



DS-90 Powered Monitor

Powered Digital Reference Monitors for a New Generation.

The Roland DS-90's are the world's first 24-bit digital reference monitors, employing digital inputs and high-quality built-in amplifiers to perfectly complement the speaker modeling features found in Roland's newest VS workstations, and VM digital mixers.*

Uncompromising Monitor Design and Construction

Designed to meet and surpass the expectations of the most demanding musicians and engineers, the DS-90 Powered Monitors were created with the utmost attention to detail using custom-built discrete power amplifier circuitry, a bi-amplifier design and very high-quality components throughout. These two-way digital monitors incorporate a specially-designed 6.5-inch polypropylene woofer and a 1-inch soft dome tweeter, employing a bass-reflex cabinet for resounding bass response. Onboard amplification includes a 60-watt amp for the woofer and a 30-watt amp for the tweeter, using a fourth-order active crossover. Speakers are driven directly by the specially-tuned amps, and speaker response characteristics can be completely adjusted via HF and LF controls on the rear of the monitor to best suit the acoustics of any setting. Their ultra-flat frequency response characteristics and ample bass make the DS-90's the perfect near-field monitoring partners not only for VS/VM recording products, but for a variety of professional studio applications and setups.



*Product pictured is a prototype model. Actual product appearance may be subject to change.

Completing the Digital Studio

Your studio is digital. So why aren't your monitors? Thanks to their digital inputs with superb 24-bit D/A conversion and a completely custom design, the DS-90 Powered Monitors really excel when paired with Roland's VS-Series workstations and VM-Series mixers. With these digital monitors, VS/VM-Series users gain an all-digital production environment, from recording to effects processing, mixing and reference monitoring. In short, once an analog signal enters the VS workstation's first A/D converter, the next conversion doesn't happen until the sound hits the speaker; there's no unnecessary conversion or multiple re-conversions to detract from the overall sound quality. And there's no need to deal with noisy analog cables, patch bays, or routing headaches. Of course, for those who prefer to work in the analog or analog/digital world, the DS-90's also include standard XLR and 1/4" TRS inputs, making them perfect for a variety of settings.

The Reference Standard for Roland Speaker Modeling Technology

The DS-90's were designed as the perfect reference monitors for use with the Speaker Modeling technology found on Roland's newest VS*/VM recording products, making them the only monitors a V-Studio user will likely ever need. Just how does Roland's Speaker Modeling technology work? Put simply, the newest generation VS*/VM products contain a variety of sonic "models" of the world's favorite studio reference monitors—from high-end active models to those white-coned studio standards—as well as simulations of TV speakers, radio speakers, and more. A VS/VM user simply switches between these models and sends the digital output from his workstation or mixer to the digital input of the DS-90 speakers. There's no signal loss, and instead of having to switch between multiple pairs of monitors at mixdown, DS-90 owners can simply switch between the sonic models to hear how mixes sound on a variety of different "speakers." By offering thoroughly professional powered monitor design and features, as well as the digital advantages of 24-bit input and Speaker Modeling compatibility, the DS-90 Powered Monitors represent the professional standard for a new generation of musicians and engineers.

* Speaker Modeling feature is available on the newest versions of the VS-1680 and VS-880EX.

- Compact near-field reference monitors with built-in bi-amplifier design and flat frequency response characteristics
- Digital inputs (optical and coaxial) provide complete digital recording environment when used with VS workstations, VM mixers and other digital recording gear
- Reference standard monitors for use with Speaker Modeling features found in newest-generation Roland VS workstations* and VM mixers
- Bi-amplifier design employs discrete circuitry in power amp section and high-quality components throughout
- Also includes balanced XLR connections and TRS 1/4" input



■ DS-90 rear panel



VS-1680/880EX



Powerful Software Enhancements for the World's Favorite Workstations.

One of the major benefits of Roland's popular V-Studio Series of digital recording products is their ability to be upgraded via software with powerful new features. Case in point: the new software upgrades for the VS-1680 and VS-880EX workstations, which add a variety of user enhancements and amazing "world's first" COSM Speaker Modeling effects.



VS-1680 Software Upgrade



New Features

Mastering Room Capabilities

- 18-track capability permits mixdown of 16 tracks onto two additional tracks and/or simultaneous playback of 18 tracks
- "Mastering Tool Kit" algorithm offers useful mastering effects, including split-frequency compressor

COSM Speaker Modeling

- Provides amazing sonic "models" of popular speaker types, ranging from high-end studio reference monitors to boombox simulations
- Developed for use with new Roland DS-90 digital reference monitors, which include Digital Inputs for perfect speaker simulations
- Allows professional-quality mixdown using a single pair of monitors

User Interface Enhancements

- Easier pan setting per channel
- Enhanced Phrase, Take and AutoMix data editing
- New reading/writing speed options in CD Write/CD-R Backup/CD-R Recover



**VS-880EX
Software Upgrade**

New Features

COSM Speaker Modeling

- Provides amazing sonic "models" of popular speaker types, ranging from high-end studio reference monitors to boombox simulations
- Developed for use with new Roland DS-90 digital reference monitors, which include Digital Inputs for perfect speaker simulations

New Mastering Effects

- "Mastering Tool Kit" algorithm offers useful mastering effects, including split-frequency compressor

Specifications

• **System** 2-way bi-amplified powered monitor system • **Enclosure** Bass-reflex type • **Cabinet** 3/4" vinyl-laminated MDF • **Speaker Unit** LF Driver: 6-1/2" (160mm) polypropylene cone, HF Driver: 1" (25mm) soft dome type • **Crossover** Frequency 2.6kHz active fourth order • **Power Output** LF Amplifier: 60W, HF Amplifier: 30W • **Input Sensitivity** 0 dBm (0.775Vrms) • **Input Impedance** 20 kΩ (Balanced/Unbalanced) • **Digital In D/A Converter** 24-bit • **Controls** Level, LF Trim, HF Trim, Input Select Switch (Analog In/Digital In), Assign Switch (Left/L+R/Right), Digital In Select Switch (Coaxial/Optical), Power Switch • **Connectors** Analog Inputs (XLR, TRS; balanced/unbalanced), Digital Inputs (Coaxial, Optical), Digital Thru (Coaxial) • **Indicators** Digital In, Power • **Dimensions** 228.6 (W) x 318.7 (D) x 371.5 (H) mm (9" x 12-9/16" x 14-5/8") • **Weight** 11 kg (24 lbs. 4 oz.)

* DS-90 Powered Monitors are sold individually

* The specifications are subject to change.