the T760's remote control.

Ease of use

Ease of use is another key factor for NAD products and the Model T760 is no exception. The built-in test signal generator -accessible by remote control- allows for accurate calibrating of the Front, Center and Surround speakers.

Thirty presets can be programmed at random with FM stations, ten with AM stations. The T760 also offers RDS PS (Program Service) and RT (Radio Text). When tuning in to an RDS radio station, the T760 will automatically display the name of the station so you do not have to remember which frequency belongs to what station. At the touch of a button RDS RT (Radio Text) will display additional information broadcast by the radio station, such as the presenter, which music is playing, etc. The RDS feature requires a specially encoded signal from the radio station; not all stations will display RDS data.

Rather than providing many different surround sound modes (Church, Jazz, Stadium, etc.) which makes so many other receivers cluttered and over complicated, the engineers concentrated on perfecting the Dolby Digital and Pro Logic decoding and steering. For music the NAD developed Enhanced Ambience Recovery System (EARS) mode can be engaged, adding a natural level of ambience, relying only on the original information in the signal.

In keeping with the NAD tradition, the Model T760 provides a level of performance, ease of use and flexibility, which is hard to match. This new addition to the NAD line of products is equally at home in a system for discerning music lovers, as it is in a system for those looking to get the best out of Dolby Surround laser Discs, Videos and Compact Discs.

SPECIFICATIONS - NAD T760

Amplifier Section

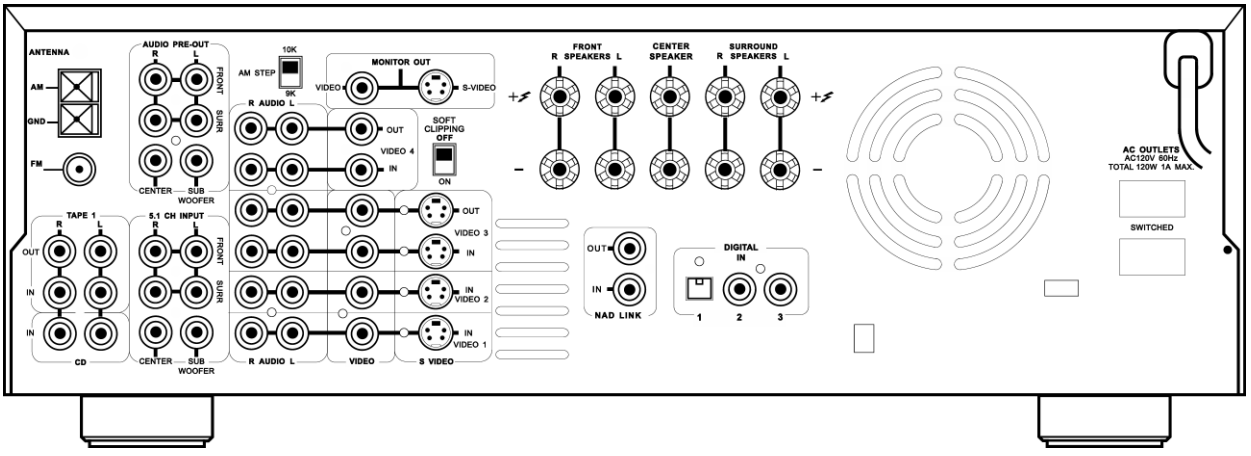
Power Output:	Stereo Mode (8 ohms within rated distortion):	2 x 70 W (18.5 dBW)
IHF dynamic power	8 ohms:	2 x 110W (20.5 dBW)
	4 ohms:	2 x 160 W (22 dBW)
	2 ohms:	2 x 225 W (23.5 dBW)
	Surround Mode:	5 x 60 W (17.8 dBW)
Total Harmonic Distortion	at rated power (Front):	0.08%
IM Distortion	at rated power (Front):	0.08%
Damping Factor	8 ohms:	60
Sensitivity and Impedance		200 mV / 50 kohms
Frequency Response	5 to 20,000 Hz:	± 0.8 dB
Signal to Noise ratio	Line Ref 60W/8 ohms:	96 dB (IHF A)
	Ref 1W/8 ohms:	80 dB (IHF A)

Tuner Section

Input Sensitivity	Mono:	16.1 dBf
(50-dB quieting)	Stereo:	36.1 dBf
Frequency response	30Hz - 15kHz:	± 1.5dB
Total Harmonic Distortion	Mono:	0.25%
	Stereo:	0.5%
Stereo Separation	1 kHz:	38dB
Signal to Noise Ratio	Mono:	72 dB
	Stereo:	66 dB

Physical Specifications

Dimensions (W x H x D):	435 x 132 x 350 mm	17 1/8" x 5 3/16" x 13 3/4"
Net weight	16.3kg	35.9 lbs
Shipping weight	17.1kg	37.6 lbs



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