

classic series



performance value simplicity

NAD

## Stereo Integrated Amplifier C 370



NAD is an uncommon company with a proven commitment to audio excellence. The appearance of NAD components is as straightforward as the no-nonsense "Music First" design philosophy that has guided this visionary company for the past quarter century.

We can tell you all the technical reasons NAD components sound so good if you really want to know, but the bottom line is that NAD simply sounds better. On the inside, where it counts, NAD has engineered its products using the most sophisticated and powerful technology available today. On the outside, NAD has designed a control panel that's intuitive and easy to use. It has never been NAD's policy to impress with baffling tech-specs that look good only to those who pretend to understand them but mean nothing to you in everyday usage. NAD engineers realised many years ago that flashy and impressive figures can tell a misleading story; far too often there is a large discrepancy between imposing specifications in a glossy brochure and what actually happens when you listen to music or watch a movie at home.

Don't get the wrong idea - NAD products measure up alongside any of the competitors. But one thing is paramount to NAD. It's the sound that counts!

By studying actual listening in realistic environments, all NAD products achieve a level of performance far beyond that which the specifications suggest. But that's not all. Performance is one thing, ease of use is another. NAD has always maintained that a product should be simple to operate. You will find many products from other brands laden with knobs, buttons and lights, most of which are seldom, if ever, used but which do cost money to include. Leaving out those unnecessary features and concentrating only on those that are truly useful allows the money to be spent where it really counts - on the inside rather than on the outside.

This uncommonly rational approach to audio design and dedication to simplicity and value has brought critical acclaim from audio reviewers and an impressive following from knowledgeable music lovers and Home Theatre enthusiasts worldwide.

Take your time, absorb what you read, then go and listen for yourself and find out just why NAD is so different.



## performance

NAD's tradition of creating products with "giant killer" performance has been well established over the last quarter century. And this reputation has been earned by applying creative engineering solutions and meticulous fine-tuning to every circuit in every NAD product. Designed by music lovers, for music lovers, NAD components consistently deliver exceptional performance that brings you closer to the music. It is our strong belief, that when a product doesn't deliver an emotionally involving and musically accurate performance, then it has missed the primary point of its very existence!

## value

We define value as getting more for less. In the case of NAD, that's more performance, and less money spent. Careful design and execution, and staying focused on what's really important allows NAD to consistently offer products that overachieve in this regard. The ability to get performance that is very close to the "cost-no-object" crowd, at an everyday affordable price, is a key element in the NAD philosophy.

## simplicity

What makes NAD so unique in the world? It isn't just an insistence on great sound quality, it is also our sensible approach to product design and manufacturing. By keeping our designs simple, and by avoiding the trendy gimmicks favoured by many of our competitors, we can offer products that perform better, cost less, and last longer. This refreshing approach can be summed up in one word: simplicity.



While many brands try to woo customers with flashy front panels, and a long list of dubious "features", NAD has continued to develop products that retain performance benefits long regarded as essential by NAD owners and enthusiasts. Sometimes what we leave out is just as important as what we include in our product designs!

We have always believed that our products should perform in the real world first and foremost. Because the impressive specs listed in a glossy brochure are measured in the laboratory, under ideal conditions, they often do not translate into tangible benefits when listening to music or watching movies in your own home. You can be sure when you purchase an NAD product, that we have spent many hours listening and fine tuning our products under real world conditions.

But different people have different needs, and for this reason we have established four different series of products. While each and every product adheres to our core values of performance, value, and simplicity, the functionality and packaging are different.

## home theatre

Home Theatre has taken TV viewing into an entirely new dimension; quite literally in fact, since with 5.1 surround sound you become totally immersed in the action. The highly involving nature of the Home Theatre Experience adds new excitement and pleasure to home entertainment. Surround sound has been quickly adopted by the film industry, and there are now thousands of films available for home viewing on DVD and video tape that include Dolby Surround sound tracks. But even music listening can take on a new sense of realism when played through a surround sound system.

But all surround sound systems are not created equal, and that's where NAD fits in. Our "Music First" approach to Home Theatre recognises the fact that more isn't always better, and the same principles that have created so many award winning stereo products are just as valid - maybe even more so - in the world of multi-channel surround sound. Music reproduction is more demanding than movie sound effects, as any distortion is far more obvious with music. Thus a product that can reproduce music on par with the best stereo hi-fi components will easily make movie soundtracks come to life, while adding the extra dimension of surround sound. NAD's Theatre Series components sound great on movies and music, are easy to operate, and offer tremendous value.



## classic

The two-channel stereo format has endured for over 40 years because of its nearly ideal combination of life-like sound quality and simple, affordable system architecture. NAD has been producing quality stereo components for nearly thirty of those years, and has earned an enviable reputation for offering musical sound and great value for money. Even in this age of multi-channel surround sound, we still believe that there are many applications where a two-channel system simply can't be improved on. If you agree, then the Classic Series from NAD probably has exactly what you are looking for.

The Classic Series offers a complete range of amplifiers, receivers, preamp/power amp combos, tuners, tape recorders, and CD players. Each is developed with an ear for musical sound, an eye toward simplicity, and a promise that we won't waste your money on engineering overkill or superfluous features. Yet, over the years, we have added many convenience features that make a real difference in everyday enjoyment.



## NAD solutions

NAD Solutions are just that. Products that apply the NAD philosophy of performance, value and simplicity, while solving the struggles of design and lifestyle. NAD has created a new category of products that meet a wide range of consumer needs but deliver the NAD "Music First" solution that you have come to expect. The first two NAD Solutions are the L55 and L75 that complement each other to form the NAD Music and Home Theatre System.

Designed for those of us with minimal space to devote to a movie theatre-sized system but who still want the total experience. There is no sacrifice in the Audio and Video presentation and its stylish exterior fits beautifully with today's interior design themes. Its high performance audio output is more than matched by its stunning video quality.

Watch for further NAD Solutions Series products that will enhance your everyday life.

Note: NAD Solutions is not available in all markets.



## silver

NAD is recognised as a leader when it comes to sensible yet unreservedly high performance audio and video. The Silver Series components are the most ambitious and sophisticated designs ever offered by NAD. The result of careful engineering and inspired industrial design, the Silver Series components are built from the ground up with sandblasted natural aluminium alloy extrusions and panels. The chassis are both beautiful and rugged, with optimal thermal and electrical characteristics.

Behind their elegantly understated exteriors, these handsome home theatre and audio components embody the essence of the NAD design philosophy. This can be easily stated: "Music First" engineering that avoids wasteful cost, ergonomically conceived controls that serve genuinely useful functions, and attractive design with first-rate finish and assembly. Advanced circuit designs are implemented using high precision, close tolerance parts obtained from the world's best suppliers. The Silver Series exemplifies our firm's traditional values - performance, value, and simplicity - to a higher degree than ever before.

As always, sonic performance is the first priority at NAD. Our Compact Disc Players offer a unique combination of uncomplicated controls, genuinely useful features, and superb sound quality. These multiple and single disc CD players employ some of the finest components available and our carefully tailored circuit designs ensure a convincingly musical performance. Experience the NAD difference for yourself and discover the true meaning of value.

- Single disc CD Player with Full Function Remote Control
- Burr-Brown Sigma-Delta 24 bit Digital to Analogue converter
- HDCD Decoder
- Coaxial Digital output
- Low output impedance
- Separate power regulators for analogue and digital sections
- Informative VFL display with switchable track, time and repeat
- Repeat mode for single track or entire CD
- Random play
- Remote control

## C 541

### COMPACT DISC PLAYER



Never a company to rest on its laurels, NAD has updated the award-winning C540 with a new laser mechanism that features improved tracking of the increasingly popular CD-R format for compact discs. By combining time-proven digital circuit design with the latest high performance parts, we have created a player that exceeds the already high standards for sound, quality, and value set by the C540, which itself received the industry's highest accolade from the renowned British journal, What HI-FI?, "...without a doubt one of the best CD players you can buy...."

- Single disc CD Player with Full Function Remote Control
- Burr-Brown Sigma-Delta 20 bit Digital to Analogue converter
- Coaxial Digital output
- Low output impedance
- Separate power regulators for analogue and digital sections
- Informative display with switchable track, time and repeat
- Repeat mode for single track or entire CD
- Random play
- Remote control

## C 521

### COMPACT DISC PLAYER



The NAD C 521 is a moderately priced but very high-performance CD player. Building on the considerable strengths of its predecessor the C 520, we have added CD-R playback capability to this "Best Buy" rated model. Everything needed for detailed and satisfying sound - along with convenience features such as remote control, random play, and repeat functions - is included.

## M U L T I P L E   C O M P A C T   D I S C   P L A Y E R

### 523



The NAD 523 is probably the least expensive truly high-performance CD changer in the world. The 523 combines the convenience of a 5 disc "carousel", with the kind of performance that has won widespread acclaim for single-disc NAD players. Endowed with a What HI-FI? Five Star rating, "The 523 may be a minimalist design, but it knows how to let the music shine."



- 5 Disc carousel
- Change 2 discs while playing one
- Bitstream converter
- Shuffle play
- 40 Track programming
- Full function remote control
- NAD Link

## t u r n t a b l e

## T U R N T A B L E

### 533



While other manufacturers have abandoned the LP, NAD agrees with some of the world's most devoted audio and music enthusiasts that the LP still offers outstanding musicality. Unfortunately, the choices today are limited to cheap, ill-performing turntables or expensive ones built from separate decks, tone arms and cartridges requiring expert knowledge to set up and maintain.

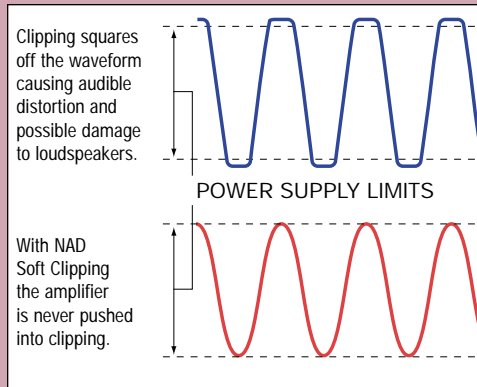
The NAD 533 is the sensible alternative; a quality deck, tone arm and cartridge at a reasonable price. Careful choice of materials and construction produces a turntable which is 'dead' acoustically, is immune to resonances and therefore leaves the music uncoloured. The NAD 533's simplicity contributes to its excellent performance but also guarantees long term reliability.

- Belt drive 2-speed turntable
- High torque synchronous motor
- One piece aluminium pressure cast tone arm
- Miniature ball bearings for tone arm
- Magnetic anti-skate
- High density non-resonant base
- Includes high quality Goldring Elektra cartridge

If music is important in your life, the exceptional performance and simple intuitive operation of these receivers may be just what you are looking for. NAD receivers have always stood out from the rest, as the engineers never compromise the quality of a receiver compared to that of separate components.

### A closer look at what makes NAD special

NAD's new and exclusive Impedance Sensing Circuitry (ISC) allows the C 730 and C 740 receivers to deliver maximum performance under virtually any circumstance, independent of the loudspeakers driven. The circuitry automatically recognises the impedance characteristics of the loudspeaker and then adjusts its power supply settings to best cope with that specific load. As usual, NAD uses discrete output stages only on these receivers to maximise sonic performance. Vast reserves of dynamic power are available to reproduce the dynamic peaks that give music its drama and impact.



NAD's unique switchable 'Soft Clipping' circuit is activated when a receiver runs into overload. In other brands this situation would result in audible distortion and potential loudspeaker damage over time. The Soft Clipping circuit, on the other hand, assures clear musical reproduction virtually free from distortion while protecting your loudspeakers.

For system expansion or upgrading there is a pre-amplifier output allowing the addition of an optional power amp, so your receiver need never become obsolete.

The tuner sections on these receivers offer high performance, noise-free reception for which NAD tuners have long been acclaimed. Users will appreciate the ease of tuning in your favourite stations, even those with low signal strength or on the often over-crowded FM band. Unlike most, the tone controls on these products only work at the frequency extremes leaving the critical mid-band essentially unaltered. NAD engineers designed these tone controls to be really useful tools to make improvements in overall sound quality.

With their full remote control handsets these receivers allow the operation of the majority of functions from the comfort of your listening position. NAD Link allows many other NAD products such as CD players and cassette decks to be operated via the receiver's system remote controller.

- 35W x 2 Continuous power (8 or 4 ohms)
- 140W x 2 Dynamic power (2 ohms)
- Impedance Sensing Circuitry (ISC)
- 6 Line level inputs, including 2 tape in/out
- Pre-out/Main-in
- Connections for 2 pairs of speakers with remote selection
- 30 Random station presets in 3 banks
- 25kHz Tuning steps
- VFL Display
- 8 Character naming facility for station presets
- NAD Soft Clipping™
- Full system remote control
- NAD-Link

## C 740

S T E R E O   A M / F M   R E C E I V E R



The NAD C 740 offers a winning combination of excellent AM/FM reception, clean and high-impact power, and all the flexibility needed to bring music convincingly alive. We expect it to become one of the most valued products in audio. NAD's reputation for high value/high performance makes the C 740 a true delight for music lovers.

- 30W x 2 Continuous power (8 or 4 ohms)
- 90W x 2 Dynamic power (2 ohms)
- Impedance Sensing Circuitry (ISC)
- 6 Line level inputs, including 2 tape in/out
- Preamp output
- RDS tuner with 30 direct access station presets
- 25kHz Tuning steps
- VFL Display
- 8 Character naming facility for station presets
- NAD Soft Clipping™
- Full system remote control
- 12 volt trigger output for controlling other equipment
- NAD-Link

## C 730

S T E R E O   A M / F M   R E C E I V E R



Combining the advanced technology and musical performance of the C 740, in a package of more modest size and price, the C 730 is the ideal choice for smaller rooms. Tremendous dynamic power capability combined with delicacy and nuance assure a musically involving performance. Full remote control, RDS tuner with 30 direct access station presets, and a full complement of inputs make this receiver an exceptional value.



- Dual Deck (1 x playback; 1 x record/playback)
- CD-Recordable (Audio Disc) and CD-ReWritable
- 4 x Dubbing Speed
- Playback of MP-3 encoded music files (up to 10 hours playback per disc)
- DSP for MP-3 decoding, running "Fraunhofer" algorithms
- Sample rate converter: accepts inputs with 32 kHz through 96 kHz sampling rate
- Record per track or copy entire CD
- CD text recognition and dubbing
- CD deck will play "unfinalised" CD-R and CD-RW discs
- Simultaneous or Sequential playback of both decks
- 2 Optical (one on front panel) and 2 Coaxial digital inputs
- 2 Optical and 2 Coaxial outputs
- 24 bit AKM DACs
- 20 bit AKM ADCs
- Remote control



C 660

C O M P A C T D I S C R E C O R D E R



The NAD C 660 is a unique product that not only makes perfect bit-for-bit copies of CDs in one fourth the playing time of the CD being copied, but it can also function as a first rate CD player in the best NAD tradition.

In addition, with its MP-3 decoding capability and sequential playback of both decks, it can function as a personal jukebox continuously playing up to 20 hours of music at "near CD quality" without changing discs or repeating songs! Since both decks can play at the same time, it is also possible to listen to different musical programs in different areas of your home when used with a multi-zone music distribution system.

Whether you are making a copy of an entire CD, or a compilation of your favourite music, the recording process couldn't be easier. Just place the CD to be copied in the playback tray and the blank CD-R or CD-RW disc in the recording tray. Program the tracks to be copied, and the C 660 does the rest. You can also make copies from analogue sources such as LP, tape, or radio broadcast via the analogue stereo inputs. The signal is automatically converted to digital format without loss of quality thanks to the superb Analogue-to-Digital converters built in to the C 660. External digital sources can also be easily recorded with automatic sample rate conversion if required.

As one would expect from NAD, particular care has been taken for all audio related circuitry. The ADC (analogue-to-digital converter) from AKM with its 20 bit resolution and

differential input assures that analogue sources are copied with utmost precision. The DAC (digital-to-analogue converter), also from renowned manufacturer AKM, has full 24 bit resolution and usually only found in CD players with high end aspirations. Even the MP-3 decoding has received special attention, as we utilise a dedicated Digital Signal Processor (DSP) running the "Fraunhofer" decoding algorithms, widely regarded as the most musically accurate for MP-3 listening. The analogue output stages also get the full NAD treatment, with high quality 5532 op-amps, precision metal film resistors, and Elan polypropylene capacitors, assuring a richly detailed and transparent sound quality. This scrupulous attention to detail is usually encountered only in far more expensive products.

We know of no other product on the market today that combines the superb sound quality, ease of use, and unique functionality of the NAD C 660. Whether you want to upgrade the sound of your CD player, archive precious analogue LPs and tapes into digital format, or move MP-3 files from the computer to the realm of hi-fi playback, the C 660 stands ready and willing to satisfy.

Sonic performance is always the first priority at NAD and these deceptively simple, no-frills cassette decks are no exception. In fact, they may be the only cassette decks in their price range to faithfully reproduce a wide range CD without dulling its impact. It all sounds superb thanks to Play Trim combined with Dolby HX Pro and Dolby B and C noise reduction circuitry.

Dolby HX Pro provides improved high frequency response at maximum recording levels. Play Trim provides adjustable gain or reduction of the high frequencies before the Dolby noise reduction circuits, eliminating high frequency roll-off and mistracking and thereby restoring flat frequency response, superb playback fidelity and maximum noise reduction. Play Trim also compensates for

misalignment or compatibility problems between different cassette decks. Utilising the exclusive NAD Play Trim facility in dubbing mode on the 616 dubbing cassette deck, you can even copy the corrections from the original to the copy, making it possible to produce copies better than the original!

- High performance dual well deck
- Play Trim™
- Dolby™ HX Pro
- Dolby™ B and Dolby™ C NR
- Auto reverse on both transports
- 2 Drive motors per transport
- Normal and high speed dubbing
- Repeat and sequential play
- NAD Link

## 616 C A S S E T T E D E C K



The NAD 616 is a dubbing deck with uncompromised performance, useful simplicity, and every feature needed for optimum results with all sources and tape types. An astonishing performer at a sensible price.

- Play Trim™
- Dolby HX Pro™
- Dolby™ B and Dolby™ C NR
- Low noise electronics
- Memory counter
- NAD Link

## 613 C A S S E T T E D E C K



The NAD 613 is a high-performance stereo cassette deck with great flexibility that makes it simple to record CDs, LPs, and broadcasts with excellent results for home or car listening - an outstanding value.

## C 440

S T E R E O A M / F M T U N E R



The NAD C 440 Stereo AM/FM tuner offers superbly musical sound quality with a nearly silent background, and the exceptional reception capabilities for which NAD tuners have long been acclaimed. Users will appreciate the ease of tuning in your favourite stations, even on the often over-crowded FM band. The NAD BLEND function reduces background noise while retaining good stereo separation on weak stations and the 8 character naming facility allows you to personalise your favourite station presets. Here is performance and convenience at a price that will astound you.

- 30 Random station presets in 3 banks
- MOS-FET RF section
- Ultra-linear I.F. filters
- 25kHz Tuning steps
- VFL Display
- 8 Character naming facility for station presets
- Manual FM blend facility
- NAD Link

## C 420

S T E R E O A M / F M T U N E R



The C 420 is a perfect blend of performance and convenience in a very affordable package. Simple and intuitive to operate, the C 420 is also impressive in its ability to bring in radio stations with remarkable clarity and a very quiet background. With its IR sensor, direct access to station presets, and 12 volt trigger input, the C 420 integrates easily with other NAD components or as part of an elaborate automated multi-zone custom installation.

- 30 Random station presets
- MOS-FET RF section
- 25kHz Tuning steps
- VFL Display
- RDS PS (station name) and RT (radio text)
- 8 Character naming facility for station presets
- Manual FM blend facility
- 12 volt trigger input for controlling other equipment
- IR sensor and NAD Link for remote control capability

NAD integrated amplifiers offer much of the convenience and value of our receivers but without the AM/FM tuner. With the proliferation of alternate music broadcasting from satellite and cable not requiring an FM tuner, buying an integrated amplifier allows you to spend more of your budget on a better quality CD player or a more powerful amplifier.



- 120W Continuous power (8 & 4 ohms)
- 400W Dynamic power (2 ohms)
- Bridgeable to 300W, when partnered with a C 270
- Impedance Sensing Circuitry (ISC)
- 7 line inputs, including 2 tape in/out
- 2 Preamp outputs, one with a 12 dB variable attenuator
- Main amp input
- Tone controls with defeat switch
- Gold plated sockets
- Remote switching for 2 pairs of speakers
- Heavy duty speaker binding posts
- Class A preamp stages
- Discrete power amps
- Relay input switching
- Toroidal transformer
- Headphone socket
- Full system remote control
- 12 volt trigger output for controlling other equipment
- NAD Link

## C 370

S T E R E O I N T E G R A T E D A M P L I F I E R



The C 370 occupies the top position in NAD's renowned line-up of Integrated Amplifiers. Based on the C 160 Preamp and C 270 Power Amp, the C 370 gives up very little in performance terms, and gains tremendously in value by integrating these superb separate components into a single chassis. With its well thought out architecture, many future system upgrades are easily accomplished without losing your original investment to costly trade-ups. This building-block approach allows you to attach additional speakers, or triple the amplifier power or even bi-amplify your speakers by simply adding a C 270 Power Amp.

But with the tremendous power already on tap, you may never find the need to add more! Yet the C 370 does not trade musical subtlety and nuance for its brute strength. As one reviewer remarked, its performance was like an iron fist in a velvet glove. Already blessed with Five Gold Stars and an Amplifier of the Year Award from Britain's renowned journal, What Hi-Fi?, the C 370 is bound for cult status with hi-fi hobbyists. The C 370 forms the ideal system centrepiece for the discriminating music lover.

## C 350

S T E R E O I N T E G R A T E D A M P L I F I E R



Based closely on the circuitry of the C 370, but with less power and not quite so many upgrade paths, the C 350 stands out as one of the great bargains in hi-fi today. Like its larger sibling, the C 350 combines astounding soundstage, a richly textured sound with remarkable drive and the ability to keep pace with complex musical rhythms and thundering crescendos. Whether your musical tastes lean toward the acoustical warmth of classical and jazz, or the searing power of rock and dance music, the C 350 is sure to satisfy.

- 60W Continuous power (8 & 4 ohms)
- 240W Dynamic power (2 ohms)
- Impedance Sensing Circuitry (ISC)
- 7 line inputs, including 2 tape in/outs
- 2 Preamp outputs
- Main amp input
- Tone controls with defeat switch
- Gold plated sockets
- Heavy duty speaker binding posts
- Class A preamp stages
- Discrete power amps
- Relay input switching
- Toroidal transformer
- Headphone socket
- Full system remote control
- 12 volt trigger output for controlling other equipment
- NAD Link



## C 320

S T E R E O I N T E G R A T E D A M P L I F I E R



The NAD C 320 is the direct descendant of our original 3020 integrated amplifier - the world's best-seller in its category. Times have changed, and while this new model does not include phono input for LP, it does include full remote control. Still present is power beyond its modest rating, sound that is both transparent in the midrange and highs and solid at low frequencies, and the ability to satisfy listeners of all musical tastes. If you listen in a smaller room, or have less demanding speakers, the C 320 is probably all you'll ever need in an amplifier.

Note: Not available in North America.

- 40W x 2 Continuous power (8 & 4 ohms)
- 160W x 2 Dynamic power (2 ohms)
- Impedance Sensing Circuitry (ISC)
- Full system remote control
- Headphones socket
- Relay input switching
- Toroid power transformer
- 7 Line inputs, with two tape in/outs
- All discrete circuitry
- Short signal path from input to output
- All sockets gold plated
- Tone controls defeat switch
- Pre-out / Main-in
- Soft Clipping
- NAD Link



## C 300

S T E R E O I N T E G R A T E D A M P L I F I E R



The NAD C 300 may be the least expensive, least complicated way to power and control an affordable high-performance audio system. With surprising power and first-class components, it is a perfect entry into high-fidelity sound reproduction.

Note: Not available in North America.

- 25W x 2 Continuous power (8 ohms)
- 90W x 2 Dynamic power (2 ohms)
- In excess of 40A peak current!
- Toroidal transformer
- "Class A" discrete amp module driver stage
- All discrete circuitry
- Non-intrusive protection against short circuits, overheating and DC offset
- Short signal path from input to output
- All sockets Gold plated
- Remote control for Volume & Muting
- Headphone socket
- 7 Line inputs, including two tape in/outs
- Tone control defeat switch



With NAD's range of pre- and power amplifiers, you can exactly tailor your system to your individual needs. Whichever power level and feature complement you require, NAD separate components offer tremendous value. The combination of performance, flexibility and reliability make these pre- and power amplifiers ideal for demanding music, home theatre and

professional applications. The NAD 218THX is a massively powerful amplifier with the ability to drive any loudspeaker, even demanding low sensitivity and low impedance types. The C 270 follows the same design principles, with output power being the major difference. Both include a massive NAD "Holmgren" toroidal transformer and high current output stages for outstanding

performance. For maximum flexibility, the amplifiers can be operated in bridged mono mode, typically tripling their output power.

- 6 line level inputs incl. 2 Tape in/outputs with dubbing facility
- Switchable MM and MC phono input
- 2 line level preamp outputs; one is variable from 0dB to -12dB
- Gold plated in and output sockets
- Pure "Class A" discrete amplifier modules
- Independent headphone amplifier
- Bass & Treble control with Tone Defeat switch
- Full Remote Control
- "Blue Velvet" Alps motorised volume control
- Input switching through hermetically sealed relays
- 12 volt trigger output for controlling other equipment
- NAD Link

## C 160

S T E R E O P R E - A M P L I F I E R



The NAD C 160 has everything needed for highest performance, including a phono preamp section that handles either moving-magnet or moving-coil cartridges. Class A amplifier stages and a high precision volume control, typically found only in far more expensive designs, are complemented by an over-specified power supply and selected close tolerance parts throughout. An extra, variable-level pair of outputs provides precise matching with any amplifier, and facilitates bi-amplification in more demanding applications. With a stunningly musical presentation from a dead silent background, the C 160 is a natural choice for even the most ambitious systems.

- Compact external Moving Magnet phono preamplifier
- RIAA equalisation
- Gold plated connectors
- Remote AC power supply

## PP-1

P H O N O P R E - A M P L I F I E R



The NAD PP-1 is a simple, amazingly inexpensive plug-and-play accessory that adds an excellent phono capability to any line-level pre-amplifier, integrated amp, or receiver. Its performance is amazingly close to that of units many times the price. The PP-1 has been recognised by the high end American journal, Stereophile, as a Recommended Component: a lofty accolade for such a diminutive device!



## 218THX

S T E R E O P O W E R A M P L I F I E R



The NAD 218THX is a tremendously powerful and transparent sounding stereo power amplifier. This powerhouse has ample reserves of power to drive even the most demanding loudspeakers with amazing realism. We don't know of another power amplifier on the market today that delivers this kind of performance for anywhere near the price of the 218THX. A Stereophile recommended component.

- 225W x 2 Continuous power (8 ohms)
- 700W x 2 Dynamic power (2 ohms)
- Bridgeable to 780W mono (8 ohms)
- Output stage uses 8 bipolar devices per channel
- Massive Holmgren™ toroidal transformer
- Professional balanced XLR inputs and un-balanced RCA inputs
- Integral, commercial-grade rack handles
- NAD Soft Clipping™
- Certified for THX home theatre use by Lucasfilms, Ltd.

## C 270

S T E R E O P O W E R A M P L I F I E R



This cost-effective design epitomises the NAD's long tradition for producing power amps that perform way beyond what their specifications would suggest. The C 270's combination of very high dynamic power and ultra low distortion - even when presented with complex speaker loads - gives this amplifier a sense of ease usually reserved for the exotic "high end". Non-intrusive protection circuitry is sonically transparent, yet effectively intervenes when a fault condition exists. The C 270 has an open and transparent sound, with a strong rhythmic drive and clear delineation of individual instruments in a deep and wide soundstage.

- 120W Continuous power (8 & 4 ohms)
- 400W Dynamic power (2 ohms)
- Bridgeable to 300W, when partnered with a C 270
- Impedance Sensing Circuitry (ISC)
- 2 inputs, one with a 12 dB variable attenuator
- Gold plated sockets
- 2 pairs of heavy duty speaker binding posts for easy bi-wiring
- Discrete power amp stages
- Toroidal transformer
- 12 volt trigger input for controlling other equipment

# specifications

COMPACT DISC PLAYERS	C 521	C 541	523
<b>CD Section</b>			
Disc capacity	1 x 120mm or 80mm CD-R Compatible	1 x 120mm or 80mm CD-R Compatible	5 x 120mm or 80mm
Programming capability	20 Tracks	20 Tracks	40 Tracks
Digital-to-analogue conversion	20 bit Sigma-Delta	24 bit Sigma-Delta	0
Digital filter	8 x oversampled	8 x oversampled	8 x oversampled linear
Analogue filter	4 pole active	5 pole active	
Frequency response 5Hz-20kHz	±0.5dB	±0.5dB	±0.4dB
De-emphasis error	<0.5dB	<0.5dB	
THD (at 0dB, 1kHz)	0.0035%	0.0035%	0.003%
Dynamic range	96dB	98dB	98dB
Linearity	± 0.5dB; 0 to -90dB	± 0.5dB; 0 to -90dB	±1 dB; 0 to -90dB
Signal/noise ratio, A-weighted	108dB	108dB	>95dB
Channel separation at 1kHz	>110dB	>110dB	>85dB
Channel separation at 10kHz	>80dB	>80dB	
Wow and flutter	Quartz accuracy	Quartz accuracy	Quartz accuracy
Output impedance	300 Ω	300 Ω	
Output level at 0dB	2.2V rms	2.2V rms	2.0V rms
Digital error correction	CIRC, double error correction in C1 and C2	CIRC, double error correction in C1 and C2	CIRC, double error correction in C1 and C2
Digital output	Yes - Coaxial	Yes - Coaxial	No
<b>Remote control</b>	Yes	Yes	Yes
<b>Physical Specifications</b>			
Dimensions (W x H x D)	435 x 70 x 285mm	435 x 70 x 285mm	435 x 121 x 390mm
Net weight	4.1kg	4.1kg	6.17kg
Shipping weight	4.9kg	4.9kg	7.39kg

TURNTABLE	533
Drive system	Belt drive
Motor	High torque
Speeds	33.3 & 45rpm
<b>Tonearm</b>	
Operation	Manual
Length (pivot to stylus)	244mm
Mass	9g
Overhang	19.1mm
Cartridge weight	4.2g
Vertical tracking force	1.7g
Cable capacitance	150-400pF
<b>Cartridge specification</b>	
Transducer	±3dB 20Hz-20kHz
Frequency response	2dB at 1kHz
Channel balance	20dB at 1kHz
Channel separation	5mV ±2dB
Sensitivity	1kHz at 5cm/sec
Static compliance	16mm/N
Equivalent tip mass	0.7g
Vertical tracking angle	26°
Stylus radius	18µm x 7µm
<b>Electrical characteristics</b>	
Load resistance	47kΩ
Load capacitance	150-400pF
Internal inductance	56mH
Internal resistance	700 Ω
<b>Physical Specifications</b>	
Dimensions (W x H x D)	447 x 115 x 356mm
Net weight	5.25kg
Shipping weight	6.9kg



STEREO RECEIVERS	C 730	C 740
<b>Pre-Amp Section</b>		
<b>Line level inputs</b>		
Input Impedance (R+C)	20k $\Omega$ /200pF	20k $\Omega$ /500pF
Input Sensitivity; ref. 0.5V	200mV	240mV
Maximum input signal	10V rms	
Frequency response (-3dB 3Hz - 70kHz)*	$\pm$ 0.5dB	$\pm$ 0.3dB
Signal/noise ratio, ref 1W	>90dB	
<b>Line level outputs</b>		
Output impedance	220 $\Omega$	220 $\Omega$
Tape	Source Z + 2k $\Omega$	Source Z + 2k $\Omega$
Maximum output level	4V rms	
<b>Tone controls</b>		
Treble	$\pm$ 10dB (at 10kHz)	5dB (at 10k)
Bass	$\pm$ 10dB (at 100Hz)	7dB (at 50Hz)
<b>Remote control</b>		
	Yes	Yes
<b>Power Amp Section</b>		
Continuous output power †	30W(14dBW)	35W (15dBW)
Rated distortion (THD 20Hz-20kHz)	0.05%	0.01%
Clipping power ‡	35W (16.5dBW)	55W (17.4dBW)
IHF dynamic headroom at 8 $\Omega$	+2dB	1.8dB
IHF dynamic power at 8 $\Omega$	45W (17dBW)	75W (18.8dBW)
IHF dynamic power at 4 $\Omega$	70W (18.5dBW)	120W (20.8dBW)
IHF dynamic power at 2 $\Omega$	90W (19.5dBW)	130W (21.1dBW)
Damping factor (ref. 8 $\Omega$ , 50Hz)	>60	>60
<b>Line level inputs</b>		
Input impedance		20k $\Omega$ /100pF
Input sensitivity (for rated power into 8 $\Omega$ )		1V
Frequency response: 20Hz-20kHz	0.5dB	0.3dB
Signal/noise ratio; ref 1W		90dB
Signal/noise ratio; ref rated power		106dB
<b>FM Tuner Section</b>		
Usable input sensitivity; FM mono:	2.2 $\mu$ V, IHF	1.8 $\mu$ V
Usable input sensitivity; FM stereo:	16 $\mu$ V, IHF	15 $\mu$ V
50 dB Quietening sensitivity; FM mono:	4 $\mu$ V	3.0 $\mu$ V
50 dB Quietening sensitivity; FM Stereo:	28 $\mu$ V	20 $\mu$ V
Capture ratio (FM)	2.4dB	3dB
Image rejection	>60dB	>90dB
Harmonic distortion; FM mono	0.2%	0.15%
Harmonic Distortion; FM stereo	0.3%	0.2%
Signal/noise; mono		74dB
Signal/noise; stereo		70dB
Channel separation at 1kHz	>45dB	>45dB
Frequency response: $\pm$ 1.5 dB	15Hz-15kHz	20Hz-15kHz
<b>AM Tuner Section</b>		
Usable sensitivity	24dB $\mu$ V	20 $\mu$ V
Selectivity	21dB	32dB
Image rejection	40dB	32dB
IF rejection	45dB	50dB
Signal/noise ratio	45dB	52dB
Harmonic distortion		0.30%
<b>Physical Specifications</b>		
Dimensions (W x H x D)	435 x 95 x 285mm	435 x 110 x 290mm
Net weight	7.2kg	7.2kg
Shipping weight	8.73kg	8.73kg

COMPACT DISC RECORDER	C 660
<b>Audio</b>	
Play	
Signal/noise	105dB
Dynamic range	105dB
Total harmonic distortion	0.005%
Headphones	
Line output voltage	2V rms +/-2db
Digital coaxial output	0.5 Vpp/75 $\Omega$
<b>Recording</b>	
Frequency response (digital in)	2Hz - 20.05kHz
Signal/noise (Analogue)	91dB
Dynamic range	91dB
Total harmonic distortion	0.005%
Digital coaxial input (direct recording)	32kHz to 96kHz sampling rate
Digital optical input (direct recording)	32kHz to 96kHz sampling rate
Analogue input (level potentiometer)	330mV rms/50k $\Omega$ = 0dB
<b>General</b>	
Compatible with	CD, (Audio) CD-R, (Audio) CD-RW, MP-3
Recording speed (max)	x1 x2 x4
Power consumption	28W
<b>Physical Specifications</b>	
Dimensions (W x H x D)	435 x 95 x 300mm
Net weight	5.8kg
Shipping weight	7.0kg

\* 20 - 20kHz in tone defeat mode

† Minimum power per channel, 20Hz-20kHz, both channels driven, with no more than rated distortion

‡ Maximum continuous power per channel

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

HDCCD, High Definition Compatible Digital and the HDCCD symbol are registered trademarks of Pacific Microsonics, Inc.

MP-3 audio compression technology licensed by Fraunhofer IIS-A.

# specifications

CASSETTE DECKS	613	616
Speed accuracy	< 1%	< 1%
Wow and flutter	< 0.06% JIS wtd. RMS < 0.1% DIN wtd. peak	< 0.07% JIS wtd. RMS (both deck A & B)
Frequency response†	35Hz - 17kHz ± 3dB	30Hz - 16kHz ± 3dB
MPX filter response	Flat within 1dB to 15kHz	Flat within 1dB to 15kHz
Harmonic distortion	< 0.3% at -10dB	< 0.3% at -10dB
THD at 0dB*	< 1.0%	< 1.0%
THD at 0dB**	< 1.5%	< 1.5%
Signal/noise ratio†	58dB (Dolby off) 68dB (Dolby B) 78dB (Dolby C)	58dB (Dolby off) 68dB (Dolby B) 78dB (Dolby C)
	40dB at 1kHz	40dB at 1kHz
Channel separation	35dB broadband	35dB broadband
Erase	> 70dB at 1kHz	> 70dB at 1kHz
Input sensitivity	40mV	80mV
Input impedance	50kΩ	40kΩ
Maximum input level	25V	25V
Output level at 0dB	500mV	500mV
<b>Remote control</b>	No	No
<b>Physical Specifications</b>		
Dimensions	435 x 125 x 290mm	435 x 120 x 285mm
Net weight	5.0kg	5.8kg
Shipping weight	6.6kg	6.8kg

‡ Dolby NR off, Record/Playback

† Ref. 3% THD at 333Hz [biased tape] CCIR/ARM weighting

\* Normal tape

\*\* CrO2, Metal tape

STEREO AM/FM TUNER	C 420	C 440
<b>FM Tuner Section</b>		
Usable input sensitivity; FM mono	2.2μV, IHF	1.8μV
Usable input sensitivity; FM stereo	16μV, IHF	15μV
50dB Quieting sensitivity; FM mono	4μV	3.0μV
50dB Quieting sensitivity; FM stereo	28μV	20μV
Capture ratio (FM)	2.4dB	
Image rejection	>60dB	>90dB
Harmonic distortion; FM mono	0.2%	0.15%
Harmonic Distortion; FM stereo	0.3%	0.20%
Signal/noise; mono		74dB
Signal/noise; stereo		70dB
Channel separation at 1kHz	>45dB	45dB
Frequency response; ± 1.5 dB	15Hz-15kHz	20Hz-15kHz
<b>AM Tuner Section</b>		
Usable sensitivity	24dBμV	81dB(120V), 84dB(230V)
Selectivity	21dB	32dB
Image rejection	40dB	32dB
IF rejection	45dB	50dB
Signal/noise ratio	45dB	52dB
Harmonic distortion		0.30%
<b>Remote control</b>	No	No
<b>Physical Specifications</b>		
Dimensions (W x H x D)	435 x 70 x 285mm	435 x 80 x 290mm
Net weight	4kg	3.5kg
Shipping weight	4.5kg	4.5kg

STEREO PRE-AMPLIFIERS	PP-1	C 160
<b>Phono stage</b>		
Phono R + C; MM	47kΩ + 220pF	47kΩ + 470pF
Phono R + C; MC		100Ω + 1nF
Input sensitivity ref. 0.5V 1KHz; MM		2.1mV
Input sensitivity ref 200mV; MM	2.5mV	
Input sensitivity ref. 0.5V 1KHz; MC		115μV
Input overload 20Hz/1KHz/20KHz; MM	55/63/580mV	20mV/230mV/2V
Input overload 20Hz/1KHz/20KHz; MC		1.3mV/12mV/110mV
Signal/noise ratio (A-weighted + cartridge); MM	78dB	80dB ref. 5mV
Signal/noise ratio (Unweighted) MM	72dB	
Signal/noise ratio (A-weighted + cartridge); MC		81dB ref. 0.5mV
RIAA accuracy; MM (20Hz - 20KHz)	±0.5dB	± 0.4dB
RIAA accuracy; MC (50Hz - 20KHz)		± 0.4dB
<b>Line level inputs</b>		
Impedance (R+C)		500kΩ + 320pF
Sensitivity; ref. 0.5V		150mV
Maximum input signal		17V
Signal/noise A-weighted		>100dB ref. 0.5V
Frequency response (-3dB 3Hz - 70KHz)*		± 0.2dB
THD	0.04%	0.01%
<b>Line level outputs</b>		
Output impedance; Pre-amp		75 Ω
Tape		Source Z + 1kΩ
Phones		100 Ω
Maximum output level; Pre-amp		>15V
Tape		>15V
Phones		>10V into 600 Ω >190mV into 8 Ω
<b>Tone controls</b>		±5dB at 10KHz
Treble		±5dB at 50Hz
Bass		
<b>Remote control</b>	No	Yes
<b>Physical Specifications</b>		
Dimensions (W x H x D)	135 x 35 x 70mm	435 x 80 x 285mm
Net weight	0.45 kg	4.8 kg
Shipping weight	0.96 kg	6 kg

INTEGRATED AMPLIFIERS	C 300	C 320	C 350	C 370
<b>Pre-Amp Section</b>				
<b>Line level inputs</b>				
Input impedance (R+C)	210k $\Omega$ / 320pF	20k $\Omega$ / 500pF	50k $\Omega$ / 320pF	300k $\Omega$ / 320pF
Input sensitivity: rated power	200mV	165mV	325mV	290mV
Frequency response (-3dB 3Hz - 70kHz)*	$\pm$ 0.5dB	$\pm$ 0.3dB	+/-0.3dB	+/-0.2dB
<b>Line level outputs</b>				
Output impedance	220 $\Omega$	220 $\Omega$	100 $\Omega$	75 $\Omega$
Tape	Source Z + 2k $\Omega$	Source Z + 2k $\Omega$	Source Z + 1k $\Omega$	Source Z + 1k $\Omega$
Phones	220 $\Omega$	220 $\Omega$	220 $\Omega$	220 $\Omega$
Signal/noise ratio			>106dB	>100dB
<b>Tone controls</b>				
Treble	6dB at 10kHz	5dB at 10kHz		
Bass	5dB at 100Hz	7dB at 100Hz		
<b>Remote control</b>				
	Yes	Yes	Yes	Yes
<b>Power Amp Section</b>				
Continuous output power †	25W (14dBW)	40W (16dBW)	60W (17.8dBW)	120W (20.8dBW)
Rated distortion (THD 20Hz-20kHz)	0.03%	0.03%	0.03%	0.03%
Clipping power ‡	30W (14.8dBW)	55W (17.4dBW)	70W (18.5dBW)	140W
IHF dynamic headroom at 8 $\Omega$	+2.4dB	+3.5dB	3.5dB	3dB
IHF dynamic power at 8 $\Omega$	43W (16.3dBW)	90W (19.5dBW)	135W (21.3dBW)	210W (23.2dBW)
IHF dynamic power at 4 $\Omega$	65W (18.1dBW)	125W (21dBW)	190W (22.8dBW)	340W (25.3dBW)
IHF dynamic power at 2 $\Omega$	90W (19.55dBW)	160W (22 dBW)	240W (23.8dBW)	450W (26.5dBW)
Slew rate				
Damping factor (ref. 8 $\Omega$ , 50Hz)	>100	>60	>150	>150
Input impedance			20k $\Omega$ / 470pF	20k $\Omega$ / 300pF
Input sensitivity (for rated power into 8 $\Omega$ )			770mA	1.1V
Voltage gain			29dB	29dB
Frequency response: 20Hz-20kHz	$\pm$ 0.5dB		+/-0.3dB	+/-0.3dB
-3dB at:	10Hz/70kHz		3Hz/70kHz	3Hz/70kHz
Signal/noise ratio: ref 1W	100dB	90dB	>96dB	>100dB
Signal/noise ratio: ref rated power	114dB	104dB	>114dB	>120dB
<b>Bridged Mode</b>				
Continuous average power output into 8 $\Omega$ †				300W (24.8dBW)
IHF dynamic headroom at 8 $\Omega$				3dB
IHF dynamic power at 8 $\Omega$				600W (27dBW)
IHF dynamic power at 4 $\Omega$				800W (28.5dBW)
<b>Physical Specifications</b>				
Dimensions (W x H x D)	435 x 80 x 285mm	435 x 100 x 290mm	435 x 100 x 290mm	435 x 132 x 350mm
Net weight	5kg	6.5kg	7.01kg	12kg
Shipping weight	6.2kg	7.7kg	8.62kg	14.36kg

AMPLIFIERS	C 270	218THX
<b>Power Amp Section</b>		
Continuous output power †	120W (20.8dBW)	225W (23.5dBW)
Rated distortion (THD 20Hz-20kHz)	0.03%	0.03%
Clipping power ‡	140W (21.5dBW)	240W (23.8dBW)
IHF dynamic headroom at 8 $\Omega$	2.4dB	1 dB
IHF dynamic power at 8 $\Omega$	210W (23.2dBW)	280W (24.5 dBW)
IHF dynamic power at 4 $\Omega$	340W (25.3dBW)	470W (26.7dBW)
IHF dynamic power at 2 $\Omega$	450W (26.5dBW)	700W (28.4dBW)
Slew rate		>100V / $\mu$ .sec
Damping factor (ref. 8 $\Omega$ , 50Hz)	>150	>200
Input impedance	20k $\Omega$ / 300pF	47k $\Omega$ / 700pF
Input sensitivity (for rated power into 8 $\Omega$ )	1.1V	1.4V
Voltage gain	x 28.3 (29dB)	x 28.3 (29dB)
Frequency response: 20Hz-20kHz	+/-0.3dB	+ 0.3dB
-3dB at:	3Hz/70kHz	2.5Hz / 80kHz
Signal/noise ratio: ref 1W	>100dB	96dB
Signal/noise ratio: ref rated power	>120dB	120dB
<b>Bridged Mode</b>		
Continuous average power output into 8 $\Omega$ †	300W (24.8dBW)	780W (28.9dBW)
IHF dynamic headroom at 8 $\Omega$	2.2dB	1dB
IHF dynamic power at 8 $\Omega$	600W (27dBW)	940W (29.7dBW)
IHF dynamic power at 4 $\Omega$	800W (28.5dBW)	1.3kW (31.1dBW)
<b>Physical Specifications</b>		
Dimensions (W x H x D)	435 x 132 x 350mm	483 x 175 x 370mm
Net weight	11.2kg	23kg
Shipping weight	14.2kg	30kg

- \* 20 - 20kHz in tone defeat mode
- † Minimum power per channel, 20Hz-20kHz, both channels driven, with no more than rated distortion
- ‡ Maximum continuous power per channel

Specifications are measured in accordance with EIA Standard RS-490 (IHF A-202) for amplifiers.  
Amplifier measurements referenced to 8 $\Omega$  are taken with the Impedance Select set at 8 $\Omega$  (High).  
Measurements for 4 $\Omega$  and 2 $\Omega$  are taken with the Impedance Select set at 4 $\Omega$  (Normal).  
Dimensions are of unit's cabinets without attached feet; add up to 18mm for total height.  
Dimension depth excludes terminals, sockets, controls and buttons.

Dolby, Pro Logic, Dolby Digital, HX Pro and the Double 'D' symbol are trademarks of Dolby Laboratories Licensing Corporation.  
THX and THX Ultra are trademarks of Lucasfilms, Ltd.

