Full integration with your computer music system

For details please contact:

Easy USB connection

One USB cable is all you need for MIDI integration between the MOTIF-RACK XS and your computer-based music production system or DAW. Simply set your software to recognize the MOTIF-RACK XS port, and you have seamless, bi-directional communication for recording and playback.

MOTIF-RACK XS Editor

This special Editor software provides comprehensive control over all Voice, Multi and Drum settings on the MOTIF-RACK XS—and even gives you access to detailed parameters not available from the front panel. The graphic display lets you conveniently tweak the settings by simple click-and-drag operations. What's more the software stays in perfect synchronization with the hardware—any changes you make on one device are immediately reflected in the other. The Multi section uses a graphic mixer interface for comprehensive, intuitive control over the 16 Parts of each Multi. It offers enormous editing power and simplicity, since the MOTIF-RACK XS effectively becomes an integral part of your computer music system.

The MOTIF-RACK XS Editor can be used stand-alone within the Studio Manager program (both of which can be downloaded for free from the Yamaha website below). Moreover, if you're working with Steinberg's Cubase or Nuendo, these programs can be used as part of the comprehensive Studio Connections system—a hardware/software solution that adds even greater power and versatility to your computer music system.

Optional mLAN16E2 interface

For those who want even more input/output flexibility, Yamaha's optional mLAN16E2 interface lets you connect your MOTIF-RACK XS to your computer via a Firewire and communicate 16-out, 16-in audio in addition to all of your MIDI data via a single Firewire cable. This allows you to simultaneously record 14 individual Parts along with the main stereo output from the instrument to your computer. You can also route three stereo busses from your DAW back to the MOTIF-RACK XS for monitoring and even additional processing using effects (with no extra load on your computer's CPU).

The AI Driver is a peer to peer driver. It allows you simplely setup between one computer and one MOTIF-RACK XS. Extensions for Steinberg DAW will even automatically setup all your audio and MIDI connections to Cubase making it incredibly simple to add the MOTIF-RACK XS into your Cubase system.

Those are available as a free download from http://www.yamahasynth.com

mLAN16E2

CUBASE AI 4 software included

The Cubase AI 4 software bundled with the MOTIF-RACK XS Tone Generator provides a set of advanced software tools that are easy to use while delivering extensive recording and production capabilities. In addition to advanced audio recording and editing, Cubase AI 4 offers a range of MIDI sequencing capabilities, an entire suite of VST effect plug-ins, and a HALionOne sample player featuring selected waves from the famed Yamaha MOTIF synthesizers.

CUBASE AI 4 Features

■ Cubase 4 audio engine.
■ 48 audio tracks and up to 64 MIDI tracks.
■ 25 VST effect plug-ins, including 15 new VST3 plug-in effects.
■ HALionOne software sample player with selected MOTIF waves.
■ Plug and Play VST/MIDI setup.
■ Studio Connections Integration.
■ 20 MIDI music styles and 480 audio drum loops included.

Specifications

Tone Generator	Tone Generator	AWM2, with Expanded Articulation
	Polyphony	128 notes
	Wave	355MB (when converted to 16-bit linear format), 2,670 waveforms
	Voice	Preset: 1,024 Normal Voices + 64 Drum Kits
		GM: 128 Normal Voices + 1 Drum Kit
		User: 128 x 3 Normal Voices + 32 Drum Kits (Both of the User Voices are selected and copied from Preset bank)
	Multi	User: 128 Multis
Effects	Reverb	9 types
	Chorus	22 types
	Insertion A	53 types (up to 8 blocks available in the Multi mode)
	Insertion B	53 types (up to 8 blocks available in the Multi mode)
	Master Effect	9 types
	Master EQ	5 bands (High, High Mid, Mid, Low Mid, Low)
	Part EQ	3 bands (High, Mid, Low)
Arpeggio	Arpeggio Type	6,633 types
		* MIDI Sync, MIDI transmit/receive channel, Velocity Limit, and Note Limit can be set.
Controls		VOLUME knob, Encoder knob, Cursor buttons, AUDITION button, STORE button, ENTER button, EXIT button, VOICE button, EFFECT button, EDIT button, MULTI button, SELECT button, UTILITY button, Knobs 1 - 5
Jacks and Terminals	Front Panel	PHONES
	Rear Panel	USB TO HOST, MIDI IN/OUT, DIGITAL OUTPUT, ASSIGNABLE OUTPUT L and R, OUTPUT L/MONO and R, DC/IN, mLAN (when the mLAN16E2 has been installed)
Others	Display	160 x 64-dot graphic backlit LCD
	Supplied Accessories	AC Power adaptor (PA-301, PA-300B or an equivalent recommended by Yamaha), Owner's manual (this book), Data List, Disk x 1 (containing DAW software)
	Power Consumption	When the AC power adaptor is connected to both the MOTIF-RACK XS and the AC outlet, and the VOLUME knob is in the STANDBY position: 0.3 W
		When the power is turned on: 15W
		When the power is turned on and the optional mLAN16E2 has been installed: 20W
	Digital Output	44.1kHz, 24bit (COAXIAL)
	Dimensions	480 (W) x 379.4 (D) x 44 (H) mm
	Weight	4.2kg

*Specifications and appearance subject to change without notice.
*All trademarks and registered trademarks are property of their respective owners.

Rear Panel

TONE GENERATOR

MOTIF-RACK XS

Unparalleled Power and Versatility

Inspiration can strike at any time, but there's no need to wait for it.
The new MOTIF-RACK XS is packed full of inspiring sounds,
exciting rhythms and expressive control that spur your creativity to new heights—any time, any place.

The compact MOTIF-RACK XS gives you an enormous selection of Voices based on the popular,
professional-level MOTIF XS, studio-level effect processing,
five real-time Control Knobs for tweaking 20 different parameters as you play,
a wide-ranging library of convenient Multi-part presets,
thousands of automatic Arpeggios at your fingertips, and seamless hardware/software integration.

Never before has such comprehensive control, music-making versatility and
sheer sonic power been combined in such a small, easy-to-use package.
This little powerhouse has all you need—effectively doing the work
of several tone generators and processors.
Simply hook it up to a laptop or a keyboard workstation and you've got an entire studio's worth of
sounds and effects at your fingertips—plus a whole world of inspiration you can tap into.

The MOTIF-RACK XS features:

• Wide range of dynamic and authentic Voices — total of 1,152 Voices and 65 Drum Kits
• Powerful Arpeggio function — simultaneous playback of four types, total 6,633 available
• Five real-time Control Knobs, for adjusting the sound as you perform or record
• Convenient, intuitive editing of all settings from computer with MOTIF-RACK XS Editor
• Full integration with the popular Cubase series audio/MIDI recording software

Wealth of Voices for every application

Utilizing the very same Voices and the same tone generation architecture as the famed MOTIF XS, the compact MOTIF-RACK XS gives you everything you need for your studio productions and live performances. Boasting a full 1,152 Voices and 65 Drum Kits, this versatile tone generator is packed full of luscious grand pianos, realistic sounds for virtually every instrument in the orchestra, vintage organs and electric pianos, expressive guitars, powerful basses, synthesizer sounds of every stripe, from classic to cutting-edge contemporary, ethnic instruments, as well as a huge variety of drum kits and percussion sets to perfectly match any music style.
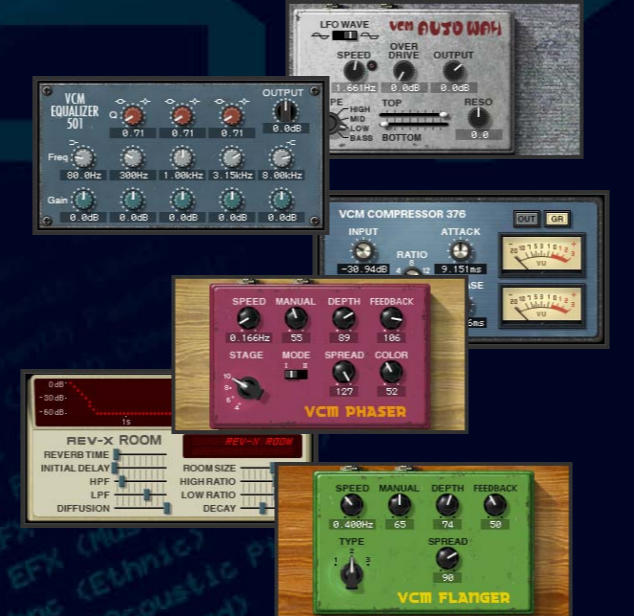
What's more, the MOTIF-RACK XS has a synthesis engine filled with 355 MB of waveform data, for a total of 2,670 separate waveforms—an amazingly broad selection of building blocks you can use to create your own Voices. These can be saved to the three User Voice banks, letting you store up to 384 of your original Voices on the instrument itself.

MAIN CATEGORY

• Piano (Acoustic Piano)
• Keys (Keyboard)
• Organ
• Guitar
• Bass
• String (Strings)
• Brass
• SaxWW (Sax / Woodwind)
• SynLd (Synth Lead)
• Pads (Synth Pad/Choir)
• SyCmp (Synth Comp)
• CPerc (Chromatic Percussion)
• Dr / Pc (Drum / Percussion)
• S.EFX (Sound Effect)
• M. EFX (Musical Effect)
• Ethnic (Ethnic)

Studio-quality effects

The awesome sonic power of the MOTIF-RACK XS continues with the comprehensive, professional-level effects. Providing eight Insertion effects, two System effects, a Master effect block, as well as independent Part EQ and Master EQ, this instrument gives you more processing power than any other rack module. While the System effects (Reverb and Chorus) let you sweeten each instrument Part in the overall mix, the Insertion effects (53 available types) let you enhance or transform individual instruments as needed. The MOTIF-RACK XS also has various newly developed VCM effects, reproducing the sound of vintage processors and expensive effect units.

Previewing Voices with the Audition feature

When selecting sounds, the name of a Voice doesn't always tell you enough about the sound—you need to actually hear it. With the Audition feature, you can hear Voices before you select them, and not even have to play a connected keyboard to do so. For example, you can use Category Search to call up a list of electric bass Voices, select one that interests you, then press the AUDITION button to hear a special riff or phrase using that Voice. You can even keep the AUDITION button on and press the up/down keys to select other Voices, and instantly hear what they sound like!

Versatile Multi mode for full music production

The Multi presets provide a convenient library or multi-instrument settings you can instantly call up when composing or arranging. Each has several different Parts pre-programmed with special Voices and other settings for a variety of music genres and applications, such as R&B, hip-hop, jazz, film soundtrack, electronica, Latin styles, ballad, rock and much, much more. Just select the template you want, and instantly start recording your own song demos or full-fledged recordings. Up to 128 of your own original User Multis can be stored, too.

Powerful Category Search feature

With the enormous amount of Voices to select from, you need a way to easily and quickly get the Voices you want. That's where Category Search comes in. The convenient push-and-turn knob to the right of the LCD lets you instantly call up main instrument categories (such as Piano, Guitar, Bass, Strings, Pads, etc.), select sub categories if needed (such as acoustic, electric and synth within the Bass category) then quickly scroll through a list of all the Voices that match. For super-fast selection, you can compile a Favorite category that contains just those Voices you use the most.
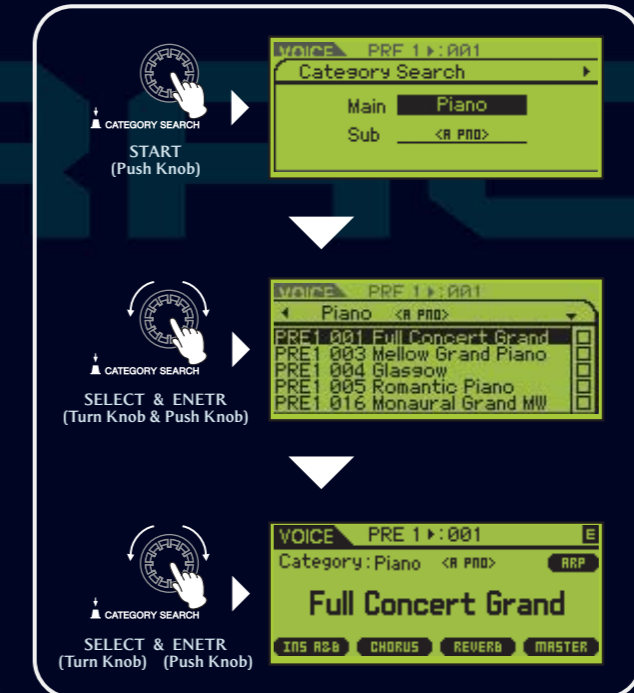
Ultra-convenient Real-time Sound Control

There's an enormous amount of music making power under the hood of the MOTIF-RACK XS and there's no easier way to get at that power than with the five Control Knobs. These convenient knobs let you tweak the sound of the instrument in real time—saving you the hassle of having to wade through several display pages to get to the parameter you want to change. Need to adjust the reverb level for the selected Voice? Press the SELECT button to call up the fourth row of parameters, then turn Knob 2. Want to quickly change the tone of the Voice, such as taking a little bit of the high end off of a piano Voice? Call up the third row and adjust the various EQ bands—using Knob 5 to the highs. Or boost the bass of a Voice with Knob 1. If you want to adjust the volume of the selected Voice, call up the first row and turn Knob 5. Two of the knob settings are even assignable, letting you choose your own favorite parameters for custom control.

① Row 1		
Knob 1	CUTOFF	These control the basic filter parameters, letting you perform dynamic filter sweeps and emphasize certain overtones in the sound. These are especially effective on synth, synth bass and pad sounds.
Knob 2	RESONANCE	
Knob 3	FEG DEPTH (Filter EG Depth)	
Knob 4	PORTAMENTO	Determines the Portamento Time, or the speed of the pitch transition between two successive played notes when Portamento is applied.
Knob 5	VOLUME	Determines the volume of the Voice.
② Row 2		
Knob 1	ATTACK (AEG Attack Time)	These are the most commonly used sound shaping controls for the Voices, letting you adjust the rates of the Attack, Decay and Release, as well as the level of the Sustain.
Knob 2	DECAY (AEG Decay Time)	
Knob 3	SUSTAIN (AEG Sustain Level)	
Knob 4	RELEASE (AEG Release Time)	
Knob 5	PAN	Determines the pan position of the Voice in the stereo field.
③ Row 3		
Knob 1	EQ LOW (EQ Low Gain)	Determines the level of the low frequency band for the Voice.
Knob 2	EQ MID F (EQ Middle Frequency)	These knobs give you detailed control over the mid-frequency components of the sound, letting you set not only the level, but the specific frequency and the range affected (bandwidth).
Knob 3	EQ MID (EQ Middle Gain)	
Knob 4	EQ MID Q (EQ Middle Q)	
Knob 5	EQ HIGH (EQ High Gain)	Determines the level of the high frequency band for the Voice.
④ Row 4		
Knob 1	CHORUS (Chorus Send)	These let you set how much of the Voice signal is sent to the Chorus and Reverb effects respectively, allowing you to adjust the level of those effects for the Voice.
Knob 2	REVERB (Reverb Send)	
Knob 3	ASSIGN 1 (Assign 1 value)	These let you control two different parameters of your own selection.
Knob 4	ASSIGN 2 (Assign 2 value)	
Knob 5	TEMPO (Arpeggio Tempo)	Determines the tempo or speed of Arpeggio playback.

(Actual size)