

C 352 Stereo Integrated Amplifier



- 2 x 80W Continuous Power into 4 / 8 ohms
- 115W, 185W, 240W IHF Dynamic Power into 8, 4 and 2 ohms, respectively
- PowerDrive™
- High Current Holmgren™ Toroidal Power Transformer
- 7 Line Inputs, including Two Tape In/Outputs
- All Discrete Circuitry
- Short signal path from input to output
- Bass and Treble Controls with Tone Defeat Switch
- Main-amp Input & 2 Pre-amp Outputs
- NAD Soft Clipping™
- IR Input/Output
- 12V Trigger Output
- Relay Input Switching
- IEC Detachable Power Cable
- Headphone socket
- NAD SR-5 Full System Remote Control

The C 352 is the latest in NAD's range of affordably priced, yet very high performance Integrated Amplifiers. Building on the strengths of our highly acclaimed C 350 (Winner of the 2002 Diapason d'Or), the C 352 boasts many upgrades and refinements. Immediately noticeable is the new cosmetic appearance and more robust all metal construction of the chassis, along with the improved remote control handset. Inside, we've upgraded the Pure Class A preamp and driver stage modules using the latest high performance semiconductors. The power supply has also received a complete upgrade, with the larger custom wound toroidal transformer and 105C smoothing capacitors contributing to a 25% increase in output power, to 80 watts continuous. An improved tone control circuit and revised PCB layout has reduced distortion and noise to unprecedented levels. Taken together, these improvements mark a sharp upturn in performance that simply must be heard, to be fully appreciated!

Features:

The C 352 is fully remote controlled and comes supplied with the all-new NAD SR-5 system remote control. The remote control features an ergonomic form, with large buttons that are differentiated by shape and position, to make operation intuitive and enjoyable. The SR 5 will also operate many other NAD products such as CD players, tuners, etc.

Flexibility is another NAD strong point. The C 352 has 7 line inputs (including 2 tape in/outputs with dubbing facility) and the pre-amplifier section can be separated from the power amplifier for easy upgrades or adding ancillary equipment. Thus, the C 352 can be expanded to meet future system needs. The C 352 sports 2 pre-amp outputs: Many systems benefit from the use of multiple power amplifiers for "Bi-Amping" (using separate power amplifiers to drive the bass and treble section of a loudspeaker). With the second Preout 2 facility an extra power amplifier, such as NAD's C 272, which has identical amplification factor (gain) as the C 352's power amp section - is easily connected.

This output can also be used to connect a powered subwoofer, an increasingly popular option. For remote on/off switching of ancillary components in a system, such as power amplifiers or active speakers, the C 352 is equipped with a 12V trigger system. When switching the amplifier on, the 12V trigger output is also activated which in turn can activate a 12V trigger input and switch on the remote devices. Besides the 12V trigger, the C 352 also has an AC switched outlet (North American version only) so you can easily switch your entire system on or off with the remote control or from the front panel.

It is fashionable to omit tone controls nowadays: However, provided that the tone controls are properly designed, they can be really useful tools in making improvements to the overall sound. The C 352 tone controls only work at the frequency extremes leaving the critical mid-band essentially unaltered. The tone control circuits can be completely bypassed by using the tone defeat switch. The C 352 also incorporates NAD's acclaimed switchable "Soft

Clipping" circuit, which significantly reduces the risk of damage to loudspeakers due to prolonged high power operation.

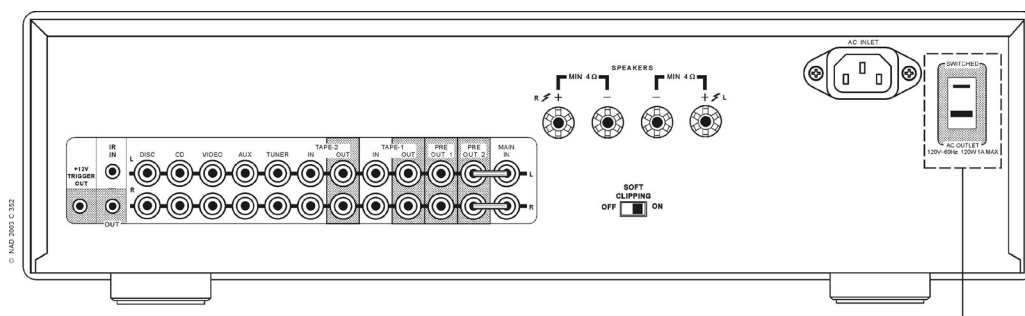
Design: PowerDrive

The C 352 also benefits from NAD's proprietary PowerDrive circuit topology, now well established and used throughout the NAD product range notably, in the highly reviewed models such as the C 320BEE and C 370. The PowerDrive topology allows the C 352 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 C 352's overall musical satisfaction, well-rounded performance, and stellar value for money.



Pre-Amp Section

Line level inputs

Input impedance (R+C)	50kΩ / 320pF
Input sensitivity, rated power	330mV
Frequency response (-3dB - 70kHz)*	+/-0.3dB

Line level outputs

Output impedance	100Ω
Tape	Source Z + 1kΩ
Phones	220Ω

Remote Control

SR-5

Power Amp Section

Continuous output power into 4/8Ω †	2 x 80W (19.03dBW)
Rated Distortion (THD 20Hz - 20kHz)	0.03%
Clipping power ‡	85W (19.05dBW)
IHF dynamic headroom at 8Ω	+1.5dB
IHF dynamic power at 8Ω	115W (20.61dBW)
IHF dynamic power at 4Ω	185W (22.67dBW)
IHF dynamic power at 2Ω	240W (23.80dBW)

Damping factor (ref. 8Ω, 50Hz)

>150

Input impedance

20kΩ/ 470pF

Input Sensitivity (for rated power into 8Ω)

770mV

Voltage gain

29dB

Frequency response; 20Hz-20kHz

+/-0.3dB

-3dB at:

-3dB

Signal/noise ratio; ref 1W

>100dB

Signal/noise ratio; ref rated power

>120dB

Physical Specifications

Dimensions (W x H x D)

17 1/8 x 3 15/16 x 11 7/16"
(435 x 100 x 290mm)

Net Weight

15.45 lbs (7.01kg)

Shipping Weight

19.0 lbs (8.62kg)



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