



# C 338 Hybrid Digital Integrated Amplifier



## NAD's New Classic Amplifiers. *Intelligent. Powerful. Efficient.*

### Introducing the NAD C 338.

#### Expansive Power with Unprecedented Flexibility.

The C 338 ties together all the critical elements of a top performing music system; music sources past and present, while providing a deep reservoir of power that allows your speakers to reveal every nuance of musical detail. This advanced amplifier includes many cutting-edge technological breakthroughs developed by NAD over decades of creating affordable ultra-high performance audio components.

#### Getting the Basics Right

It is surprising how many seemingly advanced products in the market today often miss many of the most basic requirements for satisfying performance. Low noise circuits, precise volume control action, accurate channel balance, proper input and output impedance characteristics, high overload margins and stability with difficult speaker loads. NAD starts by getting these things precisely right and advances from there. We include an MM Phono stage with precisely accurate RIAA equalization, high overload margins, extremely low noise, and an innovative circuit to suppress infrasonic noise that is present on all LPs – all without affecting bass response. Our line inputs can accommodate all kinds of analogue source components by offering ideal input impedance characteristics with linear ultra-low-noise buffer amplifiers to prevent any sonic degradation caused by inappropriate loading of the source device. We include a separate headphone amplifier with low output impedance and very high output voltage capability – enough to drive even high impedance studio monitor headphones. Low impedance line outputs that can connect to subwoofers extend the versatility of this well thought out amplifier. These are all details you can hear.

#### FEATURES & DETAILS

- 50W x 2 Continuous Power into 8 or 4 Ohms
- Wi-Fi enabled with network streaming of music services, internet radio, and UPnP
- Bluetooth® ADP4
- MM Phono input
- TV audio input
- SPDIF coax and optical inputs
- Subwoofer out
- Headphone amplifier
- Bass EQ
- IR Remote
- Mobile Control App for smartphone and tablet



## Connected and Smart

You can connect instantly to the C 338 with Bluetooth® allowing you to stream music wirelessly from any Bluetooth-enabled device. There is also a control app that allows your smartphone or tablet to control all functions of your NAD.

The C 338 includes Wi-Fi and Network Streaming. It also provides access to internet radio stations and can serve as an UPnP Client for network streaming from a local NAS library.

## Sophisticated Power

NAD has moved away from the old-fashioned and power-hungry linear power supplies and Class AB output stages that waste nearly half of the energy consumed producing heat rather than sound. Instead, we have developed even better performing circuits based on switch mode power supplies and Class D output stages. Once thought to be inferior to traditional topologies, NAD's advanced work in this area has created some of the best performing amplifiers regardless of basic

design principle. These new designs are very linear over a wide bandwidth and provide consistent performance into all speaker loads, providing a dramatic advance over previous models.

The power supply is capable of 160 watts continuously and over 300 watts instantaneously to allow for short-term musical transients. It can operate with any AC mains voltage from 100 to 240 volts and provides pure DC power to all the various stages of the C 338. This highly efficient supply also provides near perfect regulation of voltage across a wide range of conditions and provides a solid noise-free foundation for the amplifying stages.

The C 338 uses a customized version of the proven Hypex UcD output stage. This allows for massive power with nearly unmeasurable distortion and noise in the audible range. Every detail of this amplifier has been carefully designed and perfectly executed to wring out every last drop of performance.

## Specifications C 338

Continuous Output Power into 4 $\Omega$ and 8 $\Omega$ (Stereo)	>50W (at rated THD, 20-20kHz, both channels driven)	
IHF Dynamic Power	2 $\Omega$	200W
	4 $\Omega$	150W
	8 $\Omega$	90W
THD	0.003%	
IMD	0.003%	
Signal/Noise Ratio	<-92dB (IHF; A-weighted, 500mV input ref. 1W out in 8 $\Omega$ )	
	<-104dB (IHF; A-weighted, ref. 50W in 8 $\Omega$ , max volume)	
Damping Factor	>200 (ref. 8 $\Omega$ , 50Hz and 1kHz)	
Frequency Response	20Hz-65kHz	
Channel Separation	1kHz	85dB
	10kHz	70dB
Sample Rate	192kHz/24bit	
Standby Power	0.5W	
Inputs	Digital: Coax x2, Optical x2	
	Analogue: Line In, Moving Magnet Phono Preamp (0.3mV input sensitivity ref. 200mV preout)	
Dimensions (W x H x D)	435 x 70 x 285mm (17 1/8 x 2 13/16 x 11 1/4)"	
Net Weight	4.85kg (10.7lb)	
Shipping Weight	5.85kg (12.9lb)	

\* Gross dimensions include feet, extended buttons and rear panel terminals. \*\* Non-metric measurements are approximate. NAD Electronics will not assume any liability for errors being made by retailers, custom installers, cabinet makers, or other end users based on information contained in this document. Note: Installers should allow a minimum clearance of 55mm for wire/cable management.

