

■ Specifications

Keyboards	
MOTIF XS8	88 keys, Balanced Hammer Effect Keyboard (Initial Touch/Aftertouch)
MOTIF XS7	76 keys, FSX Keyboard (Initial Touch/Aftertouch)
MOTIF XS6	61 keys, FSX Keyboard (Initial Touch/Aftertouch)
Tone Generator block	
Tone Generator	AWM2 with Expanded Articulation
Polyphony	128 notes
Multi Timbral Capacity	16 Parts (internal), Audio Input Parts (A/D, mLAN*) *1 stereo Part
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 (selected and copied from Preset bank) Normal Voice + 32 Drum Kits
Performance	User: 128 x 3 (up to 4 Parts)
Filter	18 types
Effect System	Reverb x 9 types, Chorus x 22 types, Insertion (A, B, L) x 53 types x 8 blocks, Master Effect x 9 types, Master Equalizer (5 bands), Part EQ (3 bands, stereo)
Sampling block	
Samples	Up to 1,024 Waveforms (Multi Samples) Up to 128 Key Banks per Waveform Up to 4,096 Key Banks
Sampling Sources	Analog input L/R, Stereo output (Resampling), Digital output mLAN (available on the MOTIF XS6 and 7 when the mLAN16E2 has been installed)
A/D Conversion	24-bit, 64x oversampling
D/A Conversion	24-bit, 128x oversampling
Sample Data Bits	16
Sampling Frequency	44.1kHz, 22.05kHz, 11.025kHz, 5.5125kHz (Stereo/Mono) Sampling Frequency via mLAN (when the mLAN16E2 has been installed): 44.1kHz (fixed)
Sampling Memory	Optionally installed, expandable to 1GB (512MB DIMM x 2 slots) *DIMMs are not installed to the instrument when shipped from the factory.
Sample Length	Mono: 32 MB Stereo: 64 MB
Sampling Time	44.1kHz: 6 min. 20 sec. 22.05kHz: 12 min. 40 sec. 11.025kHz: 25 min. 20 sec. 5.0125kHz: 55 min. 40 sec. *Mono/Stereo
Sample Format	Original format, WAV, AIFF

Sequencer block	
Note Capacity	Approx. 130,000 notes
Note Resolution	480 ppq (parts per quarter note)
Maximum Polyphony	124 notes
Tempo (BPM)	5–300
Recording type	Real time replace Real time overdub (with the exception of the Pattern Chain) Real time punch in/out (Song only)
Tracks	Pattern: 16 Phrase tracks Pattern Chain: Pattern track, Tempo track, Scene Song: 16 sequence tracks (Loop on/off can be set for each track), Tempo track, Scene track
Patterns	64 Patterns (x 16 sections), Measures: 256 maximum Mixing Voices: 16 Voices per Pattern and up to 256 Voices for all Patterns Mixing Templates: 32 for all Songs and Patterns
Phrases	User Phrases: 256 per Pattern
Songs	64 Songs Mixing Voices: 16 Voices per Song and up to 256 Voices for all Songs Mixing Templates: 32 for all Songs and Patterns
Arpeggio	Preset: Approx. 6,000 types User: 256 types *MIDI Sync, MIDI transmit/receive channel, Velocity Limit, and Note Limit can be set.
Scene Memory	5 per Song
Sequence	Format Original format, SMF format 0, 1 (Format 1 load only)

Rear Connectors



Others	
Master	User: 128 *8 Zones (Master keyboard settings), Assignable Knob/Slider settings, Program Change Table
Sequence Software compatible with the Remote Control function	For Windows®: Cubase 4, Cubase AI, SONAR 5.2 For Macintosh®: Cubase 4, Cubase AI, Logic 7.2, Digital Performer 5 *Functions to be controlled differ depending on the software.
Controllers	Pitch Bend wheel, Modulation wheel, Ribbon Controller, Assignable Control Sliders x 8, Assignable Knobs x 8, Assignable Function buttons x 2, Data dial
Display	320 x 240 dot, 5.7 inch graphic color backlit LCD
Connectors	OUTPUT L/MONO, R (standard phone jack) ASSIGNABLE OUTPUT L, R (standard phone jack) A/D INPUT L, R (standard phone jack) DIGITAL OUT PHONES (standard stereo phone jack) FOOT CONTROLLER 1, 2 FOOT SWITCH x 2 (SUSTAIN, ASSIGNABLE) MIDI IN/OUT/THRU USB (TO HOST, TO DEVICE) AC IN ETHERNET mLAN (MOTIF XS8 only)
Power Consumption	30W
Dimensions, Weight	MOTIF XS8: 1,457 (W) x 466 (D) x 168 (H) mm, 28.6 kg MOTIF XS7: 1,252 (W) x 391 (D) x 122 (H) mm, 17.0 kg MOTIF XS6: 1,045 (W) x 391 (D) x 122 (H) mm, 14.8 kg
Accessories	AC Power cord, Cubase AI Disc x 1, Owner's Manual, Data List



MUSIC PRODUCTION SYNTHESIZER

MOTIF XS



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Instant Inspiration, Infinite Possibilities

Get inspired!

With the new Yamaha MOTIF XS, inspiration is just a key press away. High-quality sounds to inspire you, intelligent arpeggiators to fuel your creativity, recording features to capture every idea, built-in sampling to create full audio/MIDI arrangements, rhythmic Patterns to compose with, studio-style mixing controls and versatile effect processing to master your final productions. With all this and more, the MOTIF XS will soon be your favorite ‘go-to’ instrument—whether you’re composing at home, recording in the studio, or playing live. It’s got absolutely everything you need to make professional quality music.

Close your eyes, play the gorgeous sounds and rhythms of the MOTIF XS—and feel the inspiration.



High Quality Sounds to Spark Your Creativity

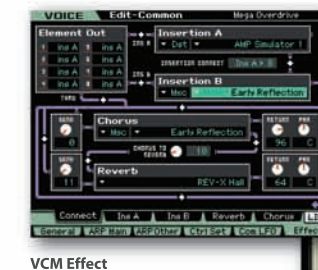
The MOTIF XS provides an exceptionally broad selection of realistic sounds to spark your creativity, with a massive 355 MB of high-quality waveforms and samples on board. A single Voice can have up to eight separate sound Elements, enabling composite sounds of remarkable complexity and nuance. Among the standout Voices is a resonant, meticulously recorded concert grand piano sound that is practically worth the price of admission by itself. New acoustic piano, electric piano and orchestral samples—not to mention the richly textured and distinctly electronic synthesizer waves—give you the sonic tools to fully realize virtually any style of music and any instrumentation.

Another new feature is the Expanded Articulation (XA) tone generation system. Using the eight available Elements, XA allows you to more effectively recreate realistic sound and natural performance techniques—such as legato, staccato and key release sounds—often used on acoustic instruments but unavailable or difficult to realize on electronic keyboards. It also lets you assign Elements to on/off panel switches, and change sounds within a Voice in real time—for example, playing a classical guitar voice and switch between playing normally and playing high harmonics. XA also offers other unique modes for random and alternate sound changes as you play.

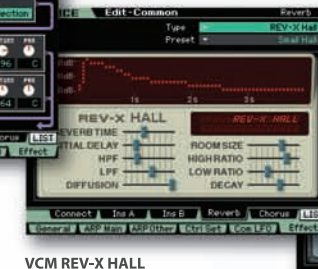
A wide selection of special Mega Voices provide even more expressive nuance, when used with sequencer tracks or the special Mega Voice Arpeggios. Mega Voices are not meant to be played from the keyboard because of their complex velocity layers, but have special expressive sounds that are designed to be precisely triggered by recorded data—for example, letting you create an acoustic guitar track with authentic sounding muted playing, slides and bell-like harmonics.



Mega Voice



VCM Effect



VCM REV-X HALL



VCM COMPRESSOR



VCM EQUALIZER 501



VCM FLANGER



VCM PHASER

Other Voice-related features include a uniquely natural “half damper” effect for acoustic piano sounds. This gives you nuanced control over the sustained sound when pressing the damper pedal, depending on how far down you press the pedal. The MOTIF XS has a full complement of effects, both insert (Insertion) and send (System), and includes a special set of VCM (Virtual Circuitry Modeling) effects that authentically model the elements in analog circuitry, realistically recreating the uniquely warm characteristics of vintage processing gear. Speaking of “vintage,” the instrument also includes a sophisticated Vocoder effect that produces classic robotic synthesizer sounds, molded by your speaking or singing voice through a connected microphone.



Ideal for Live Performance, Song Creating and Arranging

The MOTIF XS has so many sophisticated features that help jump-start your creativity and live performance potential. One of the most powerful of these is Arpeggio, which lets you trigger a variety of sequenced phrases from the keyboard. There are approximately 6,000 different Arpeggio phrases on board, and you can have four different Arpeggios, playing four different instrument parts, running simultaneously-in perfect sync, of course. The music making possibilities are virtually endless. Have a drum Voice play an automatic rhythm, add an Arpeggio bass phrase, and fly in other instrument phrases as the inspiration hits you. Everything stays in sync, and everything follows your chord changes.

While you experiment and play around with Arpeggios in the Performance mode, the song ideas will come fast and fierce-maybe too many to remember. No worries, though. You can capture them easily and directly by recording them to a Song or Pattern (which can be stored to the built-in flash memory). Since the data is MIDI, you don't have to

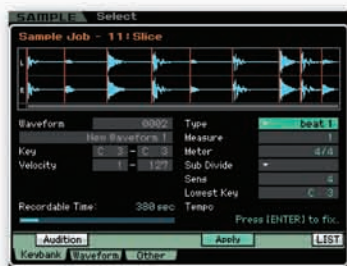
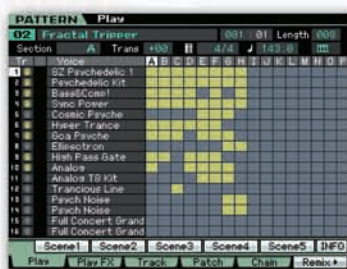
worry about running out of recording space.

You can record your keyboard playing, freely calling up various Arpeggio types as you improvise, then edit the Song later as necessary. You may even want to 'keep the recorder running' as you play, then listen back later and pick out the best parts to create your final composition.

Another powerful feature is the Integrated Sampling Sequencer, which seamlessly combines audio and MIDI recording. Simply install optional DIMM modules (up to 1 GB) and record the audio directly to tracks on the MOTIF XS. Record your vocals or acoustic guitar (with a microphone), electric guitar or bass, or even short rhythm loops from a sample CD. There's also a Slice feature that automatically chops up your rhythms and riffs into their individual beats and notes, letting you manipulate the component parts of your sample loops as MIDI data—giving you the power to easily change tempo and rhythmic feel, without disturbing the pitch or sound quality.



Sampling



Slice

Intuitive Interface, Easy Operation

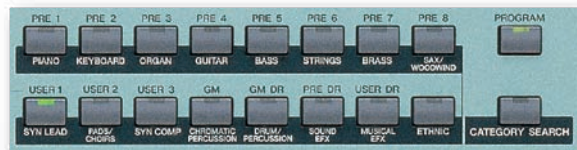
Despite all the advanced technology and wealth of features packed tightly into the instrument, the MOTIF XS is exceptionally intuitive and easy to use. It gives you a large, full-dot color LCD that lets you see multiple parameters at a glance, and has clear, high-resolution graphics with virtual sliders, knobs and more.



The panel of the MOTIF XS provides an amazing level of control and flexibility. Eight knobs and eight sliders let you instantly tweak a variety of parameters and effects as you play. The eight knobs are especially versatile, letting you use the knobs to independently control eight different parameters (out of 24 selectable), or use them to control a certain effect setting (reverb, chorus or pan) for up to eight different parts (in a song, for example). The knobs can also be used to change the rhythmic feel and other settings of Arpeggios and Patterns while they play back. Two Assignable Function buttons give you added control over the sound of the new Expanded Articulation (XA) Voices, letting you change sounds within a Voice in real time.



Other convenient operation features include the improved Category Search function, which now is organized with Dual Categories that help you find the Voice you want. Calling up the Guitar category, for instance, gives you access to the Dual (sub) Categories, such as Acoustic, Electric Clean and Electric Distortion. The Mega Arpeggio Voices also have their own Dual Category for easy selection of those unique Voices.



The MOTIF XS is not only exceptionally intuitive and easy to operate, it's a true joy to play—right down to the newly designed expressive keyboards. The MOTIF XS6 and XS7 have a new, natural FSX keyboard (61/76 keys), while the MOTIF XS8 features the grand piano-like BH (Balanced Hammer) keyboard (88 keys).



Computer Integration



A full-featured music production synthesizer in every way, the MOTIF XS comes equipped with a variety of connectors and interfaces for virtually any application and any studio situation. These include independent Assignable Outputs, A/D Inputs (for recording external sources), S/PDIF Digital Output, MIDI, Ethernet, mLAN (IEEE 1394 standard on the MOTIF XS8 and available on the MOTIF XS6/7 with the optional mLAN16E2 expansion board) and two USB connectors (TO DEVICE connector is compatible with USB 2.0).

The comprehensive set of connectors—Ethernet, mLAN and USB TO HOST—make interfacing with computers and your favorite software exceptionally easy. In particular, the new Ethernet connection gives you fast transfer of your MOTIF XS files to and from a computer on the same network. Additionally, the mLAN interface (connected to a computer via IEEE 1394) gives you a one-cable solution for high-speed, realtime transfer of multi-channel digital audio and MIDI data with AI driver (peer to peer).

Software Integration

Today's music production is highly dependent on software, and the MOTIF XS is designed to work seamlessly and transparently in your computer-based environment. The Remote Control mode lets you control your DAW software right from the panel of the MOTIF XS—for example, starting and stopping playback/recording with the special transport buttons, changing track levels with the sliders, and tweaking parameters with the knobs.

The MOTIF XS is also compatible with the MOTIF XS Editor—a comprehensive, easy-to-use editing software program that lets you edit (via USB connection) the Mixing setups and Mixing Voices to be used for Song/Pattern playback directly on your computer. The MOTIF XS Editor is free and can be downloaded from the Yamaha website. Naturally, the editor can be used within Cubase as part of Studio Connections, and all settings can be saved with each project for instant recall.



MOTIF XS Editor

If Cubase is not yet part of your software arsenal, a copy of the new Cubase AI is bundled with the instrument, letting you dive in and start using the versatile features of Studio Connections right out of the box. Cubase AI is a full-featured music production software that integrates fully with the MOTIF XS, and can easily be upgraded to Cubase 4. It gives you all the tools to produce professional level recordings—quickly and easily—with a system that you can expand into the future.



Cubase AI4

The Cubase Connection and Studio Connections

The MOTIF XS is specially designed to function seamlessly with the included Cubase AI4, Steinberg's powerful DAW software—giving you a comprehensive, all-in-one music production system in which both hardware and software are fully integrated. With our Studio Connections system (created jointly with Steinberg), you can effectively bring the MOTIF XS into the Cubase environment and use it just as if it were a plug-in software synthesizer—no complicated connections or complex setup necessary. Whenever you open a project, your MOTIF XS is

automatically enabled as well, with all the custom settings you previously saved. You can use the convenient panel controls on the MOTIF XS to remotely control a wide variety of operations on Cubase AI4. And since song files on the MOTIF XS are in Cubase format, you can create material on the MOTIF XS and easily import it to tracks in Cubase AI4 for further editing and mixing.

The Enormous Power of Cubase 4

Cubase AI4 is based on and has most of the features of the flagship Cubase 4—the professional's choice in digital audio workstations. Cubase AI4 includes the new SoundFrame system, a powerful tool that manages all of your sounds, samples, presets and loops in one centralized database. It puts all of your music materials in one easy-to-access, easy-to-organize location, and makes recording and song creation more efficient than ever before.

SoundFrame™ can help you find any sound, not only by instrument but also by category, type, style, character or other attributes. It even comes with more than 1000 ready-to-play sounds, which are also conveniently organized by instrument category, type, and character. These can even be instantly previewed before loading. SoundFrame™ also allows you to manage your VST effects plug-in presets, organizing and categorizing them to form one big effects library.

Cubase 4 sound engine

At the heart of Cubase AI4 is the same high-quality audio engine used in the top-of-the-line Cubase 4 system. Record and mix your tracks with professional quality 32-bit/96kHz resolution, and enjoy the clearest, most accurate and most pristine digital sound throughout the entire signal chain.

■ Includes HALion ONE software sampler

Cubase AI4 comes loaded with the powerful HALion ONE software sampler. This sample playback plug-in perfectly integrates with the sequencer and is optimized for use with the SoundFrame features. It features more than 350 brand-new ready-to-play sounds using high-quality samples from Yamaha's renowned MOTIF series instruments—covering acoustic and electronic instruments, as well as synth timbres and drums.



HALion ONE

■ Comprehensive plug-in effects and sample loop content

Other important Cubase AI features include a comprehensive set of VST3 plug-ins, including 15 new and dynamic effect types. A sample set of 480 different drum and rhythm loops has been included, as well as 20 types of MIDI Style files (for backing tracks) so that you can get started making quality music right out of the box.