

24 TR / 24-bit / 96 kHz
DIGITAL STUDIO WORKSTATION

Roland®

VS-2480 DVD

VS-2480 CD

Version 2.0



The Professional Choice.



When it comes to recording workstations with truly professional features, the VS-2480DVD and VS-2480CD are second to none. These 24-track/96kHz V-Studios offer the feel of software—thanks to full mouse-based editing on an optional VGA display—with the proven reliability and incredible sound quality only Roland hardware can provide. You can even use 3rd party plug-in effects using the optional VS8F-3 expansion board. And with 17 motorized faders, a 64-channel automated digital mixer, onboard effects and an available internal DVD multi-drive (VS-2480DVD) and CD-R/RW drive (VS-2480CD), it's easy to see why these V-Studios are in a class all their own.

- Self-contained 24-track/24-bit/96kHz digital recording workstations with onboard effects and CD burning capabilities
- 24-track playback; 16-track simultaneous recording with 384 V-Tracks
- Includes 80GB hard drive*
- “Drag-and-drop” control using included mouse; also accepts ASCII keyboard (optional)
- VS-2480CD includes built-in CD-R/RW drive; VS-2480DVD stores up to 4.7GB of project data on a single DVD-R/RW disc
- 64-channel, fully automated digital mixer with 17 motorized faders
- Professional-quality connections including 8 XLR/16 balanced TRS inputs
- 2 stereo effects processors (expandable to 8 stereo, 16 mono) including COSM[®] Mic, Speaker and Guitar Amp Modeling, plus Mastering Tool Kit
- New 3rd party plug-in support via optional VS8F-3 Plug-In Effect Expansion Board
- 24-voice Phrase Pads for triggering and arranging samples
- CD Capture function for importing audio from CD
- Dual R-BUS ports for expandable I/O in a variety of analog and digital formats; SMPTE and Word Clock input
- VGA Video output for intuitive, software-style editing and mouse control

*Hard drive is not user-replaceable.



•External VGA Display Example (Channel View)

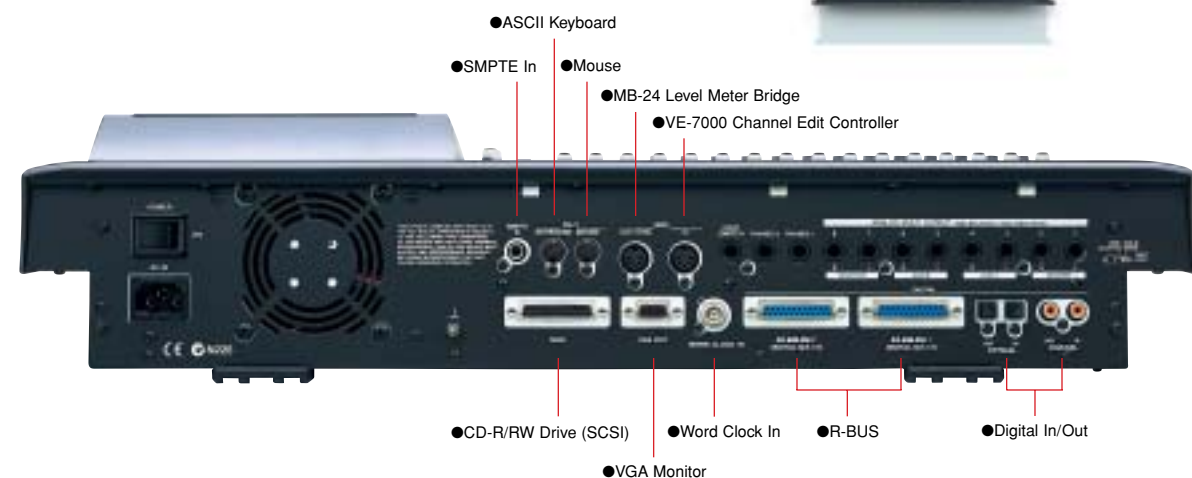
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COSM R-BUS 

The VS-2480DVD and VS-2480CD are complete studio solutions, offering the finest tools for every stage of the recording process. Record with 24-bit mic pre's. Edit "software-style" with a mouse on an optional VGA monitor. Add effects with 3rd party plug-ins. Mix with full automation and 17 motorized faders. Master your mix with the onboard Mastering Tool Kit. Burn a CD. Archive to DVD or CD. Everything is here for your best music yet.



Everything Your Studio Should Be

24 Tracks... Unlimited Possibilities

Ever wish you had a few extra tracks to record more guitar parts, background vocals or percussion? We know. That's why the VS-2480 is Roland's first V-Studio to offer 24 tracks of high-quality 24-bit digital recording. And with 384 Virtual Tracks, there's always room to try new ideas or "comp" the perfect lead vocal or solo. Even better, the VS-2480DVD/2480CD can record up to 16 tracks simultaneously, making it possible to capture a full live performance in a single take.

24-bit/96kHz Sound Quality

Roland V-Studios are known for their phenomenal sound, and the VS-2480DVD/2480CD is no exception. With its 24-bit converters and MTP recording mode, you get plenty of headroom and dynamic range, while 56-bit internal processing keeps your recordings ultra-quiet regardless of how much dynamics processing, EQ and internal effects are used. Built with an eye toward the future, the VS-2480 can record at sampling rates up to 96kHz*, making it compatible with the next-generation DVD-audio format.

*At sampling rates of 96kHz, maximum 12-track playback is possible.

■ Maximum Number of Tracks for Simultaneous Recording/Playback

Recording Mode	Sample Rate	
	48/44.1/32kHz	96/88.2/64kHz
M24, M16, CDR	16-tr recording 16-tr playback	8-tr recording 8-tr playback
MTP, MT1, MT2, LIV, LV2	16-tr recording 24-tr playback	8-tr recording 12-tr playback

■ Recording Modes

M24 (Mastering 24-bit)	For recording and playback in 24-bit linear format.
MTP (Multitrack Pro)	For high-quality recording which compares well to the results from professional-grade digital devices such as mixers and effect processors.
M16 (Mastering 16-bit)	For recording and playback in 16-bit linear format.
CDR (CD Writing)	Ideal for mastering, this mode enables you to record in Audio CD Image format for quick, repeatable CD burning.
MT1 (Multitrack 1)	Recording time is approximately two times longer than M16 while preserving sound quality. Suitable when doing many track bounces.
MT2 (Multitrack 2)	Provides more recording time than MT1 while preserving sound quality.
LIV (Live 1)	Provides more recording time than MT2. Suitable when there is little disk space left or for lengthy recording applications such as live performances.
LV2 (Live 2)	Enables the longest recording time.

Mouse-Based Editing on the LCD

The VS-2480DVD/2480CD expands upon the already powerful digital editing functions found in all V-Studios (e.g. Copy, Move, Exchange, Insert, Cut and Erase) by adding the ability to use the included mouse on the LCD. So now when you want to copy or move a phrase, it's a simple matter of highlighting and dragging it to the new location. And finding edit points is easy, thanks to the VS-2480DVD/2480CD's graphic waveform display and scrubbing features. You can even use the mouse on an optional VGA display for true software-style control. Make a mistake? There's always 999 levels of Undo to back you up.

Massive Recording Space

The VS-2480DVD/2480CD ships with an 80GB internal hard drive. Record an entire album (or two, or three...) without having to worry about running out of time. And even if you manage to fill up the internal drive, you can always back up projects using the 2480DVD's DVD multi-drive or 2480CD's internal CD-R/RW drive. The VS-2480DVD's DVD multi-drive can store up to 4.7GB of project data on a single DVD-R or DVD-RW disc.

Full-Featured Digital Mixing

Flexible 64-Channel, 34-Bus Design

Unlike some recording workstations, the VS-2480DVD/2480CD's onboard mixing section wasn't designed as an afterthought. Instead, it's a full-blown 64-channel digital mixer derived from Roland's groundbreaking 7000-Series V-Mixing System. So you get all the advantages digital mixing has to offer—like Scene memories for instant recall of all your mixer parameters, onboard 48-channel dynamics processing with 4-band EQ and Filter per channel. And with its 34-bus architecture, it's safe to say you can route signal just about anywhere you want—such as to internal or external effects—making it an extremely flexible mixer.

Motorized Faders Put You in Control

Want precise mixes? Get your hands on the VS-2480DVD/2480CD's 17 motorized faders. These faders not only feel great when mixing, but their exact positions can be stored as Scenes and instantly recalled at the push of a button. In addition, these motorized faders can also be switched for controlling Inputs 1-16, Inputs 17-24 plus Aux, Tracks 1-16, or Tracks 17-24 plus FX Return—giving you a dedicated

fader for each channel without taking up valuable desk space.

Loaded with Expandable I/O

If you're looking for inputs, feast your eyes on the VS-2480DVD/2480CD's 16 balanced inputs including eight XLR connectors with phantom power. And if that isn't enough, you can add up to 16 additional XLR/TRS inputs—or 16 channels of AES/EBU—using optional R-BUS interfaces from Roland. Combined with the onboard coaxial and optical digital inputs, you've got up to 36 inputs available! Of course, the VS-2480 also has plenty of analog and digital outputs (up to 32 channels) including direct outputs for each of its 24 tracks.

To ensure that all of these inputs and outputs sound nothing less than exceptional, Roland equipped the VS-2480DVD/2480CD with the finest 24-bit A/D-D/A converters. Praised for their warm sound, these converters—along with 56-bit internal processing—give you plenty of headroom and dynamic range. In fact, every aspect of the VS-2480 from its high-quality connectors to its carefully selected analog circuits make this Roland's best-sounding V-Studio ever.



5.1 Surround Spoken Here

The VS-2480DVD/2480CD comes equipped for 5.1 Surround Mixing, allowing you to take your mixing well beyond the stereo listening field. And while surround panning is made easy using the mouse, you can also use the optional VE-7000 Channel Edit Controller's built-in joystick to position your tracks even faster.

Use the Mouse On An External Display!

With the VS-2480DVD/2480CD, you'll get full mouse control even when using an optional VGA monitor. This makes it possible to click-and-drag track faders and knobs, edit compressor settings and set EQ curves with software-style ease. Or, use the mouse to change EZ Routing settings, taking the mystery out of signal routing. Of course, cut-and-paste editing is also possible, complete with "drag-and-drop" control and graphic waveform displays. This capability truly bridges the gap between hardware- and software-based DAWs.



●Waveform Editing

The VS-2480DVD/2480CD provides the ability to edit waveforms graphically with the mouse, just like software.

A World of Effects

Professional, Expandable Effects Processing

Out of the box, the VS-2480DVD/2480CD includes two stereo effects processors enabling you to add anything from studio-quality reverb and delay to COSM guitar amp/speaker cabinet models without the hassle of noisy external effects. What's more, you can add optional VS8F-2 Effect Expansion Boards for up to eight stereo or 16 mono effects, giving you all the processing power you need.



36 Killer Effects Algorithms

At the heart of the VS-2480DVD/2480CD's internal effects are 36 of Roland's best effects algorithms. The culmination of years of Roland and BOSS effects know-how, these include all the studio essentials like reverb, chorus and delay, plus guitar and vocal multis, Lo-Fi processing, a Voice Transformer and Vocoder. And with 250 Preset effects patches, you can spend less time programming and more time making music. Best of all, the VS-2480DVD/2480CD's onboard effects also include Roland's acclaimed Composite Object Sound Modeling (COSM) technology. COSM uses multiple modeling methods to accurately emulate anything from guitar amps and speaker cabinets to a variety of dynamic and condenser microphones—even popular reference monitors.

Mic Modeling Optimized for AKG C3000B

Roland's COSM Mic Modeling technology enables you to "model" the characteristics of a variety of high-end studio microphones using affordable mics such as the DR-20 Dynamic Microphone. The VS-2480DVD/2480CD takes things even further by adding compatibility with the AKG C3000B, so now this popular condenser microphone can be used as a reference standard for mic modeling as well, giving you classic small- and large-diaphragm condenser mic sounds, popular dynamic mic sounds and more.



Onboard Mastering Tools

Complete in every way, the VS-2480DVD/2480CD's effects processors feature a Mastering

Tool Kit with split-frequency compression, enhancers, limiters and parametric EQ to give your mixes more punch and attitude. It's the perfect step to take before burning a CD. With the Mastering Tool Kit, professionals have all the tools they need to create polished-sounding mixes without the need for external processing.

Designed with Professionals in Mind

An All-New Approach

When Roland designed the VS-2480DVD/2480CD, the goal was to create a professional workstation with an operating system both comfortable and easy to use. And while at first this might seem difficult given all the power afforded by this remarkable technology, the VS-2480's large LCD, analog-style knobs, VGA monitor output and other features make it the most intuitive recording workstation ever.

Innovative Multi-Purpose Knobs

Do you miss the days when mixing consoles were loaded with knobs? Good news. The VS-2480DVD/2480CD's 16 rotary knobs can be used for dedicated panning, or as a single channel strip for direct control over a selected channel's dynamics and EQ. So now you don't have to give up the control you crave to mix in the digital domain.

Work Faster and Smarter

Take your production to the next level by adding an optional ASCII keyboard, MB-24 Level Meter Bridge and VE-7000 Channel Edit Controller. Using the keyboard, you can name songs and phrases quickly, while the meter bridge provides convenient level monitoring. The VE-7000, on the other hand, provides a joystick for 5.1 Surround positioning and dedicated knobs for channel strip editing, freeing up the VS-2480DVD/2480CD's 16 knobs for panning.

A Complete, Professional System

Word Clock and SMPTE Inputs

The VS-2480DVD/2480CD's Word Clock input allows it to slave to a master digital clock for jitter-free recording—a must for those using several pieces of digital gear. A rear SMPTE input makes it possible to sync the VS-2480 DVD/2480CD to video—perfect for those working in commercial production or film.

CD Burner or DVD Drive Does Double-Duty

Choose the VS-2480DVD with a DVD multi-drive or VS-2480CD with a CD-R/RW drive built-in. Either way, you'll be able to burn audio CDs and back up data at blazing speeds. CD-R and CD-RW discs can be used for normal CD burning on both models. And with the CD Capture function, you can import tracks from audio CDs directly into your projects, making it easy to integrate loops into your recordings.

Built-in Realtime Spectrum Analyzer...

It's no secret that a room's acoustics can significantly impact the way your music sounds when mixing. So to help you avoid making costly mistakes, the VS-2480DVD/2480CD includes a Realtime Spectrum Analyzer. This feature helps you tune your EQ to account for the room's dynamics—translating into more accurate mixes.



...And Phrase Pads

In addition to its recording capabilities, the VS-2480DVD/2480CD includes a new phrase pad function with up to 24-voice polyphony. Using the phrase pads, you can trigger up to 24 different phrases such as one-shot SFX or vocals directly from disk.

The Center of Your Digital Studio

The VS-2480DVD/2480CD includes two R-BUS ports for 16 channels of 24-bit digital I/O. Use R-BUS to connect the VS-2480DVD/2480CD to R-BUS-ready products, or for adding up to 16 channels of high-quality A/D-D/A's or AES/EBU using optional interface boxes. For example, with the ADA-7000 8-Channel A/D-D/A Converter, you get eight channels of balanced XLR/TRS inputs with 24-bit converters for connecting additional microphones or instruments. And with the AE-7000 AES/EBU Interface, you can run eight channels of professional AES/EBU digital audio.



VS8F-3 Plug-in Effect Expansion Board

First Ever 3rd Party Plug-in Support



The VS-2480DVD/2480CD is the first stand-alone recording workstation to offer an open effects architecture, making it possible to use plug-in effects from several 3rd party manufacturers. Depending on the algorithm, you can run up to eight plug-in effects with four optional VS8F-3 Effect Expansion Boards*—bringing the vast world of plug-ins into your V-Studio. Every VS8F-3 includes a selection of high-quality Roland plug-ins to get you started, including Pre-Amp Modeling, Stereo Reverb, Vocal Channel Strip and more. Optional plug-ins are available from a growing list of 3rd party developers, including Antares, IK Multimedia, Massenburg, Universal Audio and more.

*The VS-2480DVD/2480CD has four expansion board slots. One is pre-installed with a VS8F-2 card, while the other three are available for VS8F-2 or VS8F-3 cards. If the pre-installed VS8F-2 is replaced with a VS8F-3, then a total of four VS8F-3 cards can be installed.



•Stereo Reverb

This brand new, 56-bit, true stereo reverb will give your tracks a rich spatial effect. It's perfect for stereo mic applications such as background vocals or overhead drum mics.



•Tempo Mapping Effect

The Tempo-Mapping Effect will synchronize delay taps to the tempo of your song. It can be used as a stereo insert or even in a dual-mono configuration for use with multiple tracks.

Some of the most sought-after plug-ins are coming to the V-Studio platform.



•Auto-Tune VS

Auto-Tune VS corrects intonation problems in vocals or solo instruments in real time, without distortion or artifacts, while preserving all of the expressive nuances of the original performance. Use preset scales or create custom scales to match any harmonic structure.



•SoundStage

SoundStage allows you to design the perfect acoustic environments for your audio, resulting in unique, realistic reverb. You can even control the wall positions and heights, then place microphones and performers anywhere in the room.



•fx:reverb

The critically acclaimed fx:reverb features a high-quality reverb algorithm, high- and low-frequency cutoff for filtering the input signal, parameters for controlling the room size, width of stereo image, echo diffusion, decay time, high-frequency damping, early reflections and more.



•T-RackS VS

T-RackS VS is the premiere analog mastering software suite, offering all the necessary tools for professional mastering. The processing, including EQs and Dynamics, is based on physically modeled analog sounds from rare vintage hardware mastering equipment. This high quality processing makes T-RackS very easy to use and results in highly-professional sounding mixes.



•Hi-Resolution Parametric EQ

This 4-band EQ using Hi-Resolution technology gives professionals a precision EQ with analog smoothness. The new MDW Parametric EQ for Roland VS-Series is a Double Precision plug-in with unprecedented clarity, fast response, and superlative smoothness, especially in the high frequency audio spectrum.



•Chrome Tone Amp

From guitars to keyboards, drums and even voice, Chrome Tone Amp brings the world of custom guitar amps and boutique pedal effects to your V-Studio. Chrome Tone Amp features a 5-stage distortion and a unique bandpass distortion for creative non-traditional applications. Chrome Tone Amp also has full-featured compression, gating, 3-band EQ, spring reverb and a multi configuration cabinet simulator with close and room mic positions.



•SoundBlender VS

SoundBlender brings professional studio-quality pitch shifting effects to the Roland VS platform. Perfect for the guitarist, SoundBlender has two channels of intelligent pitch-shifting, dual resonant filters, echo and reverse echo processors, arpeggiation and more.



•TCR 3000 and TC Pro Class Reverb 3000

The t.c. electronic TCR 3000 delivers 16 of t.c.'s best, award-winning reverbs. The dedicated controls and 100 great sounding presets help you achieve your desired sound in seconds. The reverb algorithms include Classic Hall, Vocal Studio, Room, Drum Box, Cathedral and more with easy-to-use but sophisticated controls for customizing the processing to all types of applications.



•VS-LA2A

Designed by the same manufacturer of the classic hardware version, the VS-LA2A is an exacting emulation of the original, putting this legendary compressor in your V-Studio. And operation is simple, thanks to a dedicated Limit/Compress switch and Input/Peak Reduction knobs.



•VS-1176LN

This software version of Universal Audio's classic limiting amplifier offers ultra-fast attack time and analog warmth, perfect for a variety of dynamics processing applications. Like the original, the VS-1176LN supports the popular "All Buttons" mode.

*Note that the optional plug-ins shown are based on their appearance when displayed on an optional VGA monitor. As the plug-ins are still under development, actual product appearance and specifications are subject to change.



To be VS8F-3 compatible, a V-Studio must be updated via the CD-ROM included with the VS8F-3. Currently, the VS-2480 Series, VS-2400CD and VS-2000CD can accept the VS8F-3 update. Updates for the VS-1680, VS-1880 and VS-1824/1824CD are planned for 2004.

