

# Inside the **INTEGRA-7**

Getting the most from this powerful instrument!



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# The INTEGRA-7's massive sound engine

Powerful sound library  
with over 6,000 tones

**SuperNATURAL**

## Next-generation SuperNATURAL sounds!

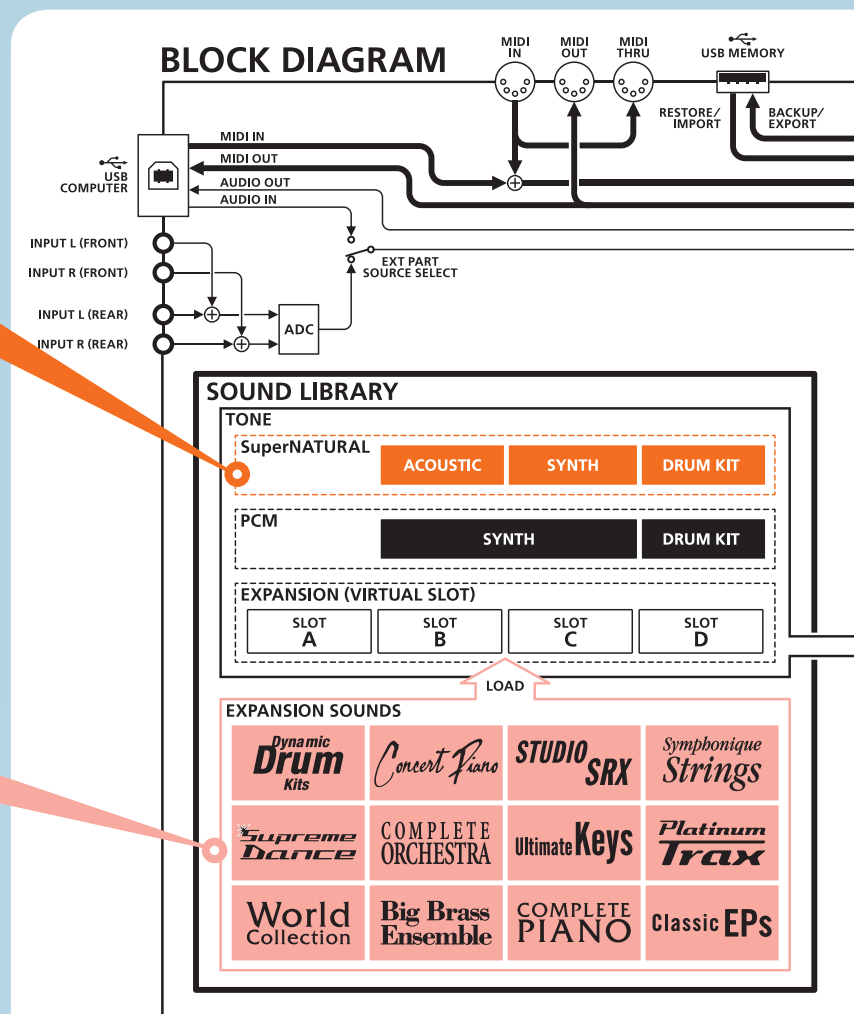
The INTEGRA-7 houses unique SuperNATURAL sounds that reproduce the natural characteristics and beautiful nuances of each source instrument. Thanks to this proprietary technology, what was previously a dream is now a reality. SuperNATURAL acoustic tones, SuperNATURAL synth tones, and SuperNATURAL drum kits all come to life under your fingertips in ways never before possible.

## EXPANSION BOARD

## All SRX series titles built in

Acclaimed around the world as the synth standard for music production, Roland's SRX-series expansion sounds are built into the INTEGRA-7 — all 12 titles! This lets you “virtually expand” your sound palette without changing your existing production setup. The INTEGRA-7 also comes with six SuperNATURAL titles and a high-quality GM2 sound-set to choose from. These expansion sounds can be accessed quickly by loading them into the virtual expansion slots (slots A -D).

The INTEGRA-7 represents the pinnacle of Roland's sound engine technology. It features SuperNATURAL sounds based on the same Behavior Modeling Technology featured in the JUPITER series, as well as all patches from the industry-standard XV-5080 synthesizer and all 12 titles of the SRX series. The INTEGRA-7 is packed with over 6,000 tones that can be used in a wide range of musical genres to help enhance and accelerate your workflow. It also debuts a powerful new function called Motional Surround, which lets you create multi-dimensional sound fields.




## Designed for high-quality sound

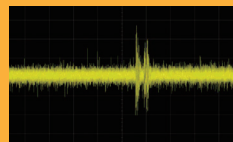
In addition to its digital output, the INTEGRA-7 has also been meticulously designed to deliver high-quality analog output. Components that affect sound quality — such as the power unit, DA converter, and capacitors — have been carefully selected to exploit the high quality of the SuperNATURAL sounds and their exquisite expression. The INTEGRA-7 has also been designed for the modern computer-centric production environment, delivering an excellent S/N ratio that is only possible on hardware sound modules, and not adversely affected by noise from the host computer.

## The benefits of a hardware sound module

Computers contain a motherboard, CD drive, hard drive, and other components in a small enclosure, making it practically impossible to isolate the audio circuitry from the noise-generating digital circuitry. As such, it is intrinsically difficult to achieve low noise with a computer. Furthermore, the analog circuitry is typically not made of high-quality components designed for audio quality due to cost-cutting constraints. For this reason, audio signals output from computers are often contaminated with noise. Being a dedicated hardware device, the INTEGRA-7 does not suffer from such limitations.



Example of computer noise



### Example of computer noise



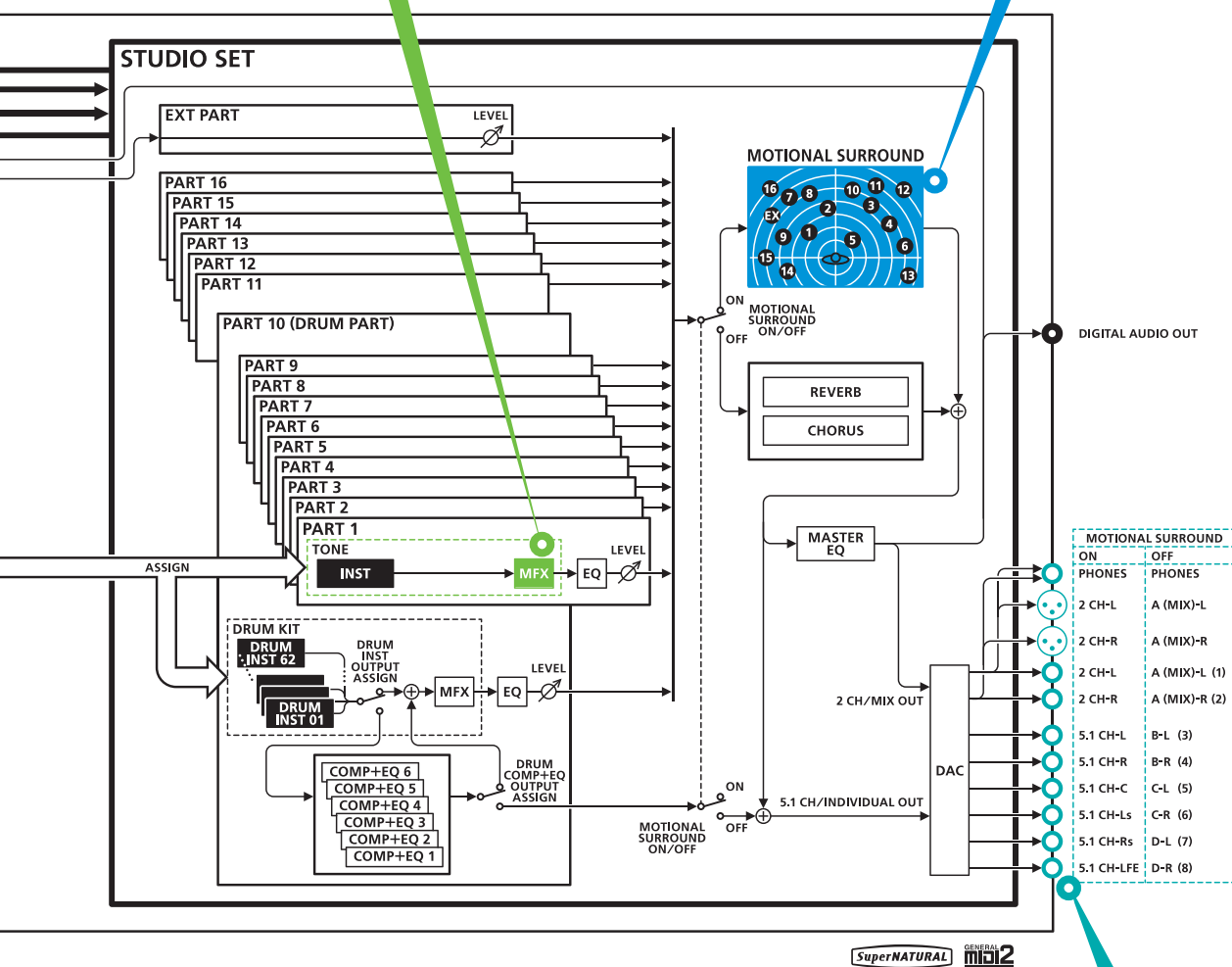
## Powerful, newly developed effects

## Dedicated MFX for 16 simultaneous parts!

The INTEGRA-7's MFX can be independently applied to *all* 16 parts. Since each tone has its dedicated own effect, you can weave rich and complex layers that are all freely controllable. No more effects-sharing limitations — INTEGRA lets you give each part the specific sound and effect it deserves.

## Multi-dimensional sound fields with Motional Surround

Motional Surround is a new function that lets you change the L/R *and* depth placement of all 17 parts (16 parts on the sound module + 1 external part) to position them in your surround field. This gives you the ability to create sound images that evoke a sense of space for video and stage production, sound-effects creation, and simulations of live performance.



## Professional-grade I/O

INTEGRA is equipped with professional-grade XLR outputs, optimal for studio production, as well as 5.1-channel surround outputs. Also included is a coaxial digital audio output with support for 24-bit/96kHz audio, as well as a USB port and stereo inputs on the front and rear panels for convenient connectivity.

# Using the INTEGRA-7 for music production

You can use INTEGRA-7 with a wide range of DAW programs and MIDI keyboards to produce music. In this tutorial, Motokazu Shinoda is going to use it with Cakewalk SONAR and the A-88 MIDI controller to show you how he uses the INTEGRA-7 in real-world music-production settings.

## Upgraded GM2 Standard MIDI Files with SuperNATURAL sounds

You can upgrade your existing Standard MIDI Files with INTEGRA-7's high-quality SuperNATURAL sounds. There are generally two ways to accomplish this: by replacing tone definitions in SONAR or by replacing tones in the INTEGRA-7. In this section, we'll go over the specific steps for each method, and present ideas for utilizing this feature.

### [Steps for replacing tones]

1. Play a GM2 format Standard MIDI File through the INTEGRA-7.
2. On the INTEGRA-7, turn off [GM System].  
(Go to [MENU] > [SYSTEM] > [MIDI] and set [Rx GM System] to "OFF".)
3. Replace the tones of each of the parts with SuperNATURAL sounds.

#### a. Replacing tones in SONAR using a Tone Definition file.

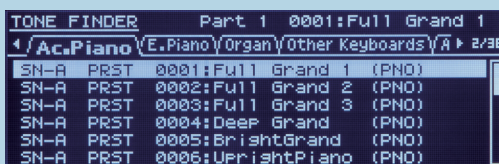
By loading the Tone Definition file for the INTEGRA-7 into SONAR, you can easily replace the tones in the part configuration window in SONAR.

*\*Please refer to the SONAR manual on how to load Tone Definition files.*

*\*The INTEGRA-7 instrument definition file for SONAR is available for download at the Roland website.  
<http://www.roland.com/support/>*

#### b. Replacing tones in the INTEGRA-7

You can use the Tone List display for different categories (Tone Finder function) to easily find tones to replace them in the INTEGRA-7. You can also easily check the currently selected tone using the Tone Preview function.



Tone List display for various categories



To preview the selected tone, press the [VOLUME] knob.

*\*When replacing the tone in the INTEGRA-7, you will need to turn the receiving function off so it is not affected by the "program-change" and "bank-select" commands sent by the Standard MIDI File.*

*(Go to [MENU] > [SYSTEM] > [MIDI] and set [Rx Program Change] and [Rx Bank Select] to "OFF".)*

*\*Go to page 31 in the manual for more information on the "Tone Finder" and "Tone Preview" functions.*

### Tutor: Motokazu Shinoda

Motokazu Shinoda is known for his work in a variety of genres as a composer, arranger, pianist, and keyboardist. In addition to his live performances as a solo artist and a member of various ensembles, he has performed with prominent orchestras in Japan and overseas. He has released three solo albums to date. He is also known as a writer of numerous music books, including his best-selling *Practical Chord Work*.



"The INTEGRA-7 is a sound module that can rightfully be characterized as the best of the latest SuperNATURAL sounds and traditional Roland sounds. I like the fact that it's packed with exciting new features such as Motional Surround and the INTEGRA-7 Editor for iPad."

## Characteristics of SuperNATURAL sounds

SuperNATURAL acoustic sounds let you perform, through simple playing techniques, a wide range of expressive and organic phrases — from delicate and subtle to powerful, dynamic, and dramatic. Because you're able to edit and tweak your expressions in MIDI to suit the particular situation, even after you've recorded your performance, this becomes a powerful tool — particularly in the production of movie soundtracks. This is one of the major strengths of SuperNATURAL sounds.

There are three types of performance expressions that you can control:

- **Dynamics:** From *pianissimo* to *fortissimo*, you can change not only the volume of the tone, but also the natural tonal variations that are inherent to that particular instrument.
- **Legato:** By playing in legato (playing the next note before the previous note turns off), you can reproduce smooth connections between notes in ways that faithfully mimic string or horn instruments — the smooth, fluid connections between notes that are unique and true to each instrument.
- **Variations:** Each instrument is pre-programmed with expressive performance variations, which you can switch instantly on/off during a performance.



## Pointer 1 for utilizing the power of SuperNATURAL sounds

In this section, we'd like to introduce you to some of the key ways in which you can use SuperNATURAL sounds. By understanding the characteristics and unique playing styles of different instruments, you can deliver realistic, expressive performances that are only available with SuperNATURAL sounds.

### 1. Guitar Tones (Example: Try this on "SN-A PRST 0151: Classic Gtr")

- Slide and hammer-on
- Harmonics
- Playing noise



- Stroke playing
- Muted tone

While the INTEGRA-7's guitar tones deliver an amazing range of expressions just by their velocity-based reactions, you can also enjoy other performance expressions that are described below. The INTEGRA-7 gives you the ability to deliver performances that fully bring the instrument to life under your fingers.

**Slide and hammer-on:** Quick legato passages, either played on keyboard or entered as data, automatically reproduce slides and hammer-on expressions. Hit the keys somewhat quickly to create a hammer-on effect, and even more quickly to create a slide effect.

**Muted tone:** Use <CC80> on the [S1] button to switch to a muted tone.

**Harmonics:** Use <CC81> on the [S2] button for harmonic overtones.

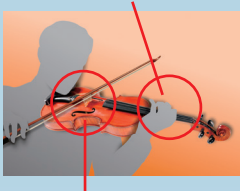
**Stroke playing:** You can turn the Strum mode on or off in <CC19> so chords played consecutively will automatically alternate between down and up strokes. You can also adjust the stroke speed with <CC17> on the [C2] knob, and you can configure the strum mode and stroke speeds on the window following [EDIT] > [INST].

**Playing noise:** Use <CC16> on the [C1] knob to adjust the volume of the playing noise.

**Tip** In addition to accessing the wide range of instruments — including steel string, nylon string, and electric guitar — you can also manipulate guitar tones in any way you like using the multi-effects, which include chorus, delay, compression, distortion, and amp simulators. Create the perfect tone for any tune.

### 2. Solo Strings (Example: Try this on "SN-A PRST 0192: Cello 1")

- Legato and portamento



- Staccato
- Pizzicato
- Tremolo
- Playing noise

On bow-drawn string instrument such as violin, viola, cello, and contrabass, you can create smooth changes in the tone even after the initial trigger by controlling [Modulation<CC01>]. This gives you the ability to create richly expressive changes that were not possible on traditional PCM sound sources. In addition, you can also reproduce other expressions that are unique to string instruments.

**Legato and portamento:** Create smooth note connections (legato on bow-drawn string instruments) by playing legato on the keyboard or reproducing it via MIDI editing. Also, you can turn <CC65> on to activate portamento.

**Staccato:** Use <CC80> on the [S1] button for staccato.

**Pizzicato:** Use <CC81> on the [S2] button for pizzicato.

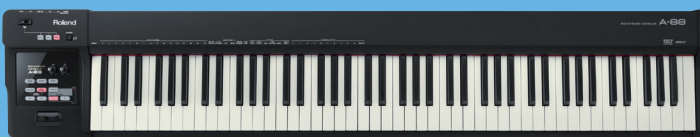
**Tremolo:** Turn <CC82> on for tremolo.

**Playing noise:** Use <CC16> on the [C1] knob to adjust the volume of the natural playing noises.

**Tip** It's useful to understand the characteristics of each tone in order to create your ideal ensemble.

**Violin1, Viola, Cello1, and Contrabass:** The tonal resonances of these tones are consistent, so you can use these tones not only for soloing, but also as optimal tones in string ensembles.

**Violin2 and Cello2:** These tones have a slightly different nuance as the four tones above, as they reproduce instruments with microphones placed at close range.



A-88



A-49

#### A-88/A-49 MIDI Keyboard Controllers (new products)

The A-88 and A-49 keyboard controllers feature [S1] and [S2] buttons, as well as [C1] and [C2] knobs, for controlling SuperNATURAL sounds. They are the perfect match for the INTEGRA-7, as you can instantly make settings that let you play SuperNATURAL sounds with full expression.

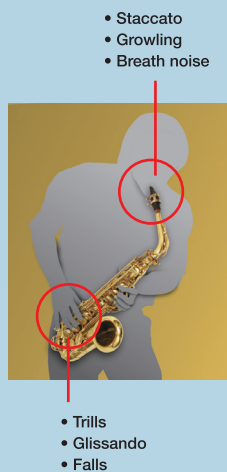
The following SuperNATURAL mode settings are available:

- [S1] button: CC80
- [S2] button: CC81
- [C1] knob: CC16
- [C2] knob: CC17
- [ASSIGN] button: CC18

# Using the INTEGRA-7 for music production

## Pointer 2 for utilizing the power of SuperNATURAL sounds

### 3. Horn instruments (brass and woodwinds) (Example: Try this on "SN-A PRST 0235: TenorSax 1")



Just as with bow-drawn string instruments, you can use [Modulation <CC01>] to change the expression and tonality on horn instruments after the initial trigger in ways that are unique to this instrument group. In this section, we will demo this on a sax tone to introduce you to ultra-realistic horn performance techniques.

**Trills:** You can reproduce trills by holding one note while repeatedly playing an adjacent note on and off in rapid succession.

**Staccato:** Use <CC80> on the [S1] button for staccato.

**Glissando:** Turn <CC19> on and bend up to create a glissando effect.

**Growling:** Use <CC18> on the [ASSIGN] button to adjust the degree of growl, an expression that is unique to horn instruments.

**Breath noise:** Use <CC16> on the [C1] knob to adjust the volume of breath noise.

**Falls:** Use <CC81> on the [S2] button for falls. You can also create a falling effect by bending down with <CC19> on.

**Tip** You can also apply these expressions to other woodwind and brass instruments. Please download "Parameter Guide (PDF manual)" from the Roland website for details.

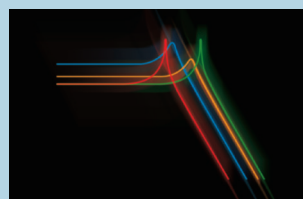
### 4. Synth tones (Example: Try this on "SN-S PRST 0010:JP8Strings10")

#### Characteristics of SuperNATURAL synth tones

SuperNATURAL synth tones are based on meticulous analyses of the behaviors of oscillators, filters, and envelopes in analog synths. The result is accurate reproductions of their unique tones and behaviors. Additionally, each tone contains three channels of [OSC], [FILTER], [AMP], and [LFO], which means you can achieve powerful synthesis with a single tone.

Ring modulation and Wave shapes are also provided for creating complex overtones, as well as Unison mode, which is a popular feature of the JUPITER-8.

In Unison mode, you can overlay up to eight waves per single OSC to create sounds that are even fatter than classic analog synths. The INTEGRA-7 Editor for iPad is a great tool for users who wish to create sounds with visual control and fast access to parameters. It's also a helpful tool for learning how sounds are generated on synths, as it's configured in a panel layout that provides an easy-to-understand view of the process.



Artist's conception of LPF1/2/3/4 filter actions.



Edit screen of the INTEGRA-7 Editor for iPad

## Expand your possibilities with the INTEGRA-7 Editor for iPad

The INTEGRA-7 Editor for iPad lets you perform synth edits, configure your Studio Sets, select tones, and import SRX and SuperNATURAL tones graphically and intuitively. You can also use the optional wireless USB adaptor (WNA1100-RL, sold separately) to wirelessly connect the INTEGRA-7 to your iPad, giving you the freedom to position your INTEGRA-7 anywhere in your environment.





## Pointers for using "Motional Surround"



With the INTEGRA-7's new Motional Surround engine, you can define the surround placements of up to 17 parts (16 internal parts and 1 external part), creating 360° 3D sound fields that immerse your audiences. You can enjoy the power of Motional Surround on the INTEGRA-7 itself, as well as other tools such as the INTEGRA-7 Editor for iPad and VSTi plug-ins running in SONAR.

## VST-compatible INTEGRA plug-in

Our newly developed VSTi plug-in has been optimized for use in SONAR and other VST-compatible DAW programs. You can take advantage of your DAW's in-depth editing features to record, edit, and play the movements in Motional Surround. By combining your VST-compatible DAW with the INTEGRA-7 in your music production, you can refine and perfect your sound fields for live and studio settings. In combination with the INTEGRA-7's SuperNATURAL sounds, the Motional Surround plug-in lets you create music that is truly one of a kind.

## Using the INTEGRA-7 Editor for iPad

The iPad's large display lets you easily determine the positions and movements of instruments. With the INTEGRA-7 Editor for iPad, you can move multiple elements at once — a feature that's only available in the INTEGRA-7 Editor for iPad. With this capability, the INTEGRA-7 lets you easily create movie sound effects that move in all directions, for example, as well as dramatic audio effects to surprise your listener.



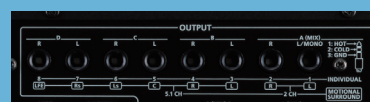
Screen for adjusting Motional Surround on the INTEGRA-7 Editor for iPad.

## Motional Surround can be output in 5.1 surround as well as stereo (line) and headphones.

Motional Surround is based on Roland's proprietary technology, which was derived from RSS (Roland Sound Space processing). If your production environment is equipped with multiple speakers, you can send independent signals to each speaker via the INTEGRA-7's 5.1-channel surround outputs. In addition to 5.1, the INTEGRA-7 is also equipped with output modes optimized for playback on two speakers and headphones so you can enjoy the effects of Motional Surround in standard audio-playback environments.



PHONE jack on INTEGRA-7's front panel.



OUTPUT jacks on INTEGRA-7's rear panel (2-channel/5.1-channel).

# EXPANSION BOARD SRX SERIES

## ■ Dynamic Drum Kits (SRX-01)



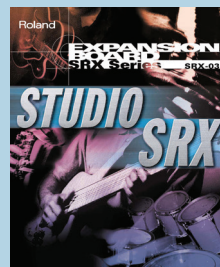
The SRX-01 Dynamic Drum Kits is loaded with the finest acoustic drum sounds ever assembled. Painstakingly sampled and edited in world-class studios, these vintage and modern kits can be layered and played in stereo with the most delicate of nuances.

## ■ Concert Piano (SRX-02)



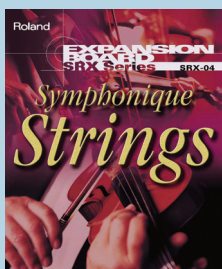
The SRX-02 Concert Piano board dedicates its entire wave memory to one purpose — reproducing an exquisite stereo-sampled piano. The SRX-02 provides a heavenly piano playing experience.

## ■ Studio SRX (SRX-03)



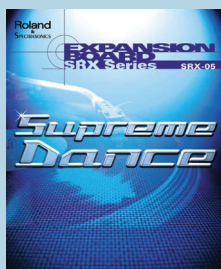
SRX-03 comprises a versatile set of waveforms for pop music production, including expressive pianos, exquisite nylon string guitars, basses, synth sounds, drums, and more — all recorded in world-class studios to preserve their natural characteristics and ambience.

## ■ Symphonique Strings (SRX-04)



The SRX-04 Symphonique Strings gives film composers, songwriters, and musicians direct access to the world's finest stereo-sampled string and orchestral sounds. Designed to be extremely realistic, these ultra-expressive sounds offer multiple performance articulations and 4-way velocity-switching capability.

## ■ Supreme Dance (SRX-05)



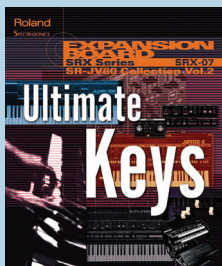
The SRX-05 Supreme Dance is Roland's finest collection of dance music sounds ever offered on an expansion board. This massive library includes 818 waveforms, 312 Patches, and 34 Rhythm Sets.

## ■ Complete Orchestra (SRX-06)



While offering all the standard orchestral sounds, such as strings, winds, percussion, and piano, the SRX-06 also includes various choir and vocal phrases. It can be used for orchestral arrangements, film scoring, and more.

## ■ Ultimate Keys (SRX-07)



SRX-07 is an inspiring collection of keyboard sounds and loops. It contains the sounds of legendary analog and digital synthesizers, vintage keyboards from the '60s and '70s, plus a variety of bass sounds and drum kits.

## ■ Platinum Trax (SRX-08)



The SRX-08 provides numerous sounds for dance music (techno, house, hip hop, trance, drum 'n' bass, breakbeats, R&B) including phrase loops, synth bass, synth sounds, various hits and stabs, and vocal phrases.

## ■ World Collection (SRX-09)



SRX-09 derives its sounds from around the globe, including Asia, the Middle East, Africa, and Latin America. There's even a bit of southern U.S. flavor. Whether you're working in Nashville or elsewhere, you'll have hundreds of ethnic instruments and Rhythm Sets ready to spice up your music.

## ■ Big Brass Ensemble (SRX-10)



The SRX-10 Big Brass Ensemble includes a world-class collection of brass sounds suited for pop music, film scoring, classical, and more. Created by top studio engineers, each of the SRX-10's patches captures the true articulations and feel of traditional brass instruments and ensembles.

## ■ Complete Piano (SRX-11)



Roland delivers its most stunning 88-note multisampled grand piano yet. Each key of a world-class grand was meticulously recorded in high-resolution stereo. The ultra-wide dynamic range of this sampled piano makes it ideal for virtually all musical styles. One piano, no compromise.

## ■ Classic EPs (SRX-12)



If the current crop of R&B and hiphop music is any indication, classic electric pianos and Clavs are hotter now than ever — and let's not forget the many other genres that rely on these essential vintage instruments. Introducing the SRX-12: the finest sound library of coveted EPs and Clavs to bear the Roland logo!

As the foundation of countless hit songs, the Roland SRX-series expansion boards continue to be the standard in the studio, and the go-to library for performing musicians around the world. The INTEGRA-7 has all 12 SRX titles in the series built in. And, in addition to having instant

access to all of these tones, INTEGRA-7 users can now enhance the SRX sound quality with the newly developed MFX. These effects have been specially designed for different instrument categories and musical genres, and are indispensable for fast-paced music production.

*\*Note: Since the INTEGRA-7 uses the latest MFX engine, the onboard SRX expansion libraries will not sound identical to previous sound modules and synthesizers.*

