



# MUSIC PRODUCTION STUDIO Integrated Sampling Sequencer

# RS7000



## Seamless Integration of Synthesis, Sampling, and Sequencing for Modern Music Production

The Yamaha RS7000 brings it all together. Everything you need for professional-level music production — particularly in dance, techno, Hip Hop, R&B, and ambient genres — is included and flawlessly integrated in a system that has been specifically designed to facilitate modern production techniques. Delivering unique and powerful features— a combination of integrating loops and samples with MIDI, plus the real “hands on” feel of an intuitive interface—the RS7000 is a complete desktop studio that answers the needs of modern music production.

## A new concept— the Integrated Sampling Sequencer

Perhaps the most unique function of the RS7000 is the ability to seamlessly integrate audio and MIDI. The 4 MB of onboard sampling memory is expandable to 64 MB. Users can import samples from a variety of formats, sample sounds themselves from external sources, or even re-sample the internally sequenced sounds of the RS7000 itself to instantly create new audio loops and phrases. The Integrated Sampling Sequencer automatically breaks the samples into discrete parts (based on amplitude peaks), and generates a corresponding MIDI sequence. Audio beats of differing tempos can then be synchronized and processed using the same MIDI tools (such as Grid Groove) as any regular MIDI data, and the same filters and parameters as the internal synth voices.



## Synthesis and On-Board Sounds

The RS7000 features a 62-voice AWM2 tone generator with over 1,000 onboard ROM-based synth voices and 63 drum kit sounds. There are six distinct types of filters, including phat resonant low pass, band pass, and hi pass — all controllable with a multi-stage envelope. Advanced LFO modulation capabilities included numerous BPM-synchronized waveforms plus a unique user programmable wave for creating your own unique BPM-synchronized effects. All edits to the sounds are stored as an integral part of the song and pattern data, so a virtually unlimited range of user sounds can be created.

## Radical Effects Processing Takes Your Sound a Step Further

On top of the three system effects, there is a separate Master effect section with a multi-band compressor, slice, Isolation, and other DJ-style master effects. These effects let you put the finishing touches on your RS7000 productions.

## SPECIFICATIONS

SEQUENCER	
MEMORY CAPACITY	259,000 notes
TIMING RESOLUTION	1/480 quarter-note
POLYPHONY	Maximum 124 simultaneous notes
TEMPO	1-300
RECORDING METHODS	Real-time (Replace, Overdub, Punch-in), Step, Grid Step
TRACKS	PATTERN 16 Phrase tracks PATTERN CHAIN Pattern track, BPM track, SCENE/MUTE track SONG 16 Sequencer tracks, BPM track, SCENE/MUTE track
PATTERN	USER PATTERN 1024 (64 styles x 16 sections)
PHRASE	PRESET PHRASE 5,980 USER PHRASE 256 per style
PATTERN CHAIN	20
SONG	20
EDIT	Phrase edit, Pattern chain edit, Song edit
GRID GROOVE	Note offset, Clock shift, Gate time offset, Velocity offset
PLAY EFFECT	Harmonize (Unison, Octavar, Harmonize1/2) Note (Note offset, Gatetime, Velocity offset) Timing (Beat stretch, Clock shift, Swing)
MIDI DELAY	MIDI delay edit, Feedback edit
ARPEGGIO	Type (Up, Down, Alternate1/2, Random), Sort, Hold, Octave range
LOOP REMIX	Real-time
SEQUENCE FORMAT	RS7000 format (load & save), RM1x format (load), SMF format 0 (load & save) / 1 (load)
TONE GENERATOR	
TOPE GENERATION	AWM2
POLYPHONY	Maximum 62 simultaneous notes
MULTI-TIMBLE	Maximum 16 timbles (last-note priority with element reserve, DVA)
PRESET VOICES	1054 normal voices, 63 drum-kit voices (excl. GM normal voices and drum-kit voices)
FILTER	6 types (24dB / 18dB / 12dB Low-pass, Hi-pass, Band-pass, Band eliminate)

Specifications and appearance subject to change without notice.

## Advanced MIDI Sequencing Capabilities

The MIDI sequencer offers both pattern-based recording with 16 sections of 16 tracks each, and a 259,000 notes linear sequencer. Real-time recording with input quantize, step recording and grid style recording methods are all available. After the data has been recorded you can apply advanced editing macros such as quantize and data thinning to refine your music. Once sections of a song have been fully developed in the Pattern Mode, different arrangements can be performed and auditioned in real time using the RS7000's dedicated section buttons. All pattern and section data can be easily converted to linear sequence song format for final tweaking. The RS7000 takes the MIDI sequencing capabilities first developed in the ground breaking RM1X to a whole new level.

## Real Time Hands On Control

The RS7000 has 18 assignable knobs and two pads for subtle or radical real time control over sounds, samples and MIDI sequences. The knobs can be assigned to control the sounds, modify playback of MIDI data using processes like MIDI delay, harmonize and beat stretch, or assigned to standard MIDI control change messages for controlling external devices. With the RS7000 real time performance of MIDI sequences becomes a brand new art form.



### Expansion Option

The YAMAHA AIEB2 adds six assignable audio outputs as well as both optical and coaxial In/Out.

Rear Panel

EFFECTS (4 blocks)	Reverb (12 types), Delay/Chorus (25 types), Variation (100 types), Master (8 types)
EQ	Master equalizer 4-band parametric equalizer Track equalizer 5 types (Lo & Hi, 1-band parametric EQ, Boost6, Boost12, Boost18)
SAMPLER	
MAXIMUM SAMPLES	256 (Pitch / Kit Total)
SAMPLE VOICE TYPE	Pitch, Kit
SAMPLING TYPE	Slice + Sequence, Kit, Kit + Note, Pitch, Pitch + Note
A/D CONVERSION	20bit 64 times oversampling
D/A CONVERSION	24bit 128 times oversampling
SAMPLING FREQUENCIES	Analog input 44.1kHz (Stereo / Mono), 22.05kHz, 11.025kHz, 5.5125kHz (LoFi Mode, Stereo / Mono) Digital input (only when AIEB2 I/O board is installed) 48kHz, 44.1kHz, 32kHz (stereo only)
SAMPLING WAVE MEMORY	Standard 4MB (Installed on-board) Maximum 64MB (32MB SIMM x 2, The on-board 4MB are unused only if memory has been expanded to the maximum.)
SAMPLING TIME	Maximum sample length 32MB monaural, 64MB stereo Maximum sampling time 6 minutes 20sec (44.1kHz, Mono or Stereo)
SAMPLE FORMAT	Export RS7000 format, WAV Import RS7000 format, WAV, AIFF, YAMAHA A3000/4000/5000, YAMAHA SU700, AKAI S1000/3000
GENERAL	
DISPLAY	64 x 240 dots graphic LCD (with backlight)
CONNECTORS	PHONES, OUTPUT (L/MONO, R), INPUT (L, R), MIDI IN, MIDI OUT x 2, FOOT SWITCH, SmartMedia™ (3.3V) Card Slot, SCSI (50-pin half pitch), AC INLET
DIMENSIONS	440mm (W) x 363mm (D) x 134mm (H) (17-5/16" x 14-5/16" x 5-1/4")
WEIGHT	7 kg (15.43 lbs)
ACCESSORIES	Owner's Manual, CD-ROM, 8MB SmartMedia™
OPTIONS	YAMAHA AIEB2 I/O Expansion Board 72-pin SIMM x 2 [Access time: 70 ns or less, Bit width: x 32 (non parity) or x 36 bit (parity) Fast Page or EDO, JEDEC Standard]

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