

**NAD**

# T 742 A/V Surround Sound Receiver



- **5 x 50W Simultaneous Continuous Output Power into 8 ohms • 90W, 130W, 175W, IHF Dynamic Power into 8, 4, 2 ohms, respectively • Up to 28 amps of peak current capability • Dolby Digital & DTS decoder integrated • Dolby ProLogic II and EARS (Enhanced Ambience Recovery System) Music Surround Mode • 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) • CD; Tape; 5 Video inputs; 2 Video outputs; all S-Video or Composite • 3 S-Video inputs; 1 S-Video output; S-Video Monitor output • 4 Digital inputs; 2 RCA; 2 TOS Link**
- **RDS FM/AM Tuner (RDS PS & RDS RT) • 30 Presets • NAD Soft Clipping™**
- **NAD Link • System Remote Control**

It is a long-standing tradition at NAD to keep the focus on "real world" performance. The majority of AV receivers on the market concentrate on seldom used features and seemingly impressive specifications, but tend to disappoint in the long run because of cost cutting in the really important but less visible areas of electronic design. With a thirty-year heritage of designing award winning audio products, NAD includes a full measure of performance, even in its entry level products.

The high praise that NAD A/V receivers have gained underscores this approach. After the initial excitement of surround sound video, people are starting to realise that there is more than just explosions, gunfights and car-crashes. An A/V system also needs to faithfully reproduce music, with or without pictures, stereo or multi-channel. The new NAD T 742 continues the NAD "Music First" tradition making it an ideal choice if you want your system to perform equally well as a surround sound music or video system.

### Design

Avoiding trendy gimmicks that only add cost complexity, 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 T 742 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.

Although, it is widely accepted with CD players that the digital and analogue circuitry play a vital role in the performance, it appears that many AV receivers employ only mediocre Digital-to-Analogue (DAC), Analogue-to-Digital (ADC) converters and Digital Signal Processors (DSP). For the T 742 the engineers choose 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 ProLogic II 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 T 742 offers great flexibility: the 5 video (1 on front panel for easy connection of game console or camcorder) and 3 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 T 742 also sports a 5.1 channel input so you can easily expand your receiver in the future with new formats such as DVD-AUDIO. Four digital inputs are provided to cater for every eventuality: Two coaxial digital inputs and two 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-term contact reliability, all speaker terminals are of the robust binding post variety rather than the usual spring clips.

### Ease of use

Ease of use is another key factor for NAD products and the Model T 742 is no exception. The built-in test tone generator - accessible by remote control - allows for accurate calibrating of the front, centre and surround speakers.

The remote control handset supplied with the Model T 742 also has controls for other NAD components, such as DVD players, for instance.

Thirty presets can be programmed at random with FM stations, ten with AM stations. The T 742 also offers RDS PS (Program Service) and RT (Radio Text). When tuning into an RDS radio station, the T 742 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.

Rather than providing many different surround sound modes (Church, Jazz, Stadium, etc.) which makes so many others receivers cluttered and over complicated, the engineers concentrated on perfecting the Dolby Digital and ProLogic II decoding and steering. For music the 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 T 742 provides 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 Videos, CDs, Dolby Digital or DTS DVDs.

## SPECIFICATIONS - NAD T 742

### Amplifier Section

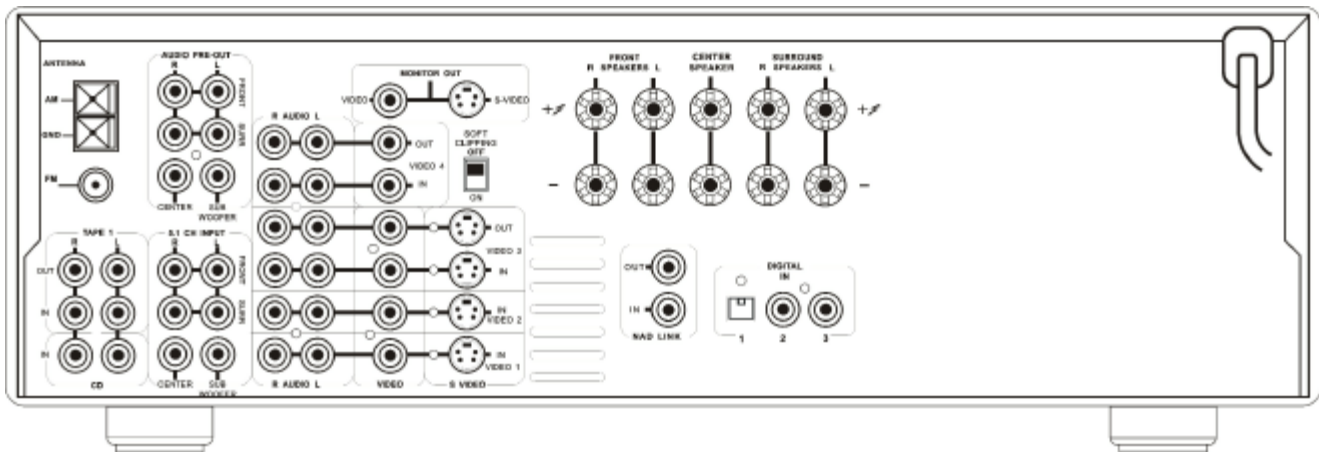
Power output Stereo Mode	2 x 60W (17.8dBW)
Simultaneous Continuous Output Power into 8 ohms (Min. power per channel, 20Hz - 20kHz with no more than 0.08% THD rated distortion)	5 x 50W (17.0dBW)
IHF dynamic power; 8 ohms	2 x 90W (19.2dBW)
IHF dynamic power; 4 ohms	2 x 130W (21.1dBW)
IHF dynamic power; 2 ohms	2 x 175W (22.43dBW)
Total harmonic distortion at rated power	0.08%
IM distortion at rated power	0.08%
Damping factor 8 ohms	60
Input sensitivity and impedance	200mv / 50k ohms
Frequency response	5 to 20,000 Hz ±0.8dB
Signal/noise ratio; ref. rated power / 8 ohms	>96dB
Signal/noise ratio; ref 1W / 8 ohms	>80dB
Remote Control	Yes

### Tuner Section

Input sensitivity Mono	16.1dBf
50dB Stereo	36.1dBf
Harmonic Distortion; FM Mono	0.25%
Harmonic Distortion; FM Stereo	0.5%
Signal/noise; Mono	72dB
Signal/noise; Stereo	66dB
Stereo separation at 1kHz	40dB
Frequency response; ±1.5dB	30Hz - 15kHz

### Physical Specifications

Dimensions (W x H x D)	17 <sup>1</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>16</sub> x 13 <sup>13</sup> / <sub>16</sub> " (435 x 132 x 350mm)
Net Weight	31.24 lbs (14.2kg)
Shipping Weight	33 lbs (15kg)



[www.NADelectronics.com](http://www.NADelectronics.com)

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