



MASTERS

# NAD M33 V2 BLUOS STREAMING DAC AMPLIFIER



## THE BEST HAS ONLY GOTTEN BETTER

Benefiting from half a decade of technological innovation since the release of its acclaimed predecessor, the NAD M33 V2 Streaming DAC Amplifier delivers cutting-edge improvements at every level, including improved digital-to-analogue and analogue-to-digital conversion, more advanced signal processing, better bass management and room correction, and even more advanced amplification. The result is a new state-of-the-art system that delivers even more lifelike performance, with substantial improvements to signal-to-noise, lower noise, better imaging, and improved timing, thanks in part to new ESS DAC and ADC technologies, added Dirac Live Bass Control capabilities, and an upgrade to the newest second-generation Purifi Eigentakt™ amplification circuitry.

The M33 V2 remains the ultimate audiophile amplifier for the modern world, with a wealth of legacy connectivity for all of your traditional music sources, along with intuitive integration of the most advanced wireless multi-room music streaming ecosystem in the world, putting a nearly endless catalogue of recorded music at your fingertips and delivering it all with truly unimpeachable fidelity and musicality.

## FEATURES & DETAILS

- BluOS™ Streaming Amplifier
- Second-Generation HybridDigital Purifi Eigentakt™ amplification
- Continuous Power: 200W into 8 Ohms
- Dynamic Power: 280W into 8 Ohms, 560W into 4 Ohms
- ESS Sabre ES 9039PRO DAC
- Dirac Live LE Room Correction
- Optional Dirac Live Full Bandwidth and Bass Control (licenses sold separately)
- Color LCD touch display
- Supports Amazon Alexa
- AirPlay 2 Integration
- Supports Siri voice assistant via AirPlay 2
- Two-way Qualcomm aptX® HD Bluetooth
- Gigabit Ethernet
- Dual Band Wi-Fi 5 a/c/n
- HDMI eARC, USB Type A input
- MM/MC phono stage with infrasonic filter
- Line-level RCA inputs
- AES/EBU XLR input
- XLR balanced line input
- 2 x optical inputs
- 2 x coax inputs
- XLR balanced preamp output
- Stereo RCA preamp output
- Subwoofer outputs, with selectable crossover frequency
- High-current headphone amplifier
- 2 x MDC Slots for future expansion
- IR input
- 12V trigger in, 2x 12V trigger out
- Apps for iOS, Android, macOS, Windows
- Works with leading smart home systems, including Control4, Crestron, iPort, Josh.ai, KNX, Lutron, Nice, RTI, and URC. Wide variety of premium music services supported in app, including Amazon Music HD, Spotify, Tidal, Qobuz, TuneIn, Napster, Deezer, and many others



## BLUOS™ HIGH-RES MUSIC STREAMING. EVERYWHERE

This class of product is often associated with daunting complexity, but one of the M33 V2's most compelling features is its utterly intuitive operation, courtesy of its seven-inch touchscreen colour display, combined with the power of the BluOS network streaming and multi-room operating system.

Besides multi-room streaming and interoperability with an ever-growing list of compatible products, another compelling feature of BluOS is its support for Master Quality Authenticated (MQA) audio. BluOS also supports upwards of 25 free and paid subscription music services, including Tidal, Deezer, Qobuz, Amazon Music HD Ultra, Spotify, Slacker, TuneIn, nugs.net, and many others. Combine that with support for locally stored digital music libraries, along with Apple Airplay 2 and Qualcomm aptX HD Bluetooth for local wireless streaming from a phone or tablet or streaming to Bluetooth headphones, and your access to the music you want to listen to is nearly limitless.

## BETTER SOUND THROUGH NEUROSCIENCE

One of the most surprising discoveries in modern neuroscience is our ability to discriminate sounds with much finer time detail than previously thought possible. While we traditionally discuss the time domain in milliseconds, new research reveals that we

can distinguish between sounds separated by a mere seven microseconds. This discovery guides the development of a new generation of components that sound more natural, immersive, and less fatiguing than ever thought possible.

The NAD Masters M33 V2 leads its class with a psychoacoustically tuned signal path that corrects timing errors from source to output, for analogue and digital sources alike. Two new technologies from MQA Labs work in concert with the ADC and DAC circuits to make this possible. The conversion of incoming analogue signals into the digital domain involves a new technology known as FOQUS by MQA Labs®, which works to reduce time smear.

Both the ADC and DAC chips have been upgraded to the latest, highest tier offerings from ESS, with the DAC specifically providing nearly immeasurable improvements to dynamic range, distortion, and noise. Those improvements, combined with the ultra-low distortion and exceptional linearity of the V2's new second-generation Purifi Eigentakt™ amplifier modules, will bring you closer to sonic perfection than ever before.

## DIRAC ROOM CORRECTION INTEGRATED AND UPDATED

Even the world's best audio components can struggle to reach their full potential in most homes, as the shape and furnishings of the room itself can result in muddy and uneven bass performance, and sonic reflections from walls and décor can



deteriorate tonal balance and intelligibility. Dirac Live, one of the most highly regarded room correction systems available, not only adjusts for frequency response, but unlike many other room correction systems, it also optimises the impulse response.

One key upgrade in the M33 V2 is support for Dirac Live Bass Control™, an optional license that increases the power of Dirac Live substantially by co-optimising the in-band phase response of your main speakers and subwoofers individually, performing advanced bass management with custom crossovers, and optionally using advanced digital signal processing to further improve the distribution of bass around the room, reducing unevenness from seat to seat.

Supplied with the M33 V2 is a precision microphone used to take measurements of your room near and around your main listening position, so your system can be precisely calibrated for optimum performance. Each of the five Dirac memory profiles onboard the M33 V2 can store unique filters to accommodate different listening positions, different acoustical considerations such as draperies that can be open or closed, different crossover settings, setups with and without subwoofers, and even different frequency target curves to suit a particular listener's taste or favorite genres.

## MODULAR DESIGN OFFERS MAXIMUM FLEXIBILITY

In its standard configuration, the M33 V2 is a complete sound system that needs only the addition of speakers. It features a wide range of inputs and outputs—including HDMI, digital and analogue audio inputs,

an advanced phono stage, and, new for V2, balanced XLR preamp outputs joining the XLR inputs. The rear panel also features two independent subwoofer outputs with higher output than the original M33, to support a wider range of available subwoofers.

To provide an extra level of future-proofing, the M33 V2 also comes with two MDC (Modular Design Construction) slots that facilitate the addition of the MDC USB DSD Module which adds DSD compatibility and USB playback, for example.

## WORLD-CLASS PHONO AND HEADPHONE CONNECTIVITY

The M33 V2 benefits from a high-quality selectable MM/MC phono stage that rivals specialized outboard units. Accurate RIAA equalization, a clever infrasonic filter, and a huge overload margin combine to bring out the best in LPs.

Furthermore, if you're a headphone enthusiast, you'll delight at the sound of the discrete headphone amplifier, which is able to drive even planar and low-impedance studio headphones. With high voltage and low output impedance, your headphones will perform at their absolute best. What's more, if your preferred headphones are wireless, the M33 V2 features integrated Qualcomm aptX HD Bluetooth transmission capabilities, as well.

## A DESIGN AS ELEGANT AS IT IS ERGONOMIC

The all-aluminium casework of the M33 V2 carries over from its beloved forebear.

Rigid panels with magnetic iso-point feet provide a solid foundation for the system's multi-layer circuit boards and intricate internal construction. The M33 V2 employs a completely modern and fresh take on the traditional stereo amplifier, with forward-thinking features and intuitive operation that are reflected in the elegant simplicity of the chassis' design.

## EASY SMART HOME INTEGRATION

BluOS provides hands-free control with full integration of Amazon Alexa and Google

Assistant device. Through Apple AirPlay 2, voice control is also possible with Siri. Considerable effort has been spent to make the M33 V2 fully compatible with all the leading smart home systems from companies such as Apple, Crestron, Control4, Lutron, KNX and many others. This means that users and custom installers can seamlessly integrate BluOS multiroom music with the home's lighting, shades, HVAC, and security. All integrations are certified for reliable operation. BluOS apps for iOS and Android tablets and phones, as well as desktop control from Windows and macOS, are also available free-of-charge and are updated regularly.

# SPECIFICATIONS M33 V2

## AMPLIFIER SPECIFICATIONS

### LINE IN, SPEAKER OUT

|                                                                         |                                                                                               |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Rated output power<br>(20 Hz-20 kHz at rated THD, both channels driven) | >380 W into 4 ohms,<br>>200 W into 8 ohms                                                     |
| Rated output power, Bridge mode (ref. 20 Hz – 20 kHz at rated THD)      | >700 W into 8 ohms                                                                            |
| Input sensitivity                                                       | 1.5 V (200W 8 ohms, Volume maximum)                                                           |
| THD+N (20 Hz – 20 kHz)                                                  | <0.003 % (1W to 200 W, 8 ohms and 4 ohms)                                                     |
| Signal-to-Noise ratio                                                   | >98 dB (A-weighted, ref. 1 W out in 8 ohms)<br>>120 dB (A-weighted, ref. 200 W out in 8 ohms) |
| Clipping Power                                                          | >210 W (0.1 % THD 1 kHz 8 ohms)                                                               |
| IHF dynamic power                                                       | 4 ohms: 560 W,<br>8 ohms: 280 W                                                               |
| Peak output current                                                     | >25 A (in 1 ohm, 1 ms)                                                                        |
| Damping factor                                                          | >800 (ref. 8 ohms, 20 Hz to 6.5 kHz)                                                          |
| Frequency response                                                      | (20 Hz -20 kHz) $\pm 0.2$ dB                                                                  |

## PREAMPLIFIER SPECIFICATIONS

### LINE IN/BALANCED IN

|                                |                                                                                                  |
|--------------------------------|--------------------------------------------------------------------------------------------------|
| Input impedance (R and C)      | 53 kohms/280 pF                                                                                  |
| Input sensitivity              | Line IN: 460 mV (500 mV out, Volume maximum)<br>Balanced IN: 250 mV (500 mV out, Volume maximum) |
| Maximum input level 20Hz-20Khz | 3.5 Vrms                                                                                         |
| Tone controls                  | Treble: $\pm 6$ dB at 15 kHz<br>Bass: $\pm 6$ dB at 40 Hz                                        |

### PREOUT

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Maximum output level  | SE OUT: 3.6 Vrms (0.1% THD)<br>Balanced OUT: 7.6 Vrms (0.1% THD) |
| Signal-to-Noise ratio | >120 dB (A-weighted, 2 V out)                                    |
| Output impedance      | Source Z + 49.9 ohms                                             |

### SUBOUT

|                       |                              |
|-----------------------|------------------------------|
| Maximum output level  | 3 Vrms (0.1 % THD 100Hz)     |
| Signal-to-Noise ratio | >88 dB (20 Hz-20 kHz 1V out) |
| THD+N                 | <0.005 % (20 Hz-200 Hz 3V)   |
| Output impedance      | Source Z + 220 ohms          |

## PHONO

|                                                             |                                              |
|-------------------------------------------------------------|----------------------------------------------|
| Input sensitivity                                           | MM: 5 mV<br>MC: 370 $\mu$ V                  |
| Input impedance (R and C)                                   | MM: 25.6 kohms/180 pF<br>MC: 100 ohms/280 pF |
| Signal-to-noise ratio<br>(A-weighted, 500 mV PRE OUT 1 kHz) | MM: >93 dB<br>MC: >73 dB                     |
| THD+N (500 mV PRE OUT 1kHz)                                 | MM: <0.003 %<br>MC: <0.03 %                  |
| RIAA response accuracy MM/MC                                | (20 Hz -20 kHz) $\pm$ 0.2 dB                 |

## HEADPHONE

|                  |                     |
|------------------|---------------------|
| Output impedance | Source Z + 3.3 ohms |
| Output power     | >300 mW/32 ohms     |

## BluOS SPECIFICATIONS

### 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                               |

### CONNECTIVITY

|                        |                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------|
| Network connectivity   | Gigabit Ethernet RJ45, Wi-Fi 5                                                                         |
| USB                    | 1 x Type-A port for connection to USB memory stick (FAT32 or NTFS formatted) and supported peripherals |
| 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 |
| Front panel                 | 7-inch full colour touch screen                                                                                                                                                          |
| Remote control              | SRM 1 remote control                                                                                                                                                                     |

### SUPPORTED SERVICES

|                           |                                                                                                                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Streaming cloud services* | Amazon Music, Bugs, Custom Channels, Deezer, IDAGIO, KKBOX, Napster, Neil Young Archives, nugs.net, Pandora, Presto Music, Qobuz, QPlay, Qsic, SOUNDMACHINE, Spotify, TIDAL, Tunify |
| Free internet radio*      | Audacy, Calm Radio, iHeartRadio, LiveOne, 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                                                                   |

### POWER CONSUMPTION

|               |                                                                       |
|---------------|-----------------------------------------------------------------------|
| Standby power | <0.5W (Auto standby ON)<br><7W (Network standby)<br><40W (idle power) |
|---------------|-----------------------------------------------------------------------|

### DIMENSIONS AND WEIGHT

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| Dimensions WxHxD ** | 435 x 133 x 396 mm (17 1/8 x 5 1/4 x 15 5/8 inches) |
| Shipping Weight     | 18.4kg (40.6 lb)                                    |

\* - Supported audio file format, cloud services and free internet radio are subject to change without notice.

\*\* - Gross dimension includes feet and extended rear panel terminals

Specifications are subject to change without notice. Check out [www.NADelectronics.com](http://www.NADelectronics.com) for updated documentation or latest information about M33 V2.



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