

## Daniel Hertz M9 Amplifier

Congratulations on your purchase of the Daniel Hertz M9 Integrated Amplifier and welcome to the world of Daniel Hertz SA.

The M9 is a minimalist integrated amplifier design dedicated to reproducing music with the utmost accuracy and clarity. With the M9, audio legend Mark Levinson, founder of Daniel Hertz, has again redefined excellence in audio amplification by utilizing new technology to provide the most advanced performance and features – this time, at a price point that puts the best within reach of more people.

### 21st Century Technology

Under the guidance of Mark Levinson, Class D audio amplification has matured and become the successor to previous “state of the art” audio amplifier technology hailing from the 1960’s. New Daniel Hertz technology, previously unseen in the world of audio, delivers astonishing performance and sonic quality with a high level of integration – allowing the affordable, lightweight, and compact M9 to outperform many large, heavy, and expensive “high end” power amplifiers. While weighing only 5kg (10.8 lb), the M9 delivers 200 Watts Per Channel (WPC) into 8 Ohms, and 400 WPC into 4 Ohms. With serious power, low output impedance, high output current, and pure natural sound, the M9 is an ideal amplifier for virtually all quality music speakers, including large power hungry models. Also noted, the M9 is a highly efficient design, utilizing most of the AC power it consumes to create sonic output, instead of useless and annoying heat.

### M9 Overview

The M9 is a complete audio amplifier solution with zero tolerance for sacrifice to performance and built to last a lifetime. Features include: superb high resolution PWM digital to analog conversion (DAC), six audio inputs, stereo power output, a headphone jack, and 24-bit Bluetooth connectivity input in a single, compact, and lightweight enclosure.

The heart of the M9 is a new type of integrated circuit (IC) based on a high performance silicon platform and embedded audio software suite, personally designed by Mark Levinson, that allows digital media to sing like analog.

The M9 has three analog and three digital inputs, including: digital coaxial, USB, and Bluetooth wireless. Now, music played from a smartphone or tablet sounds virtually identical to the studio recorder used to make the recording.

Each of the three RCA analog inputs features a 1 megOhms input impedance, providing essentially unloaded operation for the selected source device. To eliminate analog input switching, sonic degradation, crosstalk, and reliability issues, analog input is converted to digital signal by way of dedicated (per input) high performance analog to digital converters (ADC).

The stereo analog line-level record output can be connected to auxiliary audio systems and recording interfaces.

The Input source Status LED displays different colors to assist the user with understanding which audio source is engaged while the M9 is in operating mode.

Likewise, the Power Status LED indicator provides mode and signal information through color associations (see Figure 3).

Mode/Signal	Power Status LED Color
No Power	No Color
Standby Mode	Amber
No Signal Detected	Blue
Signal Detected	Green
Signal Clipping	Red

Figure 3

Similar to the Input source selection knob, the Volume control knob is also a manual rotary knob. However, the Volume control knob is a digital control with infinite rotation – meaning, no stop at minimum or maximum gain. Listeners more familiar with analog volume controls will be surprised with the infinite rotation of the knob, but pleased with its functionality and many advantages including: fine resolution, wide dynamic range, transparent sound quality, and high reliability.

The Headphone jack is a 1/4” female headphone connector. A dress plug is provided to prevent the 1/4” jack from being visually obtrusive while headphones are not in use. The dress plug is removed by using the thumb and first finger to pull the dress plug away from the face of the amplifier. When headphones are connected to the M9 1/4” jack, the speaker outputs are disabled. Headphones with a 3.5mm, or 1/8”, mini-plug require a female mini-plug to 1/4” male adapter for use with the M9.

### The Rear Panel

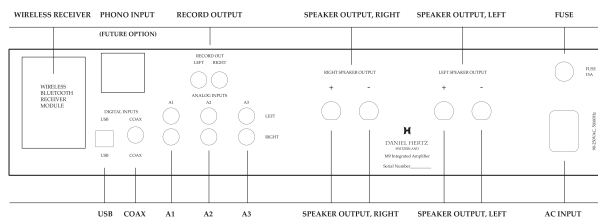


Figure 4

The 24-bit Bluetooth wireless connectivity input (W1) is provided via an external plug-in Wireless Receiver module on the rear panel. The Bluetooth Wireless Receiver antenna is contained within the module’s plastic enclosure (antennas don’t work from within metal enclosures). The module feeds a digital signal to the main M9 amplifier board. With the

For operation anywhere in the world, the internal switching mode power supply (SMPS) operates from 90VAC to 250VAC without user adjustment.

### Operating Your M9

#### The Front Panel

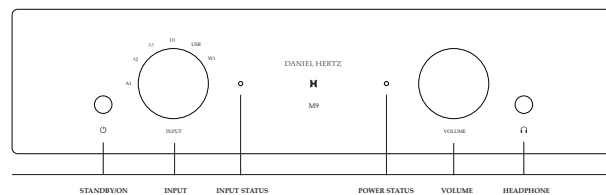


Figure 1

The front panel of the Daniel Hertz M9 Integrated Amplifier features a Standby/On button, input source selection knob (Input), input source LED indicator (Input Status), power and status LED indicator (Power Status), Volume control knob, and Headphone jack.

The Standby/On button toggles the M9 between standby and operating modes. The M9’s internal power supply is always on when the unit is connected to a power source. While in standby mode, all internal circuitry is powered down to incur negligible current draw. When the Standby/On button is pressed to engage operating mode from standby mode, Volume returns to the last set level.

The Input source selection knob is a manual rotary control with six positions, one for each of the three analog (A1, A2, A3) and three digital (D1, USB, W1) inputs. Each Input source selection knob position correlates with an audio input source and Input Status LED indicator color (see Figure 2).

Input Selection/Mode	Input Status LED Color
Standby Mode	No Color
Analog 1 (A1) Input	Green
Analog 2 (A2) Input	Green
Analog 3 (A3) Input	Green
Digital Coax (D1) Input	Amber
USB Input	Blue
Bluetooth Wireless (W1) Input	White

Figure 2

Daniel Hertz M9, there is virtually no audible difference between hardwired and wireless inputs. The Bluetooth Wireless Receiver module should only be removed or installed by a trained person. Removal or installation of the Bluetooth module by a person who is not factory approved in writing from Daniel Hertz voids the M9 warranty.

The 24-bit USB (Type B) DAC Input allows the M9’s integrated processor to accept input directly from any desktop or laptop computer via a male-to-male Type A to Type B USB cable (included).

The Digital Coaxial Input (D1) is compatible with PCM 2.0 signal from any digital source with up to 32-bit resolution and between 32kHz to 96kHz sample rate.

The RCA analog inputs (A1, A2, A3) are compatible with line level audio sources. The 1 megOhms input impedance causes minimal strain and optimal sound quality during the transference of signal from the chosen audio source to the M9.

The Record Output is a fixed record output level (RCA) analog output and transmits the selected M9 input source, analog or digital, to any 1V level compatible device.

The Speaker Output, Right terminals and Speaker Output, Left terminals are for connecting the M9 to speakers. Please note that the positive/red (+) and negative/black (-) terminals on the speakers and M9 should be connected accordingly – i.e. black to black and red to red. The M9 is stable down to 2 Ohms. Configuring the M9 with a load of less than 2 Ohms voids the warranty.

Should the fuse need to be replaced, use a 15A 250V fast blow fuse.

The included IEC power cable, with a female IEC end, is required to connect the M9 to a power source. The female IEC connector attaches to the rear panel AC Input of the M9.

### The Daniel Hertz M10 and Master Class

The Daniel Hertz M10 Speaker is an ideal match for the M9 as it is conceived and built with the same goal of delivering superior quality and compact size at an accessible price.

For those who seek the ultimate music listening experience and best sonic performance from the M9, Daniel Hertz recommends using an Apple computer with Daniel Hertz Master Class audio software as the audio source. The purpose of Master Class is to match digital audio files with the chosen playback system, in real time, to create natural sound that is akin with the best analog – eliminating the listening fatigue caused by PCM digital audio. Ultimately, Daniel Hertz Master Class enables recordings in all digital audio formats (playable in QuickTime), from all eras and genres, to come to life never before while sounding better than costly high resolution audiophile recordings.

Daniel Hertz is the only company that provides a true global solution to advancing music reproduction, including the sound of the recordings you listen to.

For more information on Daniel Hertz SA, the M9, and other Daniel Hertz products, visit: [www.danielhertz.com](http://www.danielhertz.com)