

m902 | reference headphone amplifier

preliminary information

The **m902** is built upon the remarkable success of our model 901 headphone amplifier, with the addition of many new and essential features designed to make it an invaluable tool for any critical audio application.

Professionals and audiophiles alike will simply be floored by the **m902**'s latest generation, high performance 24/192 DAC, which includes our unique s-Lock™ dual stage PLL (Phase Lock Loop) for extremely low intrinsic jitter and rock solid digital performance. A full compliment of digital and analog inputs are available (including USB) which are all selectable via a front panel rotary switch.

The **m902** also includes an exciting new feature to simulate the acoustics of a loudspeaker listening environment, which significantly improves imaging while reducing listening fatigue when using headphones. This feature employs carefully designed signal crossfeed, filtering and delay circuits to simulate HRTF (Head Related Transfer Functions).

Additionally, the **m902** cleverly adds stereo analog line outputs for connection to studio monitors, allowing it to also function as an elegantly simple high fidelity monitor controller or even a purist audiophile preamplifier/ DAC.

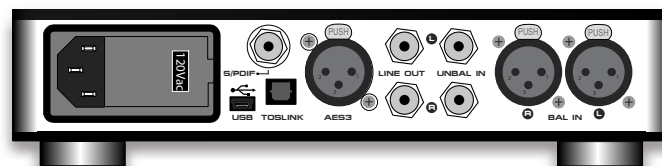
At the core of the **m902** is our meticulously designed high-current transimpedance amplifier circuitry, which effortlessly drives even the lowest impedance headphones. This no compromise circuitry provides the high-resolution and low-level ambient detail for which all Grace Design products are famous. Familiar recorded material becomes at once transparent and alive, and critical details in editing and mastering become obvious and easy to manipulate.

As the logical update of the venerable model 901, the new **m902** reference headphone amplifier stakes its claim as the final word in reference headphone amplification and as the new *must have* tool for audio playback in any environment.



features

- Balanced and unbalanced analog inputs
- AES3, S/PDIF, TOSLINK and USB digital inputs
- Variable level unbalanced analog outputs for studio monitors
- Latest generation 24/192 DAC with s-Lock™ dual stage PLL
- Precision level control with a 95dB range in .5 dB steps
- Channel level matching accuracy of 0.05dB
- Crossfeed circuitry for improved headphone imaging
- Optional Infrared remote control available
- Internal linear power supply with custom wound toroidal transformer
- High current transimpedance headphone amplifier circuitry
- No electrolytic capacitors in the signal path
- Highest quality 0.5% metal film resistors used throughout
- Sealed gold contact relays used for all signal switching



for complete information about this and all other Grace Design products, please visit- www.gracedesign.com

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