



# C 3050 LE STEREOPHONIC AMPLIFIER



## NAD C 3050 LE STEREOPHONIC AMPLIFIER

Created to celebrate the 50th anniversary of NAD's founding in 1972, the C 3050 LE Stereophonic Amplifier pays homage to the NAD 3030, a 1970s classic. Retro design elements include a satin walnut case, dual VU meters, push-button controls, and NAD's original cursive-style branding. Behind its vintage exterior is a 21st-century powerhouse featuring a HybridDigital UcD amplifier rated at 100 watts per channel, a high-performance Texas Instruments PCM5242 differential DAC, abundant connectivity options, and advanced capabilities such as BluOS high-res multi-room music streaming and Dirac Live room correction.

The C 3050 LE is a limited-edition release. To commemorate NAD's founding year, production is limited to 1,972 units, each of them individually numbered on the back panel.

## ICONIC SOUND

For half a century, the NAD brand has been synonymous with exceptional performance, leading-edge innovation, outstanding value, and simplicity of operation. The C 3050 LE is true to that tradition. Employing NAD's proven HybridDigital UcD amplifier technology, the C 3050 LE can deliver 100W per channel of continuous power and 135W per channel of instantaneous power, for effortless reproduction of musical transients. Noise and distortion are virtually unmeasurable through the entire audioband. The result is neutral, distortion-free sound, even at high listening levels, with exquisite detail, superb portrayal of space, and thrilling dynamics.

The digital section is built around Texas Instruments' PCM5242 high-resolution differential DAC, a design noted for its excellent dynamic performance and very high tolerance to clock jitter. This premium DAC enables the C 3050 LE to reproduce all your digital sources with amazing musicality, stunning clarity, and holographic imaging.

## RETRO INSPIRED

The C 3050 LE takes its design cues from NAD's classic 3030 stereophonic amplifier. Clad in an open-grained walnut sleeve, the C 3050 LE integrated amplifier has a dark grey front panel with the original New Acoustic Dimension logo in its 1970s cursive typeface, dual VU meters, and push-button controls for source selection. On the back of each unit is an individually numbered plaque bearing the amplifier's production number.

## FEATURES & DETAILS

- Retro design elements include satin walnut case, front-panel VU meters, push-button input controls, 1970s cursive branding, and dark grey finish
- Limited-edition release: only 1,972 units will be produced, each of them individually numbered
- HybridDigital UcD Amplifier
- Continuous Power: 100 Watts per channel into 8/4 ohms
- Instantaneous Power: 135 Watts per channel
- Vanishingly low harmonic and intermodulation distortion
- MDC2 port for expanded functionality
- Pre-installed MDC2 BluOS-D module adds BluOS Hi-Res multi-room music streaming and Dirac Live room correction
- MDC2 BluOS-D module provides access to more than 20 streaming services, including several that offer lossless and high-resolution audio
- Support for Apple AirPlay 2, Spotify Connect, and Tidal Connect
- Voice control via Amazon Alexa, Google Assistant, or Apple Siri
- High-performance 32-bit/384kHz TI PCM5242 differential DAC
- Ultra-low-noise MM phono stage infrasonic filter
- One optical, one coaxial digital input
- HDMI eARC input
- One set of line-level analogue inputs with low-noise buffer stages
- Speaker A / Speaker B outputs
- Two-way Qualcomm aptX HD Bluetooth
- Subwoofer output
- Dedicated headphone amplifier
- Supplied accessories include an IR remote control and a calibrated microphone for Dirac Live setup
- CI-Friendly - IR remote, 12V Trigger out, IR in
- Seamless integrations with smarthome control systems such as Control4, Crestron, RTI, URC, Lutron, and Elan



## FUTURE FRIENDLY

The C 3050 LE incorporates the latest generation of NAD's Modular Design Construction future-proofing technology. With MDC2, owners can add new features and functions by inserting an MDC2 module into a slot at the back of the component. MDC2 is an all-new design that allows two-way communications between the expansion module and host component. The C 3050 LE comes with NAD's MDC2 BluOS-D module pre-installed. The MDC2 BluOS-D adds two leading-edge capabilities to the C 3050 LE: Dirac Live room correction and BluOS high-resolution multi-room music streaming.

## WORKING THE ROOM

The weakest link in most sound systems is the listening environment. Using a calibrated microphone and an app running on a mobile device or personal computer a calibrated microphone, Dirac Live plays test tones through your loudspeakers, analyzes room acoustics, then generates correction filters to compensate for problems like standing waves and unwanted reflections. The results are transformational. With Dirac Live enabled, you'll enjoy tighter bass, vastly improved clarity and tonal accuracy, and more precise imaging. Thanks to MDC2's two-way communications, Dirac Live works on all sources connected to the C 3050 LE.

## A WORLD OF MUSIC

The MDC2 BluOS-D module inside the C 3050 LE integrated amplifier gives you access nearly all the music ever recorded through BluOS, the world's most advanced multi-room music management system. The MDC2 BluOS-D connects to your home Wi-Fi or wired Ethernet network. Using the intuitive BluOS app, you can cue up music from more than 20 popular streaming services, including several that offer lossless and high-resolution audio, including Amazon Music Ultra HD, Deezer, Qobuz, and Tidal. You can access thousands of internet radio stations through BluOS or play music from your own digital music library. Like all BluOS-enabled products, the C 3050 LE supports high-res audio to 24-bit/192kHz. And it has MQA decoding with rendering capability, for studio-quality playback from Tidal.

The MDC2 BluOS-D supports Apple AirPlay 2, so you can stream audio to the C 3050 LE from an iPhone, iPad, or Mac. Also supported are Spotify Connect and Tidal Connect. You can select music in the apps for those services, then easily

transfer playback to the C 3050 LE. You can even control playback by voice using Amazon Alexa, Google Assistant, or Apple Siri. An IR remote control is also included.

## ALL THROUGH THE HOUSE

With the MDC2 BluOS-D installed, the C 3050 LE can be part of a whole-home music system with as many as 64 zones, all with independent source and volume control. You can have different music playing in different zones, or group zones together to play the same music simultaneously. The two-way architecture of the MDC2 BluOS-D lets you stream music from any source connected to the C 3050 LE to BluOS-enabled components in other rooms.

## WELL CONNECTED

With its full suite of analogue and digital inputs, the C 3050 integrated amplifier can accommodate all your source components. The C 3050 LE has an ultra-low-noise phono stage for connecting a turntable, as well as line-level analogue, coaxial digital, and optical digital inputs. There's also an HDMI eARC port for connecting an HDTV; this enables the C 3050 LE to function as the hub of a two-channel or 2.1-channel home-theatre setup.

In addition to two sets of speaker terminals, the C 3050 LE has a subwoofer output and a dedicated headphone amplifier. The C 3050 LE also features two-way Bluetooth aptX HD, so you can stream music to the amplifier from a mobile device or stream music from the amplifier to a set of wireless headphones. The pre-out/main-in connections let you use the C 3050 LE as a preamp only and add a separate power amplifier. For custom integrators, there's a 12V trigger and IR input.

## HERITAGE PIECE

NAD's C 3050 LE Stereophonic Amplifier celebrates the past while embracing the future. Its 1970s design recalls the components that helped a generation of music-lovers discover the joys of great audio. Its advanced engineering provides capabilities that no audiophile could have dreamt of a half-century ago.

# Specifications C 3050 LE

All specs are measured according to IHF 202 CEA 490-AR-2008 standard. THD is measured using AP AUX 0025 passive filter and AES 17 active filter.

## PREAMPLIFIER SECTION

### LINE INPUT, PRE-OUT (Analog bypass on)

THD+N (20 Hz – 20 kHz)	<0.005 % at 2V out
Signal-to-Noise Ratio	>95 dB (IHF; A-weighted, ref. 500 mV out, unity gain)
Channel separation	>86W(at 1kHz 0.1% THD 8Rx2CH) >102W(at 1kHz 0.1% THD)
IHF dynamic power	>100 dB (1 kHz), >90 dB (10 kHz)
Input impedance (R and C)	28 kohms + 360 pF
Maximum input signal	>4.5 Vrms (ref. 0.1 % THD)
Output impedance	440 ohms
Input sensitivity	270 mV (ref. 500 mV out, Volume maximum)
Frequency response	±0.3 dB (20 Hz - 20 kHz)
Maximum voltage output -IHF load	>2 V (ref. 0.1 % THD)

### PHONO INPUT, PRE-OUT (ANALOG BYPASS ON)

THD (20 Hz – 20 kHz)	<0.03% at 2 V out
Signal-to-Noise ratio	>79 dB (200 ohms source; A-weighted, ref. 500 mV out)
Input Impedance (R and C)	46 kohms/100 pF
Input sensitivity	5.5 mV (ref. 500 mV out, Volume maximum)
Frequency response	±0.3 dB (20 Hz - 20 kHz)
Maximum input signal at 1kHz	>80 mVrms (ref. 0.1 % THD)

### LINE INPUT, HEADPHONE OUT (ANALOG BYPASS ON)

THD (20 Hz – 20 kHz)	<0.005% at 1V out
Signal-to-Noise Ratio	>96 dB (32 ohms loads; A-WTD, ref. 2 V out, unity gain)
Frequency response	±0.3 dB (20 Hz - 20 kHz)
Channel separation	>60 dB at 1kHz
Output impedance	2.2 ohms

## BLUOS SECTION

### AUDIO

Supported audio file format	MP3, AAC, WMA, OGG, WMA-L, ALAC, OPUS
Supported high-resolution audio file format	FLAC, MQA, WAV, AIFF
Sampling rate	up to 192 kHz
Bit depths	16-24

### SUPPORTED SERVICES\*\*\*

Streaming cloud services nugs.net, Qobuz, Qsic, Spotify, SOUNDMACHINE, TIDAL, Tunify	Amazon Music, Bugs, CustomChannels, Deezer, IDAGIO, KKBOX, Napster, Neil Young Archives,
Internet radio	CALM Radio, iHeartRadio, LiveXLive, RADIO.COM, Radio Paradise, SiriusXM, TuneIn
Integration partners	Control4, Crestron, ELAN, Lutron, Push, Roon, RTI, URC
Voice Control Integration	Skills and support for Amazon Alexa, Google Assistant and Apple's Siri with corresponding enabled devices and App

### CONNECTIVITY

Network connectivity	Gigabit Ethernet RJ45 Wi-Fi 5
Supported network file share protocol	Server Message Block (SMB)
USB peripherals	1 x Type-A port for connection to USB memory stick (FAT32 or NTFS formatted) and supported
Bluetooth quality	aptX HD 5.0
Bluetooth connectivity	Two-Way (Receive and Headphone modes)

### USER INTERFACE

Supported operating system	Music playback from network shares on the following desktop operating systems: Microsoft Windows XP, 2000, Vista, 7, 8 to current Windows Operating Systems and macOS versions
Mobile Application	Free BluOS Controller App available for download from the respective App stores of Apple iOS devices (iPad, iPhone and iPod), Android devices, Kindle Fire and Windows or macOS desktops

## GENERAL SPECIFICATIONS

### MAIN IN, SPEAKER OUT

Continuous output power into 8 ohms and 4 ohms	100W (ref. 20 Hz-20 kHz at rated THD, both channels driven)
THD (20 Hz – 20 kHz)	<0.03% (250 mW to 100 W, 8 ohms and 4 ohms)
Signal-to-Noise Ratio	>95dB (A-weighted, 500 mV input, ref. 1 W out in 8 ohms)
Clipping power	>115 W (at 1 kHz 0.1 % THD)
IHF dynamic power	8 ohms: 180 W, 4 ohms: 250 W, 2 ohms: 300 W
Peak output current	>20A (in 1 ohm, 1 ms)
Frequency response	±0.3 dB (20 Hz - 20 kHz)
Channel separation	>75dB (1 kHz) >70dB (10 kHz)
Input sensitivity (for 100 W in 8 ohms)	540 mV Digital: -6dBFS
Power consumption	
at Auto Standby ON and Network Standby OFF	0.5 W*
at Auto Standby ON and Network Standby ON	2.0 W**
OFF mode (Power switched OFF)	0.1 W

### DIMENSIONS AND WEIGHT

Gross dimensions (W x H x D)****	435 x 110 x 355mm (17 1/4 x 4 3/8 x 14 inches)
Net weight	10 kg (22 lbs)
Shipping weight	12.6 kg (27.8 lbs)

\* - After 20 minutes of no user interface interaction and no active source input

\*\* - With established wired or wireless network connection, wireless Bluetooth connectivity and no user interface interaction and no active source input for 20 minutes

\*\*\* - Supported services may vary over time. Inquire via support.bluos.net for updated list.

\*\*\*\* - Gross dimension includes feet, volume knob and extended front and rear panel terminals.

Specifications are subject to change without notice. For updated documentation and features, please check out [www.NADelectronics.com](http://www.NADelectronics.com) for the latest information about C 3050 LE.



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