



## The Perfect Performance

Players, take note. You want the ultimate keyboard instrument for performing and creating? We've put it all together for you. Exceptional quality instrument sounds. A piano sound to die for. A truly realistic, naturally expressive keyboard. Convenient, comprehensive control. Real-time controls for tweaking of the sound as you play. Audio recording to USB memory. Extensive computer music features. Ease of use, plus compact size and portability. Introducing the S70 XS and S90 XS Music Synthesizer.

Designed specifically for players, particularly those who want the highest quality piano sounds and expression, the S90 XS/S70 XS is a performer's dream. Yet, casual players and hobby musicians will appreciate the exquisite sounds, advanced features and superb playability just as much as top professional artists.

The S90 XS/S70 XS also has powerful Remote Control functions and the Master Keyboard features that have been enhanced to meet the demanding needs of professional music production. Its simple, intuitive operation also makes it an excellent choice for singer/songwriters and home studio recordists. No matter what kind of music you play, no matter what your level, no matter whether you play live or record in the studio—the S90 XS/S70 XS will soon be your first 'go-to' instrument. This is an instrument you can rely on to get your musical message across.

The S70 XS has a 76-key keyboard in a compact, lightweight design. It's easy to use, exceptionally portable, and absolutely perfect for live performers and gigging musicians. The S90 XS provides 88 keys for those players who need a full-range, full-scale keyboard.

### Specifications

	S70 XS	S90 XS
Keyboard	76 keys, Balanced Hammer Effect Keyboard (Initial Touch/Aftertouch)	88 keys, Balanced Hammer Effect Keyboard (Initial Touch/Aftertouch)
Tone Generator block	Tone Generator	AWM2 with Expanded Articulation
	Maximum polyphony	128 notes
	Multi-Timbral Capacity	16 Internal Parts + Mic Input Part
	Wave	456 MB (when converted to 16-bit linear format), 2,772 waveforms
Voice	Wave	Preset: 1,024 normal voices + 64 drum kits
		GM: 128 normal voices + 1 drum kits
		User: 128 x 4 (Bank 1 - 3: selected and copied from Preset bank) Normal Voice + 32 drum kits
Performance	User: 128 x 4 (up to 4 Parts)	
Multi	User: 128	
Filter	18 types	
Effects	Reverb x 9 types, Chorus x 22 types, Insertion (A, B) x 54 types x 8 blocks, Vocoder x 1 (uses both Insertion Effect A and B blocks), Master Effect x 9 types, Master Equalizer (5 bands), Part EQ (3 bands, stereo)	
	SMF Format 0/1 (playback only)	
Sequencer Section	Sequence Play	SMF Format 0/1 (playback only)
	BPM (Tempo)	5 - 300
	Number of Chain Steps	100
	Arpeggio	Preset x 6,779 types User x 256 types (when loading the User Arpeggio data of MOTIF XS)

### Rear Panel



### Rear Connectors



	S70 XS	S90 XS	
Audio Rec/Play Section	Recording: WAVE (.wav/44.1kHz/16-bit/stereo)		
	Playback: WAVE (.wav/44.1kHz/16-bit/stereo), AIFF (.aiff/44.1kHz/16-bit/stereo)		
Other	Master	User: 128 * 4 Zones (Master keyboard settings), Assignable Knob/Slider settings, Program Change Table	
	Sequence Software compatible with the Remote Control function	For Windows™: Cubase 5, Cubase 4.5, SONAR 8 For Macintosh™: Cubase 5, Cubase 4.5, Logic Pro 8, Digital Performer 6 * Functions to be controlled by the S90 XS/S70 XS differ depending on the software you use.	
	Controllers	Pitch Bend wheel, Modulation wheel, Sliders (4), Knobs (4), Assignable Function button (2), Data dial, Input Gain	
	Display	160 x 64 dot graphic backlit LCD	
	Jack and Terminals	OUTPUT L/MONO, R (standard phone jack), ASSIGNABLE OUTPUT L, R (standard phone jack), MIC INPUT (combo jack), 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	
	Power Consumption	25 W	
	Dimensions, Weight	1,320 (W) x 385 (D) x 173 (H) mm 20.4 kg	1,472 (W) x 385 (D) x 173 (H) mm 22.4 kg
Accessories	AC Power cord, Owner's Manual, Owner's Manual CD-ROM (containing Reference Manual and Data List), DVD-ROM (containing DAW software)		

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MUSIC SYNTHESIZER

S70XS

MUSIC SYNTHESIZER

S90XS

Yamaha Music Synthesizer S90 XS / S70 XS



## Sounds That Satisfy

The best musical instruments start with top-quality sounds, and the S90 XS/S70 XS delivers all that—and more. The S Series features all the Voices, Performances, arps and Virtual Circuit Modeling effects found on the flagship MOTIF XS Music Production Synthesizer. In addition, we've added a completely new, luscious piano sound of a whopping 100 megabytes, for an expanded total of 456 MB of instrument samples.

Foremost among these new piano sounds are the new samples taken from Yamaha's world-renowned S6 concert grand piano. These fully capture the richly textured sound of that wonderfully expressive instrument, and provide a warm concert grand piano sound unavailable on any other keyboard. For variation, the MOTIF XS piano based on a Yamaha CFIIIS is also available.

The S90 XS/S70 XS has a wealth of pro-level effects—including a special set of VCM (Virtual Circuitry Modeling) effect programs that authentically emulate analog circuitry, realistically recreating the uniquely warm characteristics of vintage processing gear.

Conventional keyboards in the past had their sounds designed primarily for the listener. This time, however, our development team set out to primarily satisfy the player instead. We reasoned that when the performer hears and experiences the best possible sound, the performance would be the best possible, too! The result? The S90 XS/S70 XS is a genuine musician's instrument, one that truly inspires and stimulates the live performer as well as the music creator and arranger.



## Streamline Your Performance

The S90 XS/S70 XS also lets you quickly and conveniently create your own custom Performances, with the amazingly fast and easy Performance Creator feature. It's never been easier to select a Voice, then quickly program Layers and Splits—even assigning a Drum Voice complete with arps to create your perfect Performance.



Let's say that you're playing a piano Voice and you want to layer a string sound on top of it. Simply press the [LAYER] button, then select the desired Voice category and Voice, and store your new Performance—just a few button presses and you're there!



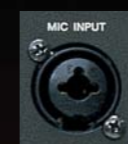
The S90 XS/S70 XS gives you comprehensive, easy-to-use controls for your Performances as well—such as Octave and Transpose buttons for quickly changing the pitch, and a Tap Tempo button that lets you easily change the tempo of Arpeggio or MIDI sequence playback on the fly. You can assign virtually any parameter on the instrument to one of the Assignable Function buttons (using the S90 XS Voice Editor) and switch the parameter as you play—for example, turning specific sound elements of a Voice on or off. Moreover, the instrument lets you route a click sound to one of the assignable outputs. With this you could let your drummer hear just the click sound and lock into your Arpeggio or MIDI playback.



## Ideal for Live Performers

The S90 XS/S70 XS has a host of other features that live performers will appreciate—such as the combo input jack that accepts both mic and instrument input. Simply plug in a microphone or guitar, tweak the INPUT GAIN knob (while checking the convenient PEAK lamp), and you're all set! Plus, you can use the Control Knobs to finely adjust the volume and even directly apply reverb or chorus to the sound.

In the heat of live performance, the last thing you want is to have to search for a much-needed panel control—or worse yet press the wrong button and get a rude, unexpected sound change. That's why all the panel controls of the S90 XS/S70 XS have been designed and positioned for optimum, intuitive operation, especially for live performance.



## Computer Control

For example, you can quickly select a Part, turn it on/off, set Arpeggio on/off, switch Arpeggio Hold—all done easily with the top panel controls—and instantly tweak important sound parameters like reverb, filter and sustain via the Knobs and Sliders. And to prevent that dreaded sound change, there's a convenient Panel Lock button that instantly disables (or enables) the panel controls.



Another remarkable performance feature is the Expanded Articulation (XA) tone generation system. Using the eight available sound Elements in a Voice, XA lets you 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. You can assign Elements to the Assignable Function 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.

## Recording Direct to USB Memory

If you've got a USB memory stick or thumb drive, you can plug it into the S90 XS/S70 XS and record your performance as audio data. This remarkable feature lets you instantly capture what you play on the keyboard—including arpeggio playback—to your USB device. If you've connected a microphone, you can even record your singing or playing as well. You can also record audio directly to the internal flash memory (192 MB) built into the instrument, without the need of a memory stick.

And keep in mind that anything you've recorded to the memory stick, even audio files created on your computer, can be played back on the S90 XS/S70 XS—which means you can create your own custom audio backing tracks and perform along with them on the S90 XS/S70 XS. For example, you can create a basic song track beforehand, then sing and solo over it during your performance. Or add guitar parts and vocal harmonies to be played back with your live performance. There's also a useful Song Chain function that lets you string together separate recordings and create a convenient backing track “set list” for your gigs.



## Computer Control

The S90 XS/S70 XS is a perfect companion for your computer music production system, too, serving both as a master keyboard and a full-function, multi-timbral tone generator. With the DAW Remote function and its 50 different control templates, you get amazingly easy, intuitive control over your main DAW software and VST instruments—directly from the panel controls! Special Remote Editor software lets you change and organize these templates.



Cubase AI—a powerful and versatile audio/MIDI sequencer—is included with the instrument, giving you complete music production capabilities right out of the box. And for editing the S90 XS/S70 XS from your computer, there's the S90 XS/S70 XS Editor. This provides convenient, comprehensive control over absolutely all the sounds, settings and functions of the S90 XS/S70 XS.

