The NAD T 785 now comes with full High Definition decoding thanks to NAD’s innovative approach to upgrading your AV tuner preamplifier – Modular Design Construction (MDC). The NAD T 785 is heir to many generations of award-winning NAD designs. This exceptional pedigree is evident in both the look and the feel of the T 785, and it is unmistakable the moment you listen. It is NAD’s insistence on creating products with remarkable sound quality at sensible prices that has made NAD the first choice among the most knowledgeable listeners from around the world. NAD’s ‘Music First’ philosophy dictates that we endow our Audio Video products with the same warm, involving sound quality that makes music listening so rewarding with our stereo components. This stands in stark contrast to our competitors who view Audio Video components primarily from a ‘content’ point-of-view, with sound quality far down the list of priorities. Yet the T 785 is second to none in terms of flexibility and up-to-the-minute digital technology.

> FEATURES

- 200W x 7 (FTC) Power
- 7 x 120W Minimum Continuous Power into 4/8 ohms, all channels driven simultaneously 20Hz – 20kHz at <0.05%THD [NAD Full Disclosure Power]
- PowerDrive™ amplifier technology
- Twin Power Supplies with 2 Toroidal transformers
- MDC [Modular Design Construction] allows future upgrades, includes AM 200 Dual DSP Audio module and VM 200 VXP Video Module
- Lossless decoding: Dolby TrueHD and DTS-HD Master Audio
- Dolby Digital, Dolby Digital Plus, ProLogic II, ProLogic IIx, DTS, DTS ES, DTS 96/24, DTS NEO:6, EARS and Enhanced Stereo Surround Modes
- Audyssey Auto Calibration of all speaker settings using supplied microphone
- Audyssey MultEQ XT Room Correction with custom NAD developed target response curves
- Audyssey Dynamic Volume and Dynamic EQ
- 5 A/V Custom Presets store unique speaker level and tone control settings
- Direct access speaker level adjustment for surround, centre and subwoofer
- NAD Soft Clipping™
- 7 Analogue Stereo Audio Inputs including 1 Audio Front Input in the front panel
- Media Player MP front panel input
- 6 Analogue Video Inputs including 1 S-Video and 1 Composite Front Video input in the front panel
- 3 Component Video Inputs
- 7 Digital Audio Inputs - 3 Coaxial and 4 Optical including Optical Front input in the front panel
- 4 1080p HDMI Digital Audio/Video Inputs
- Cross Conversion of all analogue video formats
- Analogue video to HDMI Conversion
- Sigma VXP Image Processing with HD scaling to 1080p
- 3 Analogue Audio outputs including Zone 2 Audio Out and with the 2 other Audio outputs assignable also as Zone 3 and Zone 4 Audio Out
- Back Surround Amplifier Channels can be reassigned as Zone 2, 3, 4 or Main Front (Bi-Amp)
The surround mode of the source material is automatically detected via the digital inputs of the T 785, and the most advanced form of decoding is switched in. Conversion of the encoded digital bitstream is performed with high resolution and extremely linear D/A Converters carefully selected for their performance capabilities.

NAD’s reputation for producing power amplifiers that are both potent and musical is upheld in fine manner with the T 785. Boasting a minimum of 120 watts continuous power per channel, the T 785 can fill even large rooms to lifelike sound levels. NAD’s exclusive PowerDrive™ amplifier technology automatically adjusts the power supply settings of the amplifier to the needs of the loudspeaker. This ensures remarkably dynamic and distortion-free performance with any type of loudspeaker, even demanding 4 ohm designs. Many less advanced receivers prohibit the use of 4 ohm speakers. With PowerDrive™, the performance is always optimized for the actual operating condition and as a result, the amplifier exhibits very low distortion and good current drive in the real world. Explosive musical dynamics are effortlessly handled without added distortion.

Credit for the sound of NAD’s components rests squarely with our unique design approach and our experienced and very talented design team. Most companies design their products to a technical specification and a price point. While this sounds logical enough, it does not address the way the product will actually be used by the eventual owner. You don’t listen to specifications; you listen to music and sound. While NAD products exhibit excellent technical measurements, we have relied on our own ears and listening experience to determine the final design of our products. Because of our unique design approach, NAD’s sound is simply more real sounding, adding enjoyment and excitement to your favourite films and music recordings.
Video Performance
The T 785 features NAD’s newly developed HDMI repeater featuring Sigma’s VXP Image Processor. Both analogue and digital video sources can be selectively processed using Sigma’s advanced VXP algorithms. This is the best performing image processing engine we could find, and the T 785 is the only AVR on the market featuring this advanced technology usually reserved for high end preamp processors and HT projectors.

The new VXP video board features video conversion to resolutions as high as 1080p and supports all SD and HD formats up to 2048 x 2048 pixels. Motion adaptive de-interlacing with edge interpolation eliminates the jagged edge effects common in lesser image processors. Film mode detection with output cadence generation endows the video picture with a film-like smoothness of motion. The programmable scaling engine also allows for aspect ratio conversion to perfectly match the video source with the video display. Advanced noise reduction and detail enhancement improve legacy analogue video sources to near HD quality.

Flexibility
The T 785 has all the flexibility required to serve as the command centre for even the most sophisticated Home Theatre and multi-room systems. A full suite of video switching caters to all the popular video formats (HDMI, Component Video, S-Video, and Composite Video). Digital inputs (including a handy front panel input) and outputs are available in both coaxial and optical formats to make it easy to attach all your digital sources for playback and recording. Digital inputs are converted to analogue for use in Zone 2 and you can choose to convert unused audio/video outputs for Zone 3 and Zone 4 use with independent source selection and volume control.

With the T 785, NAD has made it easy to add more speakers for listening to music in additional rooms or ‘zones’. A second pair of speakers can simply be added to the front channel amplifiers and switched on or off from the remote control or front panel switch. More elaborate systems can also be created using the Zone 2, 3 and 4 outputs to add amplifiers and speakers with the benefit of independent source selection and volume control. Furthermore, the Back Surround Amplifiers can be assigned to any of these zones, allowing for a simultaneous 5.1 Home Theatre and a powered second zone. A separate second zone remote is included.

There are also 12 volt triggers to automatically switch remote zone amplifiers on and off, and even an RS-232 data port for connection to highly advanced automated control systems. Thoughtful features like discrete On and Off codes, direct access to inputs and FM station presets facilitates the integration of the T 785 into elaborate remote control systems.

An analogue 7.1 input is also provided for attaching a DVD-Audio player or any other yet to be developed surround decoder, ensuring that the T 785 does not become obsolete anytime soon. Preamp outputs allow the addition of more powerful amplifier channels.

Luxurious Simplicity
All the capability and flexibility in the world is quite useless if the receiver becomes too complicated to be operated by every member of the family. NAD has taken special measures to make operation of the T 785 as logical and straightforward as possible.

Initial system setup is best accomplished using your television monitor and the clear and simple On Screen Display (OSD), which can be configured to also give status updates as settings are changed in everyday use. Once the T 785 is informed of your specific system setup, all settings are stored in a non-volatile memory, making this a one time task. The informative front panel display indicates complete information about the source being listened to or watched, including selected surround mode and volume setting. The front panel display can be easily customized by renaming inputs and even determining what information you prefer to be displayed and when to display it.

Audyssey Auto Calibration is available using the supplied calibrated microphone. Simply place the microphone in the listening position and select Audyssey auto-calibration and the system automatically detects which speaker is connected, chooses the ideal crossover point to the subwoofer, checks speaker phasing, and adjusts the levels and delays. These adjustments are made to a level of accuracy that would be difficult to duplicate by ear alone.

Audyssey MultEQ XT is the latest in digital sophistication, allowing for improved frequency response in a large, family-sized sweet spot. Using the calibration microphone to ‘hear’ your room, a series of test tones measure the speakers’ response and the room’s distorting echoes independently, and then calculates an ideal response that minimizes the effects of the room’s echoes. While this sounds simple, the digital technology that is required for this level of performance would have cost many thousands of dollars just a few short years ago. But the electronic technology is only half the story, since an advanced knowledge of acoustics is also required to get good results from such a system. Working closely with Audyssey, NAD’s acoustic engineers developed the final response curves that reflect our own performance values.

Audyssey Dynamic Volume and Dynamic EQ work together to address the problem of large jumps in volume when switching between different TV channels or when advertisements are inserted into the program. There is also an effect caused by our ears’ different sensation of low and high frequencies at different listening levels: as the volume is reduced our sensation of bass frequencies is reduced more than the midrange frequencies.

The T 785 tuner section can store a mix of your 40 favourite AM, FM and XM (or DAB) stations for immediate recall. These presets can be custom named. And if your selected FM station supports the Radio Data System (RDS), it will automatically stream information about the station and music being played. We also include a ‘Digital Broadcast Ready’ socket on the rear panel for adding outboard DAB or XM modules. All the control software for these formats is included – just plug in the module and start enjoying the clear sound and expansive content selection available with Digital Radio Broadcast.

Five independent ‘Audio Video Presets’ can store speaker level and tone control settings for instant recall, making it easy to custom tailor your system for different types of program material. Encoded surround modes like Dolby Digital and DTS are automatically selected if the program is so encoded. The T 785 also remembers your last used settings when switched in and out of Standby mode.
The included HTRC 1 remote handset is in itself an engineering tour de force. Able to control up to eight different components, an illuminated LCD screen clearly shows what device is selected and what command is being sent. It has illuminated buttons for easy operation in a low light environment, and the length of time the buttons are illuminated can be easily adjusted. Remote commands for products not already included in the HTRC 1’s memory can be easily ‘taught’ to the HTRC 1. And HTRC 1’s Macro function allows up to 64 individual commands to be triggered by pressing just two keys. With this feature, all of the commands required for watching a DVD, for example, are executed automatically by the HTRC 1’s Macro function. There is also a USB port that allows the HTRC 1 to be connected to a PC and using our freely downloadable program from the NAD website, you can program, customize, memorize and clone the HTRC 1.

**Summary**

The T 785 offers remarkable performance and flexibility in a compact and simple to operate package. This multi-channel powerhouse will bring your favourite music and movies to life in your home entertainment room with an absolute minimum of fuss and a maximum of pure enjoyment.

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### Specifications

**Power Amplifier Section**

- **Minimum continuous Power (FTC):** 200W
- **Power output, Stereo Mode:** 170W (ref. 4/8Ω, both channels driven at rated distortion)
- **Simultaneous Full Disclosure Power:** 7 x 120W (ref. 4/8Ω, all channels driven at rated distortion)
- **IHF dynamic power, 8Ω:** 250W
- **IHF dynamic power, 4Ω:** 400W
- **IHF dynamic power, 2Ω:** 600W
- **Rated THD:** <0.08% (ref. 20Hz – 20kHz)
- **IM distortion, rated power:** <0.08%
- **Damping factor, 8Ω:** >60
- **Input sensitivity and impedance:** 330mV / 50kΩ
- **Frequency response:** ±0.8dB (ref. 20Hz – 20kHz)
- **Signal/Noise ratio:** >92dB (ref. rated power, 8Ω, A-weighted)
  >82dB (ref. 1W, 8Ω, A-weighted)

**Pre-Amplifier Section**

- **Input sensitivity and impedance:** 350mV / 50kΩ
- **Frequency response:** ±0.5dB (ref. 20Hz – 20kHz)
- **Signal/Noise ratio:** >86dB (ref. 2V, A-weighted)

**AM Band**

- **Frequency range:** 530kHz - 1710kHz (120V version only, 10kHz steps)
- **Usable sensitivity:** 30dBu
- **Signal/Noise ratio:** >36dB
- **Total Harmonic Distortion:** <3%
- **Loop sensitivity 20dB S/N:** 66dBu

**FM Band**

- **Usable sensitivity, Mono:** <16.1dBf
- **Signal/Noise ratio, Mono:** 60dB
- **Signal/Noise ratio, Stereo:** 55dB

**Dimensions and Weight**

- **Dimensions (W x H x D):** 435 x 190 x 431mm (Gross*)
- **Net Weight:** 20.8kg
- **Shipping Weight:** 25.7kg

* Gross dimensions include feet, extended buttons and rear panel terminals.

Note: Installers should allow a minimum clearance of 55mm for wire/cable management.