B&H
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The ProfessionalAudio SourceBook

Section12
MIDI Equipment

AKAI

Z4 • Z8

Z•Series Performance Samplers

The Z4 and Z8 are the industry's first 24bit/96kHz hardware-based samplers. Z-Series samplers were designed for professional audio production with 64 voices of polyphony (32 voices at 24bit/96kHz), 272MB of RAM (expandable to 512MB) and a 60GB internal IDE hard drive for storing a serious sample library. Both units include Akai's award-winning ak.Sys PC/Mac Control and Networking System Software allowing you to control the Z4 and Z8 using your computer while taking advantage of the powerful DSP processing capabilities provided by Akai's custom Z-96 LSI sampling engine and a high-performance Intel CPU. Both units also feature balanced stereo analog I/O with 24-bit/96kHz converters. An option is available for adding eight additional analog outputs. What sets the Z4 and Z8 apart? Both units employ Akai's realtime controllers called Q-Link knobs that can be assigned to a variety of parameters. The Z4 has four Q-Link knobs while the Z8 has eight. The Z8 also features a removable front panel for remote editing as well as a S/PDIF digital I/O with a Word Clock input and a powerful 56-bit, 4-channel effects processor, both of which are optional on the Z4.

Z8 shown with front panel removed and optional computer running ak.Sys Control software.

FEATURES

- Supports 24- and 16-Bit linear samples at sample rates of 44.1, 48, and 96kHz

- 272MB of internal SDRAM memory expandable to 512MB using off-the-shelf 168-pin DIMMs (PC133/PC100, CL2, 256MB max.

- 64-voice polyphony, 128-part multitimbral (32-voice polyphonic with the system clock set to 96kHz)

- 60GB internal IDE HD

- 248x60 graphic LCD display

- Built-in sample rate conversion is available on the digital input for capturing audio from peripherals such as CD players.

File Compatibility

- AKAI S1000, S3000, S5/6000 and MPC2000XL - Sample and Program files

- EIII, EIV, Roland samples and programs

- SMF (Standard MIDI File) playback

- FAT32/DOS disk format and .Wav implemented as native format

- .AIFF also supported using ak.Sys Networking Software on the Mac.

Q-Link Knobs For Realtime Control

- The Z4's four and the Z8's eight realtime Q-Link knobs can be individually assigned to control a wide variety of parameters including level, pan, filter cut-off and resonance, start offset, effect send, tuning and more. Control of an entire program or a sound assigned to a single keygroup is possible.

- Each assignable Q-Link knob can generate MIDI controller data so that parameters movements can be recorded and played back from a sequencer.

Digital Dynamic Filters

- 36 types of 6-pole digital dynamic resonant filters plus a special 'Triple' mode that supports up to three independent 2-pole filter blocks per voice.

- Realtime control of the cut-off frequency and resonance from the Q-Link knobs or via MIDI control change messages.

- Dual independent LFOs with internal, external modulation control and MIDI clock sync.

- Three Digital Envelope generators including two multi-stage envelopes.

Inputs and Outputs

- Two 1/4˝ TRS balanced record inputs

- Two 1/4˝ TRS balanced outputs

- 24bit/96kHz A-to-D and D-to-A converters with Enhanced Dual Bit 64-times oversampling A-to-D and Advanced Multi-bit 128-times oversampling D-to-A conversion.

- Two MIDI In and Two MIDI Out/Thru connectors

- A USB master port allows you to interface USB compatible floppy disk drives, hard disks, removable media drives, or a USB keyboard for quick name entry.

- An additional USB slave port is provided for connecting a Mac/PC running the AKAI Professional ak.Sys software.

- 50 pin high density SCSI port

Z8 Adds

- 2-channel S/PDIF digital I/O

- Word Clock input

- 8 x Q-Link assignable controllers for real-time modulation control

- 56-bit, 4-channel effects processor (EB4JS)

- Removable front control panel for remote operation.

IntelliSample

◆ IntelliSample provides an automated sampling function that allows you to easily create custom sounds while eliminating complete steps in the sound creation process. For example, using IntelliSample is a convenient way to continually record from an audio CD, normalize, name, and assign the samples to a program automatically.

◆ IntelliSample uses an audio triggering to begin and end the sample recording process: Recording is triggered when the input level exceeds an adjustable threshold level, and stops when the level drops below the threshold level. The recorded samples are automatically named and assigned to a new program, or any specified program.

56-bit Multi-Effects

◆ The 24bit/96kHz 4-channel effects processor (Optional on the Z4, standard with the Z8) offers over 40 effect types including reverbs, chorus, flanger, phaser, auto and touch wah, rotary speaker, pitch shift, delay as well as dynamics processors such as compressors, noise gates.

◆ A Pitch Corrector effects is also provided for intelligently correcting out of tune vocals and other monophonic instruments.

Quick FX

Quick FX allows sounds to be easily resampled and simultaneously processed with the internal 24bit/96kHz effects processor. A variety of presets are available that describe the final result and further simplify the effects assign and programming process. Presets such as Dirty, Swell, Squash, Stretch, Distant, and Fat will provide immediate results for most effects applications while retaining the original sample.

Waveform Editing

Resample, Insert Sample, Delete Section, Silence Zone, Reverse Zone, Pitch Shift, Fade Up/Down, Normalize, Rescale (user defined normalize), TimeStretch, BPM Matching, Cross-Fade, Sound Slicing, and many more.

ak.Sys Control and Networking System software

◆ The included ak.Sys software provides brings intuitive, computer- based program editing, multi editing and file management functionality to your Mac or PC.

◆ The on-board USB Host/Slave port connects to your computer allowing you to take advantage of computer software control while relying on the processing DSP power of a dedicated hardware sampler.

Also Available

Z4 Studio A — All Z4 features plus IB-48P - 8-channel analog output board

Z4 Studio D — All Z4 features plus IB-4D, 2-channel S/PDIF digital I/O board with WordClock input IB4ADT - 2 in/8 out ADAT optical I/O

Z8 Studio A — All Z8 features plus IB-48P - 8-channel analog output board

Z8 Studio D — All Z8 features plus IB-4ADT - 2 IN/8 Out ADAT optical I/O

Options

EB4JS: 56Bit, 4-channel effects processor (Standard in the Z8)

IB-4D: S/PDIF 2-channel digital I/O with BNC Word Clock input (Standard in the Z8)

IB-4ADT: 2 in/8 out ADAT optical I/O

IB-48P: 8-channel analog output board

Z48-256MB: 256MB DIMMs

VZ8 – Software Sampler

The VZ8 is a 24-bit/96kHz compatible software sampler that offers the same specifications and performance capabilities as its hardware counterpart, the Z8 Performance Sampler. The VZ8 is available as a VSTi under Windows and as an Audio Unit plug-in under Mac OS X.

◆ 24-bi t/ 96kHz performance

◆ Up to 64 voices and 16 audio outputs per instance

◆ Over 30 filter types including 2, 4, and 6-pole lowpass plus various highpass, bandpass, notch reject, peak, phase shifting filters, a vowelizer and an assortment of combination filters.

◆ 'Triple' filter mode lets you to create outrageous and unique filter combinations.

◆ Three envelope generators (two multi-stage, one ADSR) per voice.

◆ Two multi-wave, MIDI synchable LFOs with variable waveform phase and shift.

◆ The comprehensive modulation matrix allows up to 35 control sources to be routed in completely variable amounts to over 50 targets.

◆ Eight virtual Q-LINK controls allow real-time performance.

◆ Easy to use – just insert the VZ8 into a track and start dragging and dropping sounds onto it.Layer up to 128 sounds across 16 MIDI channels.

◆ True compatibility with S1/1100, S2/S3000, S3000XL, S5/6000, Z4/8 sound libraries. Sounds can be loaded from your Mac/PC hard drive, CD-ROM drive or, using the ak.Sys Disk Browser.

◆ The Q-EDIT function provides quick and easy access to filter cutoff, resonance and envelope times.

◆ Seamless integration with with Akai's ak.Sys software, which provides access to all of the sampler's parameters as well as the ability to transfer data between your VZ8 and Akai's hardware samplers using simple drag-and-drop procedures.

AKAI

MPC2000XL

MIDI Production Center

The MPC2000XL is a complete MIDI production center that combines a digital sampler, 64-track sequencer and a tactile work surface based around 16 velocity sensitive drum pads. The sampling section features 16-bit stereo sampling, 32-voice polyphony and is expandable to 32MB with widely available standard SIMMs (2MB of RAM is included standard). Each voice has access to a dynamic resonant filter and envelope and samples can be precisely edited using the MPC2000XL's intelligent time stretch function, graphic cut-and-paste sample editing and resampling capabilities. The sequencing section has a 300,000 note capacity and allows you to record on up to 32 MIDI channels simultaneously. Two MIDI Out ports allow you to integrate external synths and synchronize with other workstations. The MPC2000XL can be pre-configured with a host of options including 8 individual outputs with S/PDIF I/O, SMPTE I/O and a 4-bus effects processor. These options, including memory upgrades are user-installable and can be added at a later date.

FEATURES

Sampler/Sound Generator

◆ Sampler, drum machine and MIDI sequencer in one instrument

◆ 44.1 kHz, 16-bit stereo sampling with 32-voice polyphony

◆ 2MB of memory is included as standard providing 21.9 sec. mono or 10.9 sec. of stereo sampling.

◆ Two memory expansion slots allow you to expand the available memory to 32MB using 16MB 72-pin SIMMs (70ns).

Control Surface

◆ 16 large, velocity- and pressure-sensitive drum pads and 4 pad banks provide a total of 64 pad/bank combinations.

◆ Up to three samples can be assigned to one MIDI note. The samples can be played simultaneously or can be switched via velocity, or with the Note Variation slider.

◆ Up to 256 sounds and 24 programs can be loaded into memory at one time.

◆ Note Variation slider for programming a wide variety of dynamics

◆ Large 248 x 64 dot flip-up LCD display for graphic waveform editing. Six soft keys under the LCD display provide direct access to functions on each page.

◆ Dedicated buttons for most-used functions

64 Track Sequencer

◆ The powerful and easy-to-use 64 track MIDI sequencer offers a great alternative to complex computer-based sequencers.

◆ A maximum of 50,000 notes (events) is available per sequence. The sequencer's total memory supports a maximum of 300,000 notes (events) and 99 sequences.

◆ Support is provided for both linear and pattern-style (loop-based) recording. The loop recording function allows you to quickly and easily loop short phrases.

◆ The Step Edit function allows you to view and edit the pitch, duration, position and velocity of individual events.

◆ A dedicated Undo Seq key allows you to undo sequence recordings or edits.

◆ Two (mergeable) MIDI inputs and two independent MIDI outputs allow you to integrate synths and other MIDI gear into the sequencing environment. Up to 32 channels can be recorded simultaneously.

◆ The sequencer's timing resolution is 96 parts per 1/4-note (ppqn).

◆ The Swing feature lets you add a swing-feel to the rhythm.

◆ The Auto Punch function enables you to execute automatic punch in or punch at designated points within a sequence.

◆ The 2nd sequence function allows you to have a separate sequence play at the same time that another sequence (or song) is being played/recorded.

Storage

◆ MPC2000XL models are available with either a 3.5˝ 2HD/2DD compatible 1.44MB disk drive or a 100MB Iomega Zip drive for storing and loading samples.

◆ 50-pin high-density SCSI port allows you to back up large projects to a variety of removable media such as Zip or Jaz disks, fixed hard drive or you can connect a CD Rom drive allowing you to access a vast array of commercially available sample libraries.

File Compatibility

◆ You can load samples from the vast Akai S-Series Sound Library as well as the Akai MPC60, MPC60-II, MPC3000 libraries, E-Mu EIII and Roland S750/S760 CD-ROM libraries, as well as .WAV files from PC disks.

MPC2000XL

Inputs and Outputs

◆ Left and right balanced 1/4˝ TRS record inputs with a Max. input level of +10dBu.

◆ Left and right unbalanced 1/4˝ outputs. The optional **IB-M208P** I/O board provides an additional eight individual unbalanced 1/4˝ outputs plus a coaxial (RCA) S/PDIF digital input and master output.

◆ 1/4˝ stereo headphone output with dedicated volume control.

◆ Two independent MIDI outputs permit 32 simultaneous MIDI output channels.

Synchronization

◆ Synchronization and control capabilities include MIDI clock, MTC, MMC (MIDI machine control)

◆ The optional IC-M2TC board supports SMPTE time code synchronization. The supported SMPTE frame rates are 24, 25, 29.97 drop and 30.

Realtime Control

◆ Track mute can be turned on or off and sequences can be selected using the drum pads.

◆ The Note Variation slider allows you to control the decay or filter value of the sound in real time.

◆ The Next Seq key allows you to select another sequence to play directly following the one already selected.

◆ The Erase key works in conjunction with the drum pads to allow you to delete sequence data on the fly, without stopping the sequencer.

◆ The note repeat function and the after touch function pads enable you to easily enter drum rolls and hi-hat beats.

◆ The Tap Tempo function allows you to set the playback tempo by tapping a key in the time of 1/4-notes.

◆ The ability to convert MIDI sustain pedal data to note duration data allows you to insert sustain effects independently from the note data within a track.
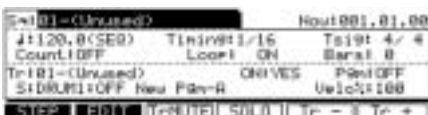
Sample Editing

◆ Extensive cut-and-paste sample editing with waveform display.

◆ Waveform display with zoom function allows precision editing.

◆ Timestretch allows you to intelligently lengthen or shorten a sample using 18 different preset algorithms tailored to suit a variety of source material.

◆ BPM Match enables you to change the tempo of the sample so that it will fit into the track that you are working with.

◆ The Re-sampling function allows you to change the sampling frequency of the sample which is useful for conserving memory as well as for creating LoFi samples.

Synthesis

◆ A 12dB/octave dynamic resonant lowpass filter is available per voice.

◆ An Envelope with three parameters (Attack, Decay and Decay MD) is also provided.

Fully Editable Multi-Effects

◆ The optional EB20 effects processor offers two independent channels of multi effects plus two additional channels of reverb-only effects – all of which are fully editable.

◆ The two multi channels offer up to six simultaneous effects each, including reverb, echo/delay, distortion, EQ, ring modulation, and a choice of modulation effects such as chorus, phasing, flanging, pitch shifting and rotary speaker emulation.

◆ In Multi Mode, the EB20 is configured as four separate processors with effects sends available on each multi-timbral channel.

◆ The effects can also be configured to serve as a stand alone dual channel FX processor for other sound sources attached to the sampler's inputs.

Utilities

◆ The Utilities page provides lets you customize settings to suit your particular work style such as whether MIDI notes are shown as numbers or keys, loop lengths as a time value or samples and whether you want the Ent/Play button to play back a key as one note, a chord or an arpeggio.

◆ All customized settings can be saved to Flash ROM so that your sampler boots up exactly as you want it every time. Settings can also be saved to floppy disk or hard disk.

◆ Data can be exported to or imported from standard MIDI files.

◆ Tempo changes can be programmed mid-sequence or mid-song are supported.

Also Available

MPC2000XL Studio —
All MPC2000XL features PLUS IB-M208P, 8 output expander with S/PDIF digital I/O and IB-M20T, SMPTE Read + Generate

MPC2000XL Studio Plus —
All MPC2000XL Studio features PLUS EB16, 4 bus digital multi-effects processor, capable of 6 simultaneous effects

MPC2000XL-ZP —
MPC2000XL with built-in 100MB ZIP drive, 100MB ZIP disk loaded with 50MB of free MPC programs and sounds

MPC2000XL Studio-ZP —
MPC2000XL Studio with built-in 100MB ZIP drive, 100MB ZIP disk loaded with 50MB of free MPC programs and sounds

MPC2000XL Studio Plus-ZP —
MPC2000XL Studio Plus with built-in 100MB ZIP drive, 100MB ZIP disk loaded with 50MB of free MPC programs and sounds

Optional Accessories

IB-M208P: 8 individual output and digital I/O board

EB16: Multi-effects processor board

FMX008M: 8MB Flash ROM board

IC-M2TC: SMPTE IC

16MB SIMM memory board

AKAI

MPC4000

Desktop 24-bit/96kHz Sampler/Sequencer

The MPC4000 is Akai Professional's most advanced music production center ever. Built around the same Z-96 LSI sampling engine found in Akai's Z4 and Z8 Performance Samplers, combined with a high-performance Intel CPU, the MPC4000 provides ultra-fast processing with 24-bit audio resolution and support for sample rates up to 96kHz. This is the first MPC to integrate a full feature sampler that not only supports standard Drum programs, but also gives you the ability to use keygrouped programs such as piano, bass, strings, synth, etc. The MPC4000 uses .Wav as its native sample format and is compatible with Z-Series and S-Series multi, program, and sample files offering you instant access to a huge library of material. The MPC4000's 128 track sequencer boasts a 300,000 note capacity and 960 PPQN resolution. The large 6-inch backlit, hinged graphic display offers high resolution graphical editing of waveforms as well as sequence event editing, including piano roll style editing. Other features include: 272MB of RAM, expandable to 512MB; a built-in four channel, 56-bit effects processor; a 60GB internal hard drive and CD burner for archiving and loading data as well as burning audio CDs; plus a whole lot more.

FEATURES

- Includes all sampler functions of Z4/Z8 sampler – Z-96 sampling engine, combined with a high-performance Intel CPU provides ultra-fast processing and 24-bit audio resolution with sample rates up to 96kHz

- 64-note polyphony (up to 48kHz), or 32-note polyphony at 96 kHz

- Includes 272MB of internal memory. Expandable to 512MB maximum expandable using standard PC100 or PC133 SDRAM.

- Samples can be recorded to RAM or directly to the internal hard drive for streaming playback.

Data Storage

- A built-in 60 GB EIDE hard drive is included for sample storage.

- An internal CD Burner is also provided for master archiving, back-up, audio CD creation as well as loading commercially available samples CD-ROMs.

- FAT32 disk format is fully compatible with S5/6000, Z4, Z8, DPS24, and as well as the .WAV sample format allows data sharing with anything supporting .WAV files.

User Interface

- Sixteen velocity and pressure sensitive drum pads plus six pad banks provide quick access to up to 96 different sounds.

- Large backlit 320 x 240 dot hinged graphic LCD display.

- Up to six real-time controllers can be assigned to control a wide variety of parameters.

- Virtually all parameters are assignable to two Note Variation sliders, or four Q-Link knobs for real-time modulation control.

- All Q-Link knobs generate MIDI controller data that allows performances to be captured with the built-in sequencer.

- Memory meters display remaining free sampler memory, sequence memory and CPU memory

- IntelliSample automates sampling, naming, program creation and sample assignment

Inputs and Outputs

- Balanced stereo XLR-1/4-inch TRS combo inputs with reference-grade preamps, as well as (RCA) phono inputs that allows you to sample form a turntable without the need for an external mixer or amp.

- Balanced stereo XLR and 1/4˝ outputs.

- All inputs and outputs utilize high quality 24bit/96kHz converters.

- Two MIDI In and four MIDI Out ports control up to 64 independent MIDI channels.

- SMPTE I/O is included standard

- A 50-pin Ultra SCSI port is provided for accessing additional storage peripherals.

Two USB Ports

- A USB host port supports an ASCII keyboard for naming, or USB floppy, Zip, CD-R, HD or MO drives for storage.

- A USB slave port is included for computer interfacing ak.Sys utility software.

AKAI

MPC4000

Sequencing

◆ You can record up to 128 tracks per sequence and up to 128 sequences can be stored in internal memory.

◆ The sequencer allows you to capture MIDI data at 960 ppq resolution and has a 300,000 note capacity per sequence..

◆ The length (1–999 measures), tempo, and time signature can be specified separately for each sequence.

◆ You can freely select the output destination for each track — the MIDI events recorded in the 128 tracks can be sent to the sampler section or you can access external synths by channelizing tracks to any of the four MIDI Outputs.

◆ Multiple sequences can be easily arranged in any any order to create a "song." A song can be converted to a sequence.

◆ The large LCD also allows an unprecedented view of sequence data showing data as a piano roll or as a drum machine 'grid'. Continuous MIDI data can also be shown (and edited) graphically.

EB4JS 4-Channel 24-bit/96kHz Effects Processor

◆ Four-channels of 24-bit/96kHz compatible effects, processed at 56-bit. The four processors can be configured as mono in/mono out; mono in/stereo out or you can strap two processors together for true stereo I/O.

◆ Each of the four effect units has access to one of 52 effect types and each effect is fully editable allowing a wide range of effects to be obtained.

◆ The effects are accessed via four effects sends.

◆ Quick FX resampling using powerful presets from the four-channel 24-bit/96kHz effects processor. Samples can be edited by simple descriptive commands like Dirty, Swell, Squash, Distant, Fat, etc.
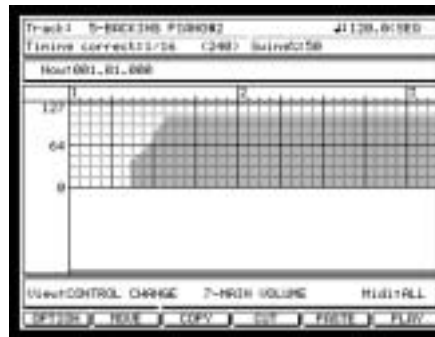
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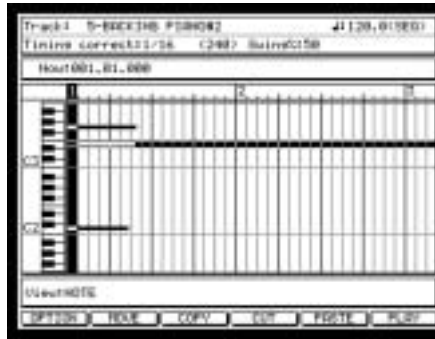
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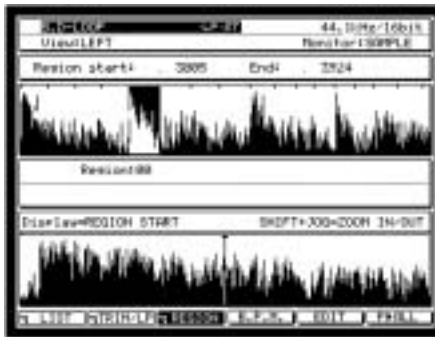
Graphic editing of sample waveforms

Graphic editing of controller data

Sample Editing

◆ Besides standard cut copy and paste editing, the MPC4000 offers a wide range of tools for extracting the perfect groove for your productions

◆ The Slice Sound Function (also available on the MPC2000XL) allows you to divide a a sample into 32 samples and assigns them to a new program automatically.

◆ The Beat Loop Function calculates the tempo from the phrase length for Pitch Shift and Time Stretch functions to change the tempo.

Realtime Synthesis Control

◆ There are 26 types of 6-pole digital dynamic filters available with up to three simultaneous filters per voice (192 total). Filters can be independently controlled from a variety of assignable modulation controls.

◆ Dual multi-wave LFOs with internal/ external modulation control

◆ ADSR envelope generator, two multi-stage envelope generators,

◆ Virtually all parameters are assignable to two Note Variation sliders, or four Q-Link' knobs for real-time modulation control.

◆ All Q-Link knobs generate MIDI controller data that allows performances to be captured with the built-in sequencer.

Computer Interfacing

◆ The free (downloadable) ak.Sys Network and Control Software allows complete Program editing, Multi editing, and file management via Mac or PC computers.

◆ The MPC4000's intuitive interface combined with the generous ak.Sys software GUI makes the MPC4000 extremely easy to manage, and since all DSP processing takes place within the MPC4000 instead of the computer, it won't overtax your CPU.

OPTIONS

◆ IB-4D stereo S/PDIF digital I/O with a built-in sample rate converter to eliminate rate-matching problems and a WordClock input

◆ IB-48P analog output board with eight assignable balanced outputs.

◆ IB-4ADT Two In/Eight Out ADAT optical digital I/O board.

AKAI

MPD16

USB/MIDI Pad Control Surface

The MPD16 is a self-contained control surface based on the drum pad design found on Akai's legendary MPC series of music production systems. The MPD16 connects via USB and/or MIDI to your computer, synth, drum module or sampler — anywhere you want to take advantage of a velocity drum machine-style tactile interface.

◆ Designed with simplicity in mind – allows you to program your drum sequences using a drum machine style interface instead of your keyboard.

◆ 16 MPC-spec pressure-and-velocity sensitive drum pads

◆ 16-Level mode allows you to generate the note velocity in 16 steps with 16 pads. Full-Level mode produces data with velocity value of 127, regardless of the velocity of the pad tapped.

◆ Bank key allows you to switch between two banks of sounds.

◆ The Active key enables the fader which outputs MIDI control changes.

◆ Parameter settings such as MIDI Note Assign, MIDI Channel, MIDI Control Change, etc. can be assigned from the computer via USB.

◆ Set-up is facilitated with the MPD16 Utility and PC/MAC driver software CDROM.

◆ Powered via your computers USB port or the optional AC adapter.

MFC42 MIDI Filter Controller

The MFC is a digitally controlled analog filter module optimized for use with Akai's MPC-Series of Music Production Systems. It features four selectable filter types, real-time control of filter, LFO, distortion, phasing and envelope parameters. The MFC42 can be rackmounted or mounted directly on an MPC2000/MPC2000XL using the optional KIT-MFC Mounting bracket kit.

◆ Two independent channels: a stereo channel, for processing MPC drum sounds, with a choice of 2-pole and 4-pole filter curves; and a mono channel, for bass with a choice of a 2-pole, 4-pole and an awesome 8-pole filter.

◆ Four filter types are available including: low-pass, high-pass, band-pass and notch filters. Toggle switches allow you to immediately switch to any filter type, with having to scroll through unwanted choices.

◆ Dedicated controls are provided cutoff frequency and resonance allowing real-time sound sculpting – from sub-sonic to extreme weirdness.

◆ An assortment of standard inputs, plus direct turntable inputs, allows the MFC42 to be used in just about any application.

◆ In addition to the powerful filtering capabilities, the MFC42 provides one LFO, one Envelope Generator

◆ Almost all of the controls on generate MIDI controller data, allowing performances to be recorded in the MPC's sequencer.

◆ You can assign the LFO and EG (envelope generator) to either channel to provide real-time changes. The on-board LFO can sync to external MIDI clock to easily match the tempo of any beat.

◆ The LFO rate can also be controlled using TAP TEMPO as well as BEAT SYNC which allows the duration of the LFO/Envelope when using the tap tempo feature.

◆ When using the stereo channel, you can shift the LFO phase between the left/right outs.

◆ While each of the channels is independent, LINK and INVERT functions allow interaction between the channels. By linking the channels together, any changes made on one channel will actually affect both channels. The INVERT function allows the control of one channel to have the opposite effect on the other channel.

◆ A Trigger button allows instant filter triggering -no keyboard required.

◆ Large, dedicated control knobs

Built-in effects

◆ Even greater sound shaping possibilities are provided via the distortion, a stereo analog phaser, and EQ.

DM5 • DM PRO

Drum/Percussion Sound Module

The DM5 is an affordable, single rack space drum module that offers drummers and MIDI composers a professional, full featured tool for high quality drum, percussion and special effect samples. The DM5 puts over 540 sounds, many recorded in true stereo and with ambient effects. You'll find a range of classic Alesis studio drum sounds as well as cutting-edge sounds representing many of the latest musical styles. The DM5 also features four assignable 1/4˝ outputs as well as a 12 ultra-fast trigger inputs. Whether you're needs quality drums and percussion on a budget or are looking to add new sounds to your arsenal, the DM 5 provides a low cost solution.

◆ Four 1/4˝ analog outputs (2 stereo pairs)

◆ 12 trigger input jacks – each with 5 user adjustable trigger parameters.

◆ 18-bit digital to analog converters and 48kHz samples

◆ 21 programmable drumsets.

◆ Over 500 sounds including stereo samples with reverb, ambience

◆ User programmable panning for each sample (7 positions)

◆ 16-note Polyphony

◆ 127 velocity levels are available via MIDI or trigger inputs.

◆ 21 drum kit memory locations w/defaults permanently stored in ROM.

◆ MIDI In, Out/Thru connectors

◆ 1/4˝ TRS headphone output with variable gain control

◆ 1/4˝ switchable footswitch input can be assigned to control hi-hat or program advance mode.

◆ Coarse (chromatic) and Fine (cents) tuning is provided for each sound.

◆ Data knob, front panel keypad sound auditioning via velocity sensitive Preview button on front panel.

◆ Expanded Dynamic Articulation uses velocity to modulate the tone and pitch of samples

◆ Random Sample feature brings new life to static tracks by realistically varying the sound of the drum as you play.

DM PRO — 64 Voice 20-Bit Expandable Drum Module

The DM Pro is Alesis' most advanced drum module. It boasts 64 voice polyphony, and a 16MB drum and percussion library with a diverse range of over 1,000 sounds designed to accommodate nearly any musical style. A PCMCIA card slot allows you to add an additional 8MB of customized samples for a total of 24MB. The DM Pro also provides 16 drum trigger inputs using Alesis' most advanced triggering system. The DM Pro Expandable 20 Bit Drum Module is the most advanced device available today. For composers who need a dedicated MIDI module for drums, or drummers looking for the professional solution for triggered electronic drum performances, the DM Pro represents the most powerful tool for creative inspiration.

◆ 1,024 different kick, snare, tom, cymbal, hi-hat, percussion and special effect samples derived from 16MB of PCM ROM.

◆ Create and store up to 32 virtual drumkits, and each kit can contain up to 64 different drum sounds.

◆ Up to four samples can be layered on each drum sound. The DM Pro also provides complete envelope control

◆ Customizable onboard multi-effects use the same processing engine as the Q20 multi-effects processor.

Expansion

◆ An expansion slot allows access additional sounds via 8MB PCMCIA-format cards.

◆ Alesis' Sound Bridge sample management software allows you to burn your own sounds and samples from your computer (PC or Mac) onto a PCMCIA-format card.

Inputs and Outputs

◆ Six 1/4˝ audio outputs provide optimum mixing and processing flexibility.

◆ Stereo RCA audio inputs accommodate external audio sources, like CD players or tape decks, to be routed through an audio system so you can practice with recorded music.

◆ 16 fast trigger inputs for drummers using electronic pads or triggered acoustic drums.

ALESIS

QS6.2 • QS8.2

64 Voice Expandable Synthesizer

Alesis introduced the QS8 in 1996, and shattered the price barrier for professional 88-note keyboards. Normal working musicians, and those just aspiring to work more, could suddenly afford a no-compromise instrument for a very compromising price, and this tradition continues with the QS6.2 and QS8.2. Featuring serious sounds for serious players, the QS synths are loaded with stunning pianos and keyboards, a soup-to-nuts collection of orchestral instruments, killer drum and percussion kits, and enough amazing synth textures, fat basses, and sizzling leads to keep dance musicians and remixers grooving into the next time zone. A deep programmable synth architecture and four-bus effects processor add the finishing touches. And a wide variety of fresh samples are available from our extensive QCard library. Whether you need an 88-note workhorse or a do-it-all synth, the QS8.2 and QS6.2 keep your fingers flying for a down-to-earth price.

features

- ◆ QS8.2 features an 88-key, fully-weighted hammer-action keyboard with velocity and release velocity.
- ◆ QS6.2 has a 61-key synth-action keyboard with velocity, release velocity, and aftertouch
- ◆ Pitch and modulation wheels as well as four user definable edit/control sliders are provided for controlling synth and effects parameters in realtime.

Sounds

- ◆ 16MB of internal wave memory, expandable to 24MB via PCMCIA Q cards.
- ◆ 16-bit linear 48kHz samples
- ◆ 640 Programs (512 preset, 128 user) including Alesis' acclaimed Stereo Grand Piano, and 500 multimbral mixes (400 preset, 100 user).
- ◆ To make it easier to find a desired program, they are organized into 11 categories based on instrument type: Pianos, Chromatic, Organ, Guitar, Bass, Strings, Brass, Winds, Synth, Rhythm/FX, Drums/Percussion

QS Composite Synthesis

- ◆ True 64-voice polyphony and 16 multitimbral parts.
- ◆ Sweepable lowpass filter, 3 envelope generators, 3 LFOs and programmable effects send per voice along with user defined modulation routings.

QS Parallel Matrix Effects

- ◆ The powerful built-in 4-bus digital multi-effects processor is capable of generating a variety of effects for adding spaciousness, presence or even mutate sounds including: reverb, chorus, distortion, EQ, delay, rotary speaker simulation, and more.

Mix Mode

- ◆ Mix Mode allows you to access up to 16 different Programs at once from the keyboard or an external sequencer. Each of the 16 parts can have its own level, panning, transpositions and effect send settings.
- ◆ You can use Mix Mode to create complex layers and/or splits. Example you can create a lush piano, string layer or create a split with an acoustic bass on the left side of the keyboard with an organ on the right side.
- ◆ You can also use Mix Mode to receive data on 16 MIDI channels simultaneously from an external sequencer, with each channel representing a different instrument.

Inputs and Outputs

- ◆ Stereo L/R 1/4˝ outputs using 24-bit 128x oversampling delta-sigma Digital to Analog converters.
- ◆ 1/4˝ Stereo headphone output
- ◆ Assignable aux pedal, sustain pedal inputs.
- ◆ MIDI in, out, and thru connectors
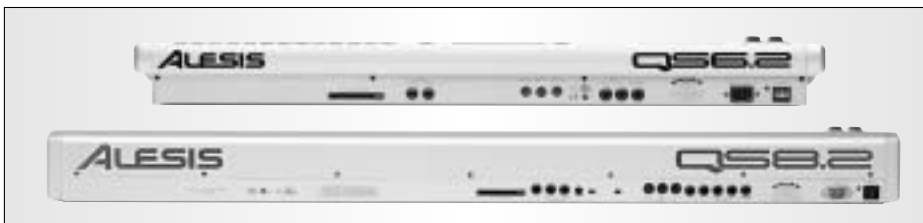
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QS6.2 • QS8.2

Expansion

◆ A QCard expansion slot, compatible with Type I PCMCIA SRAM and flash cards, allows you to add 8MB of additional samples and programs from Alesis' comprehensive QCard library.

◆ The programs in each QCard employs 16-bit, 48kHz uncompressed digital samples for exceptional clarity, dynamics and detail. Each 8 megabyte QCard also offers 100% plug-and-play convenience and can be used with any expandable Alesis synthesizer.

Sound Bridge

◆ Sound Bridge is a free (downloadable) software application for the Mac and PC that allows you to download your own sequences, Program Banks, and samples (.AIF, .AIFF, .SD, and .WAV) from your computer into a Flash card plugged into the QS. All you need is a Flash card and a computer with a MIDI interface.

Available QCards

Stereo Jazz Piano – featuring multisamples taken from a renowned concert grand favored by top jazz players everywhere.

Stereo Classical Piano – captures the rich, authentic tone of a world-class grand piano. It's ideal for any musical style that demands superb piano sound.

Latin –vibrant sounds and rhythms, ranging from traditional to contemporary including Tex-Mex, Tejano, Salsa, Merengue, Samba, and muc more

Classical – a collection of authentic classical instruments including solo and ensemble strings, brass, woodwinds, percussion and much more.

Sanctuary – A wide variety of instrument, choral and special effect sounds for the creation and performance of spiritual music for churches, musicians and composers.

EuroDance – Create powerful Techno, Trance, Ambient, Industrial or House music with this awesome collection of drums, bass, noise bursts, filter sweeps and synths

Hip Hop – a cool collection of sounds for Hip-Hop, R&B, Swing, Jungle, Acid Jazz, House and other urban music styles

Vintage Synthesizers and Classic Bea Boxes – Groovy synth sounds and lo-fi drums from the dawn of the age of electronic music.

Vintage Keyboards – a collection of super-realistic sounds from the greatest keyboard instruments from the '60s, '70s and '80s including electric pianos, clavs, organs and much more.

SR-16 *Drum Machine*

The SR-16 is one of the most popular drum machines ever made. It features a great selection of 233 realistic, natural drum sounds, offered both in dry form and sampled with Alesis' renowned digital reverbs. 50 preset patterns, performed by top studio players, are provided with enough rhythmic variations to create a complete arrangement making the SR-16 an ideal companion for songwriters. Live musicians and studios will appreciate the SR-16's straight forward drum programming, 12 velocity sensitive drum pads and four outputs as well as its ability to sync to external sequencers via MIDI clock and Song Position Pointer.

Sounds

◆ 233 internal 16-bit sampled sounds many of which are stereo samples with reverb and ambience.

◆ 50 preset drum kits are provide plus you can create up to 50 of your own kits. Drum kits program changes can be made via MIDI.

◆ You can access up to 12 sounds at a time via the drum pads, and up to 120 sounds via MIDI.

◆ 16 voice polyphony

◆ Adjustable volume and pan per sound

Drum Pads

◆ 12 velocity sensitive drum pads with a Dynamic Articulation function that enables a drum sound to change its tonal content as it's played harder, adding a humanizing element to performances.

◆ There 8 loudness (velocity) levels via pads, and 127 levels via MIDI.

◆ You can sync the SR-16 to external devices via MIDI Clock and Song Position Pointer.

◆ A footswitch input allows you to access a number of functions including: start/stop, count/A/B/fill.

Pattern-Based Sequencing

◆ 96 PPQN timing resolution

◆ You can create patterns with any time signature (1-128 beats per pattern)

◆ The tempo can be set between 20-255 bpm

◆ 12,000 note capacity with 400 pattern memory locations (200 user, 200 preset) and 100 memory locations for songs.

Outputs

◆ Four 1/4˝ outputs (2 stereo pairs) with 18-bit D-A converters.

ALESIS

ION

Analog Modeling Synthesizer

The ION is a 49-key analog modeling synthesizer with a super-charged sound engine that packs eight voices of smooth, high-bandwidth analog-style punch, with three oscillators and two multi-mode filters per voice. This four-part multitimbral sound engine serves up everything from warm, round bass tones to lush pads and gritty lead sounds, making ION perfect for music styles ranging from rock to funk and the latest house, techno and trance dance styles. The ION's intuitive user interface begs to be tweaked with 30 knobs, over 70 direct-access buttons, a pitch bend wheel, and two assignable modulation wheels that provide realtime control over synth parameters. From radical filter sweeps to subtle tonal changes, everything is right at your finger tips, just like the classic analog synths of the past. The ION also has an array of onboard effects including chorus, flange, phaser, echo, distortion, fuzz, compressor and more — all developed using Alesis' legendary effects algorithms. The ION even offers a full-featured Vocoder, which can perform up to 40 bands of vocoding. Connections include four balanced analog outputs and stereo balanced analog inputs, as well as MIDI In and Out/Thru ports. A built-in switching power supply is also included.

FEATURES

- ◆ 49 velocity sensitive synth action keyboard
- ◆ Eight note polyphony and four multitimbral parts with a proprietary 500 MIPS sound engine that is capable of delivering everything from warm, round bass tones to lush pads and gritty lead sounds, perfect for a wide range of musical styles from retro rock and funk to futuristic house, techno and trance dance styles.
- ◆ 512 Preset Programs, all of which are user re-writeable

Synthesis

- ◆ 3 oscillators per voice, with continuously variable wave shapes, Sync and FM.
- ◆ 16 types of filters are available – up to two multimode filters can be used simultaneously in series, parallel, or stereo configurations.
- ◆ 2 LFOs, Sample and Hold and Arpeggiator - all Sync to MIDI Clock
- ◆ External signals can be routed via the balanced, 24-bit analog inputs where they can access the onboard filters, effects as well as a 40-band Vocoder.

Performance Friendly Interface

- ◆ Cleanly laid-out and intuitive user interface begs to be grabbed and tweaked.
- ◆ 30 infinitely adjustable, realtime control knobs - on high-resolution pots, not encoders, over 70 direct-access, backlit buttons
- ◆ Pitch bend wheel, and two assignable mod wheels.
- ◆ Large 160x160 high resolution graphic LCD provides visual feedback for a variety of operations.
- ◆ Sustain and expression pedal inputs are also provided offering even greater control capabilities.

Alesis Effects

- ◆ 4 Individual Mono/Stereo Insert Effects and Stereo Master Multi-FX Processor.
- ◆ Includes many of Alesis' renowned effects including: chorus, flange, phaser, echo, distortion, fuzz, compressor and more.
- ◆ A full-featured Vocoder provides up to 40 bands of vocoding without affecting polyphony.

Connections

- ◆ Four 1/4˝ balanced analog outputs and stereo1/4˝ balanced analog inputs all with 24-bit converters.
- ◆ 1/4˝ stereo headphone output
- ◆ MIDI In and Out/Thru ports.
- ◆ Built-in switching power supply

16-Voice Real Analog Synth

The Alesis A6 Andromeda is a real polyphonic analog synthesizer designed to uphold the legacy of classic American synthesizers. Andromeda offers a 61-note synth-weighted keyboard features velocity and aftertouch sensitivity, 16 true analog voices and 16-channel multitimbral functionality with full MIDI implementation. The keyboard's powerful voice engine includes two oscillators per voice with five waveforms each, and two sub-oscillators. To achieve the rich and resonant sound so characteristic of analog synths, Andromeda features 2-pole multimode and 4-pole lowpass classically derived resonance filters. To unleash the potential of Andromeda's true analog sound, there are 72 knobs and 144 buttons that allow real-time control of virtually every parameter. Other powerful features include MIDI-synchable LFOs, an arpeggiator and an analog-style step-sequencer. To manipulate sounds even further, Andromeda offers a high quality digital effects processor along with a dedicated analog distortion circuit. In addition to the standard pitch and mod wheels, Andromeda also has a large, multi-function ribbon controller that offers an expressive alternative for controlling real-time parameters.

FEATURES

- ◆ 61-note synth-weighted velocity sensitive keyboard with aftertouch.
- ◆ 256 internal preset programs and 128 user programs.
- ◆ 16 true analog voices and 16-channel multitimbral functionality with full MIDI implementation.

True Analog Subtractive Synthesis

- ◆ Two oscillators per voice with five waveforms each (sine, triangle, square, up saw, down saw), and two sub-oscillators.
- ◆ 2-pole multimode resonant filter and a 4-pole lowpass resonant filter per voice.
- ◆ Three MIDI-synchable LFOs each with six waveforms and three 7-stage envelopes.
- ◆ Portamento with nine slopes, and legato functions.
- ◆ Analog-Style Sequencer with 16 steps and four levels: Note, the note's Velocity, the note's Gate time (duration), and Type which selects whether a note will play or the step will be a rest.
- ◆ Up to 16 user-defined arpeggiators can be created and stored per program (one per voice).

Hands-On Interface

- ◆ 640 x 240 backlit graphic LCD display provides real world values (time, frequency, BPM, etc.) with high-resolution graphics.
- ◆ A total of 72 knobs and 144 buttons allows for real-time control during performances.
- ◆ Pitch and mod wheels are provided as well as a large ribbon controller, which offers multiple, assignable functions, and allows for greater tactile control.

Fully Progammable Effects

- ◆ Two complete effects systems are provided: the first produces a variety of analog-generated distortions (overdrive, classic fuzz box and more) and the other for producing an array of studio-quality digital effects (reverbs, delays, chorus, flanging, pitch-shifting and rotating speaker).
- ◆ The digital effects contain a number of single effects plus some very useful multi-effects where two or more single effect generators are linked.

Inputs and Outputs

- ◆ An extensive audio input/output array provides maximum routing flexibility.
- ◆ 16 mono outputs via eight 1/4″ TRS jacks — one for each of the 16 voices.
- ◆ Stereo 1/4″ main outputs
- ◆ Two 1/4″ mono aux outputs (jacks)
- ◆ 1/4″ stereo headphone output
- ◆ External audio sources can be routed to the 1/4″ analog inputs and processed via the A6's Filters and modulation sources.
- ◆ Dedicated 1/4″ Pedal/CV, Switch and Sustain jacks
- ◆ MIDI In, Out and Thru connectors

Conveniences

- ◆ An Auto-Tune function automatically tunes the 16 oscillators that may become detuned due to temperature changes.
- ◆ A card slot allows you to save and recall custom programs and mixes to a standard PCMCIA-format memory card.

E-MU

PROTEUS 2000 SERIES

Expandable Sound Modules

There are a total of six single rack space sound modules available in the Proteus family covering a wide spectrum of musical styles from Pop to HipHop and Techno to Classic Synths and Keyboards to Orchestral instruments. Each module features a powerful synth engine with 32MB of sound ROM packed with over 1000 presets, dual stereo 24-bit effects processors, an ultra-fast 32-bit processor and real-time control over an extensive range of synth parameters. In addition, each module can be further expanded by adding any of the large number of Proteus 2000 expansion -ROMS. Modules are available with either 64-note polyphony and 16 multitimbral parts or 128-note polyphony and 32 multitimbral parts allowing you to play back complex sequences with timing and expressivity that will meet the expectations of the most demanding composer and producer.

THEY ALL FEATURE

Powerful Synthesis

◆ Up to four synthesizer voices can be layered per preset making it possible to program just about any kind of sound. Layers can be switched or crossfaded using key position, velocity, real-time controllers or any modulation source.

◆ 50 different types of 2nd to 6th order deep resonant and modeling filters allow you to shape and modify the raw waveforms.

◆ 64 modulation sources are also provided including three multistage envelopes and two LFOs per layer, as well as full MIDI control over virtually every parameter.

◆ The LFOs and Envelopes can be synced to MIDI clock or to an internal tempo.

Control

◆ The digital patch bay, with 24 cords per layer, (and 12 more cords per preset) allow you connect modulation sources to up to 64 destinations in any imaginable way.

◆ Four front panel real-time controllers can be switched in three layers giving you control over 12 user-selectable parameters. The real-time knobs can also control multiple parameters at once.

◆ Virtually every synth parameter is controllable using the real-time knobs or by any internal or external control source.

Dual 24-Bit Stereo Effects

◆ 24-bit stereo effects allow you to add richness, depth and color to your sound. You can choose from over 60 different algorithms and effects can be linked to each preset or used globally.

◆ The effects section is actually two separate effects processors with control over each wet/dry mix level on four effects sends.

◆ Effects Processor "A" contains primarily ambiance algorithms like reverb and delays, while effects processor "B" contains primarily spectral algorithms such as chorus, flange, phase, distortion, and delay.

Expandability

◆ Each module has between one and three user installable expandable sound ROM sockets for adding any of fourteen available 16MB or 32MB ROM sets.

◆ You can also author your own -ROMS using the E4 Ultra sampler.

Additional Features

◆ The powerful Sound Navigator function makes it easy to find the exact sound you want from the thousands available. It's powerful, yet simple to use.

◆ 12 user-definable alternate tunings, and, of course, an extensive MIDI implementation.

Selected Models Include–

◆ Each module features either 64-note or 128-note polyphony.

◆ Modules may be outfitted with dual 1/4˝ outputs or upto six outputs and a S/PDIF digital output.

◆ Modules may also be outfitted with either 16 or 32 MIDI channels.

SuperBEATS Mode (Available in Selected Models)–

◆ **SuperBEATs Mode** is a 16-track play-only sequencer that is optimized for live performance and groove creation. It allows you to trigger, latch and unlatch synced loops and grooves from your MIDI controller.

◆ SuperBEATS compatible sound modules include dozens of special 16-part BEATS Riffs created by some of the best producers in the business.

◆ Rhythmic Pattern Generator/ Arpeggiators can play up to 16 synchronized arpeggiator patterns at once.

◆ Patterns can be edited using pattern flow commands such as: delay for 2 bars, play for 4 bars, hold for 2 beats and repeat. There are 200 factory patterns included in addition, you can program or download up to 100 user patterns.

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Proteus 2000

This powerful 128-voice expandable sound module is E-MU's first sound module to employ the ultra-fast 32-bit processor, extensive real-time controls and powerful synthesis that allows you to playback complex sequences with remarkable timing and expressivity. The versatile 32 MB Composer soundset offers you 1536 presets (1024 ROM, 512 user) with a wide and highly useful assortment of instruments covering many different styles of music. Three additional 32MB ROM slots let you add up to 96 MB of additional sounds as well as the ability to author your own custom sound -ROMS using E-MU's E4 Ultra samplers.

Proteus 1000

The Proteus 1000 is a 64 voice expandable sound module that offers the same 32 MB Composer soundset with 1536 presets (1024 ROM, 512 user) and lightning-fast processor as the Proteus 2000. Proteus 1000 also provides you with an additional 32 MB ROM slot, so you can expand your sounds using any of the available Proteus -ROMS including custom sound -ROMS using E-MU's E4 Ultra samplers.

Virtuoso 2000

The Virtuoso 2000 is a 128-voice expandable orchestral sound module with a comprehensive 64MB orchestral sound set powered by the Proteus 2000 synth engine. E-MU's sound designers spent months sampling dozens of solo and section instruments, all from the same professional symphony orchestra, to develop an orchestral ROM sound set that is second to none in realism, versatility and consistency. Meticulously crafted into 512 presets that include: violins, violas, celli, double basses, trumpets, French horns, trombones, bass trombones, tubas, Piccolos, flutes, oboes, English horn, clarinets, bass clarinets, bassoons, contra bassoons, harp, orchestral bells, tubular bells, bell trees, celeste, xylophone, marimba and percussion battery with over 20 instruments.

Orbit 3

The Orbit 3 Super Synth is a 128-voice electronica/dance sound module with a electrifying 64 MB soundset created by famed sound designer Rob Papen – well known for his work on both Access and the Waldorf synths. From fat analog synth patches to "in your face" acoustic dance kits and percussion, Orbit 3 offers fresh, diverse and eclectic dance sounds. The Orbit 3 also employs SuperBEATS mode which consists of multi-layered sequences that you can interact with to create unique performances. Using the front panel, real-time controller knobs, you can manipulate different aspects of a groove or rhythm pattern.
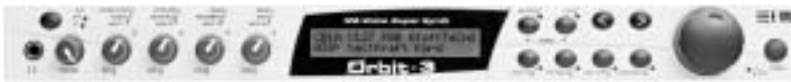
Mo'Phatt

Mo'Phatt is a 64-voice Urban Dance Synth that is loaded with the hottest Hip-Hop and R&B sounds and beats. With its 32 MB expandable soundset, 12-pole digital filters, synchable/programmable arpeggiators, and interactive SuperBEATS Mode, Mo'Phatt has become a production tool staple, found in the studios of many composers, producers and musicians. A Turbo upgrade option increases polyphony to 128 voices, and provides 4 additional outputs (6 total), a S/PDIF digital output, two additional internal ROM expansion slots and 16 additional MIDI channels. Also available with the Turbo upgrade pre-installed.

Vintage Pro

The Vintage Pro is a 128-voice retro-styled sound module with a 32 MB soundset that packs an extensive collection of sampled vintage keyboards from the 60's, 70's and 80's, as well as an assortment of samples from E-MU's B-3 module. Each of the keyboards that were sampled had its own identity, both sonically and from a design standpoint. Using samples derived from the finest vintage instruments available, the Vintage Pro is an indispensable tool for musicians from classic rock and blues purists to the latest in dance music productions.

E-MU

PROTEUS FAMILY KEYBOARDS

PK-6 – Proteus Keys

The PK-6 offers cutting-edge Proteus sounds and features in a high quality keyboard package. The 32 MB composer soundset can be expanded to 128 MB using any of the Proteus expansion ROMS available. The 16 real-time controllers allow you to tweak the PK-6's synthesis architecture and filters, giving you total performance control over your sounds. And the PK-6's 16 synchable/programmable arpeggiators and interactive Super BEATs Mode let you perform entire pieces in real-time, all in perfect unison. Together with pristine 24-bit DACs and a lightning-fast processor, the PK-6 offers professional results and playability at an incredible price.

XK-6 – Xtreme Keys

The XK-6 is a 61-key Electronica performance/production keyboard that delivers the advanced synthesis architecture and 12th order filters found in the Xtreme Lead-1 Sound Module. A host of interactive SuperBEATs, arpeggiators and effects, all synced to BPM, deliver unprecedented rhythmic control. 16 mute/enable buttons bring beats in and out of your mix on the fly, while the 12 controllers allow you to tweak filters and synth parameters in real-time. The diverse 32MB Electronica/Techno soundset features everything from cutting lead sounds to drumkits to ethereal pads, and can be expanded using any of the many Proteus expansion -ROMS available. You can even create your own custom -ROMS using E4 Ultra samplers. Whether it's your main axe or an addition to your arsenal, the XK-6 delivers total sonic satisfaction in at an amazing price.

MK-6 – Mo'Phatt Keys

The MK-6 puts Hip-Hop sounds and beats at your fingertips. Based on the sound set of Mo'Phatt, it features a fresh new collection of presets and SuperBeats, giving you hands-on control of your sounds with a host of real-time performance controllers and buttons. And keeping your grooves tight is no problem, as your synth parameters, arpeggiators and interactive SuperBEATs all lock to your master BPM. The 61-key MK-6 ships with a 32 MB soundset that has been carefully crafted by top sound designers to create the first "state-of-the-art" keyboard dedicated to Hip-Hop and R&B. Three additional internal slots accommodate all of the Proteus expansion -ROMS available (up to 128 MB total).

Vintage Keys

The Vintage Keys keyboard delivers over 30 classic keyboards in a high quality, 61-note package. The 32 MB soundset includes the legendary synth and keyboard sounds that defined music in the 60's, 70's and 80's. All sounds are optimized for the Proteus synthesis and filter architecture, and many presets were voiced side-by-side with the the original instruments, for unmatched realism. Expand your sound palette further using any Proteus expansion ROM to configure your soundset to match your individual sound requirements. Together with its 16 simultaneous, synchable arps, real-time controllers and other performance features, Vintage Keys gives you an incredible selection of classic keyboard sounds.

They All Feature

- High-performance 61-note keyboards with velocity and aftertouch.
- 64-voice polyphony and 16-part multimbral with a super-fast sound engine for tight layered sounds, arpeggiators and grooves.
- 32 MB soundset, expandable to 128 MB using any Proteus expansion -ROMS (three additional ROM slots available).
- 64 multi setups, 640 Factory and 512 User presets with up to 4 layers per preset
- Over 100 synthesis parameters per preset
- Dual 24-bit effects processor with over 70 effects parameter including a number of BPM-synced effects.
- Over 50 types of E-MU's legendary 6 and 12th order filters.
- >100 BPM/ MIDI synchronized parameters per Preset
- Use up to 16 simultaneous arpeggiators that are perfectly synced to each other

- 300 Factory and 100 User arp patterns
- Control of the number of steps (up to 32 steps) with Key, Velocity, Duration and Repeat parameters for each arpeggio.
- 2 line by 24 character LCD display
- 4 programmable real-time control knobs give you instant control over 16 synth parameters including filters.
- Interactive groove control with 16 dedicated trigger buttons
- Other controllers include: Footswitch, Foot pedal, Modulation Wheel and Pitch Wheel
- Four 1/4˝ analog outputs, with 24-bit D-to-A converters, configured as 2 stereo pairs.
- MIDI In, Out and Thru connectors
- Universal power supply: 90VAC – 260VAC at 50Hz – 60 Hz
- 40.75 width, 13.30˝ depth, 4.32˝ height (21 lbs.)

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PROTEUS 2500

128-Voice Expandable Command Module

The four rack space Proteus 2500 Command Module is E-MU's 128-voice flagship sound module with three times the processing power of the Proteus 2000, a host of real-time editing controls, a full-featured MIDI sequencer, and USB connectivity to a host computer. This latest processor, combined with high quality 24-bit analog and digital audio outputs, delivers outstanding audio quality. The Proteus 2500 ships with a 32 MB soundset that can be expanded to 128 MB using any of the fourteen Proteus Expansion - ROMS currently available. The Proteus 2500 also ships with over 100 MIDI sequences, allowing you to play and modify existing sequences as well as your own.

FEATURES

- 128 voice polyphony and 32 simultaneous internal MIDI channels.

- 32 MB soundset, 512 presets and 512 user presets, with up to four layers per preset, provides you with a versatile sound palette that includes everything from lush strings and pristine pianos to synth stabs and hip-hop scratches.

- Three internal ROM slots allows expansion to up to 128 MB of sounds using any of the 14 available Proteus expansion -ROMS as well as Flash -ROMS authored using E4 Ultra samplers.

- Over 100 synchable synthesis parameters per preset, as well as 50 of E-MU's legendary 6/12th order filters.

- The internal processor is three times more powerful than the Proteus 2000, delivering better audio performance and flawless MIDI timing of even your most massive sequences.

- Six 1/4˝ analog outputs with high quality 24-bit A-to-D converters and 24-bit coaxial S/PDIF digital output.

- One MIDI input and two MIDI outputs supports up to 32 external MIDI channels.

16 Track MIDI Sequencer

- Sixteen track sequencer with up to 16 MIDI channels per track can be used in either linear or pattern based modes.

- The sequencer's intuitive and flexible operating system allows you to select sounds, toggle between real-time, grid, and step record modes, edit parameters, and mix without ever stopping the recording process.

- 300,000 note sequencer memory with room for 512 songs and 1024 patterns

- 384 PPQN resolution

- Standard MIDI File import/export

Multi-channel Pattern Arpeggiators

- 32 simultaneous rhythm patterns or arpeggiators.

- 300 ROM and 100 User Arp Patterns

- Each arpeggio can have up to 32 steps with variable Key, Velocity, Duration, Repeat

- Arpeggiators can be saved with your sequence and can be modified in real-time using the control knobs.

Control

- Over 40 knobs and buttons deliver total hands-on control of all synth parameters (cutoff, Q, attack, delay, etc.) as well as sequencer functions (track mute, pan, volume, BPM, etc). Up to 24 modulation routing patch cords can be assigned per preset for customizing controller setups.

- Knobs and buttons can be programmed to control all of your external MIDI gear, allowing you to use the Proteus 2500 as the central control system for your studio setup and live performance rig.

24-bit Dual Effects Processor

- Two internal effects processors provide you with over 60 effects algorithms — from tempo-based delays to reverbs, distortion, chorus, flanger, phasers and more.

USB Port

- The USB port offers easy connectivity to a host computer allowing you to import and export Standard MIDI Files to and from the computer and accommodate easy software updates from the internet using E-MUs E-Loader application.

E-MU

XL-7 • MP-7

Command Stations

The XL-7 and MP-7 Command Stations are tabletop groove-oriented instruments each containing powerful multi-track sequencers and 128-voice synthesizers. Each Command Station features 128-note polyphony, a 16 track pattern based sequencer with real time, grid and step recording capabilities, 13 velocity sensitive pads, 32MB of ROM with over 1000 waveforms, three additional ROM expansion slots, digital output, and over forty performance realtime knobs, buttons and switches. The XL-7 Combines the Proteus 2000 and Xtreme Lead — ideal for High Energy Dance and Electronic music production. MP-7 Combines the Proteus 2000 and Mo-Phatt soundsets — ideal for Hip-Hop, Rap and R&B music production. The Command Stations can also function as a dynamic MIDI controller that will work with your external MIDI devices via its Sequencer, Arpeggiators, Controller Knobs, Trigger button section and Key Pad.

FEATURES

Control Surface

◆ The control surface is designed to provide quick and intuitive access to sound and sequence editing.

◆ One octave keyboard — thirteen velocity sensitive key pads (one octave) with aftertouch, transposable over a 7 oct range.

◆ 16 programmable controller knobs for accessing synth parameters (LFOs, envelopes and filters) in realtime.

◆ Center detented touch strip

◆ 2 footswitches

◆ 4 button switches

◆ Controllers can be assigned to access external MIDI gear.

◆ Controller setups can be stored into multiple multi-setups.

Sounds

◆ 32 MB sound ROM — 512 ROM and 512 User presets with up to 4 layers per preset

◆ 128-note polyphony, 16 part multitimbral

◆ 50 types of 6 & 12th order filters

◆ Expandable to 128 MB using three additional ROM slots — choose from a large selection of Proteus 2000 Sound -ROMS to enhance and increase the types of available sounds.

Interactive Sequencing

◆ 16 track per pattern sequencer with up to 16 MIDI channels per track.

◆ Realtime, Step and Grid recording modes that can be switched in realtime without interruption to your creative process.

◆ 384 PPQN timing resolution

◆ 300,000 note internal sequencer memory with up to 512 Songs and 1024 Patterns

◆ Tap Tempo control

◆ 16 internal MIDI channels, 32 external

◆ 128 factory sequences

◆ Sequence editing tools include cut, copy, paste, quantize, swing, and more.

◆ 16 dedicated Mute/Select buttons allow you to add, monitor and modify parts on the fly — perfect for remixing.

◆ Song mode allows you to chain patterns in a cue list.

◆ E-MU's E-Loader program allows you to import and export MIDI files to and from your Mac and PC with ease.

24-bit Dual Effects Processor

◆ Two internal effects processors provide you with over 60 effects algorithms — from tempo-based delays to reverbs, distortion, chorus, flanger, phasers and more.

Multi-channel Pattern Arpeggiators

◆ 32 simultaneous rhythm patterns or arpeggiators.

◆ 300 ROM and 100 User Arp Patterns

◆ Each arpeggio can have up to 32 steps with variable Key, Velocity, Duration, Repeat

◆ Arpeggiators can be saved with your sequence and can be modified in real-time using the control knobs.

Inputs and Outputs

◆ Six 1/4˝ analog outputs (configured as 3 stereo pairs) with 24-bit D-to-A converters. Outputs 3 - 6 can be configured as a stereo effects loop.

◆ Stereo S/PDIF digital output

◆ One MIDI Inputs and two MIDI Outputs

Other Features

◆ 2 line by 24 character backlit LCD display plus a 4 Digit 7 Segment LED.

◆ Optional rack ears for mounting in a standard 19-inch rack (6 rack spaces).

◆ 2 line by 24 character backlit LCD display plus a 4 Digit 7 Segment LED.

◆ 12 volt goose-neck lamp adapter

E-MU

EXPANSION -ROMS

Definitive B-3

John Novello and E-MU present the Definitive B-3, a diverse collection of tone wheel organ drawbar settings sampled direct and with rotary speakers (chorale and tremolo) to give you the most versatile and playable B-3 available!

X-Lead

X-Lead consists primarily of analog, noise and modern synthesizer waveforms, which are rich in harmonic texture and are a perfect match with the Z-plane filters in your Proteus family sound module. With the included software upgrade, you now have access to dynamic and rhythmic features not found on any other instrument.

Orchestral Sessions Vol. 1

A 32MB collection of the most realistic and comprehensive section strings — the same sounds featured in E-MU's Virtuoso2000 sound module, complete with legato, spiccato, pizzicato and tremolande samples, and includes special presets for 4 speaker applications.

Orchestral Sessions Vol. 2

A realistic and comprehensive collection of woodwinds, brass, percussion, and solo strings – the same sounds featured in E-MU's Virtuoso 2000 sound module, complete with velocity switching between p/mf/ff samples, special presets for 4 speaker applications and a percussion battery with over 20 instruments.

World Expedition

An amazing collection of traditional instruments from the four corners of the globe including exotic stringed instruments, winds, percussion, and chromatic percussion. World Expedition delivers the most realistic ethnic soundset in the world.

Siedlaczek Advanced Orchestra-Special Edition

Some of the finest orchestral samples ever from Peter Siedlaczek, one of Europe's most respected sound designers. It brings together the finest string, brass, wind and percussion ensembles of Siedlaczek's legendary Advanced Orchestra library.

Beat Garden

Dutch sound designer Rob Papen and E-MU introduce the 32 MB Beat Garden expansion ROM, a diverse palette of all-new Electronica/Dance beats, synths, basses, drumkits, acoustic and electronic percussion.

Sounds of the ZR

Sounds of the ZR faithfully reproduces the diverse sounds of ENSONIQ's popular ZR-76 keyboard, including William Coakley's Perfect Piano. You'll find everything from synths and orchestral instruments in this one soundset.

Pure Phatt

E-MU's latest Hip-Hop soundset produces the freshest and newest sounds and grooves from top notch producers from the East, Southeast and West coasts. Pumping leads and basses, silky pads and those unique hits, scratches and drones that your mix needs to bring it to the next level are ready to provide the love.

Techno Synth

Rob Papen and E-MU deliver a compilation of synth, techno, and ambient sounds from one of Europe's finest programmers. From atmospheric pads to punchy sub-basses and crunch drum loops, these sounds will help you tear up the dance floor!

Protozoa

E-MU presents the ultimate sound compilation containing presets from the groundbreaking Proteus sound modules, all optimized for your Proteus 2000's advanced synthesis and filter architecture.

Proteus Pop Collection

The bread and butter sounds of E-MU's Proteus 2500 Module and PK-6 keyboard. Provides 640 diverse presets that cover the sonic spectrum with everything from traditional keyboards and orchestral instruments to electric guitars, world percussion and drumkits.

Ensoniq Project

The sounds of Ensoniq's acclaimed Urban Dance Project and Real World collections from their legendary MR and ASR sound libraries. It features the Hip-Hop and World sounds heard on countless hits, all optimized for E-MU's powerful synthesis and filter architecture.

Vintage Collection

The 32 MB Vintage Collection delivers the keyboard sounds that defined popular music in the 60's, 70's and 80's. From tonewheel organs and suitcase pianos to analog and digital synthesizers, Vintage Collection gives you an all-in-one, no-compromise source for all your classic keyboard sounds. Meticulously sampled from the finest vintage instruments available and optimized for the powerful Proteus architecture.

E-MU

E4 Ultra Series Sampling Synthesizers

E5000 ULTRA • E5000 ULTRA Turbo

The E5000 Ultra is E-MU's most affordable E4 Ultra Series sampling Synthesizer. It offers you all access to all of the state-of-the-art features available to the powerful EOS (Emulator Operating System), lightning-fast 32-bit Risc processor and proprietary tools like Beat Munging and Z-Plane filters. In fact, with the exception of its four standard outputs, 64 voice polyphony, 2 fewer ROM slots and new LED backlit display, the E5000 Ultra features the identical hardware and software of its more expensive models of the E4 Ultra line. And with the revolutionary RFX Card option, your E5000 Ultra will push the envelope even further. Never before has Emulator technology been so affordable. The E5000 Ultra Turbo adds a 3.2GB hard drive as well as the 16MB Orbit/Phatt Sessions ROM card with 500 presets derived from E-MU's Orbit and Planet Phatt sound modules.

E6400 ULTRA

The E6400 Ultra is E-MU's 64 voice expandable sampling synthesizer that delivers professional results at an affordable price. The E6400 is perfect for the budget-minded professional, providing superior sampling and synthesis flexibility with all of the latest advances in the powerful Emulator Operating System (EOS). The E6400 Ultra is fully upgradeable to E-MU's top-of-the-line E4XT Ultra, as well as supporting the various available sound -ROMS and flash -ROMS, allowing your E6400 Ultra to grow with your needs. The E6400 Ultra features Digital Modular Synthesis (DMS), 16MB of RAM (expandable to 128MB), a 48 track sequencer and more. The E6400 Ultra offers you all the features you need to deliver unique, complex and expressive sounds no matter what style of music you create, now and in the future.

E4XT ULTRA

The E4XT Ultra is E-MU's workhorse digital sampling synthesizer, created for the world of composition, performance and sound design. Equipped with a new ultra-fast 32-bit RISC processor, 128 voice polyphony, a 4 GB hard drive and 64 MB of RAM (expandable to 128 MB), the E4XT Ultra is a professional design tool to realize any sound imaginable. The E4XT Ultra also comes with a comprehensive palette of digital audio sculpting tools like Beat-Munging and Bit Converter, EOS Link software to control the E4 Ultra from your computer desktop, 24-bit dual stereo-effects processor and the capability to author flash -ROMS for E-MU's Proteus 2000 sound module. A legend in its own time, the E4XT puts the professional tools you need at your fingertips.

E4 Ultra Series Sampling Synthesizers

Sound Storage

◆ Arrange up to 1000 samples per bank in up to 1000 presets.

◆ The SoundSprint function automatically loads presets from the hard disk as you browse through them. You can continue to play while the new preset is loading in the background.

◆ The Sound ROM option gives you 16 MB of great samples with hundreds of user programmable presets which are always on-line and ready to go.

◆ A 50-pin SCSI connector is compatible with a variety of storage devices, including external hard disks (up to 18 GB), CD--ROMS, DVD-RAM, Jaz, Zip and more.

File Compatibility

◆ Roland S-700 & AKAI 3000/1100/1000 sound library compatibility

Built-in 24-bit Digital Effects

◆ The dual 24-bit stereo effects processor allows you to add reverb and chorus effects without having to leave the digital domain.

◆ There are 76 different effects available, each with a number of controllable parameters

◆ Sounds with effects applied can easily be resampled and then saved as an entirely new sound.

Digital Modular Synthesis

◆ Access up to 128 analog-sounding filters from the 21 different 6th order Z-Plane Filters with variable, cutoff frequency and resonance controls. These Filters include:

  ❑ 12, 24, or 36 dB/octave Low-pass filters with resonance

  ❑ 2nd & 4th order High-pass filters with resonance

  ❑ 2nd & 4th order Band-pass filters with resonance

  ❑ Contrary Band-pass filter

  ❑ Three types of swept EQ filters

  ❑ Three Phasers and one Flanger with resonance

  ❑ Six powerful Morphing filters

◆ Two LFOs with variable Rate, 17 waveforms, variable Delay, Variation and Sync (key and free run)

◆ Amplifier Envelope (6 rates, 6 levels)

◆ Envelope (6 rates, 6 levels)

◆ Auxiliary Envelope (6 rates, 6 levels)

◆ The virtual Patch Cord architecture allows you to easily target the Z-Plane filters, LFOs, tuning functions, and three fully independent six segment envelope generators per sample to create any sound imaginable.

◆ You can create up to 24 Patch Cords derived from 60 sources and 60 destinations.

Advanced DSP

◆ EOS's advanced digital signal processing (DSP) features make sampling a breeze.

◆ Undo and Digital Re-Sampling functions

◆ Samples can be truncated, normalized and placed keymapped automatically. Samples can be controlled dynamically from the keyboard using velocity and positional crossfading and switching functions.

◆ Auto Correlation, Loop Compression and Crossfade Looping allow even the most difficult sounds to be looped easily.

◆ Digitally splice and mix samples with other samples.

◆ Advanced digital processing features such as Compression, Parametric EQ and Digital Tuning let you shape raw samples quickly and with greater precision than computer based systems.

Additional DSP Functions Include:

◆ **Time Compression and Expansion:** Shortens or lengthens the sample time without changing the pitch.

◆ **Pitch Change:** Changes the pitch of a sample without altering the time.

◆ **Transform Multiplication:** Creates weird and wonderful new timbres.

◆ **Aphex Aural Exciter:** Adds brilliance and sheen to your samples.

◆ **Dopplerization:** Moves samples forward and backwards in space as well as from side to side.

◆ **FIR Filters:** Non-realtime digital filters with "Ultra" high Q values and phase-linear filter response.

◆ **Bit Converter:** Removes unwanted bit resolution from your samples.

◆ **Beat Munging:** Analyzes drum loops and phrases and allows you to change tempo, time signature, swing and individual beats in real-time.

48-track Linear Sequencer

◆ The 48-track sequencer contains a host of powerful features such as high resolution cut and paste editing, quantization, data filters, and external sync capability.

◆ Tweak sequences to perfection with intuitive Copy and Paste style editing and an array of tools which allow you to: transpose, quantize, scale velocity or rechannelize tracks.

◆ Program changes, pan, initial volume, submix, tempo, controller changes and SysEx data can all be stored with the sequence.

◆ Record and save up to 50 sequences along with each EOS bank.

◆ Note capacity is dependent upon the amount of RAM installed and how much you have allocated to sequences. As an example, over 400,000 notes can be stored if you have 4 MB of preset RAM.

◆ The virtual "Jukebox" lets you link up to 7 sequences and play them back in any order.

◆ Standard MIDI files (format 0 & 1) can be read and played back direct from a DOS floppy disk and saved to a hard drive.

Arpeggiator

◆ The arpeggiator is a powerful and easy to use performance-oriented function that moves a pattern of notes sequentially over a range of the keyboard.

◆ Control is provided for tap tempo, octave extension, note value divisor as well as the note pattern (up, down, or up and down or random).

◆ Arpeggiated notes can be recorded into the sequencer and are transmitted on the MIDI Out port.

E-MU

E4 Ultra Series Sampling Synthesizers

### RFX-32
Digital Effects and Mixer Card

Take a giant step into the future of sampling and synthesis with the RFX-32 digital FX/mixer card for E-MU's E4 Ultra Series Sampling Synthesizers, and blur the line between MIDI and Audio forever. Transform your sounds at the sample level with 32-bit effects, run external signals through E-MU's patented morphing filters and synthesis architecture, and then blend and modulate them in real-time using your MIDI controller. Take total control of your sound with the RFX-32.
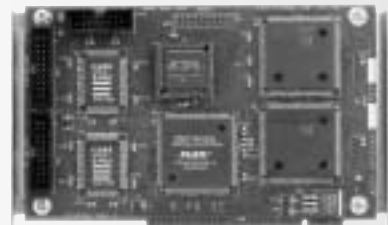
◆ 16 studio-quality 32-bit stereo effects-large effects polyphony means you can have all those specialty effects as well as plenty of fat reverbs spread across RFX's many mixing busses

◆ Multiple FX setups and routing configurations-program each sample with its own exact blend of effects (up to 4 stereo sends with amount per voice)

◆ External signal processing through FX, filter and synthesis architecture-your E4 Ultra becomes a world-class digital effects/filter/mixing system with up to 16 inputs

◆ Multi-bus resampling-blend external and internal audio with powerful effects to create new samples

◆ Perfect Live System with instant recall of multiple RFX and MIDI setups-your E4 Ultra becomes the perfect centerpiece of your live and studio rig for mixing, effects and samples

◆ MIDI synchronization of FX parameters

◆ Support for new 24-bit analog and ADAT I/O cards

6860
128 Voice Polyphony Upgrade

This kit allows you to upgrade your 64 voice E4 Ultra to 128 voices of polyphony (standard on the E4XT Ultra).

6861
16 Out/ 8 In A-DAT

This kit allows you to connect 16 channels of ADAT outputs and 8 channels of ADAT inputs.

6862
D-WAM (AES/EBU, Word Clock I/O, ASCII, additional 16 MIDI)

This daughter card upgrade for the E6400 allows you to add digital I/O, Word Clock I/O, ASCII and an additional 16 channels of MIDI to your E6400 Ultra (standard on E4XT Ultra and E-Synth Ultra).

6863
EDI (E-MU Digital Interface)

This kit allows you to add a multi-channel EDI interface to connect your E4 Ultra to EDI equipped E-MU products.

6864
R-Chip Multi-channel Studio Effects Processor

This kit allows you to add the revolutionary, multi-channel R-Chip Studio Effects Processor to your E4 Ultra.

6870
E-Synth 16 MB Sound ROM

This kit provides your E4 Ultra with 16 MB of instantly accessible samples and 500 presets that are optimized for the E4 Ultra's synthesis capabilities. The E-Synth Sound ROM features a diverse blend of both standard instruments and digital waveforms to provide you with an array of useful and cutting-edge sounds (standard on E-Synth Ultra).

6871
Orbit/ Phatt Sessions 16 MB Sound ROM

This kit is similar to the E-Synth Sound ROM with 500 funky/electronica presets, and features all of the samples from E-MU's famous Orbit and Planet Phatt sound modules.

6876
16 MB Flash ROM

This kit allows you to create your own custom 16 MB sound -ROMS that never require loading and provide you with the perfect way to take your sounds on the road. You can edit your flash -ROMS whenever needed, putting your most-used sounds at your fingertips.

6877
32 MB Flash ROM

This kit is similar to the 16 MB Flash ROM above, but offers you 32 MB of Flash memory for even more flexibility in storing your sounds.

6301
Hard Drive Mounting Kit

This kit allows you to mount an internal hard drive into your E4 Ultra (standard on the E4XT Ultra).

6313 (8 Analog Output Expander)

This kit enables you to expand your E4 Ultra's number of balanced 1/4˝ outputs from 8 to 16.

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For Any Inquiries Regarding Your Order, Call Our Customer Service:
(800) 221-5743 • (212) 239-7765 • FAX: (800) 947-2215 • (212) 239-7549

	E4XT Ultra	E6400 Ultra	E5000 Ultra	E5000 Ultra Turbo
Polyphony	128 voices	64 voices (expandable to 128)	64 voices (not expandable)	64 voices (not expandable)
RAM	64 MB (expandable to 128)	16 MB (expandable to 128)	4 MB (expandable to 128)	
Hard Drive	4.0 GB	Optional	Optional	3.2GB
MIDI Channels	32 channels	16 channels (expandable to 32)	16 channels (expandable to 32)	16 channels (expandable to 32)
RFX-32 Effects Mixing System	Optional	Optional	Optional	Optional
Stereo-Effects Processor	24-bit	24-bit	24-bit	24-bit
Balanced Analog Outputs	8 (expandable to 16)	8 (expandable to 16)	4 (expandable to 12)	4 (expandable to 12)
Word Clock & AES/EBU I/O	Standard	Optional (with Option 6862)	Optional (with Option 6862)	Optional (with Option 6862)
ADAT	Optional	Optional	Optional	Optional
RISC Processor	Ultra-fast 32-bit	Ultra-fast 32-bit	Ultra-fast 32-bit	Ultra-fast 32-bit
EOS 4.61 Software	Standard	Standard	Standard	Standard
Included CD--ROMS	9	9	2	2
16 MB Internal Sound ROM	Optional	Optional	Optional	Orbit/Phatt Sessions
6860 128 Voice Polyphony	Standard	Optional	Not Available	Not Available
6861 16 Out/8 In ADAT	Optional	Optional	Optional	Optional
6862 D-WAM	Standard	Optional	Optional	Optional
6865 2nd SCSI Port	Optional	Optional	Optional	Optional
6870 E-Synth 16MB Sound ROM	Optional	Optional	Optional	Optional
6871 Orbit/Phatt 16MB Sound ROM	Optional	Optional	Optional	Standard
6876 16MB Flash ROM	Optional	Optional	Optional	Optional
6301 (for SCSI drives)	Not Available	Optional	Optional	Optional
6303 (for IDE drives)	Standard	Optional	Optional	Optional
6313 8 Analog Output Expander	Optional	Optional	Optional	Optional
6864 RFX-32	Optional	Optional	Optional	Optional
6866 16 out/8 in 24-bit ADAT	Optional (requires RFX)	Optional (requires RFX)	Optional (requires RFX)	Optional (requires RFX)
6867 8 24-bit Output Expander	Optional (requires RFX)	Optional (requires RFX)	Optional (requires RFX)	Optional (requires RFX)
6868 4 24-bit Input Expander	Optional (requires RFX)	Optional (requires RFX)	Optional (requires RFX)	Optional (requires RFX)

Technical Specifications

Presets:	2000 (1000 Ram, 1000 Internal/Flash)
Layers:	32
Zones:	255
Crossfade/Switch zones:	128
Sound Memory:	expandable to 128 MB; 72-pin simms (RAM, Flash or ROM)
Data Encoding:	20-bits
Signal to Noise:	105db
Frequency Response:	20Hz-20kHz ±1db
THD + Noise:	.044%
Power Consumption:	<50 watts
Voltage Input:	100-250 VAC, 50/60Hz. auto select
Maximum Output Level:	+10 dBv
Output Sample Rate:	44.1Khz, 48Khz
Analog Inputs/Outputs	Balanced Stereo 1/4˝
Digital Inputs/Outputs	AES/EBU (optional for E6400, E5000), Optional 16 out/ 8 in ADAT card

KORG

TRITON LE 61 • TRITON LE 76 • TRITON LE 88

Music Workstations

The TRITON Le inherits the main functionality of the "classic" TRITON music workstations within a streamlined and cost-effective package. There are three TRITON Le models available: the 61-key TRITON Le 61 and the 76-key TRITON Le 76 both featuring synth action keyboards; and the 88-key TRITON Le 88 which employs a piano weighted, graded hammer action. Featuring Korg's HI (Hyper Integrated) synthesis technology, TRITON Le provides 62-voice polyphony. The 61-key and 76-key TRITON Le models offer a robust 32MB of PCM ROM that provide numerous classic TRITON Programs and Combinations, along with a host of cutting-edge sounds geared toward electronic music. The TRITON Le 88 adds an additional 16MB piano-based ROM samples. The user-installable EXB-SMPL Sampling option adds two mic/line audio inputs, SCSI, and supports 16-bit 48kHz linear mono/stereo sampling along with the sophisticated sample waveform editing functions you'd expect to find in a dedicated sampler.

FEATURES

TRITON Sound Data

◆ 512 Programs (448 factory and 64 user) and 24 drum kits are available in internal memory. 128 programs and 9 drum kits are also included for GM compatibility.

◆ Programs and drum kits are derived from 32 MegaBytes of internal PCM ROM using Korg's HI (Hyper Integrated) synthesis system and high-quality 48 kHz sampling. These samples are divided among 425 multisamples and 413 drum samples and cover a broad range of instruments from piano, guitar, brass, strings and tuned percussion to cutting modern synth sounds. The Triton Le 88 uses 48 Mbyte of PCM ROM and 429 multisounds.

◆ There are also 384 Combis available each comprised of up to eight Programs that can be layered, velocity layered and split. Combinations are a great way of creating rich textures and for configuring complex live performance setups.

◆ 62 note polyphony in single oscillator mode and 32 note polyphony in double oscillator mode.

Studio Quality Effects

◆ There are a total of four independent studio quality effects processors available, based on 89 effects types, including one stereo insert effect, two master effects and a master 3-band EQ.

◆ Effects types include: filter and dynamics effects, such as EQ and compressor; Pitch and phase modulation effects, such as chorus, phaser, rotary speaker and pitch shifter; early reflection, delay effects and reverbs; as well as a number of mono and mono-chain effects in which two mono effects are connected in series.

◆ Each effect is fully editable and many of the effect's parameters can be controlled in realtime.

◆ The BPM/MIDI SYNC function allows you to synchronize the modulation/delay time of effects to the internal or external tempo. You can specify each delay time as a note value, easily setting up rhythms that will follow any changes that occur in the tempo of the arpeggiator, sequencer or external MIDI clock.

Full-featured 16-track Sequencer

◆ The 16 track / 16 part multitimbral sequencer features a 200,000 note/event, 200 song capacity and offers the flexibility to record in real or step time.

◆ The Cue List allows you to assemble your song from separate elements (Intro, Verse, Chorus, Bridge, etc.), and even convert them back into a single song for further recording or editing.

◆ 150 preset drum patterns and 100 user patterns are provided.

◆ Track Looping lets you play back specified measures of a track as a loop.

◆ The Template Song function provides 16 presets and 16 user template memories containing program and effect setups appropriate for various styles of music.

◆ Sequence data can be saved as SMF format 0 or 1, making it simple for you to exchange data with other sequencers.

KORG

TRITON LE

Dual Arpeggiator

◆ Two powerful polyphonic arpeggiators can be used to create intricate and expressive pitched patterns or drum grooves. One arpeggiator can be assigned within a Program, and two arpeggiators can be assigned in Combi and Sequencer modes. The arpeggiators can be synchronized to MIDI clock, internal clock and can be recorded into the internal sequencer.

◆ There are five Preset patterns (UP, DOWN, ALT1 ALT2, RANDOM) available as well as 216 User patterns.

RPPR (Realtime Pattern Play/Recording) Function

◆ The RPPR function allows you to trigger up to 74 different sequences directly from individual keys on the keyboard.
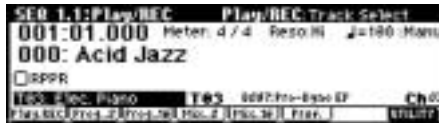
Four Outputs

◆ The sound from each oscillator, drum, timbre/track, or insertion effect can be freely assigned to the 1/4˝ L/MONO and R main stereo audio outputs or two additional individual audio outputs.

◆ MIDI In, Out and Thru connectors are provided for interfacing with external synths, samplers, sequencers, etc..

User Interface

◆ The AUDITION key allows you to preview Programs using a selection of musically-appropriate riffs while the CATEGORY key allows you to find Programs and Combis quickly and easily as well as selecting oscillator waveforms and effect algorithms.

◆ Large, backlit 240 x 64 pixel LCD display

Control

◆ A joystick allows expressive pitchbend and modulation control.

◆ Two assignable switches and four realtime control knobs allows you to apply modulation to the LFO and filters etc., control effect parameters or to control the arpeggiators.

◆ Three pedal inputs include: a dedicated damper pedal; a foot pedal input that can be assigned to continuous controller functions such as volume; and a foot switch input that can be assigned to a number of functions such as soft pedal and arpeggiator on/off.
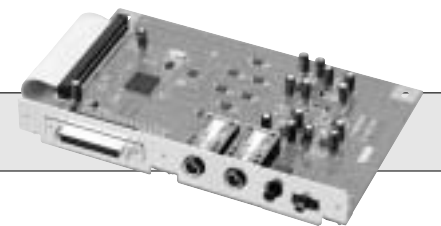
HI Synthesis

◆ HI (Hyper Integrated) synthesis is Korg's system for manipulating PCM sound data. By filtering, shaping and modulating the Triton's high-quality PCM data and then processing the result in the powered-up effect section, Triton can create richly expressive and nuanced sounds.

◆ Internal PCM samples or your own custom samples can be assigned to an oscillator, and processed via the filter, EG's and LFO sections.
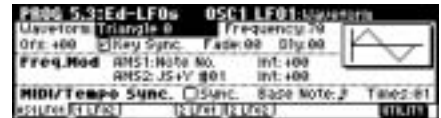
◆ Each oscillator has access to multiple filter types, including resonant, hi and low-pass, and two LFO's with a choice of 21 different LFO waveform. LFO Frequency can be linked to the sequencer or arpeggiator using MIDI or TempoSync, so that the LFO speed will follow any changes in tempo. There are also independent Pitch, Filter and Amplifier envelopes available.

◆ The HI synthesis system also lets you create sounds that have unique effects by using 42 AMS (alternate modulation) sources to apply modulation to any of 55 destinations

Memory Back-Up

◆ Internal memory (Program, Combi, Sequence and sample data) can be backed up onto SmartMedia cards (3.3V, 4MB - 128MB) or external fixed and removable drives via the optional, user-installable EXB-SMPL Sampling/SCSI upgrade board.

◆ SmartMedia cards can also be used to exchange data with your computer via the readily available adapters commonly used with digital cameras.

USER-INSTALLABLE EXB-SMPL SAMPLING UPGRADE

◆ The sampling upgrade supports 48-kHz 16-bit linear mono/stereo sampling and adds two mic/line switchable inputs with a variable gain knob as well as a SCSI interface.

◆ The EXB-SMPL Board comes standard with 16MB of SIMM memory, which allows about 2 min / 54 secs of monaural sampling, and can be expanded to a total of 64-MB using two 32MB Fast Page or EDO-compatible 72-pin SIMM modules with an access speed of 60 nsec or faster.

◆ Sophisticated waveform editing functions include Crossfade Loop, Truncate, Normalize, Time Slice, Time Stretch and Sample Rate Convert.

◆ The SCSI interface is compatible with a wide range of storage media and will allow you to access CD-ROM sound libraries including AIFF, WAVE, AKAI S1000/3000 (samples and multisamples) as well as Korg format data.

KORG

TRITON • TRITON PRO

Music Workstation / Sampler

The classic 61-key TRITON and 76-key TRITON Pro represent where the legendary TRITON series began. Employing Korg's HI (Hyper Integrated) synthesis system along with powerful sequencing, onboard sampling, built-in effects and a wide selection of user installable options, the classic TRITON series is still on the cutting of music workstation technology. Both TRITON models contain 32MB of internal PCM waveform ROM, 425 multisamples and 413 drum samples, that range from edgy dance/techno synths to real-world instruments. Both TRITONs come with the EXB-SMPL sampling board already installed and includes 16MB of RAM that can be easily upgraded to 64MB using standard 72-pin SIMMs modules. Both models also feature Korg's intuitive TouchView Graphical User Interface that will have you zipping around the TRITON's extensive programming, sequencing and performance capabilities with style and grace. The TRITONs also add an assignable ribbon controller allowing even greater expressiveness to these already inspiring synths.

All the features of the TRITON LE Plus—

◆ The internal memory is re-writable and contains 640 Programs, 512 Combinations and 64 drum kits.

◆ 256 programs and 9 drum kits are also provided for complete compatibility with the latest GM Level 2 specification.

◆ Floppy disks or an external fixed or removable SCSI drive (optional EXB-SCSI interface board required) can be used to back up this data, or to create your own data library.

Outputs

◆ Sounds can be freely assigned to the 1/4˝ stereo outputs or to any of the four 1/4˝ individual outputs.

◆ External audio sources can be routed through the sampling input and processed using insertion and master effects.

Effects Section

◆ The Effects section consists of five stereo insert effects, two master effects, a stereo three-band master EQ and a mixer that controls the routing of these effects

◆ Insertion effects can use any of the 102 available types, and the master effects can select from 89 types.

◆ In addition to standard effects like reverbs, chorus and delays, Triton has unusual effects such as stereo random filter and ring modulator.

◆ A vocoder effect is also available that can control internal sounds via the sampling input.

TouchView GUI

◆ All functions and parameters are displayed in a large and highly-visible 320 x 240 pixel screen using Korg's original TouchView Graphical User Interface that lets you perform operations smoothly just by touching the screen.

◆ A ribbon controller and an assignable slider and two assignable pedal inputs.

KORG

TRITON RACK

Expandable Sound Module / Sampler

The TRITON-Rack is a two rack space module that features the same high quality sound, effects and sampling functionality of the TRITON Workstation/Samplers with a few enhancements including an increased number of program and combination locations along with significantly more expansion and digital I/O possibilities. In Multi mode the TRITON-Rack functions as a 16-part multi-timbral tone generator with 60 voices of polyphony and offers room for up to 2,057 programs and 1,664 combinations of up to eight timbres each. To navigate this vast array of sounds, the TRITON-Rack features an Audition Riff function that can playback 382 different riffs tailored to various types of sounds. The TRITON-Rack provides room for up to eight PCM expansion boards, allowing you to expand the PCM wave memory from a very respectable 32MB to a whopping 160MB. In addition, up to 96MB of sample memory may be added via three SIMM slots. The TRITON-Rack also supports the SCSI and MOSS options that are currently available for the TRITON keyboards. The TRITON-Rack provides 60-voices of polyphony and functions as a 16-part multi-timbral tone generator that can play back tracks from an external sequencer or from the internal playback-only sequencer.

FEATURES

◆ The same powerful 48 kHz 16-bit linear mono/stereo sampler section as the TRITON keyboards, plus the ability to export samples as .WAV and AIFF files for editing samples on computer systems or use on other products, such as Korg's ELECTRIBE-S.

◆ Room for up to eight PCM expansion boards, each with their own dedicated bank for programs and combinations.

Sampling

◆ 48 kHz 16-bit linear mono/stereo sampling with visual waveform editing, Time Slice, Time Stretch, Crossfade Loop, and more.

◆ 16 MB of sample memory is included, expandable to up to 96MB using three 32 MB 72-pin SIMMs.

◆ Export samples as .WAV and AIFF files for editing samples on computer systems or for use in other products, such as Korg's ELECTRIBE-S.

◆ The optional EXB-SCSI SCSI Interface Board will allow you to load and save data on an external SCSI device, and load AKAI sample data from CD-ROM.

Multi Mode

◆ You can edit and store up to 200 Multis consisting of up to 16 programs with transposition settings along with five insert and two master effects.

◆ You can use Multis for playing back tracks from an external sequencer or the internal playback-only sequencer which supports TRITON and Standard MIDI File (Format 0 and 1) sequence data.

◆ Time-sliced pattern data, from the sampler, can be saved as MIDI data (SMF file) and loaded into an external sequencer.

Arpeggiator

◆ The dual polyphonic arpeggiator provides access to 5 preset and 328 User patterns – 200 patterns are preloaded.

User Interface

◆ 240 x 64 dot backlit LCD display

◆ Four realtime controller knobs (with 3-step selector), Arpeggiator ON/OFF key.

◆ 3.5 inch, 2DD/2HD compatible Floppy Disk Drive

Expanded TRITON Stereo Digital Multi-effects System

◆ Access up to two master effects (mono in, stereo out), 5 insert effects (stereo in / out), 1 master EQ (3-band stereo) simultaneously per multi.

◆ Choose from 102 insert and master effects types

Inputs and Outputs

◆ Six 1/4˝ outputs (two main and four individual), plus S/PDIF optical digital I/O included standard.

◆ 1/4˝ stereo headphones outputs with level control for the Main and Headphones.

◆ Two 1/4˝ mic / line switchable inputs with volume control for sampling.

◆ MIDI In, Out and Thru connectors

I/O Options

◆ EXB-DI Digital Interface Board – 6-channel ADAT optical output

◆ EXB-mLAN mLAN FireWire audio/MIDI interface

KORG

TRITON STUDIO

Workstation / Sampler

TRITON STUDIO is Korg's most advanced and expandable music workstation ever. Available in 61 and 76-key synth action versions, as well as an 88-key weighted action model, each TRITON STUDIO combines Korg's HI (Hyper Integrated) synthesis technology, effects, sampling and sequencing into what can only be described as a sonic powerhouse. The addition of an internal CD-R/W burner not only facilitates a convenient means of backing up and loading samples and sequence data, it also allows you to create an audio CD of your finished work. In addition to the original "classic" TRITON PCM ROM, TRITON STUDIO also offers 16Mbytes of ROM devoted to a stereo acoustic grand piano – resulting a total of 48Mb of internal PCM ROM. TRITON STUDIO is also the first TRITON to feature Korg's Open Sampling System, which allows direct access to sampling and resampling functionality from within the Program, Combination or Sequencing modes, as well as from the Sampling Mode.

All the features of the TRITON Plus—

- ◆ Three models are available: 61/76 note synth action and 88 note weighted action keyboards using Korg's RH2 graded hammer action.

- ◆ Ultra-powerful processor with 6 times the power of the Triton and 2 times the Karma.

- ◆ Expandable to a total 256 MB of waveform data:
  - ➢ 48 MB of PCM ROM onboard, with 429 multisamples and 417 drum samples
  - ➢ Includes a 16 MB stereo acoustic piano with two levels of velocity switching.
  - ➢ Room for up to seven PCM expansion boards

- ◆ There are 1,536 Programs (512 preloaded) and 1,536 Combinations (512 preloaded) available in user writable memory locations as well as 144 user drum Program locations (20 preloaded) — Open memory locations can be used for sounds that you edit/create, load from expansion board packages or get from other sources

- ◆ An additional 256 sounds and 9 drum kits are provided for GM2 compatibility.

- ◆ 120 note polyphony

- ◆ Expandable to up to 96 MB of sample memory (16 MB included standard)

Re-Sampling

- ◆ Resampling is possible in Program, Combination and Sequencer modes using the full functionality of each mode (filters, effects, arpeggiator, sequencer, etc.): Sample keyboard phrases in realtime; or bounce an entire mix from the 16 track sequencer to a two track .Wav file.

- ◆ The In-Track sampling function allows you sample external audio sources directly into the sequencer while your track is playing.

- ◆ Samples recorded to hard disk can be loaded into sample memory for editing and use in Programs and drumkits.

Create Audio CDs

- ◆ An optional internal CDW/R drive is available for burning audio or data CDs as well as ripping samples from audio CDs.

- ◆ A 5 GB internal hard drive is provided for backing up samples

- ◆ The internal hard drive is also available as a two track HD recorder that allows you to record live audio, or sequenced tracks onto two dedicated tracks. Audio can be recorded through onboard effects, and a number of editing functions are available.

Enhanced TouchView Graphic Interface

- ◆ The enhanced, easy-to-read 320 x 240 pixel TouchView graphical user interface is faster than ever and provides visual waveform editing for samples, a clean mixing layout for sequencing and a logical, category-based system for finding sounds, effects and even waveform data.

- ◆ 24-bit optical (S/PDIF) I/O is provided with support for both 48 kHz and 96 kHz audio sources.

KARMA

Music Workstation with Variable Performance Modeling

The KARMA is a totally unique Music Workstation that combines the sounds, effects and sequencing capabilities of Korg's award-winning TRITON with a powerful realtime performance modeling technology called KARMA. The result is a workstation that provides an unprecedented amount of user-interaction that will allow you to reach, what was once considered, unobtainable expressive control of your musical ideas. KARMA stands for Kay Algorithmic Realtime Music Architecture and is the invention of musician/programmer Stephen Kay, who has worked closely with Korg for the past seven years to integrate and further enhance KARMA's functionality. Based on the notes and chords that are played, KARMA will automatically generate and manipulate phrases and patterns that are impossible to produce with conventional arpeggiators or static pattern playback functions. KARMA can produce anything from unhuman electronic rhythms and melodic textures to acoustic emulations of harp glissandos and finger-picking and provides control over almost 400 musical elements that allow you to interact with the phrases intuitively, and to change them in ways that can range from subtle to extreme.

FEATURES

KARMA Function (Variable Performance Modeler)

◆ Karma (Kay Algorithmic Realtime Music Architecture) is a patented algorithmic MIDI data generating technology that takes input notes, chords and controller movements to generate complex and sophisticated musical phrases and effects.

◆ Phrases and patterns are produced by a GE (Generated Effect). Each GE consist of nearly 400 parameters, such as note data, rhythm development, chord structure and velocity. Of these, 16 parameters are available for realtime control.

◆ There are over 1000 types of phrase or pattern available covering a wide range of instruments, playing styles and musical genres: Create swirling cascades of complex interweaving notes, tricked-out techno arpeggios, dense rhythmic and melodic textures, natural sounding glissandos for acoustic instrument programs, guitar strumming and finger-picking simulations, to name a few. And because phrases and patterns can evolve in response to realtime controller movements, your performance will never sound "canned" or static.

Realtime Control

◆ 61 note, synth action keyboard, Karma Realtime control knobs 1-8, plus Joystick & latching controller switches.

◆ Alternate Modulation and Effect Dynamic Modulation functions allow you to freely assign modulation to parameters that affect the pitch, filter, amp, EG, LFO, and effects etc.

HI Synthesis System

◆ Includes the same HI synthesis system and 32MB of PCM wave ROM with 425 multisamples and 413 drum samples as the classic TRITON.

◆ 640 user Programs and full General Midi level 2 with 256 Programs and 9 Drumkits. 768 user programmable Combi sounds and 64 User Drumkits.

◆ 5 Stereo Insert and 2 Stereo Master Effects, with 102 different effect types available and a Master EQ section.

◆ The 16 Track Sequencer has the same capabilities as the classic TRITON with the added ability to capture the performance of KARMA phrases and patterns.

KARMA MW Software

◆ KARMA MW software allows PC and Mac users to access all internal parameters of existing GE's as well as make new ones via their computer. Kamra MW also offers the ability to import SMF phrases and grooves (from any SMF source) as well as TRITON Arpeggiator data and convert them into GE's.

Connectors

◆ Left and right 1/4˝ main outputs plus two 1/4˝ individual outs.

Options

◆ Up to two TRITON series PCM expansion boards can be installed, for a total of 64 Mbytes of waveform data. The six-voice MOSS DSP Synthesizer Board can also be installed (EXB-MOSS), allowing you to use both DSP and PCM synthesis technologies without connecting external equipment.
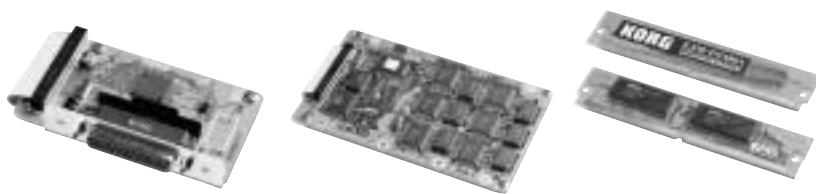
KORG

TRITON ACCESSORIES

Korg offers a variety of user-installable ROM and I/O options for enhancing your TRITON Music Workstation including a number of 16 MB PCM data boards, each consisting of high-quality PCM data and 128 programs and 128 combinations.

EXB-PCM01
Pianos / Classic Keyboards
- 128 Programs and 128 Combis, plus 16MB of sample data focusing on piano, electric piano, organs, harpsichord and other keyboard classics.

EXB-PCM02
Studio Essentials
16 MB of sample data delivering strings, brass, solo instruments, guitar and even gospel choir. 128 Programs and 128 Combis.

EXB-PCM03
Future Loop Construction
16MB of time sliced sampled grooves can be played back at any pitch or tempo. 728 RPPR grooves arranged into 18 song templates.

EXB-PCM04 Dance Extreme
Modern contemporary sounds enhance many dance genres. 16 MB highlighted by tons o' drums; Synthesizer leads, pads and basses; plus guitar and choir hits. 128 Programs & Combis

EXB-PCM05 Vintage Archives
16 MB from the glory days of analog synth provide rare classics treasures – including beat boxes, vocoders, tape-trons and more. 128 Programs & Combis

EXB-PCM06 / 07
Orchestral Collection
A 32 MB, two-board set covering every instrument and element needed to re-create a symphony orchestra.

EXB-PCM08
Concert Grand Piano
16 MB devoted to faithfully capturing the Concert Grand. 32 Programs & 64 Combis provide a variety of tonal shadings.

EXB-PCM08
Trance Attack
16 MB devoted to faithfully capturing the Concert Grand. 32 Programs & 64 Combis provide a variety of tonal shadings.

DSP Modeling Synthesizer (EXB-MOSS)
Add Korg's Multi-Oscillator Synthesis System technology to the TRITON STUDIO for more synthesis capabilities

ADAT Digital Output (EXB-DI)
Triton Studio's six channels of audio output can be sent in 24-bit 48kHz optical format. Also provides a Word Clock In for Synchronization.

mLAN Interface (EXB-mLAN)
Using a FireWire connector, the Triton Studio can be connected to other mLAN equipped devices for transmission of MIDI and digital audio data.

CDRW-1x8
CD-R/RW Rewritable CD Drive for TRITON Studio
For burning audio or data CDs and audio ripping.

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KORG

TRITON SERIES COMPARISON

	TRITON Le	Karma	TRITON	TRITON Rack	TRITON STUDIO
Polyphony	62	62	62	62	120
Processor speed	1x	3x	1x	1x	6x
Waveform memory	32	32	32	32	48
# of multisamples	425	425	425	425	429
# of drumsamples	413	413	413	413	417
PCM expansion	-	2 slots	2 slots	8 slots	7 slots
Total Program Locations	512	640	512	1664	1536
Preload Programs	448	384	128	512	512
User drumkits / Preload drumkits	24 / 16 preload	64 / 16 preload	64 / 16 preload	144 / 16 preload	144 /20 preload
GM2 Programs / GM2 Drum Kits	128 / 9	256 / 9	256 / 9	256 / 9	256 / 9
Additional Programs w/ EXB-MOSS	-	128	128	128	128
Total Combination Locations	384	768	512	1664	1536
Preload Combinations	384	384	512	512	512
Insert Effect Processors	1	5	5	5	5
# of Insert Effects	89	102	102	102	102
Master Effect Processors	2	2	2	2	2
# of Master Effects	89	89	89	89	89
Master EQ	3-band	3-band	3-band	3-band	3-band
Sequencer	16 track 200,000 note	16 track 200,000 note	16 track 200,000 note	Pattern sequencer 140,000	16 track 200,000 note
Sampling	Optional EXB-SMPL	-	standard	standard	standard
Resampling	-	-	-	-	yes
In-Track Sampling	-	-	-	-	yes
Maximum Sample RAM / SIMM slots	64 MB / 2	-	64 MB / 2	96 MB / 3	96 MB / 3
Sample to HD	-	-	-	-	Yes
Burn audio CD	-	-	-	-	Yes
Arpeggiator	Dual Polyphonic	KARMA GE System	Dual Polyphonic	Dual Polyphonic	Dual Polyphonic
Arp patterns: Preset/User/Preload	5 / 216User (200 preload)	1190 GE (V2 +300 User)	5 / 232 User (180 preload)	5 / 328 User (200 preload)	5 / 507 User (367 preload)
Display	240 x 64 pixel	240 x 64 pixel	TouchView 320 x 240	240 x 64 pixel	TouchView 320 x 240
Ribbon	-	-	Yes	-	Yes
Assignable knobs	4	4	4	4	4
Assignable switches	2	2	2	-	2
# of Audio Outputs	4	4	6	6	6
# of inputs	2 with EXB-SMPL option	-	2	2	2
SCSI	part of EXB-SMPL option	-	EXB-SCSI option	EXB-SCSI option	standard
S/PDIF digital I/O	-	-	-	standard	standard
ADAT optical output	-	-	-	optional	optional
mLan digital I/O	-	-	-	optional	optional
EXB-MOSS	-	optional	optional	optional	optional
Floppy drive	-	Yes	Yes	Yes	Yes
Internal Hard Drive	-	-	-	-	5 GB
Smartmedia slot	Yes (128 MB)	-	-	-	-
CDR/W bay	-	-	-	-	Yes, optional CDRW-1x8
Keyboard type	Fatar	Fatar	Yamaha	-	Yamaha (Korg/Fatar f/88)
Keyboard sizes	61, 76	61	61, 76, 88	-	61, 76, 88
Power supply	external	external	internal	external	internal

MIDI EQUIPMENT

1219

KORG

## MS2000 & MS2000R

Analog Modeling Synthesizers

The MS2000 44-note velocity keyboard and the MS2000R 4U rack-mount are analog modeling synthesizers that use the latest DSP technology to recreate the coveted analog sounds and hands-on functionality of Korg's classic MS20 analog synth, VC-10 vocoder and SQ10 analog sequencer. All major sound creation parameters are available on the front panel, with 35 dedicated knobs providing the ability to create and manipulate sounds in real-time. MS voices are built around two multi-waveform oscillators and a noise generator and have access to four types of analog-style filters, dual ADSR envelopes and two MIDI-synchable LFOs along with dedicated volume, pan and distortion controls. The Korg MS2000 is housed in a futuristic metallic blue-green body, with the keyboard version echoing traditional analog instruments with rosewood side panels. The rack-mount MS2000R can also be used on a tabletop. Both have an angled front panel for excellent visibility and easy operation.
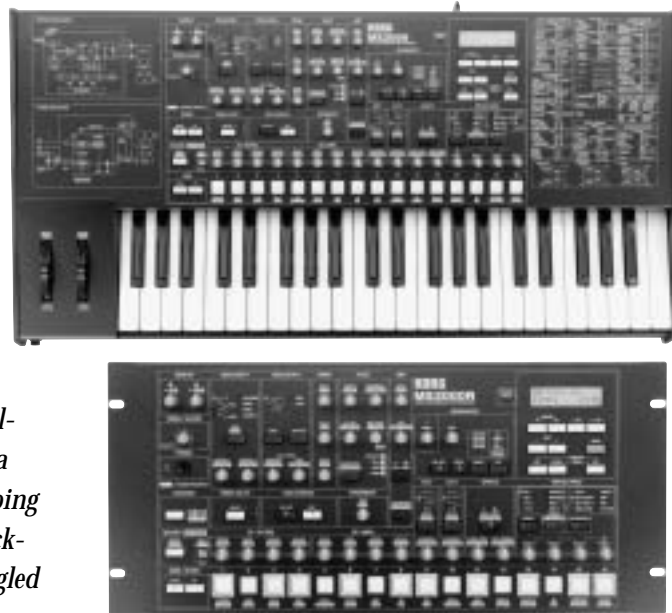
FEATURES

Hierarchy

◆ There are a total of 128 programs divided into 8 banks of 16 sounds.

◆ Each program can contain one or two timbres (4 voices total), effects and an arpeggitaor— If two timbres are used, they can be split, layered or accessed independently from different MIDI channels.

◆ Each timbre consists of Osc1, Osc2, and Noise followed by a Mixer that allows you to adjust the levels of each.

◆ The tone generator uses a DSP-powered analog modeling system based on the KORG Prophecy, Z1, and Electribe series and has been further refined to produce a wide range of sounds. From sharp, cutting leads to powerful and thick pads.

◆ After the mixer, signals are sent to the Filter, Amp, EGs (envelope), LFO, Virtual Patch, and a Mod Sequence.

◆ All major sound creation parameters are available on the front panel, with 35 dedicated knobs providing the ability to create and manipulate sounds in real-time.

OSC1/OSC2/NOISE

◆ OSC1 allows you to select from eight different oscillator algorithms, including basic analog synth waveforms such as SAW and PWM, Cross Modulation, and 64 DWGS (Digital Waveform Generator System) used on the Korg DW-8000 synthesizer.

◆ OSC2 allows you to select from three types of oscillator algorithms: SAW, SQU, and TRI. It can also be used as a modulator oscillator for the Sync or Ring modulation characteristic of analog synthesizers.

◆ You can also mix NOISE into the signal.

◆ There are a total of 70 possible waveforms which can be "wave-sequenced" using the Mod Sequencer.

◆ All of the analog-modeled waveforms include modulation/shaping to help recreate the sound of pulse width modulation as well as generating frequency modulation from the Cross Wave.

◆ Oscillator 1 can be linked to Oscillator 2 for Ring Mod and Sync timbres

◆ External audio signals can even be used as a waveform, and processed and modified with filter, effects, and parameters

Mixer

◆ The mixer section allows you adjust the levels of OSC1, OSC2 and NOISE, and send the combined signal to the Filter section

Filter Section

◆ Four filter types are available: 12 and 24 dB low-pass as well as band pass and high pass, each with variable resonance that can be adjusted into self-oscillation

AMP Section

◆ In addition to volume and pan controls for each timbre, the amp section provides a Distortion on/off setting so that even soft sounds can be transformed into aggressive solo parts.

Envelope / LFO Section

◆ Dual ADSR envelope generators and two four-waveform MIDI-synchable LFOs provide flexible sound shaping control

MS2000 & MS2000R

Mod Sequence

◆ The Mod Sequence function allows you to apply time-variant changes to sound parameters in a way similar to varying the control voltage on an analog synthesizer.

◆ Each timbre can have up to three sequences with up to 16 steps each.

◆ Sixteen knobs on the front panel allow you to set the value for each of the 16 available steps. Knobs can be operated in realtime, and you can record the movements of the parameter values in each step using the Motion Rec function.

◆ In addition to the 28 parameters on the front panel, you can apply time-variant change to the pitch or step length.

Inputs and Outputs

◆ Left and Right 1/4˝ line level outputs and a 1/4˝ stereo headphone output.

◆ Two 1/4˝ inputs are provided allowing you to use an external source as an waveform for the oscillator 1. Input 2 can be switched to accommodate mic or line level signals.

◆ MIDI In, Out and Thru connectors and two footswitch inputs (one switch and one pedal) are also provided.

16-band Vocoder

◆ A powerful 16-band, four voice vocoder modeled on the classic Korg VC-10 is also provided. You can use vocal, using a microphone connected to Audio In 2, or rhythm sounds as an input source.

◆ The vocoder uses two 16-bank filter sets to simulate the vocoder sounds. Original vocoder sounds can be created by shifting the filter frequency, or adjusting the level and pan of individual frequency bands.

Arpeggiator

◆ A MIDI-synchable arpeggiator is also provided with six different patterns (UP, DOWN, ALT1/2, Random and Trigger), along with adjustable gate and swing parameters.

User-Programmable Effect Section

◆ The programmable effects section provides each program with access to a modulation effect (phaser, chorus/flange and ensemble), three types of delay, and 2-band EQ.

Virtual Patch

◆ The Virtual Patch system, based on the patching capabilities of the legendary Korg PS series and MS series synthesizers, delivers an array of rich creative possibilities. It allows you to use the EGs, LFO, velocity or keyboard tracking as modulation sources to affect parameters such as pitch, noise level, and pan.

◆ You can select up to eight sources and destinations directly from the front panel.

Classic Korg Instruments
to Return in Virtual Form

*Korg has a long history in the world of synthesizers and they will now be bringing many of the classic, discontinued instruments back to life for digital studios in the form of virtual instruments - the **Korg Legacy Collection**. Korg uses Component Modeling Technology (CMT), to model the components that make up the signal chains of the instruments and how they interact in the original hardware instruments.*

*Currently, Korg has only confirmed that they will be producing virtual instrument versions for three of their synths: the **MS-20**, **Polysix**, and **Wavestation**.*

Others Korg models are expected to be recreated as well, however.

The plug-ins will be available for both Windows and Mac OS (VST and AudioUnit formats). Release is expected in the third quarter of this year (2003). More details will likely be released at the Summer NAMM show in July.

Korg has created a special preview section on their web site, currently offering a video summary with an audio track produced with preliminary versions of the Legacy Collection instruments.

KORG

microKORG

Analog Modeled Synth/Vocoder

The microKORG delivers state-of-the-art analog modeling and multi-band vocoding in a compact, portable instrument. With 37 keys and 128 user-rewritable programs, the microKORG Synthesizer/Vocoder is perfect for any performer, producer, computer musician or beginner looking for an affordable synthesizer. The microKORG offers you the quality sounds and features you expect from Korg at a price that will astound you. The microKORG's compact size is perfect for the musician or DJ looking to add a portable synth to their setup. It's also a great choice for use in a computer-based music setup. And because the microKORG will run on battery power, it is the perfect choice for using with your laptop computer. The beige-gold body, wooden side panels and retro-influenced design, the microKORG has a look that's both vintage and funky.

FEATURES

Powerful Synthesis

◆ 128 great-sounding presets, including 16 vocoder programs are available covering a wide range of contemporary and vintage musical styles.

◆ The same dual-oscillator DSP synthesis engine, arpeggiator, and effects found in Korg's critically acclaimed MS2000 and offers a wider selection of waveforms than any other modeled synth.

◆ Multi-Mode resonant filter, two ADSR envelope generators and two MIDI-synchable LFOs.

◆ The Virtual Patch matrix allows you to create advanced modulation settings, providing an unprecedented level of control over synth parameters at this price range: route the Mod Wheel to control filter cutoff or pulse width; use an LFO to control panning or amp level, etc.

Classic Vocoding

◆ An 8-band vocoder including its own microphone.

◆ The voice formant capture function allows you to "freeze" the formants of your voice, and then play it across the keyboard, or shift the formant frequency to make your voice sound male, female, or childlike, etc.

An Ideal Compact MIDI Controller

◆ 37-note velocity-sensitive mini-keyboard with Pitch Bend and Modulation wheels.

◆ All editing parameters are located on the panel for easy access to any function.

◆ A large dial and LED illuminated buttons provide easy program selection even on a dark stage.

◆ Five realtime knobs on the front panel that not only provide flexible realtime control over filter cutoff, attack, release and other important parameters. The knobs can be used to transmit MIDI CC messages for controlling both hardware and software synthesizers.

Audio and MIDI I/O

◆ Two external audio input jacks permit you to run other instruments, CDs and more through the microKORG's filter and effects. This allows you to process sounds in creative ways.

◆ 1/4˝ left and right outputs as well as a 1/4˝ stereo headphone output.

◆ MIDI In, Out and Thru connectors

KP-2 KAOSS PAD

Dynamic Effect/Controller

The KP-2 is Korg's second generation KAOSS PAD, an innovative sound manipulation tool hat has become a must-have item for the cutting-edge DJ and remix artist. Using the concept of "the effect processor as musical instrument", the KP-2 allow real-time control over digital effects processing for any audio source (records, CDs, samplers, keyboards, voice). The KP-2 puts 100 killer effects, along with synthesizer and sampling functions, quite literally, at your finger tips – an unique X-Y Touch Pad allows you to control effects parameters with the touch (or sweep) of a finger. A wide variety of functions are provided to augment the X-Y pads realtime capabilities including; input mute (Transform), Pad Notion record/ playback, effect Hold and more. Plus, MIDI I/O allows the KP-2 to control or be controlled from external sources. The KP-2's compact size allows it to be easily integrated in to your studio or DJ rig.

FEATURES

Realtime Control

◆ The Touch Pad controller provides unique and intuitive ways of manipulating effects using your fingertip.

◆ The Pad Motion function lets you record and playback complex finger movements on the touch pad.

◆ The Hold switch lets you freeze the effect setting at the current location of the X-Y pad. The effects depth knob allows you to adjust the exact mix of effects desired.

◆ A Mute function, aka "Transform" in DJ speak, allows you to cut off the incoming signal leaving the effect's "tail" or gate the input to create interesting rhythms.

◆ MIDI IN/OUT is provided, letting you control the KP2's effects via MIDI IN from an external sequencer.

◆ The color of the pad changes dramatically according to your finger position and the type of effect (delay or reverb, etc.), adding an even greater impact and visual feedback during performances.

◆ 100 different effect programs can be easily selected by turning a knob, and can be assigned to any of eight programmable buttons for immediate recall.

Effects

◆ 13 effects types including: Filter, Isolator, Distortion, Wah, Talking Modulator, Flanger, Vibrato, Tremolo, Slicer, Auto Pan, Phaser, Pitch Shift, Delay, Ping-Pong Delay, Tape Echo, Multi Tap Delay, Reverb, Gate Reverb, Reverse Delay, Ring Modulator, Broken Modulator.

Sampling

◆ You can sample any incoming audio (up to 6 seconds each at 44.1 kHz) onto two sample playback keys.

◆ You can sample through the effects, play a sample through a new effect, or even resample a sound through effects.

◆ Samples can be modified using a variety of effects (such as time stretch, reverse playback, loop time modulation and pitch change). This is ideal for integrating sampled effects into a live performance situation or create sound material for further sampling.

Synthesis

◆ A wide variety of cool analog modeling synth and drum sounds, drum patterns, slicer, vocoder and other essential DJ effects are also provided.

BPM Control

◆ The BPM function allows effects to be synchronized to the tempo of the music.

◆ The Auto BPM function can detect the tempo from an incoming audio source or MIDI Clock.

◆ BPM can also be set using the Tap tempo button.

Inputs and Outputs

◆ Independent stereo RCA Line and Phono inputs and a 1/4˝ Mic input

◆ Stereo RCA line outputs

◆ 1/4˝ TRS stereo headphone output with volume control

◆ 20 bit linear A-to-D and D-to-A converters

◆ MIDI In and Out connectors allow you to use the KP-2 as both a MIDI controller for synths, samplers, effects or other external devices and as a unique, MIDI controlled effects processor/sampler for sequencing and remixing applications.

◆ Includes DC12V AC adapter and Touch panel protection sheet.

◆ The compact size (8.03˝ W x 8.15˝ D x 1.89˝ H)

KORG

ELECTRIBE–A

Analog Modeling Synth

The ELECTRIBE·A (EA-1) is a compact tabletop analog modeling synth with an onboard sequencer and a host of realtime controllers designed to allow you to create and record phat analog synthesizer, bass, and sound effect sounds. Operation is easy and intuitive because the results of tweaking any of the realtime knobs is reflected immediately in the sound. The sounds you create on this compact synthesizer can be input to the internal sequencer to create phrases. The ELECTRIBE·A's high quality sound is descendant from the DSP synthesis technologies used on the Z1 and Trinity V3 MOSS synthesizer engines, as well as the legendary Prophecy synthesizer platforms. Having produced classic analog synthesizers such as the "Mini Korg 700," the "PS series," and the "MS series," Korg has a long history of analog sound creation experience. And with that heritage, Korg's ELECTRIBE·A provides the ultimate in analog modeling to give you the richest, most versatile analog-style sounds that are sure to inspire today's electronic dance music artists- from DJs to remixers to producers.
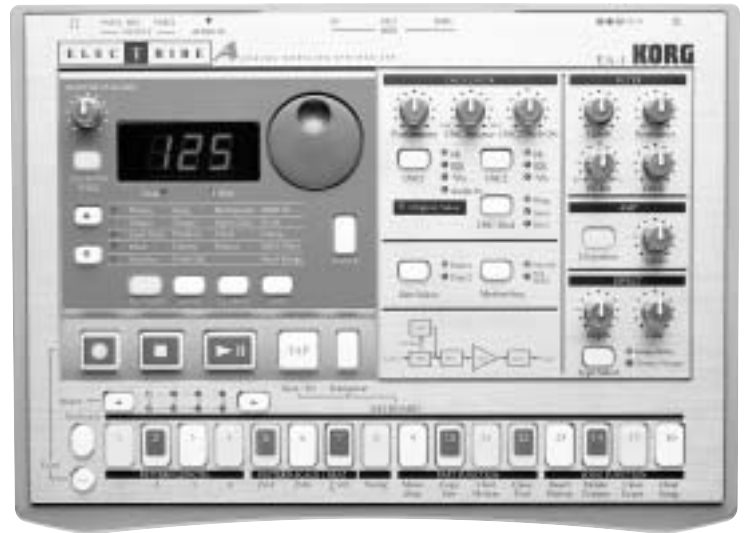
FEATURES

◆ Two tone generators (or parts) based on the analog modeling technology made famous on Korg's "Prophecy" and "Z1" synthesizers generate the warm, fat tone and rich distortion that make analog sounds stand out.

◆ Each of the two parts has access to two VCOs (Voltage Controlled Oscillator) with a choice of Saw, Triangle and Square waveforms, and a VCF (Voltage Controlled Filter) with variable cutoff, resonance and envelope controls.

◆ Oscillators can be further modulated using Ring Modulation, oscillator Sync, or the Decimator effect.

◆ Realtime controllable distortion, delay, and chorus/flanger effects are provided for each part.

Motion Sequence Function

◆ You can control volume dynamics and filter cutoff of sounds or patterns in realtime using dedicated control knobs. These movements can be recorded into the sequencer allowing you to create continuously evolving variations to the sounds.

Step Sequencing

◆ The onboard sequencer uses a 16 step-grid interface, with 16 step keys, that allows you to create two-part sequenced patterns using the two onboard analog modeling tone generators.

◆ The pad keys can be played as a pitched keyboard in either step or real time. Pad keys light up so you can easily see what rhythm a part is programmed to play.

◆ Phrases can be stored as a pattern that can be from one to four measures long and include a chosen knob movement as well as an accent function.

◆ There's room for creating 256 patterns, each with its own tones programmed as well as the sequences recorded.

◆ You can create up to 16 songs consisting of multiple patterns.

◆ You can also assign different patterns to each of the sixteen step keys allowing you to quickly switch between different patterns during live performance.

◆ Each step of the pattern can be set to pass or gate the audio input, so rhythm patterns can be programmed to synchronize the gating of the audio in time with the rest of the pattern.

◆ Tap Tempo allows you to synchronize with a turntable.

Inputs and Outputs

◆ Left and right 1/4˝ outputs and a 1/4˝ stereo headphone output.

◆ A 1/4˝ audio input allows you to process an external audio source through the resonant filter or effects knobs, and then sync them to your sequence. using the step-grid interface.

◆ MIDI In Out and Thru connectors allow you to use the Electribe units as tone generators. They also output note and controller information as well as MIDI clock for synchronization with other MIDI gear including other Electribe units.

ELECTRIBE–R

Analog Modeling Rhythm Synthesizer

Korg has harnessed its 35 plus years of rhythm programming expertise to create the ultimate analog beat machine. The ELECTRIBE*R (ER-1) combines a four-part DSP-based synthesizer with four additional PCM sound sources, providing classic hi-hat and cymbal tones. Its synth voices includes dual oscillators, waveform modulation, amp and panning parameters. Effects include low boost for booming low-end, normal or tempo delay settings and the same Motion Sequencer as its sibling, the ELECTRIBE·A. The onboard sequencer allows you to program your own custom analog-style beats using the 16 trigger pads. The combination of DSP and sampled sound sources is what gives the ER-1 its unique character - the voice is much warmer and more modulatable than other sampled-only drum boxes. And with unlimited real-time control of every sound parameter, you know your sound will be uniquely your own.

FEATURES

- Input two external audio sources and use the ELECTRIBE·R's synth parameters to process the sound.

- Input sequences into the ELECTRIBE·R and hear your results in realtime as you play the steps.

- Record Oscillator, amp or effect parameter knob movements in realtime using the "Motion sequence" function.

- Sync the ELECTRIBE·R to other MIDI devices using tap tempo or MIDI clock, or tap in the beat and sync to a turntable or other non-MIDI sound sources.

- Built-in low boost and delay effects

- Simply by tweaking the knobs you have unlimited control over all the elements that make up the sounds - like pitch, modulation depth, waveform shape and much more.

- Drop these sounds into the built-in sequencer and you've got unique rhythms with your own creative signature. And with the ELECTRIBE·R, you can hear every change you make as it happens, allowing you to mold the groove on the fly.

- You can store a total of 256 (64 x 4 banks) phrases or other patterns plus 16 songs consisting of multiple patterns, so all your beats are with you.

"Motion Sequence"

- Record the realtime movement of any of oscillator, amp or effect parameters as a Motion Sequence. Change sounds as your groove progresses in unique and expressive ways.

- Every sound or rhythm you create can be stored as a pattern that includes your knob movements. And you can save up to 256 1 to 4-bar patterns in internal memory.

External Control

- The ELECTRIBE·R can also be controlled from an external sequencer, keyboard, or sampler to function as an analog sound rhythm tone generator, or set up to control or be controlled by

- You can also control the ELECTRIBE·R from an external sequencer or keyboard and it becomes a MIDI expansion tone generator.

Four Modeling Synths In One

- Four analog modeling tone generators, based on Korg's renowned Prophecy and Z1 synths, allow the creation of four completely different kinds of rhythm sounds that can be used simultaneously.

- Four PCM (samples are also provided that cover essential crash, open hi-hat, closed hi-hat and clap sounds.

Step And Real-Time Input

- The built-in step sequencer's 16 pad keys make it easy for you to produce rhythms from the sounds you create.

- Each pad keys lights up so you can easily see what rhythm a part is programmed to play. You can also play in beats in real-time using the 16 trigger pads.

- Four of the pads are assignable to any analog modeling sound you come up with, two are reserved for controlling sounds accessed through the audio input, and the other four permanently control the indispensable PCM sounds. So you can tailor your own custom "kits" to fit each musical situation.

KORG

ELECTRIBE–S

Rhythm Production Sampler

Korg's ELECTRIBE•S (ES-1) combines the ELECTRIBE Series easy and intuitive realtime tweaking and sequencing functions with extensive sampling, resampling, signal processing capabilities. The ELECTRIBE•S was designed to make sampling straightforward: play it, sample it and then combine samples to create rhythm patterns and grooves. The ELECTRIBE•S has 95 seconds of sampling time (mono), and can store up to 100 samples in memory at a time. In addition, the ELECTRIBE-S features a broad range of editing capabilities, allowing you to create many unusual sounds and grooves. Sounds may be sampled through any of 11 different effects. With the realtime resample function you can apply pitch, filter effects to previously recorded samples and then resample the result. Sampled sounds can be assigned to as many as ten parts, and then sequenced in real or step time. Samples can be stored and exported to your computer via readily available SmartMedia cards.

FEATURES

◆ 95 seconds of mono sampling time with room to store up to 100 samples in memory at a time.

◆ Sounds can be sampled through any of the 11 different effects, including standard reverb, chorus/flange, and distortion as well as unique effects such as the Decimator, Isolator, and Resonant Filter.

◆ Effect parameters can be edited in realtime using dedicated controller knobs and can be switched on/off for each of the ten available parts

◆ A Master tempo-synchable Delay offers a wide range of realtime rhythmic possibilities.

◆ Samples can be played in reverse with the touch of a button, or you can trigger rolls to create complex rhythmic variations.

Time Slice

◆ The Time Slice function detects the attacks of each part within a phrase, creating individual elements that can be played back independently. This allows you the flexibility of rearranging rhythm patterns or modify the the pitch or filter values of individual slices without affecting the overall loop.

Motion Sequence Function

◆ The Motion Sequence function allows you to capture realtime knob movements of pitch, filter, level and pan parameters as well as effect on/off assignments and record them as part of the rhythm pattern.

◆ An Effect Motion Sequence is also provided so you can record changes in effect parameters. A Delay Motion Sequence can be used on the overall pattern.

Sequencing

◆ Rhythms can be created by assigning sampled sounds to as many as ten parts, and then triggering them in real or step time.

◆ The step sequencer can be used to edit the pattern via 16 step-keys, which control when each sound is to play within the measure.

◆ Patterns can be from 1-4 measures long, and there are 128 pattern locations available, including 64 preloaded patterns and 54 preloaded samples.

◆ Up to 256 patterns/steps can be combined to create a song, and then stored in one of 16 internal song memories.

Real-time ReSampling

◆ The real-time resample function allows you to apply effects to previously recorded samples and then resample the result without and loss in audio quality.

◆ Pitch, filter and effects knobs can be manipulated in realtime while resampling.

◆ Incoming audio can be gated in time with a pattern for rhythmic effects and the gated audio can then be run though the Master Delay for further processing.

Smart Media Sample Storage

◆ Samples, songs and patterns can be stored on 3.3 V Smart Media ranging from 4 MB to 64 MB. You can also use Smart Media to load AIFF and WAV files of sampled data stored on computer.

The Ins and Outs

◆ Mic/Line switchable 1/4˝ stereo input with variable Gain adjustment knob.

◆ Left and right 1/4˝ outputs, and a 1/4˝ stereo headphone output.

◆ MIDI In, Out and Thru are provided for easy connection to other MIDI equipment, to create finished tracks. Power is supplied via 9V AC adapter.

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ELECTRIBE–M

Music Production Section

The ELECTRIBE•M, the next step in the evolution of Korg's ELECTRIBE series. Now you can focus on creating scorching dance tracks with one easy-to-use production tool. With powerful sounds and the same motion sequence functionality featured on other ELECTRIBE models, the ELECTRIBE•M enables you to create an entire song with a single piece of gear. Plus, its easy oper-ation and killer sounds help you to produce sophisticated music quickly and easily. With ELECTRIBE-M you have access to a huge array of sounds and phrases including 144 drum waves and 50 synth waveforms, covering the latest dance music styles such as Techno, Trance, House, 2step, Drum'n'Bass, R&B, and Big Beat, so that you can produce tracks quickly and easily. The Electribe•M features the classic 16-keypad, illuminated interface found on all Electribe dance tools. Also on-hand is Korg's unique "Motion Sequence function" that can memorize the movements of knobs used to vary the volume, panning or filter cutoff of a phrase you create. You can sync the ELECTRIBE-M with other models of the ELECTRIBE series simply by connecting a MIDI cable. You can even use the Electribe-M as a step sequencer for external tone generator modules, or connect it to a computer for running alongside another sequencing program or as a tone generator.

FEATURES

Dance Oriented Sounds and Phrases

◆ 144 drum waves include vintage kicks, snares, classic electronic tones, cymbals, hi-hats percussion and more.

◆ 50 synth waveforms cover everything from deep bass tones and vintage analog synth waves, to moving modulation timbres like sync and PWM, plus chord tones, various hits and sound effects.

◆ A variety of cutting edge patterns covering the latest dance music styles such as Techno, Trance, House, 2step, Drum'n'Bass, R&B, and Big Beat are also included giving you the leg up when producing new tracks.

Realtime Pattern Performance

◆ Realtime controller knobs and functions such as Part solo/mute let you produce a range of variations from a single pattern.

◆ Using the Pattern Set function, you can arrange up to 64 Patterns across the step keys, and then switch patterns in realtime by simply touching the keys.

Effects

◆ A variety of effects are provided for applying subtle to dramatic changes to the sound. Effects can be edited via dedicated knobs, and can be controlled by separate Motion Sequences.

◆ You can access up to two different effects simultaneously per Pattern to create a highly polished mix. Eleven different Insert effect choices are available, and you can choose to send parts individually to your selected effect or not.

◆ The eleven types of Insert effect include standards such as Reverb and Flanger, Chorus, as well as radical effects such as Decimator, Resonator, and Ring Modulator.

◆ A Master tempo-synchable Delay effect is also available.

◆ The Drive effect allows you to add a subtle presence to synth sounds to extreme and intense timbres when opened up and used in conjunction with filter resonance.

Step Sequencer

◆ The 16-keypad step sequencer, with its illu-minated interface and intuitive visual feed-back, allows you to create rhythm patterns and phrases with ease and efficiency.

◆ Each pattern can consist of up to eight drum parts and two synth parts allowing for extensive arrangement possibilities.

◆ Each pattern can be from 1-4 bars long, and each Song can hold a maximum of 256 patterns, and up to 35,700 events!

Motion Sequence Function

◆ The Motion Sequence function memorizes the movements of knobs used to manipu-late the volume, panning or filter cutoff of a phrase you create. You can record up to two Motion Sequences per Drum Part, and up to three per Synth Part.
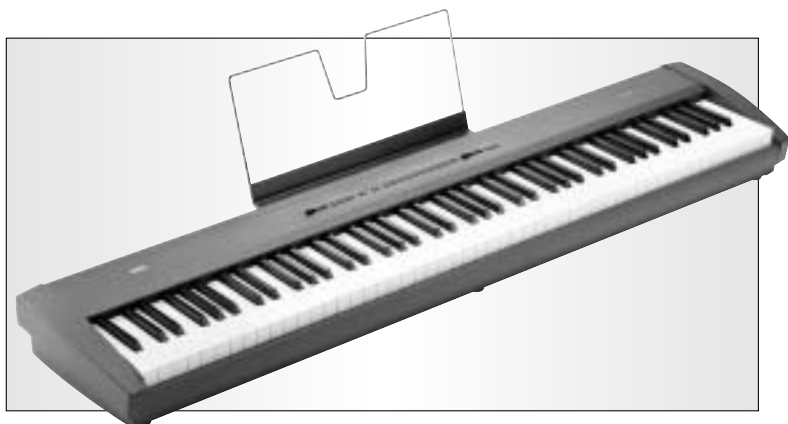
Inputs and Outputs

◆ Left and right 1/4˝ outputs, and a 1/4˝ stereo headphone output.

◆ MIDI In, Out and Thru connectors

KORG

SP-200/SP-300

88-Key Portable Digital Pianos

The SP-200 and SP-300 are slab-style stage pianos that are an answer for any pianist — from student to professional — looking for rich piano sounds in a convenient and portable package. They come equipped with an authentic-feeling 88-note hammer-action keyboard that faithfully reproduce the touch of an acoustic piano. Complementing this piano action are four full stereo and mono grand piano sounds. Three carefully tuned velocity-response curves are available so players can tailor the action of the SP-200 and SP-300 to their own playing styles. The SP-200 and SP-300 feature 30 sounds in total, including a number of Vintage 60's Electric Pianos, an Electric Grand, plus Harpsichord, Clavinet, Wah Clav, Vibraphone, Marimba, Acoustic Guitar, Jazz and Church Organs, Strings, and Choirs. All of the sounds can be played individually or in two-timbre layers. Reverb and chorus effects add spaciousness and depth to these sounds, recreating everything from a subtle chorus to a concert hall. Effects settings have been optimized for each individual sound, and the performer can choose from three levels of effect — Light, Normal, or Deep.

The Headphone output and built-in Metronome with adjustable tempo and time-signature are ideal for student use. For pro players, they provide mono and stereo outputs, and for those interested in period tunings — the addition of Kirnberger and Werckmeister Temperaments. They also offer a Transposition Function and up to 60-note polyphony. The SP-200 and SP-300 include a music stand and a sustain pedal, while the optional DS-1H pedal provides a Half-Pedal Sustain function that will meet the needs of even the most demanding pianists.

Otherwise identical, the SP-300 features a built-in amplification system consisting of a main amp and two 15-watt speakers. The SP-300 also features mono/stereo audio inputs to play external MIDI modules and other instruments through its internal speaker system. The SP-300 is housed in a sleek silver cabinet with dark cherry end pieces that fits into any décor. The optional ST-300 stand—specifically designed for use with the SP-300, has a dark cherry finish that matches the end pieces of the SP-300.

Keyboard:
88 notes, Velocity-sensitive, Hammer Action keyboard

Touch Control:
Light, Normal, Heavy

Sound Generation:
Stereo PCM System

Programs:
30 sounds in ROM

Polyphony:
60 notes maximum (the use of 2-oscillator sounds, layer mode and/or the effects reduces the maximum number of simultaneous notes)

Effects:
Reverb, Chorus (3 levels each)

Metronome:
Tempo, Time Signature, Accent and Volume controls

Tuning:
Transpose, Fine tuning, Temperament (Equal, Kirnberger, Werckmeister)

Pedal:
Damper (included). Half-pedaling supported with DS-1H (optional)
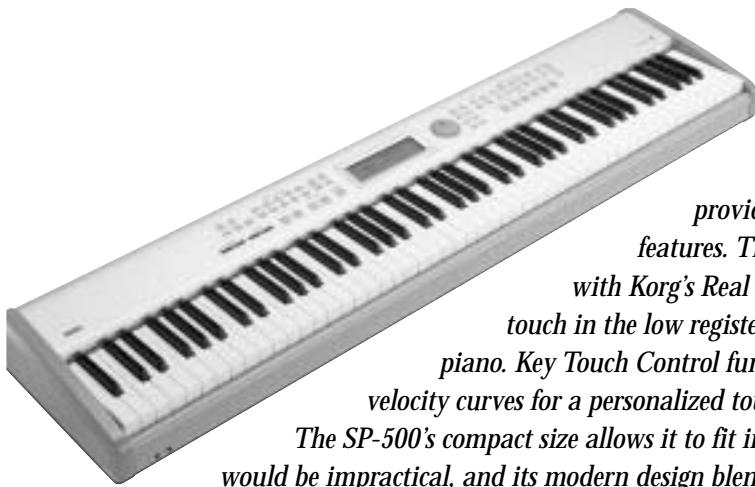
Connections:
Audio output
Headphones
MIDI
Damper

Controls:
Power switch
Master Volume
Reverb
Chorus
Touch
Sound selectors
Transpose Function
Tempo
Metronome
Demo

KORG

SP-500

88-Key Portable Digital Piano with 396 Sounds

Housed in a stylish wood and brushed metal cabinet, the SP-500 Digital Piano uses Korg's TouchView display to provide fingertip access to numerous piano and accompaniment features. The 88-key SP-500 is a "slab" style digital piano equipped with Korg's Real Weighted Hammer-Action 2 keyboard, providing a heavier touch in the low register and a lighter touch in the high register, just as on a real piano. Key Touch Control function allows the performer to select from six different velocity curves for a personalized touch.

The SP-500's compact size allows it to fit in places where a traditional piano or larger digital piano would be impractical, and its modern design blends well with any décor — from home, to church, to school.

FEATURES

◆ Highlighted by a stereo grand piano, the SP-500 is loaded with 396 sounds derived from Korg's professional synthesizers, and an ample 64 voices of polyphony. In addition to 19 different piano sounds, the SP-500 boasts an assortment of electric piano, organ, flute, sax, brass, strings, guitar, drum, and synthesizer sounds. Any two sounds can be layered together or split across the SP-500's keyboard.

◆ Two independent stereo effect processors offer up 37 different effect types, including reverb, delay, chorus, flanger, exciter, distortion, overdrive, phaser, rotary speaker, auto-pan, tremolo, and more. The amount of the effect can be easily adjusted to suit the user's taste.

◆ The SP-500 contains an advanced auto-accompaniment system with professionally produced styles that make it easy to create great-sounding ensemble performances. A wide range of Styles covering rock, pop, jazz, and other musical genres enable the SP-500 to deliver the full-sounding performance of a complete pro backup band with up to six musical parts.

◆ The Pianist Styles provide an accompaniment featuring piano-type left-hand passages that enable even novice players to sound like accomplished pianists.

◆ The sequencer features a full set of event editing and quantization tools. Realtime, step-entry and punch in/punch out record modes are also available.

◆ Comes loaded with 128 Rhythm Styles, 26 Pianist Styles, and room for 64 User Styles.

◆ GM compatible, the SP-500 can be connected to a computer or other MIDI-equipped devices for playing back song files, taking interactive music lessons, and much more.

◆ Advanced TouchView Graphical User Interface is a touch-panel LCD that lets you select or modify sounds and accompaniment styles with the touch of a finger.

◆ Eight-track internal sequencer can capture and record performances created using the accompaniment system. This unique arrangement saves all the accompaniment data down to three tracks, leaving five tracks available for overdubbing additional parts.

◆ Additional features include dual headphone outputs, audio and MIDI I/O, Key Transpose, a built-in metronome, and ten tuning temperaments.

PA60 *Professional Arranger*

Whether using the Pa60 as a songwriting station or as a back-up band, you can always be sure that its performance will be truly musical. The Pa60 combines enhanced sequencing functions, powerful performance features, comprehensive arranging tools and impeccable sound quality. Its huge, custom, backlit LCD screen displays the status of multiple features in an organized and easy-to-read manner.

◆ Relies on the same HI synth engine found in Korg's TRITON workstations. Included with its 660 sound programs is a set of very expressive solo instruments, sampled with a natural vibrato. All sounds are fully editable, and simple sound edits can be made inside the sequencer itself. Four studio-quality effect processors are available and feature 89 different effect types.

◆ Provides a huge collection of music Styles created by top musicians from around the world. Each Style provides up to eight accompaniment parts – drum, bass, percussion and more – that respond interactively with your playing. With 256 editable Styles onboard (plus 48 user Styles) the Pa60 can cover any situation.

KORG

CX-3/BX-3

Single Manual and Dual-Manual Combo Organs

For years, if you wanted the sound of a real tone-wheel organ, there was only one instrument that could deliver – until now. Korg's Combo Organs accurately and faithfully re-create that classic sound in two portable models – the single manual CX-3 and dual-manual BX-3. The original Korg CX-3 first went on sale in 1979 followed by its dual-manual sibling, the BX-3. Both went on to become favorites in their own right, and are still widely used. Now, using advanced DSP technology and painstaking attention to sound, touch and style, they have been reborn and vastly improved upon.

FEATURES

◆ DSP technology makes it possible to precisely re-create the unique sound that, until now, could only be produced by the real thing. Two different tone-wheel sounds are provided: "VINTAGE" and "CLEAN". The CX/BX-3's amazing realism even extends to such details as allowing you to add the "leakage" noise generated by the tone-wheels, and the ability to adjust their overtone levels.

◆ The CX/BX-3 feature two sets of nine drawbars that duplicate the sonic characteristics of the originals – including the proper foldback settings and harmonic distortion. Select between the presets and these two sets of "live" drawbars while performing for real organ-playing experience. An EX mode in which all 18 drawbars can be utilized as one extended palette is provided. The resulting harmonics and percussion timbres can be used to create organ sounds never before heard.

◆ One of the unique characteristics of a genuine tone-wheel organ is the percussive effect that adds a readily identifiable sound to a note's attack. The CX/BX3 re-creates that beautifully. The volume, decay rate and harmonic pitch (2nd, 3rd) of the percussion can be adjusted – and the percussion has the proper "multi-triggered-yet-monophonic" characteristic for authentic organ performance. You can even control the amount of key-click heard when you press or release a key, simulating the dirty contacts often found on older instruments.

◆ With 128 programs, the CX/BX-3 are ready to cover a wide range of musical styles including pop, hard rock, jazz, gospel, and rhythm and blues. Detailed drawbar and parameter settings are displayed, and can be easily edited and stored.

◆ Proprietary "REMS" modeling technology is applied to create effects that add further authenticity to the organ sound. The rotary speaker effect, so important to the organ experience, is recreated with total realism. You can even adjust the time required for the rotor and horn to speed up or slow down when switching speeds, or stop the rotation altogether.

◆ Three types of amp simulation are provided: a traditional rotary speaker sound, a blend of rotary and tube amp sounds, or a preamp-only signal. The amp simulations are dynamic, so your sound naturally evolves from a warm and fat sound to a natural overdrive as your volume increases. In addition, the classic vibrato and chorus settings are provided along with three types of reverb, featuring adjustable time and depth.

◆ Attention has been paid to the long-neglected aspect of keyboard response speed. The key scanning method used on the CX/BX-3 starts the sound at the first key contact, ensuring a much faster response to your playing. Notes speak more crisply, allowing glissandi, trills and "smears" to be played with total authenticity.

◆ Not limited to a vintage recreation, the CX/BX-3 is equipped with many advanced MIDI features. Every drawbar, switch and control can be transmitted as MIDI data so your performance can be perfectly captured by a sequencer. The keyboard can be set to transmit key dynamics via MIDI to an external device that can even be layered with the onboard organ sound.

◆ The BX-3 provides all these features in a dual manual model. Pitch Bend and Modulation Wheels for improved MIDI control, additional voice parameters for even more authentic sound reproduction, and a newly-designed "waterfall" keybed for absolutely authentic look and feel have all been added.

◆ Different sets of drawbars, and Chorus/ Vibrato On/Off can be assigned independently to the BX-3's UPPER and LOWER manuals, just like using a real tone-wheel organ. The single manual CX-3 gives you this functionality via a Split Mode, enabling you to play the single keyboard in two sections. Or you can plug in a second MIDI keyboard to recreate the dual manual playing experience.

◆ Drawbars, vibrato/chorus, and percussion switches are placed in the same location as on the classic tone-wheel organs, demonstrating a total commitment to tradition and playability. The sturdy wood cabinet gives them the proper vintage look, as does the BX-3's wooden stand.

KORG

C-3200/C-4500/C-6500

Concert Pianos

Korg's Concert Series piano's are housed in a stylish cabinet and come with all the essentials, including two types of piano sounds and a variety of valuable features only available from a digital piano. And with their stunningly beautiful sound, they are sure to bring years of musical enjoyment. The C-3200 and C-6500 feature a real weighted hammer action keyboard that responds to every movement of your fingers. Just like a grand piano, the keyboard has a heavier action in the lower register and lighter action as you play upward, giving you the truest piano feel possible. All three models offer a three-position key touch control that lets you select light, medium, or heavy response, so you can choose how the sound will respond to your playing dynamics. A two-track, 14,000 note sequencer lets you record two parts separately (like a backing track and a melody). This can be a convenient function to use when you are practicing or working on a new lesson.

FEATURES

◆ Three separate pedals are provided for damper, soft, and sostenuto, allowing professional-level piano performance.

◆ They also support half-pedaling, a technique where you only slightly depress the damper or soft pedals for a wide range of tonal possibilities.

◆ In addition to two grand piano sounds, they give you a total of nine sounds (six on the C-4500) including electric piano, harpsichord, organ, string, and bass, all with the same quality as on Korg's professional synthesizers. You can choose to split these across the keyboard with different sounds in the high and low ranges, or layer them for rich new sounds.

◆ They come with chorus and reverb effects that enable you to further enhance its piano and other sounds. (On the C-3200 the effects can be adjusted in three stages.). Brilliance is also adjustable in three steps to control the brightness of the sound.

◆ MIDI I/O allows connection to a synthesizer or other MIDI-equipped device. (IN addition, the C-4500 has a PC interface).

◆ Key transpose feature lets you transpose the pitch of the instrument so you can play in any key with ease.

◆ A convenient metronome function is built-in for practicing.

◆ In addition to the standard temperament, they provide two historical temperaments, Kirnberger and Werckmeister.

◆ With a maximum 64-note polyphony, you'll have plenty of notes for full piano performance even while using the sustain pedal.

◆ Utilizing Korg's world-acclaimed technology, the C-4500 and C-6500 boast beautiful, professional piano sound and feel. Their tone generator is equipped with the same HI synthesis system as best-selling Korg synthesizers, like the award-winning TRITON and KARMA workstations. With a new memory-rich, dynamic stereo-sampled piano sound, the C-4500 and C-6500 sound like a true grand piano and respond faithfully to your keyboard playing dynamics.

◆ On the C-6500, "Dynamic Stereo Sampled" piano sound actually switches between two different piano samples, one played softly and the other hard so your expressive playing is perfectly represented.

◆ Audio output jacks allow their sounds to be heard through external speakers. Or, via the audio inputs (not on the C-3200) you can plug an outside audio source and listen through their internal speakers.

◆ Their sophisticated and classic design features a brown walnut finish that looks good in any room. On the C-6500, the key cover that protects the keyboard is designed to close slowly, like a fine acoustic piano, giving an extra measure of safety in homes with small children.

New! EC-120 Concert Piano

The EC-120 is the most affordable 88-key Concert Series Piano. Using the latest sounds from Korg's professional voicing technology, the 32-voice EC-120 delivers a high-quality, spacious stereo piano sound, plus electric piano, harpsichord, vibraphone, organ and string sounds. The EC-120's full-scale keyboard provides the same feel as a traditional hammer-action acoustic piano and includes three levels of touch sensitivity.

Two pedals provide true piano performance, with the ability to switch the Sustain pedal to Sostenuto function when needed. Reverb and Chorus effects add spaciousness and color to the sounds. A built-in, 4,000 note MIDI recorder can capture and playback the user's performance for tracking progress or playing along to.Also features MIDI I/O, two headphone jacks, line inputs, and key transposition. Housed in a rich black walnut finish cabinet.

KURZWEIL

KME61

Micro Ensemble Keyboard

The KME61 offers the power and versatility of the Micro Ensemble in a 61-note keyboard. This synth action keyboard features 256 sounds from the PC2 series, including Triple Strike Stereo Piano, electric pianos, award-winning Take 6 vocals and much more. The KME61 has thirty effect combinations, with a choice of reverbs, choruses, delays and flangers. Each effect has a wet/dry mix which can be controlled per channel. The synth action of the KME61 also includes aftertouch, for a realistic playing experience. Pitch and Mod wheels give expressive control for any musician. The KME61 allows for the creation and storage of 16 multi-timbral setups, as well as customization of effects for each of the 256 sounds. KME61.

- ◆ 256 Preset programs using samples from the Kurzweil PC2 including: Stereo Triple Strike Piano, Electric Pianos, Strings, Basses, Guitars (Acoustic and Electric), Take 6 Vocals, Brass, Drums, and Percussion.
- ◆ 30 effects combinations, with a choice of reverbs, choruses, delays, and flangers. Each effects has a wet/dry mix, which can be controlled per channel. Change and store effects for each of the 256 presets.

- ◆ 32 Multi-Timbral Setups with up to 3 Zones. You can create and store up to 16 of your own Setups.
- ◆ MIDI In, Thru, Out responds on all 16 Channels
- ◆ 32 Voice Multi-Timbral Polyphony
- ◆ 20 Character x 2 line backlit LCD display with contrast knob
- ◆ Two 1/4˝ Analog Outputs

- ◆ 1/4˝ TRS Stereo Headphone output
- ◆ External Power Supply
- ◆ Pitch and Modulation wheels
- ◆ Data slider
- ◆ 1/4˝ hold pedal input (Pedal is included)
- ◆ 1/4˝ continuous pedal input
- ◆ Dimensions: 3.25˝ x 37.25˝ x 12.0˝
- ◆ Weighs 22 lbs.

Micro Essemble ME-1

In the tradition of Kurzweil's highly popular and successful Micro Piano, comes our newest half rack module, the ME-1 Micro Ensemble. This low cost module features a wide variety of piano, keyboard and synth sounds, along with strings, guitars, basses, voices, and drums - a total of 256 programs in all. The samples and synth programming is taken directly from our PC2 series instruments, including our newest stereo triple strike acoustic piano sample, and our new multi-strike electric pianos (both Rhodes and Wurlitzer). It should be noted that the KB3 Organs from the PC2 are not found in the Micro Ensemble, but the regular organ programs ARE included. The Micro Ensemble has 32 voice polyphony and is multi-timbral on all 16 MIDI channels. A Global effects processor features the same effects found in our Stage Piano series. You can choose from one of 9 different effects, along with the wet dry settings for reverb and chorus, directly from the front panel, or via MIDI (the effects are applied the same for the programs on all MIDI channels). The Micro Ensemble can also be transposed up or down up to an octave.

- ◆ 1/2 Rack Module: will fit into a regular rack with a standard 1/2 rack adapter
- ◆ MIDI: Receives on all 16 channels, In and Thru jacks
- ◆ Internal Voices: 256 programs include Grand Piano, Tine E. Piano, FM E. Piano, Ensemble Strings, Voices, Organ, Harpsichord, Clav, Vibes, Marimba, Electric Bass & Acoustic Bass (with and without layered Ride Cymbal), Acoustic Guitar, Drums, Percussion, Synth Pads.

- ◆ Polyphony: 32 voices
- ◆ Effects: 9 preset effects, featuring 8 different reverbs, plus chorus, with separate controllable wet/dry levels for reverb and chorus components.
- ◆ Outputs: 2 Analog Outputs (1/4 in. jack Left/Mono and Right), Stereo headphone out.
- ◆ Power: external power supply.

KURZWEIL

SP76 • SP88 • SP88X

Lightweight Stage Pianos for the Next Century

The SP Series Stage Pianos are the performance keyboards you've been waiting for. Well-constructed and affordable, these stage pianos have everything you need. The SP Series comes in lightweight 76 and 88 key semi-weighted action models, plus an 88 note fully weighted action model. The Stage Pianos have the award-winning Kurzweil sounds and transmit on two, user-selectable, independent MIDI channels. Put your music on stage with this new model of performance piano from Kurzweil, the leader in sound technology.

SP88X

SP76

SP88

FEATURES

- Available with 88- / 76-note Semi-weighted action keyboard, or 88-note fully weighted action keyboard
- Light weight design for easy transportation
- 32-note polyphony

MIDI Controllers

- Two Ribbons (used instead of traditional wheels) provide flexible control.
- The Pitch ribbon has a user programmable software "spring", allowing the pitch to jump back to center or remain at the value where the finger lifts off the surface.
- The Mod Ribbon also has the programmable "spring", and in addition, allows for different functions (software destinations) to be programmed for the 'up' position separately from the 'down' position.
- A front panel control slider
- Pedal inputs include a continuous control pedal input plus a 1 dual footswitch input for two pedals.

32 High Quality Programs

- The award-winning Grand Piano offers stretched and non-stretched tuned versions, and programs with different EQ.
- Dual-Hardness Tine Electric Piano offers soft and hard strike samples arranged in many program variations, FM Electric Piano is also provided in a variety of programs.
- Programs based on the Ensemble Strings include selections with different EQ's and envelope response.
- Tone Wheel Organ programs include organ w/percussion, ballad organ, jazzy organ and more.

Setups

- 32 user programmable MIDI setups, each with 2 independent zones that can be used to configure a variety of splits and layered combinations with useful controller assignments.
- 2 independent external MIDI zones + 1 internal MIDI zone

Effects

- 9 preset effects, featuring 8 different reverbs, plus chorus, with separate controllable wet/dry levels for reverb and chorus components.

Inputs and Outputs

- Two (left/right) 1/4˝ outputs
- 1/4˝ stereo headphone out
- MIDI In and Out connectors: Transmits on 2 channels, Receives on 1 channel.
- Accepts remote setup change on any MIDI channel
- 12V DC external power supply

Dimensions:

- **SP76**: 47.2 x 11.5 x 3.54˝ (27.5 lbs.)
- **SP88**: 53.3 x 11.5 x 3.54˝ (30 lbs.)
- **SP88X**: 54.8 x 14 x 4.8˝ (52 lbs.)

KURZWEIL

PC2 • PC2X

Performance Controller

Following on the design of their award winning PC88, the PC2 features outstanding sound and impressive master controller capabilities. The Easy Split and Layer feature makes it fast and easy to create quick layers and splits. The PC2 series comes in both the PC2 76 note and PC2X 88 note keyboards. The PC2 features many incredible sounds not found on any previous Kurzweil models, including a triple strike stereo grand piano, the new lush stereo strings, newly recorded multi-strike classic electric pianos (both Fender Rhodes and Wurlitzer), brass sections, drums, percussion, voices (featuring Kurzweil's outstanding Take 6 vocal samples), and more. It also features Kurzweil's KB-3 modeled tone wheel organ mode, giving you ultra-realistic tone wheel organ programs. Orchestral Sounds include String Sections, Solo Strings, Woodwinds, Orchestral Brass, Jazz Brass, Orchestral Ensembles, Choir, Organ, Harp, Nylon String Guitar, Orchestral Percussion, and Ethnic Percussion. Additional sound include mallet percussion, guitar, bass, Clavinet, harpsichord, synth sounds, and more.

FEATURES

- 4 zone MIDI controller operations with easy Split/Layer functions
- 76 note lightly weighted keyboard with mono pressure (PC2) or 88-note, two-piece weighted keyboard with mono pressure (PC2X).
- Pitch wheel, modulation wheel, 4 front panel sliders, 5 front panel switches (momentary or toggle, software selectable), 2 continuous control pedal inputs, 3 footswitch inputs, mono pressure, breath controller input, Kurzweil Ribbon input.
- 64-note polyphony dynamically allocated, 128 with the Polyphony Expansion option
- 64 factory and 128 user programmable MIDI setups, each with 4 independent zones, effects and arpeggiator settings.

400 Internal Voice Programs

- 256 incredible sounds like the triple strike stereo grand piano, or the lush stereo strings, recorded multi-strike classic e. pianos and keyboards, tone wheel organs, brass sections, drums, percussion, mallet percussion, basses, guitars, voices, synths and more. 16 KB3 Programs use Kurzweil's modeled tone wheel organ mode. General MIDI Bank also available.
- An Orchestral ROM block comes pre-installed with 2 banks of 128 programs.
- 256 locations are provided for User created programs (128 for regular programs and 128 for KB3 programs). Expandable with an optional ROM black which adds 128 preset programs and 32 preset Setups.

Effects (Dual Processors)

- Processor A presets provides a choice of: 58 Reverbs, 6 Delays, 10 Choruses, 6 Flangers, 3 Phasors, 4 Shapers, 2 Enhancers, 8 Filtered Effects, 4 Distortions, 1 Mono>Stereo, 3 Wide Stereo, 4 Compressors, 2 Panners, 7 Rotarys, Stereo Tremolo, and 44 combination effects chains utilizing Kurzweil's unique Laserverb.
- Processor B effects offers a choice of 30 Reverbs including booths, rooms, chambers, halls, and plates.
- All 16 parts can send to A and to B in any amount. A global send allows serial effects changing from A to B.

Voice Control

- User Adjustable Voice Parameters (Timbre, Envelope, LFO)

Arpeggiator

- Full-featured MIDI note arpeggiator with multiple latch modes, selectable play order, velocity and duration as well as tempo and sync functions.

Inputs and Outputs

- Two (L/R) 1/4˝ analog outputs
- 24-bit stereo, AES/EBU and S/PDIF compatible coaxial digital output
- 1/4˝ stereo headphone out.
- MIDI In, Out, Thru (hardware switchable to copy of MIDI Out): Transmits on 4 channels, Receives on 16 channels.
- 9V AC external power supply.
- KFP-1 Single Piano-Style Footswitch

Dimensions and Weight

- **PC2**: 47⅞ x 14 x 4⁵⁄₁₆˝ (39 lbs.)
- **PC2X**: 54⁵⁄₁₆ x 14 x 4⁵⁄₁₆˝ (55 lbs.)

Conveniences

◆ Flash ROM allows software updates via system exclusive dumps.

◆ Lightweight and compact design

Optional Accessories

◆ KFP-2M Double Piano-Style Footswitch

◆ CC-1 Continuous Control Pedal

◆ DPC2-MDS Music Rack

◆ XP-1 Polyphony Expansion - increases polyphony to 128 voices

◆ PCR-1 16MB Orchestral ROM expansion (standard in current units, available as an option for older units)

◆ PCR-2 - 16 meg ROM Block adds additional sound (not yet released)

PC2R *1U Performance Rack Module*

The PC2R is a 1U rack module, which incorporates the feature set from Kurzweil's new PC series. 256 programs featuring triple strike stereo grand piano, new stereo strings, great multi-strike classic keyboards and organs and more. Kurzweil's award winning KB-3 tone organ models are also included. Dual stereo FX processors offer flexible routing and extensive effects algorithms. 4 real-time performance knobs are provided and allow users the same real-time control over functions as the sliders on their PC2 series. 64 voices expandable to 128 voices, easy split and layering capabilities, powerful setups (allowing for up to 4 split /overlapping zones with extensive MIDI control), expandable sound ROM, and 24 bit digital output with better than 117 dB S/N place the PC2R in a class of its own.

◆ Designed for anyone in search of great sound quality with great sounding effects in a compact 1U rack module.

◆ 4 multi-function controller knobs

◆ Four programmable zones

◆ Onboard arpeggiator with multiple note order modes, latch modes, selectable play order, velocity, duration, tempo, and beat values; synchable to MIDI clock

◆ 64 voice polyphony, user-expandable to 128

◆ Same dual sounds and effect processors as the keyboard models.

◆ 20-character x 2-line backlit LCD display with front panel contrast knob.

Inputs and Outputs

◆ Two 1/4˝ balanced TRS analog outputs

◆ Coaxial digital with selectable format (AES/EBU, S/PDIF), bit width (16, 18, 20, 24), and dithering

◆ Front panel 1/4˝ stereo headphone output

◆ MIDI jacks: In, Out, Thru

Options

◆ PCX-1 Polyphony Expansion

◆ PCR-1 16MB Orchestral ROM expansion (standard in current units, available as an option for older units)

◆ PCR-2 16MB ROM expansion (not yet released)

KURZWEIL

K2600 SERIES

Keyboard Workstations

Professionals around the world use Kurzweil instruments for all their production needs. From Film Studios and composers to the U.S. Government, Kurzweil delivers the quality and award-winning audio that is required by the best. Continuing this tradition, Kurzweil is proud to offer the K2600. Fully compatible with all models that Kurzweil offers, professionals can continue their work without interruption, always confident that archived work will be compatible. Building on Kurzweil's world-renowned operating system, the K2600 can do more than ever before. The new operating system expands the algorithms from 32 to 127 with Kurzweil's exclusive Triple Modular Processing. The K2600 is a complete workstation, allowing the user to work from concept to completion without changing from station to station. Full MIDI controller capabilities including eight sliders, two ribbon controllers, footswitches, pedals and breath controllers.

FEATURES

- 76 note semi-weighted and 88 note fully weighted action keyboard versions available.
- True 48 polyphony with 192 oscillators
- 16 MIDI channels, each can be a 32 layer program
- 64MB sample memory upgradable to 128MB
- Sampling option with analog and digital I/O and sample-while-play capability

Sound ROM

- 12MB of onboard ROM, including an acclaimed Stereo Grand Piano.
- Includes over 450 programs (with 100s more available) for a wide and useful selection. A search function allows you to locate programs, setups or objects quickly.
- KB-3 Organ Mode provides powerful tone wheel organ synth models
- Four expansion slots allow you to expand your K2600 to a total of 44MB of sample ROM.
- Optional ROM boards include the well known Orchestral and Contemporary - ROMS which already exist for the K2000 and K2500 series, as well as the newer Stereo Dynamic Piano, and Vintage Electric Pianos ROM options.

V.A.S.T.

- Extensive synth and sample editing is available via Kurzweil's V.A.S.T. (Variable Architecture Synthesis Technology) which features different 60 DSP functions.
- New Triple Modular Processing offers 126 sound shaping algorithms for per-voice processing.
- Even without the sampling option installed, you can take advantage of the many sample processing DSP capabilities. Some of the Sample Processing DSP functions include: time compression/ expansion, pitch shifting, re-sampling, pasting samples on beats-per-minute timeline (Mix Beat), volume ramps, mix sample, and many other functions.

File Compatibility

- K2000 and K2500 compatible, enabling it to read Kurzweil or third-party libraries for each instrument from disk or CD-ROM.
- Reads/writes AIFF and WAVE files.
- Reads libraries in Roland 700 series, Akai S900, S950, S1000, S1100, and S3000, and Ensoniq EPS, and ASR file formats.
- Import and export either Type 1 or Type 0 Standard MIDI files.

Powerful KDFX 5 stereo bus, 24-bit digital Effects

- Kurzweil KDFX utilizes Kurzweil's VLSI DSP chip that delivers a versatile 5-stereo-bus design, 24-bit signal processing, cutting edge DSP functionality, and unparalleled real-time control, all with an extremely flexible routing scheme.
- KDFX offers over 100 effects algorithms arranged into 260 effects presets.
- All I/O can be routed through KDFX including 8 outputs and 8 inputs from Kurzweil Digital Stream (KDS) digital I/O, or sampling I/O.

Sequencing

- Full-function 32-track sequencer with an internal resolution of 768 ppq.
- Sequencer functions include: Linear, Pattern and Step Record Modes
- Editing functions include: Event Edit List with view filters and audible scroll; Cut, Copy, Paste facilities; as well as Reference Quantize which allows you to quantize to a groove track, and to quantize tracks not previously recorded with a click..
- Advanced Auto Arranger functions (allows sequences to be triggered from keys with velocity sensitivity and transposition).

KURZWEIL

K2600 SERIES

Assignable Controllers

◆ The front panel has eight independently assignable sliders, useful as MIDI sliders, for sequencer mixdown, or as organ drawbars in the KB-3 Mode.

◆ A 600mm ribbon controller, running across the top of the keyboard, is programmable in three distinct zones or one long zone. It can be assigned to respond to finger positions as follows: relative to absolute center; relative to "virtual center" (initial finger-press defines the virtual starting point); return to center when finger is removed; or maintain current value when finger is removed.

◆ A shorter, pressure and direction sensitive ribbon controller below the pitch and mod wheels allows natural vibrato and subtle nuances of expression.

◆ Two buttons above the pitch and mod wheels are completely programmable.

◆ Additional controllers include sequencer "transport control" buttons

◆ 4 footswitch inputs, and 2 continuous control pedal inputs (1 CC2 and 1 CC2/breath controller). The breath controller input accepts Yamaha BC-1, BC-2, and BC-3 breath controllers. The multitude of flexible control surfaces make the K2600 the ideal center piece for any MIDI production.

CONNECTIVITY

◆ Outputs are 1/4˝ TRS balanced and include a pair of mixed audio outs, plus eight individual audio outs.

◆ A 1/4˝ stereo headphone output is also provided.

◆ Two 25-pin SCSI connectors

◆ MIDI In, Out and Thru (Thru switchable to a copy of Out).

◆ Controller inputs include 4 footswitches, one breath-controller and two continuous control pedal jacks 1 CC2 pedal and 1 CC2/breath input).

Models

◆ **K2600** – 76-note semi-weighted piano-style keyboard.

◆ **K2600S** – 76-note semi-weighted piano-style keyboard with the SMP2X Sampling Option.

◆ **K2600X** – 88-note fully-weighted piano-style keyboard.

◆ **K2600XS** – 88-note fully-weighted piano-style keyboard with the SMP2X Sampling Option.

Also Available

◆ The K2600R – All of the same features as the K2600, minus the keyboard and MIDI controllers, in a 3U rack space

◆ K2600RS – Same as above with the Sampling Option installed.

Live Mode

◆ Process any mono or stereo signal via the analog or digital sample inputs (requires the sampling option) with powerful V.A.S.T. synthesis functions and built in KDFX capabilities.

◆ Plug your guitar, microphone, mixer or tape track directly into your K2600 and customize the sound using any of the V.A.S.T. parameters, all in real-time. Then add effects using the K2600's on board effects or the state-of-the-art KDFX.

◆ With the digital I/O option you get 8 in and 8 out KDS I/O which can bi-directionally communicate with the DMTi and any other devices wired to the DMTi, such as MDMs (Adat, TDIF), Computer I/O (AES, S/PDIF) and more.

Options

◆ SMP-2X Advanced Sampling Option with Digital I/O, Optical I/O, and Sample-while-play. DSP functions include time compression/expansion, pitch shifting, re-sampling, pasting samples on a beats per minute time line (Mix Beat), volume ramps, mix sample and many other functions.

◆ DIO-26 Digital Input/Output Option adds the ability to input and output eight channels of digital audio to/from the K2600. All incoming audio can then be routed through V.A.S.T. and KDFX processing.

◆ DMTi Digital MultiTrack interface performs real-time digital data format conversion between K2600, AES/EBU, S/PDIF, ADAT and DA-88. It simultaneously performs real-time sample-rate conversion to 44.1 kHz, 48 kHz or a variety of external clock rates.

◆ Contemporary ROM, Orchestral ROM, Stereo Dynamic Piano ROM, and Vintage Electric Pianos ROM Soundblocks add additional ROM samples, along with new preset programs and setups

◆ PRAM-26 Program RAM Memory Expansion increases the amount of battery backed RAM from 486k to 1503k.

KURZWEIL

KSP-8

Multi-Bus Signal Processor

The KSP-8 is an eight channel, 2-space rack mount signal processor designed for the pro and semi-pro musician/engineer/producer requiring high quality signal processing and demanding unparalleled real-time control. It is the world's only 8-channel multi-effects processor with twice the processing power of Kurzweil's KDFX system. The Kurzweil

KSP8 includes all the high-quality effects algorithms from KDFX, and adds surround reverbs and other new effects. The KSP8 breaks through traditional barriers and delivers with a wide range of flexibility. The base unit comes with 4 analog inputs and outputs, and stereo AES/EBU in and out, for a total of 6 possible channels. An I/O option slot provides a choice of expanding with 4 additional channels of analog I/O or 8 channels of Alesis Lightpipe I/O, Tascam TDIF, or AES/EBU I/O. Inputs and outputs may be flexibly routed. 24 bit precision is maintained throughout. The unit offers a selectable master clock, dedicated EQ, and can process 8 mono channels of audio simultaneously, making the KSP 8 an ideal tool for today's MDM based studios.

FEATURES

Factory ROM

◆ 249 effect algorithms (expandable)

◆ 636 effect presets (up to 999 user presets)

◆ 138 effect chains (up to 999 user chains)

◆ 14 studios (up to 999 user studios)

Effect Routing

◆ Any 8 of up to 14 possible inputs can be processed and routed to any 8 of the 14 possible outputs. This allows the KSP8 to be setup with 8 mono in, 8 mono out; 4 stereo in, 4 stereo out; 5.1 plus stereo I/O configurations and anything in between.

◆ Each input signal has its own multi-band EQ and stereo or multi-channel panner.

◆ Input and output routings can be saved as part of the Studio.

◆ Effect buses can be routed directly to the KSP8's outputs, or to internal mixdown buses for submixing.

◆ The unique multi-stage metering section allows for metering at 4 points in the signal path, for all 8 channels.

Architecture

◆ At the lowest level is the effect algorithm which are designed for use in mono, stereo, and surround applications. These high quality, and highly tweakable algorithms have been crafted exquisite effect presets ranging from spacious and gorgeous, to shocking and in your face rude.

◆ Effect presets are easily linked together to form effect chains on up to 8 buses. You can fully customize effect presets and chains and have all the control they want.

◆ Parameters can be controlled in realtime and automated via MIDI. A host of local modulation sources including up to 36 LFOs and 36 envelope generators, with 72 functions is also available for combining control sources.

The Studio

◆ The highest level of the KSP8 architecture is called the studio — a kind of "snapshot" of the total state of the KSP8 at one time.

◆ Studios contain all the physical connection settings, signal routing (analog and digital I/O selections), analog and digital signal levels, as well as the assigned effect presets, effect chains, effect bus assignments (including all MIDI channel and controller settings) and all multi-band EQ settings.

◆ A studio allows you to save and recall your entire project, quickly and easily.

◆ The KSP8 offers up to 999 locations for user-created objects. SmartMedia cards are used to store your work.

Effects Algorithms

Reverbs (booths, rooms, chambers, halls, plates, stages and more), Delays, Choruses, Flangers, Phasers, Shapers, Enhancers, triggered Filters, Distortions, Tube Simulators, Compressors, Limiters, Expanders, Gates, Bit Resolution Degenerators, Aliasing, Ring Modulators, Cabinet Simulators, Spatializers, Rotary Speaker Emulations, Tremolo, Resonant Lowpass, Highpass Filters, Bandpass, Notch, Parametric, Graphic and Multi-band equalizers, Kurzweil1s unique Laserverb, Pitcher' and Chaos, plus others.

KSP-8

- A SmartMedia slot can be used to store data on cards up to 64Mb.

- 240 x 64 CCFL backlit LCD display with front panel contrast

- MIDI In, Out and Thru conectors with 16 channel operation. Data can be stored and retrieved via MIDI Sys Ex.

- ROM Upgrades: OS and objects upgrade-able via SmartMedia card, or via SysEx dump from a MIDI sequencer.

Intelligent Interface Design

- The easy-to-use interface includes a 240 x 64 CCFL backlit display, scroll knob, data entry keypad, and dedicated buttons for navigation and actions.

- The intelligent and intuitive design offers features like Quick Pages, allowing instant access to the most commonly needed effect parameters.

Analog Inputs and Outputs

- Four 1/4˝ TRS balanced inputs and out-puts, expandable to eight with the optional KANA4 analog I/O board.

- 24-bit, 128x oversampling A-to-D and D-to-A conversion

Analog I/O Specs

- 20Hz - 20kHz frequency response ±0.15dB
- Dynamic Range: > 110dB unweighted @ 1kHz
- Crosstalk: < -100dB @ 1kHz

Digital Audio I/O

- 24 bits Digital I/O with XLR connector – 110 ohms (AES/EBU) or 75 ohms (S/PDIF)

- 16, 20, or 24 bits output with a choice of None, Flat, and 2 types of Shaped dither.

Optional I/O

- KANA4 - 4 channel of 1/4˝ analog I/O
- KAES8 - 8 channel AES/EBU or S/PDIF I/O (multi-pin connector, serial connec-tors, BNC word clock)
- KADT8 - 8 channel Alesis Lightpipe I/O plus 8 channel TDIF I/O with BNC word clock connector
- KMLN8 - mLAN option
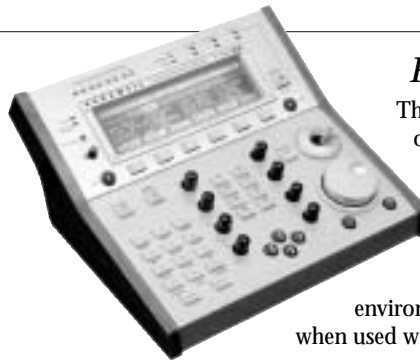
RSP8 – Remote Control

The optional RSP8 offers totally remote operation over all KSP8 functions. The remote offers the same display, navigation and data entry controls as the KSP8. In addition, the RSP8 adds a joystick and 8 knobs to control the KSP8 more efficiently. The RSP8's compact, attractive design will be at home in any studio environment. One RSP8 can control up to 7 KSP8s when used with the optional HUB7 multi-port hub.

RUMOUR / MANGLER

Effects Processors

Say hello to the Rumour and Mangler, Kurzweil's two low cost effects processors. Based on the award winning KDFX technology found in the KSP8 and K2600, These single space rack units pack a powerful punch for a very low cost. The Rumour features a comprehensive set of Kurzweil's finest reverbs and reverb variations, including gated, reverse, and reverb/compression combinations, along with Kurzweil's unique LaserVerb(tm), and chorus/flange+delay+reverb combinations. The Mangler focuses on effects other than, but not excluding, reverb, featuring chorus, flanger, phaser, tremolo, rotary speaker, panner, delay, filters, LaserVerb, Pitcher(tm), synth trigger, ring mod, distortion, and compression effects, and many combinations.

- Stereo Balanced Analog I/O
- Stereo Digital S/PDIF I/O
- Stereo and Mono Input Channels
- Stereo Effects Buses
- 44.1 kHz and 48 kHz Sampling Frequencies
- Selectable Bit Depths of 16, 20, and 24 bits
- 3 band parametric EQ
- 192 Effects Presets

- 64 User Locations
- Extensive MIDI Control
- Up to 16 Effects Parameters
- 3-LED Input Signal Level Metering
- Output Clip LED
- Tap Tempo and BPM Sync
- EQ and/or FX Bypass
- Tap/Bypass Pedal Input

ROLAND

XV-5050

128-Voice Synth/Sample Player

The Roland XV-5080 128-Voice Synthesizer Module is the ultimate sound module based on the best-sounding, most expressive and expandable synthesizer/sample player architecture in Roland history. This flagship module offers 128 voices, true stereo waveforms per tone, expressive Matrix Control, expandability via new 64MB SRX- and popular SR-JV80-Series wave expansion boards, Roland/Akai sample library compatibility and a host of new studio-quality effects. Put simply, cutting-edge synthesis doesn't get any better than this.

FEATURES

- 32-part multitimbral and 128-note polyphony allows you to create lush arrangements without note robbing.
- The massive 64MB internal wave memory (16-bit linear equivalent) offers four times the capacity of Roland's JV Series synths.
- Patches are comprised of up to four tones, each capable of using stereo waveforms. Each of the four tones can be velocity-switched and assigned its own key range, providing a high degree of realism and expression at the basic Patch level.
- 1,152 Preset patches (128 x 9 bank with GM2 banks) and 128 User patches
- Performance Mode allows you to create complex setups, such as layers and/or splits, by combining up to 32 different patches. You can also assign each of the 32 patches to a different MIDI channel for use with MIDI sequencers.
- 64 (32 x 2 bank) Preset performances and 64 User performances.
- 23 (14 + 9 GM2) Preset rhythm sets and 4 User rhythm sets
- User memory can be greatly expanded using SmartMedia storage.
- Upward compatible with Patches from the JV-2080/1080/1010 and XP-80/60/50/30.

Sample Playback

- The XV-5080's sample playback capabilities will allow you to load Roland S-700 and Akai S1000 sample libraries via its 25-pin SCSI port.
- You can add up to 128 MB of sample playback memory via two 72-pin FP/EDO SIMM slots.

Expansion

- Four expansion slots are available for adding Roland's popular SR-JV80 Series expansion boards.
- Another set of four expansion slots is provided for Roland's latest SRX Series of 64MB Wave Expansion boards.

Intuitive

- 320 x 80-dot graphic backlit LCD
- The PatchFinder button allows you to quickly locate sounds by category. The Favorite List function calls up your favorite Patches in succession for live performance.
- The Matrix Control offers an extensive array of modulation routing capabilities, providing a wide variety of expressive control and sound shaping possibilities.

Studio Quality Effects

- Independent reverb, chorus and a multi-effects processors are provided.
- Many of the onboard reverbs are based on algorithms from Roland's top-of-the-line SRV-3030 24-bit Digital Reverb Processor.
- The multi-effects algorithms include unique Roland effects like RSS, Isolator, Shuffle Delay and more.
- In Performance mode you can assign up to 3 sets of Roland's acclaimed COSM algorithms guitar amp models and other unique and powerful effects.

Connectors

- 1/4˝ stereo headphone output
- 1/4˝ L/R main outputs plus three additional 1/4˝ stereo pairs with 24-bit D-to-As.
- Coaxial and Optical S/P DIF digital outputs (24bit, 44.1kHz)
- A proprietary 24-bit R-BUS digital output port is available for sending eight channels of audio to the latest VS recorders, or ADAT and Tascam T-DIF compatible gear using the optional DIF-AT Interface Box.
- Two MIDI Ins (for accessing all 32 parts, plus a, MIDI Out and Thru connector.

64-Voice Synthesizer Module

The XV-5050 is a single rack space, 64-Voice Synthesizer Module that gives musicians access to Roland's flagship XV sound engine without breaking the bank. This space-saving 1U rack module offers four stereo Tones per patch, expressive Matrix Control and over a thousand inspiring Presets—expandable via high-quality SRX-Series Wave Expansion Boards. There are also three independent effects processors, digital outputs, plus a new USB port for easy connection to PCs. Don't compromise your sounds. Get the best for less!

FEATURES

◆ Affordable, 64-voice 16 part multitimbral synth module based on acclaimed XV-5080 synth engine

◆ Stereo 4-Tone architecture and Matrix Control for ultra-expressive sounds

◆ 64MB of internal wave memory (16-bit linear equivalent) – 1,083 (XV-5080 equivalent) waveforms.

◆ Includes all presets from the XV-5080, select Fantom patches and all-new sounds

◆ 1,024 (128 x 8 Banks) Preset patches and 256 (GM Level 2) Preset patches

◆ 16 (2 x 8 Banks) Rhythm Sets plus 9 (GM Level 2) Rhythm Sets

◆ 64 (32 x 2 Banks) Performances

◆ 128 User patches, 4 User Rhythm Sets and 64 User Performances

Expansion
◆ Two SRX-Series Wave Expansion Board slots allow you to expand and customize your XV-5050 with up to 192MB of high-quality sounds designed to suit your needs.

Studio Quality Effects
◆ Three independent effects processors with everything from 24-bit reverb to chorus, plus 90 multi-effects including COSM Guitar Amp Modeling.

User Interface
◆ Display 20 letters 2 lines (backlit)

◆ Convenient 1U rackmount design

Inputs and Outputs

◆ 1/4˝ L/R main outputs plus two individual 1/4˝ outputs using superb sounding 24-bit D-to-A converters

◆ Coaxial and Optical S/P DIF digital outputs (24bit, 44.1kHz)

◆ 1/4˝ stereo headphones output on the front panel

◆ A USB port on the front panel can be used as a MIDI interface for your USB-equipped computer.

◆ MIDI In, Out and Thru connectors

◆ Included accessories: Owner's Manual, CD-ROM (USB Driver), Power Cable

XV-2020

64-Voice Expandable Synthesizer Module

The XV-2020 64-Voice Expandable Synthesizer Module puts Roland's flagship XV sounds in a convenient half-rack design complete with USB. Expandable via two SRX-Series Wave Expansion Boards, it's like a powerful "plug-in" synth with up to 192MB of sounds, 3 independent effects processors and intuitive editing software.

◆ Half-rack synth module with 64MB of XV sounds and USB port

◆ 64-voice polyphony and 16-part multi-timbral operation

◆ Presets include 768 Patches, 17 Rhythm Sets and 64 Performances

◆ Expandable via two SRX-Series Wave Expansion Boards

◆ USB port for easy MIDI connection and control via software

◆ 3 independent effects processors: reverb, chorus and 40 multi-effects

◆ Stereo 1/4˝ and RCA outputs

◆ Includes editing software for Mac or PC

ROLAND

FANTOM-S • FANTOM•S88

Advanced Music Workstations

Roland's Fantom-S workstation keyboards are a complete solution for professional music production. The 61-note Fantom-S and 88-note Fantom-S88 both feature seamless integration of audio and MIDI—plus advanced sampling with realtime timestretch, sample chop and new "Skip Back Sampling." A Dynamic Pad Bank makes it easy to arrange and trigger audio, while all-new factory sounds, an onboard mastering processor and USB file exchange give the Fantom-S the power to take your music from idea to completion.

FEATURES

Advanced music production studios with 61-note keyboard (Fantom-S)
or 88-note Progressive Hammer-Action Keyboard (Fantom-S88).

Internal Sounds

- 64 voice polyphony and 16 part multitimbral (shared with Sampling Section).

- All-new Patches and Rhythm Sets built from 64MB-equivalent wave ROM. These stereo-sampled waves were painstakingly sampled in world-class studios around the world, and are the finest building blocks ever offered in a Roland keyboard.

- 640 Preset Patches and 256 General MIDI 2 Patches; 32 Preset Rhythm Sets plus 9 General MIDI 2 Rhythm Sets; 64 (16 part multitimbral) Preset Performances

- 256 User patches, 32 User Rhythm Sets and 64 (16 part multitimbral) User Performances

- A range of tweakable modulation routings are available via the Matrix Control

- The user programmable LFO allows you to program cyclic modulation (such as filter cutoff, pitch, etc.) using 16 steps.

- Expandable to 192MB of internal sounds via four optional SRX-Series Wave Expansion Boards.

Flexible User Sampling

- Includes 32MB of sample RAM (expandable to 160MB) — enough to resample an entire song.

- Audio (samples, loops, etc..) can be used as a waveform in the expressive stereo 4-tone synth engine, or sequenced seamlessly alongside MIDI data - complete with real-time timestretching.

- Your favorite samples can be saved to the internal 16MB flash memory or to an optional SmartMedia card.

- The unique "Skip Back Sampling" feature continuously records performances, enabling you to retrieve an idea that might otherwise be lost.

- Sampled waveforms are displayed graphically for quick and precise editing

- Waveforms can be automatically divided into 16 "slices" using the Chop function.

- The onboard USB port allows you to grab .WAV and/or AIFF files from your Mac or Windows computer.

16-Track High Resolution Sequencer

- The internal pattern-based 16-track sequencer features a 480 PPQN (pulse per quarter note) resolution, and a 400,000 note capacity with support for both real-time and step recording.

- Because the sequencer is always active, you can start recording as soon as inspiration hits — whether it be while playing live, tweaking the realtime controls or playing Arpeggiator patterns.

- The oversized LCD display makes it easy to view and edit track data with unparalleled precision when using Microscope editing.

- Compatible with MRC Pro Songs and Standard MIDI Files (format 0, 1)

Mixing

- The Mixer View screen takes advantage of the large 320-240 LCD display to offer the look and feel of a digital mixer. This screen offers intuitive graphic editing of a multi-timbral Performance allowing you to change track levels, panning and effects settings using the four front-panel knobs.

- A Layer View screen offers quick graphic editing for layering and key zones.

ROLAND

FANTOM-S • FANTOM•S88

Arpeggiator and Rhythm Generator

◆ The onboard Arpeggiator provides 128 Preset and 128 User patterns that allow you to create anything from wild synth patterns to bass lines and chord comping.

◆ Graphically build your own arpeggiator patterns by inputting notes in the 32-step grid.

◆ Parameters such as pitch, velocity and note duration can be specified for each step.

◆ The Rhythm Generator is designed to allow you to quickly and easily add realistic sounding drums using a choice 256 Preset and 256 User rhythms.

Studio Quality Effects

◆ 3 MFX processors, plus dedicated reverb, chorus and new mastering processor.

◆ An onboard 24-bit reverb on par with rackmount processors and professional plug-ins

◆ A dedicated chorus processor that serves up warm, rich chorus and delay.

◆ Three multi-effects processors handle everything from tempo-synced delay and Lo-Fi processing to COSM Guitar Amp Modeling, Slicer, Isolator and more.

◆ A dedicated mastering processor with multi-band compression lets you add that finishing touch to your mixes.

◆ You can resample phrases or entire songs with effects to create entirely new sounds or bring a mix into your computer for CD burning.

Expressive Interface

◆ 16 (velocity-sensitive) Dynamic Pads make triggering internal sounds (such as drums), RPS Phrases, samples and audio loops easy.

◆ 320 x 240 dots LCD Display with helpful graphic icons including full waveform editing with zoom capabilities.

◆ Pitch Bend / Modulation joystick-style lever as well as 4 realtime assignable control knobs.

◆ The D Beam Controller uses an infrared beam of light that allows you to controller a variety of synth and effect parameters.

Rear Panel

◆ Two pairs of stereo 1/4˝ line outputs

◆ Two 1/4˝ inputs: input one is mic/line switchable; while input two is line only.

◆ Coaxial and optical S/PDIF digital outputs

◆ 1/4˝ stereo headphone headphone output.

◆ Hold and control pedal inputs.

◆ MIDI In, Out and Thru connectors

◆ The onboard USB port makes it easy to load .WAV/AIFF files, or export a finished song to a computer for CD burning or further editing.

◆ A SmartMedia storage slot accepts 8 to 128MB SmartMedia cards (3.3V) for backing up samples, sequences, presets and performances.

Sound collection optimized for XV-5080's sample-playback capabilities*; Includes samples taken from popular L-CDP-Series for S-Series samplers; Perfect for composer/performers requiring very high quality sounds.

Samples are in S-700-Series format and must be convert loaded for use with XV-5080.

L-CDX-01
Rhythm Section Instruments

Two collections on one CD-ROM: Drums & Cymbals Vol. 1 and Guitar & Bass Vol. 1.

L-CDX-02
Keyboard Instruments

Keyboards of the 60's & 70's Vol. 1 and Vol. 2 on one CD-ROM optimized for the XV-5080.

L-CDX-03
Brass & Woodwinds

Two CD--ROMS containing Orchestral Winds, Brass Sections, Super Sax and Solo Brass.

L-CDX-04
Strings/Orchestral Percussion

Orchestral Percussion, Solo Strings, Symphony Orchestra and String Sections on two CD--ROMS.

ROLAND

SRX Series Expansion Boards

Roland's Premier Sound Library

The SRX-Series is Roland's next-generation sound library for "SRXpandable" instruments like the Fantom-S/-S88, XV-Series sound modules and RD-700 expandable synthesizer. With a strong focus on quality, each 64MB-equivalent expansion is loaded with sounds for all types of applications and genres.

◆ User-installable SRX wave expansion boards with all-new stereo sounds with astonishing quality

◆ Fully compatible with XV-Series synthesizers, Fantom Workstations, and RD-700 Expandable Keyboard

◆ Equivalent to 64MB of high-quality waveforms with zero loading time (when converted into 16-bit linear format)

SRX-01 Dynamic Drum Kits

◆ 64MB of world-class drum kits
◆ Drum sounds developed in conjunction with Spectrasonics
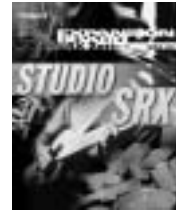◆ Stereo samples with multiple velocity switches for unsurpassed authenticity

SRX-02 Concert Piano

◆ User-installable wave expansion board offering the best concert grand piano sound in Roland history
◆ Entire 64MB memory dedicated to stereo samples of a single, very rare European piano

SRX-03 "Studio SRX" Wave Expansion Board

◆ An extensive 64MB collection of all-new pop music sounds
◆ Focus is on superb sound quality rather than quantity

SRX-04 Symphonique Strings

◆ Includes violin, viola, cello, bass and full orchestra selections
◆ Multiple performance articulations of virtually every type

SRX-05 Supreme Dance

◆ 64MB of all-new waveforms and patches for dance music producers
◆ Focus is on individual sounds: 818 waveforms, 312 patches, 34 rhythm sets including 113 kicks and 133 snares alone!

SRX-6 Complete Orchestra

Includes 64MB of waves from SR-JV80-02/07/13/16

SRX-7 Ultimate Keys

Includes 64MB of waves from SR-JV80-03/04/08/09/10

SRX-8 Platinum Trax

Includes 64MB of waves from SR-JV80-11/12/15/19

SRX-9 World Collection

Includes 64MB of waves from SR-JV80-05/14/17/18

SRX-6/7/8/9 Wave Expansion Boards feature waves from 4-5 classic SR-JV80-Series boards with all-new patches programmed for XV-Series engine. They include stereo waveforms, Matrix Control and multi-effects, plus most original Patches and Rhythm Sets on CD-ROM.

Keyboard Amplifiers

The Roland KC-Series has earned a reputation for both powerful sound and flexible mixing features. Now with the introduction of the KC-550/350/150, that legacy is set to continue. All three models feature a flexible 4-channel design with a stereo Auxiliary input and XLR Microphone input—plus compatibility with the new KCW-1 Powered Subwoofer and more.

- ◆ 4-channel stereo mixing keyboard amplifiers with clean, powerful sound
- ◆ Stereo Auxiliary input (RCA type) for connecting CD/MD players
- ◆ XLR Microphone input for adding vocals or acoustic guitar
- ◆ New Subwoofer output creates powerful low end with optional powered subwoofer
- ◆ KC-550/350 include Output Select and Shape switch, plus XLR or 1/4˝ Line output

KC-550
Stereo Mixing Keyboard Amplifier

The KC-550 boasts 180 watts of powerful sound via a 15˝ speaker and horn tweeter. In addition to its four input channels, this flagship amp includes an Output Select switch for selecting the monitor sound destination, a Shape switch for quick sound adjustment and an XLR Line output for direct connection to a mixing console.

- ◆ Powerful 180-watt/15˝ speaker and horn tweeter
- ◆ Output Select feature and convenient Shape switch for tonal adjustment
- ◆ 3-band EQ and Subwoofer output compatible with new KCW-1
- ◆ XLR Line output for connection to mixing consoles
- ◆ Stereo Link In/Out for chaining to KC-550s for stereo applications

KC-350
Stereo Mixing Keyboard Amplifier

The perfect combination of power and value, the KC-350 is ideal for medium-sized gigs. It features a 120-watt amplifier with convenient 3-band EQ, Output Select and Shape switch features, plus a Subwoofer output for extra low end. The KC-350 can also be connected to mixing consoles via its XLR Line output.

- ◆ 120-watt/12˝ speaker and horn tweeter
- ◆ Output Select feature and convenient Shape switch for tonal adjustment
- ◆ 3-band EQ and Subwoofer output compatible with new KCW-1
- ◆ 1/4˝ phone output for connection to recording devices
- ◆ Stereo Link In/Out for chaining to KC-350s for stereo applications

KC-150
Stereo Mixing Keyboard Amplifier

A compact 60-watt amp with 4-channel capability including Aux and Mic inputs. The KC-150 can also be expanded with an optional subwoofer for a powerful low-end boost.

- ◆ Affordable 4-channel keyboard amplifier with 60-watt/12˝ speaker and piezo tweeter
- ◆ Includes stereo Aux input (RCA) and XLR Mic input
- ◆ 2-band EQ and Subwoofer output compatible with KCW-1
- ◆ Headphones output; can be mounted on speaker stands

KCW-1 Powered Subwoofer

A convenient way to add 200 watts of punchy low-end to sub-out equipped KC amps, or standard amps via the stereo Thru output.

- ◆ 200-watt powered subwoofer for use with KC-Series amps
- ◆ Stereo Thru Out jack (XLR and 1/4˝) for amps without a Subwoofer output
- ◆ Intuitive controls including Crossover knob, Phase switch and Shape switch

ROLAND

RS-50 • RS-70

Synthesizers

The RS-70 and RS-50 are streamlined and affordable synths that boast hundreds of CD-quality sounds that can be easily called up via simple Direct Access Buttons. Both units offer a number of performance features including a D Beam Controller, arpeggiator and chord memory. The RS-70 goes even further by adding an easy instrument-based Loop Sequencer, USB-MIDI interface and floppy drive for playing back Standard MIDI Files.

◆ Full of new sounds based on an entirely new set of waveforms sampled at 44.1kHz.

◆ Direct Access buttons let users call up sounds by category, while bundled editor software makes it easy to dive in and program new sounds.

◆ The RS-70's Loop Sequencer demystifies MIDI sequencing by allowing you to simply choose a sound and record. As the recording loops, additional sounds can be selected and overdubbed until all parts are entered.

◆ Realtime and step recording are both supported, along with Microscope editing.

◆ The Multi Chord Memory function allows you to play a variety of complex chords using a single note.

◆ You can also trigger phrases at the touch of a key using the Arpeggio/Phrase Generator. The RS-70 adds the ability to program your own Arps and phrases as well as the ability to record these to the sequencer).

◆ The RS-50's Rhythm Guide metronome offers a number of preset rhythm patterns in a variety of styles.

◆ Both models employ Roland's D Beam Controller which offers realtime control over a variety of functions like pitch and filter cutoff.

Inputs and Outputs

◆ Stereo 1/4˝ outputs and a 1/4˝ stereo headphone output

◆ Hold and Control Pedal jacks

◆ MIDI In and Out connectors

The RS-70 Also Adds

◆ The built-in floppy drive allows you to load GM/GM-2-compatible Standard MIDI Files.

◆ The onboard USB port can be used as a MIDI interface for direct connection to your computer.

XV-88 128 Voice Synthesizer

The XV-88 128-Voice Expandable Synthesizer is Roland's finest performance synthesizer to date, featuring powerful XV-3080 synthesis, an 88-note precision hammer-action keyboard, and other expressive features like the infrared light-sensing D-Beam controller. This synth offers 128 voices, true stereo waveforms per tone, expressive Matrix Control, expandability via new 64MB-equivalent SRX- and popular SR-JV80-Series wave expansion boards, and a host of new studio-quality effects-marking the XV-88 as performance synth of the highest order.

◆ 88-note precision hammer-action synthesizer with D-Beam controller and aftertouch.

◆ 128-voice synth engine for extensive layering and multitimbral applications

◆ Massive 64MB-equivalent internal wave memory includes incredible new sounds, plus all sounds from JV-2080 and a collection of waveforms from the JD-990 Super JD

◆ Stereo playback capability per tone for amazing velocity switches and keyboard splits

◆ Powerful Matrix Control gives sounds an unprecedented level of nuance

◆ Studio-quality reverb and effects derived from Roland SRV-3030, V-Studios, and RSS technology

◆ "SRXpandable" via SRX-Series 64MB-equivalent

◆ Compatible with SR-JV80-Series wave expansion boards and XP/JV-Series Patches (XP-80/60/30, JV-2080/1080/1010)

◆ Advanced arpeggiator functions

ROLAND

RD-170

Stage Piano

The RD-170 is an entry-level stage piano, for students and live performers, with an 88-key weighted hammer action that feels and sounds like it should cost hundreds more. And with an upgraded sound engine that's equally realistic, the RD-150 sets a new standard for affordable digital pianos.

- ◆ 88-note weighted hammer-action keyboard with improved touch response
- ◆ Full 64-voice polyphony with 64 sounds including Roland's best stereo grand piano plus electric pianos, clavinet, vibraphone, strings, pad, voices, jazz and church organ, guitar, acoustic bass and more.
- ◆ Master Keyboard functions for controlling external MIDI modules
- ◆ 16 Programmable Setups allow instant recall of custom settings
- ◆ 8 levels of Sympathetic Resonance add realistic acoustic piano resonance when using the damper pedal

- ◆ Keyboard split and layer functions with separate volume controls for upper and lower parts.
- ◆ Stretch Tuning function provides instant alternate tunings
- ◆ Built-in 2-track Recorder for practice or accompaniment
- ◆ Onboard reverb and chorus effects with eight levels
- ◆ MIDI In and Out connectors
- ◆ Half-pedal recognition for sustained playing just like an acoustic piano (requires optional DP-8 Damper Pedal).

MIDI EQUIPMENT

RD-700

Expandable Keyboard

The RD-700 Expandable Keyboard is loaded with 64MB of stereo-sampled piano and instrument sounds — expandable using quality-intensive SRX-Series Wave Expansion Boards—plus an 88-note Progressive Hammer-Action Keyboard for the ultimate musical expression. And with its new graphic LCD, intuitive knob- and slider-based editing and powerful arpeggiator, the RD-700 is everything an expandable keyboard should be.

- ◆ Flagship expandable keyboard with 128-voice/16-part multitimbral sound engine and 88-note Progressive Hammer-Action Keyboard
- ◆ Massive 64MB-equivalent internal wave memory includes stereo-sampled piano sounds and a collection of Roland's best instrument sounds
- ◆ Large graphic LCD for easy operation; dedicated knobs and sliders for quick sound shaping and direct volume control over parts
- ◆ Expandable via two SRX-Series 64MB-equivalent Wave Expansion Boards

- ◆ Onboard effects include Sympathetic Resonance and 63 algorithms identical to the XV-3080
- ◆ One-touch Piano button instantly switches RD-700 for piano performance
- ◆ Realistic tonewheel organ sounds with graphical drawbar editing
- ◆ Powerful arpeggiator with 45 styles including guitar strumming; 50 onboard rhythm patterns for practice and composing
- ◆ MIDI Tx button for easy control over external MIDI devices and sound modules

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ROLAND

SR-JV80 EXPANSION BOARDS

Roland's SR-JV80 Sound Library

Genre-specific sound expansions compatible with a wide range of Roland synths and modules including the famed JV Series sound modules and XP Series synths and workstations as well as the current XV-5080 128 voice sound module.

◆ User-installable SR-JV wave expansion boards with all-new patches and waveforms

◆ Fully compatible with XP-80/60/30, JV-2080/1080/1010, XV-5080 and RD-700 Expandable Keyboard

◆ Equivalent to 16MB of high-quality waveforms with zero load time when converted into 16-bit linear format

SR-JV80-01 Pop
A collection of basic sounds ranging from rhythm sections, keyboards, bass and guitars to strings, brass and synth patches. 224 waveforms and 145 Patches.

SR-JV80-02 Orchestral
Realistic sound for classical orchestration, covering a variety of string, woodwind, brass and percussion sounds. 174 waveforms and 255 Patches.

SR-JV80-03 Piano
Features an unprecedented variety of piano sounds, including world-class grands and electric pianos. 73 waveforms and 111 Patches.

SR-JV80-04 Vintage Synth
The definitive collection of legendary "vintage" synth sounds, including most of the classic Roland synths. 255 waveforms and 255 Patches.

SR-JV80-05 World
Extensive collection of ethnic instruments from around the globe, including bagpipes, quena, kayakcom and tablabaya. 255 waveforms, 255 Patches and 1 rhythm set.
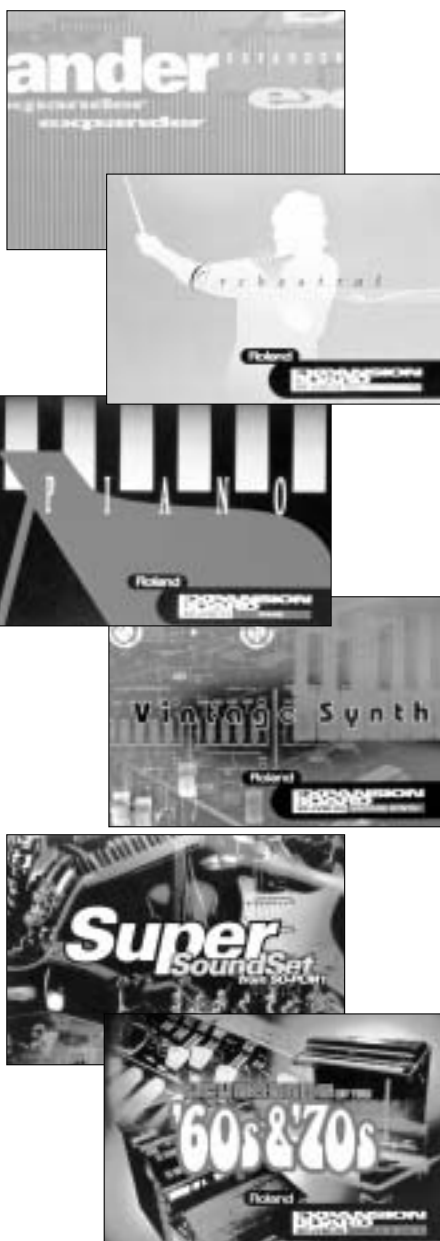
SR-JV80-07 Super Sound Set
Contains sounds ranging from rock and pop to Baroque and traditional music, such as harpsichord, accordion, fiddle and banjo. 255 waveforms, 255 Patches and 8 rhythm sets.

SR-JV80-08 60s & 70s Keyboards
Offers various classic organ and electric piano sounds, including a vast number of Hammond B-3 settings. 255 waveforms and 255 Patches.

SR-JV80-09 Session
Includes lush stereo grand pianos, high-quality strings, choirs, nylon and electric guitars, brass and synth textures. 206 waveforms, 255 Patches and 8 rhythm sets.

SR-JV80-10 Bass & Drums
Contains cutting-edge bass and drum sounds meticulously sampled from renowned studio musicians including Marcus Miller, Abraham Laboriel, John Patitucci, Abraham Laboriel Jr. and Bob Wilson, adding a high-powered rhythm section to your music. 241 waveforms and 204 Patches.

◆ Includes various playing techniques such as slapping, fingering and picking, slides, harmonics and assorted playing noises

◆ Dynamic drum waveforms with expressive velocity control

SR-JV80-11 Techno Collection
High-quality Dance/Techno sound expansion board featuring 255 waveforms, over 200 Patches and 8 full rhythm sets.

◆ Provides a wealth of classic Roland drum and synth sounds (TB-303, TR-808, -909, etc.) as well as effected/distorted bass, synth and rhythm sounds

◆ Sound effects include noise, hits and industrial sounds

SR-JV80-12 Hip Hop Collection
Features 256 Patches and 8 full rhythm sets of the latest, fattest hip-hop sounds.

◆ Over 40 cutting-edge hip-hop phrase loops for quick song creation

◆ A wealth of hip-hop instrument sounds including drums, bass and keyboards

◆ Includes a variety of "Lo-fi" sounds, human beat box sounds, vocal sounds and sound effects

SR-JV80 EXPANSION BOARDS

SR-JV80-13 Vocal Collection

High-quality vocal sounds ranging from choir groups and jazz scatting to Gregorian chants. Extremely expressive and strikingly realistic, they can add life to music ranging from soundtracks to classical compositions.

◆ Stereo sampled Jazz scatting includes five-stage velocity switching with very responsive vocal sounds (in Performance Mode only)

◆ Contains 94 different waveforms focusing on unrivaled sound quality

SR-JV80-14 "Asia" Collection

Authentic Asian instruments, including distinctive sounds from China, Indonesia, India, Japan, Korea and more.

◆ Features Asian string instruments with a variety of distinct "weeping" sounds, as well as rhythm instruments

◆ Phrase loops include both Standard (even-metered) and Asian-style timing that can be tempo sync'd to MIDI

◆ Chinese instruments include Er Hu, Yang Qin, Suona and many others

◆ Gamelan (Indonesian orchestral music) instruments include Jegogan, Jublag and Pemade — other Korean and Japanese sounds also included

◆ Indian instruments include Tabla, Dholak, Dhol, Sitar, Santoor and more

◆ Expressive possibilities are easily enhanced with bender lever and Arpeggiator functions

SR-JV80-15 FX Collection

A range of sounds including ambient sounds, noise, rhythmic hits, environmental sounds, nature sounds and more – many derived from the popular Distorted Reality CD-ROM.

◆ High-quality wave expansion board with 100 waveforms and 200 Patches

◆ Includes a variety of synth-type effects, Ambient sounds, Noise and Rhythmic Hits

◆ Environmental sounds include rivers, ocean, birds, insects, weather sounds, industrial sounds and machines, city and construction sounds, and much more

SR-JV80-16 Orchestral II

Includes stunning new string, brass, wind and other orchestral sounds, as well as Celtic instrument samples – great for film scores and television commercials. 100 waveforms and 200 Patches.

◆ Contains a wide variety of useful sounds, including stereo string sounds, brass, wind instruments, percussion, ensemble, breath noise and more

◆ Celtic instrument sounds including Bosouki, Uillean Pipe, Bodhran, and Clarsah Harp

SR-JV80-17 Country Collection

Easy access to hundreds of authentic country music sounds.

◆ Includes acoustic guitars, pedal steel, resonator guitar (metal hollow-body), clean electric guitars, fiddle, banjo, wash-tub bass, and a variety of natural drum sounds

◆ Perfect for studio use and live performance

SR-JV80-18 "Latin" Collection

Designed to meet the unique needs of Latin music, this is an authentic collection of Latin drum and percussion sounds, pianos, horns, and other genre-specific instruments.

◆ Authentic Latin sounds including pop, mariachi, cumbia, and more

◆ Genre-specific instruments include percussion, pianos, horns, etc.

◆ Onboard rhythm/phrase loops for easy groove creation and song composition

SR-JV80-19 House Collection

Loaded with all the fresh loops, phrases and keyboard sounds needed to lay down your next house track. Developed in collaboration with Ueberschall, many of the sounds and loops were created by legendary house music producer Mousse T.

◆ Based on Ueberschall's acclaimed "HOUSEWORX!" and "jam box" CD--ROMS (from producer Mousse T.)

◆ Includes 255 waveforms: drum and percussion loops; piano and guitar phrases; piano, bass, brass and string sounds; hits and vocal samples

◆ Contains 256 patches including key split settings of loops and keyboard sounds for instant house music creation

ROLAND

V-SYNTH

61-Note Synthesizer

The Roland V-Synth is a distinctive and inspiring new instrument that opens up a world of new sounds full of life and motion. The V-Synth's sound engine is designed to be configured in several different ways by choosing from preset Structure types--just like a semi-modular synth. Imagine a synth that combines multiple oscillator technologies with realtime control of a waveform's pitch, time and formant. Now add user sampling to create entirely new waveforms, powerful COSM filtering, a killer arpeggiator, touchscreen and a host of realtime controllers including the revolutionary TimeTrip Pad.

FEATURES

◆ 61-note synthesizer with velocity and channel aftertouch

◆ 16 part multitimbral and 24 voices of polyphony (depending on available DSP).

Sound Generator

◆ Two variable oscillators, each with a choice of three sound generation techniques.

❏ The PCM oscillator uses Roland's VariPhrase technology for independently manipulating the pitch, time and formant of the over 300 preset or user-sampled waveforms.

❏ The second oscillator type is Analog Modeling which offers nine traditional waveforms, utilizing Roland's latest modeling technology to deliver sounds that are fat and warm.

❏ External Audio Processing is the third oscillator type, which allows any external sound to be used as a synth waveform.

◆ All oscillator types can be mixed and layered in several ways, or modulated using FM, ring mod and hard sync to create sounds never heard before.

◆ Powerful COSM processing including filter modeling, guitar amp modeling, resonator and Side Band Filter.

Effects

Global reverb, chorus and multi-effects enhance the sonic palette even further.

TimeTrip Pad

◆ The TimeTrip Pad is an innovative controller that lets you adjust the time parameter of a waveform in real time—without affecting pitch or formant—simply by dragging your finger along the pad. You can speed up a waveform, slow it down, or freeze it at any point.

Realtime Control

◆ Over dedicated 20 knobs and sliders allow you to grab essential sound parameters quickly and easily.

◆ The large and intuitive touchscreen interface responds to dragging motions, allowing you to access more detailed parameters – Imagine setting an envelope curve just by sliding your finger on the screen.

◆ The Twin D Beam controllers provide an expressive interface for controlling parameters in realtime

Programmable Arpeggiator

◆ Programmable arpeggiator provides additional rhythmic and timbral controls. It allows you to create complex riffs from a single note or chord, or to create timbral changes that add rhythmic motion to a sound.

Inputs and Outputs

◆ 1/4˝ stereo Mic/Line analog as well as coaxial and optical digital sampling inputs

◆ Two 1/4˝ Main and and two 1/4˝ Direct outputs each configured as stereo paris

◆ Coaxial and optical digital I/O

◆ 1/4˝ stereo headphone output

◆ Hold pedal and two Control Pedal jacks

◆ MIDI In, Out and Thru connectors

◆ A USB port allows .WAV/AIFF file import, .WAV export and MIDI interfacing with your computer.

ROLAND

VARiOS

Open System Module

VariOS (short for Variable Operating System), is an open-ended hardware/software system that can be customized for different needs. In its first configuration, the VariOS module comes standard with the software program V-Producer. This software lets musicians manipulate a sample's pitch, time and formant—giving musicians the power to build complete audio-based arrangements with seamless software/hardware control and without draining the host computer's CPU. The VariOS module can also be updated via PC cards so the system can take on entirely new functions, making it the most open-ended and flexible hardware-based product ever.

FEATURES

◆ Open-ended realtime audio construction system consisting of VariOS module and new V-Producer for VariOS software.

◆ Play back up to 14 phrases simultaneously with 6-part multitimbral operation

◆ Award-winning VariPhrase technology for intuitive realtime manipulation of pitch, time and formant—control audio phrases like MIDI!

◆ Batch load/auto-encode .WAV/AIFF audio files from computer via USB and browser

◆ Internal memory holds up to 300 seconds of mono samples (150 seconds in stereo)

◆ Easy drag-and-drop sample arrangement—build a complete song in minutes!

◆ PhraseScope window provides free-form editing of a phrase's melody content

◆ GrooveScope window allows non-destructive reconstruction of rhythm loops

◆ Graphic editing of VariOS module's 40 multi-effects, 8 chorus types and 9 reverbs

◆ V-Producer for VariOS supports MIDI clock/MTC sync and audio/SMF export

◆ Flash memory and PC Card sample storage for using VariOS module without computer

◆ Open-ended design allows for future software updates
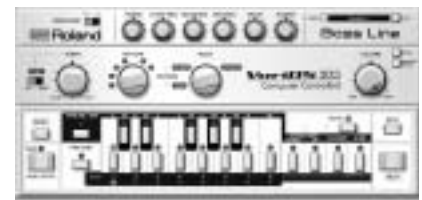
Firmware Updates

Two firmware sets with control software allow you to turn the VariOS module into a polyphonic Analog Modeling Synth (which can re-create Roland's vintage Juno and Jupiter synths) and monophonic Analog Modeling Bass Synth (to re-create a Roland TB-303 Bassline synth) respectively, but with modern conveniences like onboard effects and more.

V-PRODUCER SOFTWARE

Connections

◆ Stereo 1/4˝ inputs (mic/line switchable) with variable gain

◆ Two pairs of stereo 1/4˝ line outputs

◆ Optical and coaxial S/PDIF digital outputs

◆ 1/4˝ stereo Headphones jack

◆ MIDI In and Out and a USB port.

ROLAND

SH-32

Desktop Synthesizer

The SH-32 Synthesizer is a nod to Roland's past with a look toward the future. This 4-part multitimbral synth uses Wave Acceleration Synthesis to deliver up to 32 voices of fat synth waves and entirely new waveforms. There's also a full complement of knobs and sliders—plus analog-style drums, DSP effects and a killer arpeggiator—giving musicians desktop access to a range of stunning synth sounds at an unbelievable low price.
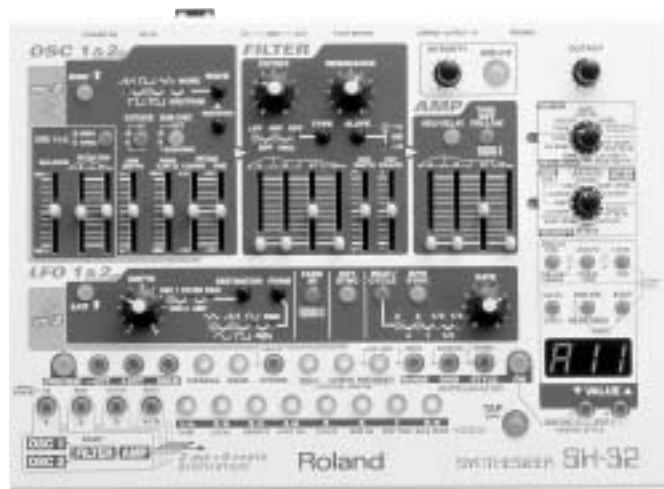
FEATURES

Wave Acceleration Synthesis

◆ Wave Acceleration Synthesis provides a total of 67 waveforms including standard synth waves as well as new waveforms like Spectrum and Noise.

◆ There are also 63 rhythm waves available for rhythm sets

◆ 32-note polyphony and 4-part multitimbral operation.

◆ The internal preset memory features 128 Patches and two rhythm sets. User memory provides 128 Patches, Two Rhythm sets as well as 64 Performances

◆ Each Patch consists of up to two main oscillators and 2 sub oscillators with ultra-thick Subsonic mode. You can also apply pulse width modulation plus a choice of oscillator "hard" sync or ring modulation. Patches using oscillator sync will be monophonic.

◆ The Filter section features variable cutoff and resonance with a selectable Low Pass, Band Pass, High Pass and Peaking filters and a choice of -12dB or -24dB slopes.

◆ There are two ADSR envelopes. The first is a filter envelope which also features a depth control a key follow parameter. The second envelope controls amplitude.

◆ Two MIDI synchable LFOs, with a choice of 7 waveforms and variable depth, can be assigned to Osc 1, Osc 2, Filter, Amp (envelope) or pan.

Arpeggiator

◆ The onboard fully programmable arpeggiator can be used to create incredible user synth lines or drum patterns. The Arpeggiator can be programmed using step input or in realtime.

◆ There are a total of 64 Arpeggio styles and 64 Rhythm styles available.

◆ The Chord Memory function, with 64 Chord Forms, lets you produce complex arpeggios well suited for modern techno styles including trance. And with so many front-panel controls, programming is still ultra-intuitive.

Inputs and Outputs

◆ 1/4˝ Left/Mono and Right output connectors.

◆ 1/4˝ stereo headphones output

◆ MIDI in and out connectors

◆ 1/4˝ TRS footswitch input

Additional Features

◆ Tempo variable from 20.0 to 250.0 BPM.

◆ Three character LED Display

◆ Dimensions: 11¹⁵⁄₁₆ x 9 x 3⅜˝ (WDH)

◆ Accessories: AC Adapter (ACI Series/ PSB-1U)

Two High-Quality Effects Processors

◆ The first processor is a Loop (Send/Return) effect processor that gives you 10 varieties of reverb/delay effects.

◆ The second is an Insert effect processor that offers 35 multi-effects algorithms. These include everything from distortion, compressor and pitch shifter to proprietary Groove effects like Slicer, Lo-Fi and Isolator.

Wave Acceleration Synthesis overcomes the limited polyphony and sounds of modeling-based synths. You get up to 32 voices, plus 67 waveform variations from traditional analog waves to entirely new waveforms like Spectrum and variable Noise. And when combined with the Subsonic mode, you can create everything from thick bass sounds to entirely new sounds not possible on traditional synths. There's even drum maps with samples taken from the TR-808/909 Rhythm Composers.

MIDI Keyboard Controller

The A-37 MIDI Keyboard Controller is designed with today's MIDI musicians in mind. Whether controlling a rack of synths or a sophisticated computer-based setup, the A-37 puts you in control with 76 velocity- and aftertouch-sensitive keys, GM2 compatibility and an easy-to-use inter-face. And all of these practical features come in a cool-looking design that will appeal to your sense of style as well.

◆ Affordable 76-note controller keyboard for MIDI studios and performance

◆ Synth-weighted keys respond to velocity and channel aftertouch

◆ GM2-compatible; 128 User patches and 2 independent keyboard zones

◆ Easy to use with improved 7-segment, 3-digit LED and assignable Data Entry slider

◆ Convenient sequencer Start/Stop buttons, Clock TX and Transpose buttons

◆ Includes 2 independent MIDI outputs, MIDI In and Thru, plus Hold and Foot Pedal inputs

◆ Battery or AC powered

AX-7
MIDI Controller Keyboard

Building on the legendary design of the AX-1, the new AX-7 MIDI Keyboard Controller offers stage performers more freedom and expressiveness. Just strap it on and you're front-of-stage with the band. A host of controllers—including a D-Beam—opens up a new dynamic for live players,
while the AX-7's attractive pearl white design looks great on stage. It's also very easy to use, thanks to a new LED display, expanded patch memory and GM2/GS compatibility.

◆ 5 realtime controllers: Data Entry knob, Touch Controller, Expression Bar, Hold button and light-sensing D-Beam

◆ 128 patches with data backup via MIDI

◆ Stage-oriented shoulder keyboard in attractive pearl white body

◆ 45-note velocity-sensitive keyboard—perfect for solos and bass lines

◆ Intuitive operation via new 7-segment LED display

◆ 2 MIDI zones for independent control of Upper/Lower parts

◆ GM2/GS Compatible

◆ Battery or AC powered

ROLAND

MC-909

Sampling Groovebox

The MC-909 Sampling Groovebox is Roland's ultimate tool for professional music production. Combining an expandable synthesizer based on a custom wave ROM with a professional sampler and sequencer, this revolutionary studio offers power, flexibility and unrivaled ease-of-use. A USB port makes it possible to exchange samples and Standard MIDI Files with a PC, while onboard effects and mastering processors give producers the ability to create "finished" tracks. Audio and MIDI can be integrated, synthesized and sequenced together within a single, easy-to-use environment.

FEATURES

An "SRXpandable" Sound Set

◆ 16-part multitimbral with 64-voice polyphony.

◆ 32MB of cutting edge dance-oriented ROM containing 800 Patches, 64 Rhythm Sets with 693 all-new waveforms exclusively sampled and created for this next-generation workstation. Each patch contains up to 4 tones.

◆ Sounds include everything from house pianos and organs to edgy techno hoovers and stabs—plus favorites like the JP-8000 "SuperSaw" waveform and distorted TB-303 sounds. There are also plenty of basses, pads and sound effects perfect for any track, along with the most complete assortment of dance drum kits ever assembled.

◆ As easy to program as an analog synth thanks to a generous supply of knobs, buttons and sliders.

◆ An expansion slot is provided for adding an optional SRX-Series Wave Expansion Board. The SRX-05 "Supreme Dance" expansion, in particular, features special Patches that can only be accessed with the MC-909.

Flexible Sampling

◆ 16MB of sample memory, expandable to 272MB using optional DIMMs.

◆ Audio can be recorded via the stereo analog inputs or digitally using the optical or coaxial S/PDIF inputs.

◆ Audio loops and phrases can be sequenced right alongside MIDI tracks as the MC-909 synchronizes your loops automatically.

◆ Samples can also be used as raw waveforms in the synthesizer section.

◆ Samples can be triggered chromatically via the velocity-sensitive pads or via an external MIDI keyboard.

◆ .WAV and .AIFF files can be imported from a computer via the onboard USB port.

◆ Upon completing your final mix, you can resample the output and export it back to your PC for CD burning.

Pro Sequencing

◆ 16 track linear and pattern ased sequencer with Tempo and Mute Control Track.

◆ 16-note drum machine-style keyboard with velocity-sensitive pads.

◆ 480 pulse per quarter note resolution and an approx. 1,300,000 note capacity

◆ Tempo is variable from 5 - 300 bpm

◆ Built-in "Piano Roll" style editing) allows you to to view multiple notes at once using the pads and LCD.

◆ Store up to 50 songs in internal memory

◆ 128 Preset and 128 User Arpeggio Styles

◆ Import and export Standard MIDI Files (Format 0/1) via USB.

◆ Patterns can be up to 998 measures

Chop, Stretch and Loop

◆ Numerous graphic Wave Editing functions are provided including truncating and looping samples

◆ The Timestretch function allows you to change a loop's tempo, to match your song, without affecting pitch.

◆ The Chop functions provides the means of slicing up a loop into individual beats that can be re-arrange and re-quantized to create customized grooves

Club-ready Presets with all of the Latest Dance Styles

◆ 215 Preset patterns, programmed by professional producers, fully exploit the onboard synth and drum sounds. These hard-hitting grooves include many popular styles like UK hard-house, trance and the latest "broken-beat" hip-hop and R&B. Use the presets as a starting point for your own grooves or play them "as-is."

◆ You can create or customize an additional 200 of your own patterns plus you can store another 999 to using an optional SmartMedia card.
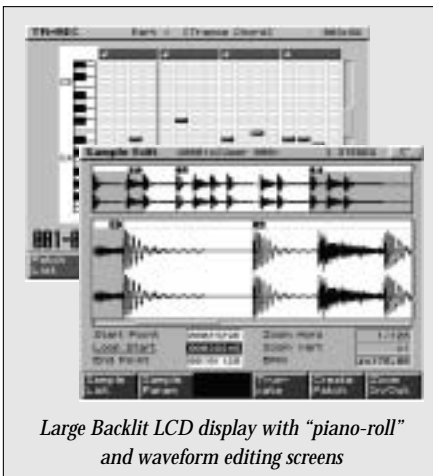
Large Backlit LCD display with "piano-roll" and waveform editing screens

Studio Quality Effects

◆ A 24-bit reverb is available for applying to each sequencer part.

◆ A dedicated compressor allows you to get tight bass and drums without sacrificing a multi-effect.

◆ Two independent multi-effects (MFX) provide the means of taking the internal sounds and your own samples into new dimensions. These effects include a steep 36dB/oct filter and an amazing Step Filter as well as up to four seconds of tempo-synced delay, phasing, distortion and a host of other proprietary effects like Lo-Fi, Slicer and COSM Amp Modeling.

Dedicated Mastering Effects

◆ The dedicated Mastering processor includes a 3-band compressor, with dedicated knobs for each frequency band, for creating "final" mixes that have incredible clarity, definition and punch.

PRESET PATTERN LIST

Techno	1-22	Psy. Trance	1-7	G-Funk	1-11
Minimal	1-13	US HardHouse	1-7	Abstract	1-6
Hardcore	1-5	Progressive	1-7	Electro	1-6
Ambient	1-6	Garage	1-10	Reggae	1-5 (Dance Hall)
Drum'n'Bass	1-13	Disco	1-3	Reggae	6-9 (Lovers)
Break Beats	1-14	House	1-6	Reggae	10-11 (Roots)
Euro Trance	1-9	R&B	1-18	Reggae	12 (Dub)
Hard Trance	1-11	Hip Hop	1-13	...total 215 patterns	

SmartMedia Storage

◆ A SmartMedia slot is provided for storing User data such as samples, Patches, Rhythm Sets and patterns—all on ultra-thin, 3.3V SmartMedia cards from 8 to 128MB.

Easy Operation and Performance Control

◆ The large LCD screen makes it easy to locate sounds, sample audio, edit waveforms and sequence MIDI arrangements.

◆ Almost all major parameters are accessible via dedicated knobs, sliders and buttons.

◆ The dedicated Part Mixer provides real hands-on mixing.

◆ The Turntable Emulation function uses real-time timestretching to allow you to adjust pitch and time independently for MIDI or audio

◆ The twin D Beams use an infrared beam of light for controlling patches, tweaking filters and more.

◆ Tempo can be dialed in directly or tapped with the dedicated Tap Tempo button

Rear Panel Connections

◆ Two 1/4˝ inputs: input one is mic/line switchable; while input two is line only.

◆ 1/4˝ stereo headphone output

◆ MIDI In and Out connectors

◆ Coaxial and Optical S/PDIF digital inputs and outputs

◆ The onboard USB interface makes it possible to import or export .WAV/AIFF files with a computer, or even exchange Standard MIDI Files with software sequencers like Cubase, Logic and Performer.

◆ Six 1/4˝ line outputs configured as 3 stereo pairs

ROLAND / BOSS

SP-303

Dr. Sample

The BOSS SP-303 Dr. Sample offers DJs and musicians a compact, easy-to-use portable phrase sampler with CD-quality sound, 8-note polyphony, 26 onboard effects and a real-time pattern sequencer–all at a price unmatched by the competition. For sampling and effects processing anytime, any place, the SP-303 can't be beat.

◆ Compact phrase sampler with 44.1kHz sound quality and 8-note polyphony

◆ Onboard sampling time expandable via optional SmartMedia cards

◆ DJ-friendly operation via large, luminous sample pads and three knobs

◆ 26 groove effects including new Vinyl simulation; internal resampling

◆ Realtime pattern sequencer with quantize function for easy song creation

◆ Selectable Gate, Loop and Reverse triggering of samples

◆ Accepts up to 64MB SmartMedia (optional) for sample/sequence storage

◆ Imports .WAV/AIFF files stored to SmartMedia cards. (Requires optional SmartMedia adapter or PCI adapter card.)

◆ AC adapter included

SP-505

Groove Sampling Workstation

The BOSS SP-505 Groove Sampling Workstation is the ultimate tool for working with samples, loops and laying down beats. This compact box gives you eight voices of CD-quality sampling, sophisticated sample editing tools including Chop, Pitch and BPM Sync, plus a 4-part sequencer for creating grooves using samples or onboard Tones. And with 26 killer DSP effects—plus an easy graphic interface with realtime control knobs—the SP-505 has everything groove musicians need to build cutting-edge tracks.

◆ Compact sampling workstation with onboard sequencing and effects

◆ 8 voices of CD-quality sampling, expandable up to 128MB via SmartMedia*

◆ Chop function divides loops and maps individual samples to pads

◆ Pitch function for playing back samples at new pitches as on a keyboard

◆ BPM Sync function instantly matches up to 16 phrases to the same tempo

◆ 64 onboard Tones with drums, bass, keyboard, synth sounds and more

◆ 4-part Pattern Sequencer with Quantize for easy song creation

◆ Intuitive graphic LCD (with waveform display) and three knobs

◆ 26 effects like Tape Echo, Isolator and Vinyl Simulator with resampling and realtime control

◆ Imports .WAV/AIFF files via SmartMedia*; Coaxial/Optical Digital inputs

SmartMedia cards sold separately; SmartMedia adapter or PCI adapter card required for .WAV/AIFF conversion.

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ROLAND / BOSS

DR-3 *Dr. Rhythm*

With the DR-3 Dr. Rhythm, guitarists and songwriters can add incredible-sounding drums and bass to their music. This ultra-affordable drum machine includes some of BOSS' best acoustic and electronic drum kits and a selection of bass sounds. Great for jamming, the DR-3's Rhythm Progressions and multiple variations make it easy to create a realistic-sounding drum track for any style of music. And with Total Sound Control, you can tweak your kits to perfection.

◆ BOSS' most affordable drum machine for jamming or practice

◆ Realistic drum, percussion and bass sounds with velocity-sensitive pads

◆ New Rhythm Progressions with 3 variations each for Intro, Verse, Fill and Ending

◆ New TSC with Sound Shape function and Ambience for professional drum sounds

◆ 100 Preset Styles and 100 User styles programmable via realtime or step recording

◆ Footswitch input for easy live control; runs on AC or battery power

DR-5 *Dr. Rhythm Section*

The DR-5 Dr. Rhythm Section is an innovative new concept in rhythm composers. Designed for guitarists, songwriters, live performers or anyone, it features a programmable backing band including bass, drums and keyboards.

◆ 256 16-bit percussion/instrument sounds, 64 drum kits (48 Preset /16 User)

◆ 400 patterns (200 Preset + 200 User)

◆ 20 songs

◆ External pitch function for triggering the internal sounds from a guitar

◆ 4-track composer, MIDI In/Out for interfacing to external devices

◆ Guitar In with built-in tuner and amp simulator

DR-670
Dr. Rhythm

As the follow-up to BOSS' hugely successful DR-550mkII, the DR-670 Dr. Rhythm stands as one of the most feature-packed and affordable drum machines in BOSS history. This compact rhythm-creation tool offers all the acclaimed sounds from BOSS' flagship DR-770 model, while adding enhancements like velocity-sensitive pads, footswitch control and much more.

◆ Affordable BOSS drum machine with 255 superb-quality drum and percussion sounds

◆ Velocity-sensitive pads permit very expressive rhythm pattern programming

◆ New Bass part allows for programming bass lines using 16 different bass sounds

◆ 200 versatile preset rhythm patterns and 200 user-programmable patterns

◆ Large LCD for confirming pattern tempo at all times

◆ Foot control jack permits connection to optional footswitch for hands-free start/stop and fills

◆ Unique pad interface designed like a bass guitar neck for easy programming of rhythm/bass lines

◆ Direct Pattern Play function lets users assign internal patterns to pads for triggering "on the fly"

◆ Selectable battery or AC operation

YAMAHA

MOTIF 6 / MOTIF 7 / MOTIF 8

Music Production Synthesizers

The MOTIF 6, 7, and 8 are 61- and 76-note synth action, and 88-note weighted action keyboards respectively. All three models are potent music workstations that feature the equivalent of 85MB of wave ROM, onboard sampling with 4MB of RAM (expandable to 64MB), a high resolution 16 track sequencer with a 200,000 MIDI note capacity, studio-quality effects processing and extensive expansion options for customizing the MOTIF to suit your style and taste. The MOTIF's real-time control modes allow the four sliders and real-time control knobs to function as 16 virtual sliders and 16 virtual knobs. These controls can even be used to as a 16 channel control surface for computer-based DAWs including Logic Audio, Pro Tools, Cubase , and Cakewalk. The MOTIF also features a vast arsenal of connectivity including dual 1/4″ inputs and outputs, USB, high-speed SCSI, and an expansion slot that can hold a card supporting Yamaha's mLAN i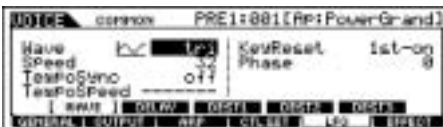nterface. Or you can use that last expansion slot for the AIEB board which adds six assignable analog outs and S/PDIF. A Smart Media slot is also included to transfer data, using standard 3.3V media.

FEATURES

◆ The 61-key MOTIF 6 and the 76-key MOTIF 7 each feature synth action, FS keyboards with initial touch and aftertouch.

◆ The 88-key MOTIF 8 is a fully-weighted, balanced hammer effect keyboard with initial touch and aftertouch.

Expandability

◆ The MOTIF's Modular Synthesis Plug-in System allows you to add up to three expansion boards, each of which adds a completely new, full-fledged synthesizer or sound processing "engine" to your arsenal.

◆ These expansion boards not only add new sounds, but you gain more polyphony and additional multi parts — without taking any processing power away from the keyboard itself.

◆ A diverse range of synthesizer expansion boards is available, including analog physical modeling, FM synthesis, vocal harmony processing and more.

AWM2 Modular Synthesis

◆ 16-part multitimbral and 62-note polyphony (expandable with Modular Synthesis Plug-in System boards)

◆ 85MB of internal wave ROM (when converted to 16-bit linear format) containing many of the best waveforms from Yamaha's highly acclaimed S80, 9000 Pro, EX Series and RS7000 synthesizers as well as a wealth of new and improved waves.

◆ 384 Preset voices, 128 GM voices and 128 User programmable voices ranging from expressive stereo acoustic instruments like pianos, drums, strings and brass to never-before- heard dance sounds and lush ambient textures.

◆ Voices are comprised of up to 4 elements (waveforms) and have access to a myriad of editing functions including a resonant filter (21 types), multi-waveform LFO, amplitude and filter envelopes and more.

◆ 48 Preset drum kits; 1 GM kit and 16 User programmable drum kits

◆ You can also create up to 128 User Performances each containing up to four voices. Each of the four voices can be layered and/or split to create even rich and more expressive sounds.

◆ The Category Search Function allows you to quickly search and browse sounds via a selected voice category (such as pianos or strings).

◆ A Favorites category provides easy access to the voices you need the most.

Sampling

◆ 4MB of sampling memory expandable to 64MB using affordable PC SIMMs for a maximum total sampling time of 6 minutes and 20 seconds (stereo, 44.1kHz).

◆ Reads sample maps and voice parameters for Akai S1000/S3000 and Yamaha A3000/A4000/A5000 samplers. you can also import AIFF and WAVE files.

MOTIF 6 / MOTIF 7 / MOTIF 8

Integrated Sampling Sequencer

◆ The 200,000 MIDI note sequencer supports linear based recording as well as pattern-based sequencing which offers the flexibility of assembling your song as individual elements (Verse, Chorus, Bridge, Breaks, etc.).

◆ The Song Mode recording feature allows you to combine MIDI and audio data in a linear fashion from beginning to end.

◆ The Slice with Sequence function takes a recorded audio phrases and slices it into pieces (based on amplitude peaks and divisions of the beat) and then generate an extremely accurate MIDI sequence to perfectly re-trigger each of the pieces. This will allows you to rearrange or change the tempo of grooves without effecting the audio phrase's pitch.

Groove-Oriented, Real-time Pattern Chain Record

◆ The various MIDI and audio parts of your songs can be arranged in real-time using dedicated Section, Mute and Song Scene buttons. These buttons allow you to instantly audition different arrangement possibilities, and then record these performances as Pattern Chains. The Pattern Chains can then be edited using the detailed event editor, and upon completion, you can convert them back to a linear song formats like SMF.

Interactive Arpeggiator

◆ The Arpeggio features a an extensive range of rhythmic sequences, as well as "human" patterns such as the strumming of a guitar or the trilling of a flute. These performances were create by using real MIDI data recorded by real musicians.

◆ 256 Preset and 128 User arpeggitaor types are available.

◆ A velocity window which opens up unprecedented possibilities; for example, while playing a lead guitar voice, you could trigger a sampled MIDI guitar phrase on the fly by hitting a key hard.

◆ Arpeggio performances can be recorded into your sequences and you can import new arpeggios from Standard MIDI files.

◆ The Arpeggiator can be synced to MIDI

Effects

◆ There are 2 categories of effects processors available: System Effects; and Insert Effects.

◆ The System Effects section provides access to an independent Reverb (12 types) and Chorus (25 types) processor. A Send control allows you to dial in the desired wet dry mix for each effect. In Performance and Song modes, you also have access to 25 different Variation effects including amp simulators, wahs, sonic enhancers, LoFi effects and more.

◆ There are two Insert Effects available that can be used on a single voice or assigned to individually to different part, when used in Performance or Song modes. Insert 1 offers a choice of 25 effects types, while Inert 2 offers 104 types

◆ A Master 5-band Equalizer is also provided for fine tuning the overall sound before the final output stage.

SmartMedia Card Slot

◆ Easily store your samples on a SmartMedia Card Slot card and transfer them to your personal computer for editing. This storage method also makes it easy to save and load Standard MIDI Files.

Total Hands On Control

◆ 240 x 64 dot backlit LCD display

◆ Four physical sliders and four physical knobs are available on the front panel, with up to four functions available to each, can be assigned to edit the Reverb, Chorus, Pan, Cutoff, Resonance, Attack, Release and EQ as well as 4 user-assignable parameters.
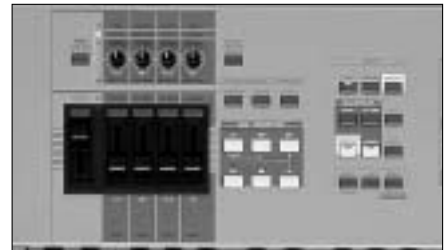
◆ In Mix mode, these sliders and knobs work in conjunction with the Track Select buttons to give you all the capabilities of a 16 channel digital mixer.

◆ Mix mode can even be used as a real-time external control surface for your favorite sequencing software, including Emagic's Logic Audio, Steinberg's Cubase, Digidesign's Pro Tools and Cakewalk's SONAR.

Inputs and Outputs

◆ Two stereo pairs of 1/4˝ analog outputs plus an optical S/PDIF digital output.

◆ Dual 1/4˝ analog inputs with gain control are provided for sampling

◆ 1/4˝ stereo headphone output

◆ MIDI In, Out and Thru connectors

◆ The Built-in USB MIDI interface is ready to connect directly to your iMac, G4 or newer G3 Macintosh computer as well as any USB-equipped Windows PC (Windows 98 or later).

◆ The 25-pin SCSI Port allows you to connect an external ZIP, MO, or hard drive to MOTIF for easy storage of large amounts of sample data. The SCSI interface provides fast loading times expected by performing musicians.

Optional Multi-Out Expansion Board

◆ The AIEB2 expansion board gives you 6 assignable 1/4˝ analog audio outputs as well as both optical and S/PDIF digital outputs.

Connect to the Future of MIDI and Audio — mLAN

◆ Yamaha's mLAN protocol allows you to link together all your digital audio and MIDI data through a single high-bandwidth IEEE-1394 FireWire cable.

◆ MOTIF is ready for the latest generation of mLan expansions and future mLan products, so you'll be able to stay current with future possibilities.

YAMAHA

MOTIF RACK

128-Voice Sound Module

Perhaps the most requested Yamaha product of '02, the Motif Rack is more than just a single rack version of the award winning Motif synthesizer — its newly designed sound chip that delivers 128 note polyphony and enough DSP to accommodate 8 simultaneous insert effects, in 16 Part Multi Timbral Mode. The core Voices of the rack are identical to the keyboards with the addition of two new Preset Voice Banks and 256 User Editable Voices (twice the size of Motif). Two Yamaha PLG cards slots allow for expansion of polyphony, effects and synthesis capabilities. To insure complete connectivity, the Motif Rack offers six 1/4˝ outputs (Stereo Main plus four individual assignable outs) as well as coaxial and optical digital outputs. Plus the Motif Rack comes with both standard MIDI and USB interfacing along with Voice Editing, File Utility, Multi Part Editing software, allowing you to take full advantage of your computer and the Motif Rack's MIDI capabilities The Motif Rack is perfect for both Motif owners who want to expand the power of their Motif system or for those of you who already have plenty other keyboards and just want the Motif sounds in a convenient rack mount size.

FEATURES

Single Rack Space Tone Generator

◆ A newly designed sound chip provides 128 notes of polyphony as well as up to 4 insert effects when used in the 16-part multitimbral Mix mode.

768 Preset Voices and 59 Preset Drum Kits

◆ 48MB of onboard wave ROM (84MB when converted to 16-bit linear format) with 896 Preset voices (including the General MIDI bank) and 65 preset drum kits – the core Voices of the Motif keyboard are all there plus there's an additional two new Preset Voice Banks.

◆ 256 User voices and 32 User drum kits

Effects

◆ System Reverb (20 types including 3 New "R3" type Enhanced Reverbs) and Chorus (44 types)

◆ Up to 8 Insert Effects (107 types) -2 for voice mode, 4 x 2 for Multi mode.

◆ Each of the 16 Parts has access to it's own 3-band EQ in Multi Timbral Mode.

◆ A 5-band Master EQ is also provided

Multi Library

◆ A Multi Library of 124 different Multis is provided, each with its own specially programmed effect, equalizer and other settings, and each designed particularly for a specific style of music or application.

◆ Since they are categorized according to music type, you can quickly and easily call up the settings you need.

◆ The Multi Libraries also serve as convenient templates to create new, original Multis – just select a Multi, then tweak it and customize it as needed.

User Interface

◆ An intuitive user interface with a large data wheel and dedicated function buttons provide quick access to all functions.

◆ The 160 x 64 dot backlit LCD provides clear and easily viewable display of all the Motif Rack's parameters.

Expansion

◆ Two expansion slots are provided for adding any of Yamaha's PLG Modular Synthesis Plug-in Expansion boards, resulting in new sounds, effects, additional notes of polyphony and new synthesis engines.

◆ Bundled with a Windows and Mac compatible CD-ROM that contains a dedicated Voice Editor and Multi-part editor.

Arpeggiator

◆ Onboard arpeggitor with 256 presets patterns.

Inputs and Outputs

◆ Stereo 1/4˝ main outputs plus four individual 1/4˝ outputs.

◆ Optical and coaxial digital outputs

◆ 1/4˝ stereo headphone output on the front panel

◆ Built-in USB MIDI interface plus MIDI In, Out, and Thru connectors

MIDI EQUIPMENT

1260

YAMAHA

Performance Synthesizers

The 61-key S03 and 88-key S08 are versatile, yet highly cost effective, performance synthesizers with full 64-note polyphony and 25 MB of wave ROM (at 16-bit linear conversion). Yamaha's AWM2 tone generation and over 700 incredible sounding voices, including full XG and GM compatibility, provide a complete palette of high-quality sounds: stereo grand pianos, funky basses, analog pads and pounding drum kits. A selection of onboard effects, including chorus and reverb and variations such as distortion and "wah," may also be applied. You can create your own sounds (including analog-style synth sounds with the 64 resonant low pass filters) and store them in any of 128 user-voice memory locations. Panel switches, a large custom-designed LCD display and controllers that include pitch bend and mod wheels provide full control and access to all functions.

The portable S03 features 61 keys with Initial Touch, while the larger S08 features an 88-key balanced hammer design with Initial Touch. Both units feature left and right 1/4˝ outputs, a stereo headphone out, MIDI In, Out and Thru connectors, as well as foot switch and foot controller inputs. Both units come bundled with Yamaha XGWorks and Voice editing software for both the PC and Mac. The S03 also offers a TO HOST serial port for direct connection to a PC or Mac. The S08 offers a USB port for computer interfacing and has a smart media slot for MIDI file playback and patch storage.

FEATURES

◆ 64 note polyphony and 16-part multitimbral

◆ 25.2 MB wave ROM (in 16 bit linear format) with over 700 sounds including: 480 XG/GM compatible presets, 128 additional Presets and 20 Drum Kits

◆ 128 User presets and 2 Drum Kits are also provided

◆ 3 Effects Blocks with 64 types

◆ 32 user-definable Multis

High Quality Digital Effects

◆ Independent Reverb (11 types) and Chorus (11 types) processors as well as a wide selection of Variation effects (42 types) such as delays and distortions

User Interface

◆ Large custom backlit LCD display makes it easy to see the names of voices and other parameters at a glance.

◆ Quick Access and Category Search

◆ Pitch bend and modulation wheels

The S08 adds

◆ 88 key weighted (Balanced Hammer) action Synthesizer

◆ SmartMedia slot provides an cost effective

◆ Playback Sequencer for playing Standard MIDI Files direct from SmartMedia

◆ USB interface

XGworks lite V3.0A

◆ The included XGworks lite software is a comprehensive yet easy-to-use MIDI and audio sequencing package that gives you everything you need to produce fully arranged songs with your S03, including 100 MIDI/audio tracks for recording, a built-in database of music styles, full editing and mixing capabilities and more.

◆ The Voice Editor features an intuitive graphical user interface, making it a snap to edit the keyboard's onboard voices.

Dimensions

◆ S03: 38¼ x 11¼ x 3¼˝ (Weighs: 12.56 lbs.)

◆ S08: 52¾ x 15¼ x 6˝ (Weighs: 44 lbs.)

YAMAHA

S30 • S90

Music Synthesizer

The S30 is an expandable synthesizer with a 61-note keyboard, full 64-note polyphony, 64 multi-mode resonant filters, effects, an arpeggiator and 24MB of wave ROM. On-board voices include 256 presets with stereo-sampled pianos, strings, brass, as well as a complete sonic palette of other high-quality sounds. You can create your own sounds and store them in any of 128 user-voice memory locations. There are also 128 user-storable performances for layers, splits and multitimbral sequencer setups. A plug-in expansion slot allows the S30 to accept Yamaha's PLG Modular Synthesis Plug-in Expansion boards, which essentially adds new synthesizers and effects processors to the system.

The S90 is Yamaha's most feature-packed S series synth to date. It features an 88-note weighted Balanced Hammer Effect keyboard and a synth engine that contains the best sounds of Yamaha's flagship MOTIF synth with an exquisite three-layer grand piano sample. The S90 is also equipped with three expansion slots for Modular Synthesis Plug-in System boards, so you can add new and exciting synthesis capabilities as your musical needs dictate.

FEATURES

- 61 key synthesizer with initial and after-touch
- 64 note polyphonic and 16 multitimbral parts (17 parts with PLG installed)
- 256 Preset voices and 8 drum kits
- 128 internal and 128 external User voices plus 2 internal and 2 external drum kits.
- 128 internal and 64 User Performances.
- A SMF playback sequencer is provided with direct play from Smart Media and chain playback for up to 100 songs.

Effects

- Dedicated Reverb (12 types) and Chorus (23 types) processors as well as an Insert effects (92 types)

Controllers

- 4 zone MIDI master controller functions with 128 memory locations.
- 5 assignable and 2 data entry knobs plus 4 assignable sound control sliders.

Expansion

- 1 slot for PLG series Modular Synthesis Expansion Boards
- 3.3 volt SmartMedia memory card slot for expansion and storage (cards up to 128 MB are supported)

Inputs and Outputs

- Four 1/4˝ outputs: Stereo Main plus two assignable outputs.
- 1/4˝ A/D inputs
- To Host serial Port for interfacing with a PC or Mac.
- MIDI In, Out and Thru connectors
- 2 foot pedals inputs, 2 foot switch inputs plus Breath Controller input

Arpeggiator

- The onboard arpeggiator provides full MIDI capabilities and offers 128 patterns, (from standard Up and Down patterns to catchy melodies and drum patterns)

Bundled Software

- CDROM with XGworks Sequencer, Voice editor and card filer included

The S90 Adds

- 88 key weighted action keyboard with initial and aftertouch
- 110 MB wave ROM featuring a 25MB 3 layer S700 piano (in 16 bit linear format)
- 384 Preset voices and 48 drum kits plus 128 GM voices and 1 GM drum kit.
- 128 User voices and 16 drum kits
- 128 User performances
- 256 preset and 128 user Arp patterns
- 3 PLG slots for Modular Synthesis Expansion System Boards
- USB port for easy computer interfacing

Dimensions

- S30: 39⁷⁄₁₆ x 13⁵⁄₁₆ x 3⅛˝ (Weighs: 17.6 lbs)
- S90: 53⅜ x 15⅛ x 6⅜˝ (Weighs: 51 lbs.)

YAMAHA

PLG Plug-in Expansion Boards

Yamaha's Modular Synthesis Plug-in System is a revolutionary expansion system that adds a COMPLETE SYNTHESIZER or SOUND PROCESSING ENGINE to any Modular-Synthesis-Plug-in-compatible synthesizer. This amazing plug-in board lineup, which includes the PLG150 Professional Series and the PLG100 Standard Series, not only gives you new sounds, but also new synthesis architecture, new effects processors, extra polyphony and more. It's like placing an additional synthesizer or digital effects processor inside your existing keyboard—but at a fraction of the cost!

Once a plug-in board is installed, you can directly access any of its voices and edit them from the front panel of the host synthesizer. You can also use a PC-based software editor (bundled with each plug-in board) to edit any of the voices in detail. Many voice parameters are MIDI controllable, which, when used in conjunction with MIDI sequencing software, allows you to record realtime edits, such as filter cutoff frequency and effect levels, for automated voice transformation during playback.

PLG100 STANDARD SERIES

PLG100-VH
MIDI Controllable Vocal Harmonizing
• 4 types • Vocoder harmony
• Chordal harmony • Detune and Chromatic harmony

PLG100-XG *XG Wave Set*
• 32 note polyphonic • 3 effects blocks   • 16 Part Multi-Timbral

PLG150 PROFESSIONAL SERIES

PLG150-PF
64-note Polyphonic Piano Tone Generator
• 16 MB Wave ROM • 132 voices

PLG150-DX
Vintage FM Synthesizer Plug-in Expansion Board
• 900+ preset voices • 16 note polyphonic • 64 custom voices
• Part EQ

PLG150-AN
Analog Physical Modeling Tone Generation
• 5 note Polyphony • AN1x compatible

PLG150-VL
Virtual Acoustic Plug-in Expansion Board Monophonic
• 256 preset, 64 internal, 6 custom voices • Compatible with VL70M

PLG150-DR *Live Room Drums*
• 80 preset kits (New Ambient Drums + Motif core kits)
• 8 User kits   • Built in editable effects
• CDROM includes patterns, phrases and PLG editing software

PLG150-PC *Latin Groove Factory*
• 80 kits (Afro-Cuban + Brazilian Percussion)
• 8 User kits • Built in editable effects
• CDROM includes patterns, phrases and PLG editing software

YAMAHA

RM1X

Sequence Remixer

The Yamaha RM1x is a complete Dance Music Workstation that combines a powerful AWM2 tone generator with realtime performance controls and a professional suite of sequencing tools. An intuitive "hands-on" interface pro-vides realtime control over synth parameters, pattern playback functions as well as the three, fully editable effects processors. The 32 note polyphony, 16 part multitimbral synth engine offers access to over 650 voices and 46 drum kits covering all major music styles. The RM1X's 16 track sequencer section delivers a professional-level timing res-olution of 480 ppqn and a sizable memory of 110,000 note events. To help get you right into the groove, the RM1X provides a library of over 7,000 drum, bass, guitar, percussion and keyboard phrases organized into various styles including: Trance, Trip Hop, Hip Hop, Acid Jazz, House and Techno.

FEATURES

◆ MIDI synthesizer tone generator, profes-sional sequencing, and a real-time MIDI controller surface.

700 Dance Oriented Sounds

◆ 16-part multitimbral, 32-note polyphonic, synthesizer with 654 sounds and 46 drum kits designed specifically for today's dance oriented music genres.

◆ In-depth voice editing parameters allow you to customize voices using a compre-hensive range of envelope generator, LFO, filter and other parameters.

Styles, Patterns and Phrases

◆ 60 Preset and 50 User Pattern Styles each containing up to 16 Patterns for a total of 960 preset and 800 User patterns.

◆ Each pattern can playback up to 16 Phrases at a time, such as a bass line or kick drum pattern. You can create up to 256 phrases per pattern.

◆ You can easily mix and match a variety of rhythm, bass, and chordal/melodic phrases to create a virtually unlimited range of new patterns quickly and easily.

◆ The Patch function make it easy to select from the huge selection of 7,726 preset phrases.

16 Track Sequencer

◆ Powerful 16 track, 64-note polyphony sequencer allows you to record using a variety of record modes: real-time replace, real-time overdub, punch-in, step and grid and has a large 110,000 note memory along with a 480 pulse per quarter note resolution.

◆ You can easily record MIDI data via the two octave keyboard or an external MIDI keyboard using features

◆ Detailed sequence editing functions allow you to refine and shape your musical ideas with extraordinary precision.

◆ Because sequence data can be transmit via MIDI you can integrate outboard synths and samplers into your compositions.

◆ The Pattern Chain mode, allows patterns to be easily "chained" together for auto-matic sequential playback.

◆ Up to 20 Songs and 20 Pattern Chains can be stored in internal memory.

◆ The floppy disk drive allows you to load both type 0 and type 1 Standard Midi Files generated by other sequencing applica-tions.

◆ Track data can be freely moved back and forth from Song mode (linear tracks) to the looped-based Pattern tracks.

Real Time Controller Knobs

◆ The two octave keyboard not only allows you to trigger MIDI events: it is also a real-time interface for accessing a range of functions including track selection, transposition, numeric data entry, track mute/solo, and section selection.

◆ Eight controller knobs provide realtime access to virtually every parameter including: synth parameters such as filter cutoff and resonance; envelope decay: pitch bend; effects and more

◆ Controller knob movements can be recorded in real-time, or applied to the sequence data and edited.

◆ The knobs can also be used transmit MIDI control change data for real-time control of external MIDI instruments and devices.

◆ Editing detailed sequence parameters, adjusting track pan or volume, or tweaking effect send levels is made easy thanks to the large 64 x 240-dot backlit graphic LCD and control interface including 4 multifunction knobs located directly beneath the display.

◆ Tap BPM entry lets you define tempos on the fly without entering specific numbers.

◆ The mute memory function lets you specify groups of tracks, which can then be instantly muted or un-muted, by pressing a single-key.

SU700

Three Fully Editable Effects

◆ A fully editable multi-effect system provides independent Reverb, Chorus and Variation effects processors that can be used to add anything from studio-quality reverb and subtle ambience, to delay, modulation, distortion, and an extensive range of other effects.

◆ There are 11 Reverb types, 11 Chorus types and 42 Variations to choose from.

◆ The dedicated Digital Low Boost function delivers earthshaking bass allowing you to boost and cut the main output signal ±24dB over a 50Hz to 2.0kHz range.

Play Effects

◆ An extensive Play FX section includes a number of real-time MIDI processes that can be applied dynamically to song data as it plays. These include: the harmonizing of parts with octave and unison parameters, clock-shifting to move instrument tracks forward or backwards in time, note-duration quantizing and the ability to modify note velocity offset.

Arpeggiator

◆ You can create your own arpeggios via an easy-to use grid interface.

◆ Arpeggio data can be transmitted via MIDI, and recorded to the internal sequencer.

◆ There are five different Arp types to choose from: (Up, Down, Alternate 1, Alternate 2, Random)

◆ You also have control over octave range and hold.

Inputs and Outputs

◆ Dual 1/4˝ (L/Mono, R) outputs

◆ 1/4˝ stereo headphone output

◆ MIDI In and Out connectors

◆ 1/4˝ footswitch input

Sample Factory

The SU700 is a powerful and professional multi-functional music production center which is a hybrid combination of a phrase sampler, 42 track sequencer, tone generator and drum machine. It is an ideal workstation for the DJ and hip-hop artist as well as a valuable compositional, live performance and recording tool for the professional musician.

Quick and Easy Sampling

◆ Sampling times range from 44.1 kHz 16-bit stereo down to 11.025 kHz 8-bit mono

◆ Eight velocity-sensitive composed loop pads

◆ Includes 4MB of sampling wave memory expandable to 64MB.

◆ Sample from a CD-ROM or audio CD, transfer the audio information into the SU700, then edit it, chop it up and slice it any way you want.

◆ Adjustable data format (16-, 12-, or 8-bit).

◆ The Groove Function is a time-slicing function divides loops into discrete sections that can be individually manipulated to create new and interesting rhythms.

◆ Instantaneous Time compression and expansion without pitch change — simply assign a loop or phrase to one of the Auto Loop tracks and you'll instantly have a looping rhythm that automatically matches any selected tempo.

◆ 64-note polyphony

◆ Four types of resonant filters: Low Pass, High Pass, Band Pass, and Band Eliminate.

◆ An LFO with variable rate and depth can be assigned to a sample's pitch, filter or volume for adding tremolo, wah and vibrato effects.

Sequencing

◆ 42 track sequencer with Real Time and Step recording modes.

◆ Tempo is adjustable from 40.0-299.9 BPM, and has a resolution of 480 ppqn.

◆ Built-in 3.5˝ floppy disk drive for saving songs.

◆ Up to 8 Audio Loops can be synced to MIDI clock.

Built-in Multi-Effects

◆ Access up to 3 simultaneous effects from a total of 43 high-quality types including: rich-sounding reverbs, warm choruses and MIDI sync'd delays as well as a wide selection of bizarre effects for creating unique textures.

◆ You can even process any external audio source, such a vocal mic, a keyboard, or a turntable, using the SU700's audio inputs.

Realtime Control

◆ 12 assignable knobs for realtime control of sound, groove, LFO, Filters, effects and more

◆ Use the Ribbon Controller to scratch a sample over your mix.

◆ The unit's sampling, looping, ribbon controller and multi-effects processing capabilities are perfect for the lo-fi, vinyl, scratch approach used by hip-hop music.

◆ You can store up to 8 scenes containing the machine's current knob settings, mute settings, and effect settings, and recall them all at the touch of a button.

◆ Bright Florescent Display

Inputs and Outputs

◆ Left and right 1/4˝ line outputs

◆ Left and right 1/4˝ mic/line inputs

◆ 1/4˝ stereo headphone output with high output level

◆ MIDI In and Out connectors

◆ Optional SCSI interface

YAMAHA

RS7000

Music Production Studio - Integrated Sampling Sequencer

The RS7000 is a complete desktop studio designed to meet the needs of modern music production. It offers a unique and powerful feature set including sampling, a AWM2 tone generator, sequencing and effects with an intuitive user interface and real-time control of virtually every parameter. Perhaps the most unique function is the ability to seamlessly integrate audio and MIDI data. You can import samples from a variety of formats, sample actual sounds from external sources—or even created unique loops and phrases by re-sampling internally sequenced sounds within the RS7000 itself. The Integrated Sampling Sequencer (ISS) automatically breaks the samples into discrete parts (based on amplitude peaks and divisions of time) and generates a corresponding MIDI sequence. This allows loops and phrases of differing tempos to be synched together and processed using MIDI controls to change the Tempo, Swing or any other musical parameter controllable by MIDI. Add to this a plethora of studio and DJ-style effects, SCSI and SmartMedia storage and you realize that the RS7000 is the ideal nerve-center for your next remix, electronica or hiphop project.

FEATURES

On-Board Synthesis

◆ Internal 62-voice AWM2 tone generator with over 1,000 onboard ROM-based synth voices and 63 drum kit sounds.

◆ Six types of filters, including 24dB / 18dB / 12dB Low Pass, Hi Pass, Band Pass and Band Eliminate all controllable with a multi-stage envelope.

◆ The LFO section includes a number of BPM-sync'd waveforms plus a unique user programmable wave for creating unique BPM-sync'd effects.

◆ Sounds edits are stored as part of the song and pattern data, so a virtually unlimited range of user sounds can be created.

Sampling

◆ 4-MB of onboard sampling memory, expandable to 64 MB.

◆ Import samples in RS7000, Wav, Aiff, Yamaha A3/4/5000 and SU700, and AKAI S1/3000 format. Export RS7000 format, WAV

◆ Re-sample internally sequenced sounds to create new audio loops and phrases.

Advanced MIDI Sequencing

◆ The MIDI sequencer offers a choice of pattern-based recording with 16 sections of 16 tracks each, and linear sequencing with a 200,000 note-per-song capacity and a 480 ppqn resolution.

◆ Real-time recording with input quantize, step recording and grid style recording methods are all supported. Advanced editing macros help refine sequences.

◆ Different arrangements can be performed and auditioned in real time using the dedicated section buttons. All pattern and section data can be easily converted to linear sequence song format for final tweaking.

Effects Processing

◆ Three effects processors: Reverb (11 types), Delay/Chorus (22 types), Variation (92 types), plus a separate Master effect section (8 types) with a multi-band compressor, slicer, isolator, and other DJ-style effects.

◆ 4-band parametric Master EQ, plus 5 types of Track EQ (Lo and Hi, 1-band parametric EQ, Boost6, Boost12, Boost18)

Arpeggiator

◆ Type (Up, Down, Alternate1/2, Random), Sort, Hold, Octave range

Hands On Control

◆ 18 assignable knobs and two pads for subtle or radical real time control over sounds, samples and MIDI sequences.

◆ Knobs can be assigned to control the synth and sound parameters, onboard MIDI processors like MIDI echo, harmonize and beat stretch, or to standard MIDI CC messages for controlling external devices.

Inputs and Outputs

◆ 1/4˝ stereo headphone output

◆ Dual 1/4˝ inputs and outputs with 20-bit D-to-A and D-to-A conversion

◆ One MIDI IN and two MIDI Outs

◆ 1/4˝ foot switch input

Storage

◆ SmartMedia Card Slot

◆ 50-pin half pitch SCSI port for accessing HD, removable and CD ROM drives

MRT-3 Micro Rhythm Trak

Zoom's MRT-3 Micro RhythmTrak is an incredible stand-alone drum machine, and is also the perfect add on to any digital audio recorder that lacks a built in rhythm programming. It has a consistent appearance and functions with the MRS-4 4 track digital recorder. The MRT-3 features 7 velocity sensitive drum pads, 50 preset and 20 user drum kits (user can make an original drum kit), 200 preset and 99 user patterns, 99 song memory (maximum notes/events: 10,000), 21 note polyphony, quantizes to 96 PPQN, and tempos of 40-250 BPM.

Connections include a Mono out (Line) 1/4˝ phone jack, Stereo out (Line and Headphone) 1/4˝ stereo phone jack, a MIDI Input and a Control foot switch jack. The unit is powered by 4 "AA" batteries or an optional AC adapter. The MRT-3 links to the MRS-4 4 track, sending its output to the MRS-4's AUX input and is synchronized through the MIDI clock, acting like a built in drum machine.

◆ Works seamlessly with MRS-4
◆ 7 Velocity sensitive Drum pads
◆ 50 Preset, 20 User Drum Kits (User can make original drum kit)

◆ 200 Preset, 99 User Patterns and 99 Songs
◆ 10,000 Maximum notes/events
◆ 21 note Polyphony
◆ Quantize: 96 PPQN

◆ Tempo: 40.0-250.0 BPM
◆ Stereo out (Line and Headphone): 1 x 1/4˝ stereo phone jack
◆ MIDI In

◆ Mono out (Line): 1 x 1/4˝ phone jack
◆ Control In: 1 x Foot switch
◆ Optional AC Adapter: AD-0006D
◆ 4 AA-size battery

RhythmTrak RT-123 - Drum Machine

The functionality of RhythmTrak 234 in a compact body. Play cool backing patterns made up of two drum tracks and one bass track. 297 preset patterns provide a wide variety of popular rhythms. 99 additional patterns can be programmed and stored by the user.

◆ Create a backing sequence with up to 99 patterns. As many as 99 songs can be stored.
◆ Self-lighting pads indicate when sound is produced.
◆ Choose from a variety of 105 built-in super-realistic drum and bass sounds.
◆ LINE IN jack allows connection of external instruments.
◆ Simple and intuitive controls make it a snap to operate even if you have never used a drum machine or sequencer before.

◆ Groove play mode allows changing patterns during play simply by tapping pads on the unit.
◆ Optional FS01 foot switch allows pattern start/stop control or tempo switching. You can also operate an assigned sound such as bass drum or open/closed hi-hat.
◆ MIDI IN connector allows synchronization with external MIDI sequencer or control of the RT-123 from other MIDI equipment.

RhythmTrak RT-323 - Drum Machine

◆ 500 Rhythm Patterns (400 Preset + 100 User)
◆ 55 Bass Programs
◆ 128 Drum Kits (64 Preset and 64 User)
◆ Store up to 100 songs
◆ Assign 12-note Scale for Melodic Bass Patterns
◆ 13 Velocity Sensitive Backlit Pads x 3 Banks
◆ 32 Voice Polyphony

◆ Smart Media Storage Capability
◆ Edit PS-02 Drum / Bass Patterns
◆ Groove Play and Sound Jammer Slide
◆ MIDI In and Out
◆ (6 x AA) Battery or AC Adapter Operation
◆ Large Custom LCD easy-to-read Display
◆ Line Input / 2 Control Inputs / 2 Sub Outputs

YAMAHA

P60 • P60S

Digital Pianos

The P60 or P60S are the perfect pianos from some one who is just starting out and wants to learn to play piano or for the accomplished player who wants a very light weight, portable instrument. It comes in two striking designs – the P60 in Black and the P60S in Silver.

It features the same the GH (Graded Hammer Effect) keyboard found on more expensive Yamaha digital pianos. The GH action of the P60 has the right keyboard feel to insure correct technique and inspire you to play more. The hi quality AWM (Advanced Wave Memory) sampled sounds feature Grand Piano with 30 different sample points for an accurate digital emulation of the nuances of a Grand Piano. The built-in speaker system is specifically designed to reproduce all the tonal quality of the P60's voices including the built in digital reverb to add the ambience of a concert hall to your living room. The MIDI in/out/thru allow you to expand the P60's musical and educational capabilities by connecting it to a home computer.

- ◆ Graded Hammer 88 Note weighted action keyboard for realistic piano feel
- ◆ 32 Notes of polyphony

- ◆ 10 Voices including Grand Piano, EP, Pipe Organ and Strings
- ◆ Dual voice mode to combine two sounds

- ◆ Digital reverb
- ◆ 20W x 2 amplifier
- ◆ MIDI IN/OUT/THRU

P120 • P120S *Stage Pianos*

Whether you're practicing at home, playing with the band, or doing a live solo performance, the Yamaha P series offers a range of models with just the features you need. All boast superb acoustic and electric piano voices along with a number of other essential instruments such as organs, bass, and even strings. And thanks to their GH (Graded Hammer effect) keyboard, the action on these digital pianos is as close to the real thing as you can get. Of course, what else would you expect from the world's leading manufacturer of acoustic pianos. The voices onboard the P-120/P-120S are among the very best available on the market today. In addition to their rich and expressive stereo-sampled piano voices, they also feature a range of other essential instruments including electric pianos, harpsichord, organs and strings.

- ◆ 88 key weighted Graded Hammer action
- ◆ 64 note polyphony
- ◆ 2 Stereo acoustic and 2 electric piano voices, 2 organs, strings , bass, harpsichord, Clavichord and more each with Variation

- ◆ Split and layer modes
- ◆ Sustain pedal with half-pedaling capabilities
- ◆ 3 song 2 Track 10,000 note sequencer
- ◆ 2 effect processors
- ◆ PC interface

- ◆ Stereo Speakers with On/Off/SW (sub-woofer) switch
- ◆ 120 Black/Mahogany
- ◆ 120S Silver/Cherry
- ◆ Optional Stand LP120 & LP120S

Portable Professional Piano

As the successor of the famous P-80 the P-90 recommends itself as a professional portable Digital Piano for the stage. Due to the triple Dynamic Stereo Sampling (DSS) and special sustain and key-off samples its piano sound is incredible natural and accurate. With its 64 notes polyphony the P-90 stands even long sustained passages. 24 Voices include not only piano sound, but organs, strings, choirs and basses, too. Using the Split or Layer functions two Voices can be played simultaneously - in two separated keyboard ranges (Split) or unison or layered (Layer). Eight digital effects do the polish on the sound. The Graded Hammer keyboard is responsible for the realistic touch - like on a acoustic piano the weight of the keys increases to lower notes. Its 2 headphones jacks and many internal demo songs make the P-90 ideal for music lessons. MIDI In/Out and the TO HOST interface recommend it as a master keyboard for large setups or computer aided music production. Power adapter, music rest and a sustain pedal are included.

◆ 88 weighted keys (Graded Hammer)
◆ 24 Voices
◆ 64 notes polyphony

◆ 8 effects: Room, Stage, Hall 1, Hall 2, Chorus, Phaser, Tremolo, Delay
◆ Dual/Split mode ◆ 2 track sequencer

◆ Build-in stereo-amplification
◆ 2 Headphones jacks
◆ MIDI In/Out, integrated TO HOST interface

P250 *Professional Stage Piano*

The P250 features three levels of Yamaha CFIII Grand piano stereo samples for dynamic selection according to your touch on the keyboard. The result is a delicacy of tone and expression that emulates the experience of playing a real piano. And to give the P250 an even more richly detailed sound, note off samples, string resonance samples and sound board samples simulate the acoustic interaction between different notes. The sound is unmatched, and so is the touch, thanks to the GH (Graded Hammer Effect) keyboard. The GH keyboard uses weights and mechanical linkages to achieve an entirely new level of realism. And to go even further, the key weight is graded from heavier in the lower registers to lighter in the higher, exactly the same as a grand piano's. To deliver the sampled instrument voices and 128 notes of polyphony with all the power and authority they deserve, the P250 features a new speaker system and high power stereo amplifier. The P250 features 16cm polypropylene woofers and a 30 watts per side stereo amplifier. The result is astonishingly lifelike power.

◆ Graded Hammer 88 Note weighted action keyboard for realistic piano feel
◆ 128 Notes of polyphony
◆ Acoustic Piano Voices with Three Velocity DSS (Dynamic Stereo Sampling), Note Off samples, String Resonance samples for realism and expressiveness
◆ 38 Panel Voices plus an extra 480 XG voices for a complete palette of sounds

◆ 16 Track Song Recorder with 223 Songs and 770 KB of Internal Flash Memory
◆ Digital reverb and digital effects, Dual mode and split mode, MIDI/TO HOST PC interface
◆ Built-in Speaker system with 16cm polypropylene woofers and 30 watts stereo amplifier

YAMAHA

PF500

Contemporary Keyboard

The PF500 brings the Yamaha's years of experience in creating great sounding digital pianos to a new market with the fresh contemporary design of the new PF series of products.
The Yamaha engineers built the ultimate piano sounds into the PF500: AWM with Dynamic Stereo Sampling (DSS). The PF500 features three levels of Yamaha CFIII Grand piano stereo samples for dynamic selection according to your touch on the keyboard. The result is a delicacy of tone and expression that emulates the experience of playing a real piano. And to give the PF500 an even more richly detailed sound, note off samples, string resonance samples and sound board samples simulate the acoustic interaction between different notes.

The sound is unmatched, and so is the touch, thanks to the GH (Graded Hammer Effect) keyboard. Unlike conventional digital piano keyboards that use springs or oil dampers to simulate a piano feel, the GH keyboard uses weights and mechanical linkages to achieve an entirely new level of realism. And to go even further, the key weight is graded from heavier in the lower registers to lighter in the higher, exactly the same as a grand piano's.
To deliver the new sampled instrument voices with all the power and authority they deserve, the PF500 features a new speaker system and high power stereo amplifier. The PF500 features 16cm polypropylene woofers and a 30 watts per side stereo amplifier. The result is astonishingly lifelike power.

FEATURES

The PF500 includes all the features you would expect from a Yamaha Digital Piano including:

- ◆ Graded Hammer 88 Note weighted action keyboard for realistic piano feel
- ◆ 128 Notes of polyphony
- ◆ 16 Track Song Recorder with 223 Songs and 770 KB of Internal Flash Memory
- ◆ 16 voice demo songs, 50 preset songs
- ◆ Custom 3-foot pedal (Damper, Sostenuto and Soft) with half pedal effect
- ◆ Selectable dual mode and split mode

AWM Dynamic Stereo Sampling

- ◆ Acoustic Piano Voices with Three velocity DSS (Dynamic Stereo Sampling), Note Off samples, String Resonance samples for realism and expressiveness
- ◆ 38 Panel Voices plus an extra 480 XG voices for a complete palette of sounds including strings, brass, woodwinds, synthesizers, drums and more
- ◆ Digital reverb, chorus and brilliance
- ◆ Bundled CD-ROM with USB driver, File Utility and demo software

- ◆ Built-in Speaker system with 16cm polypropylene woofers and 30 watts stereo amplifier
- ◆ MIDI In, Out and Thru, To Host and USB ports
- ◆ Two 1/4˝ stereo headphone outputs
- ◆ Dual Aux Inputs and Outputs
- ◆ Pedal and Aux Pedal
- ◆ Keyboard stand, music rest and Three Pedals included
- ◆ Dimensions: Main unit with keyboard stand 56⅚˝ x 19⅚˝ x 30˝ (92 lbs., 9oz)

B&H PHOTO - VIDEO - PRO AUDIO *EQUIPMENT LEASING AVAILABLE*

PF1000

The PF1000 features a weighted action 88 note GH keyboard , 96 notes of polyphony and three velocity layer Dynamic Stereo Sampling to provide the highest quality piano sounds and performance available on the market. It also features unique home entertainment features including auto accompaniment music styles and lyric and notation display. Dynamic Stereo Sampling features three levels of Yamaha CFIII Grand piano stereo samples for dynamic selection according to your touch on the keyboard. The result is a delicacy of tone and expression that emulates the experience of playing a real piano. And to give the PF1000 an even more richly detailed sound, string resonance samples and sound board samples simulate the acoustic interaction between different notes.

The addition of styles adds instant musical enjoyment no matter the level of your musical skills. A new 240 X 340 LCD makes operation incredibly easy and offers a score display for more performance versatility and learning support than ever before. So it's easy for anyone to grow, learn and enjoy music on the New Yamaha PF1000. For a new level of performance versatility, Yamaha offers a huge selection of over 800 voices. Besides incredibly realistic Piano voices and XG voices, these include new Sweet, Live, Cool and Natural voices.

You get a choice of built-in Normal, Session, Pianist and Piano Combo accompaniment styles covering virtually any musical genre. What's more, each style has three intros and endings, four variations, four fill-ins and one break. Using these accompaniment styles lets everybody, even beginners, give accomplished solo performances. Music Finder offers an extensive range of music styles with pre-programmed voices and effects setups.

FEATURES

- ◆ Graded Hammer 88 Note weighted action keyboard for realistic piano feel
- ◆ 96 Note Polyphony
- ◆ Large 320x240 LCD for ease of use and for displaying musical scores and lyrics
- ◆ 194 Music Styles each with 3 Intros & Endings, 4 Variations and 4 Fills
- ◆ Tunings include: Flat/Stretch (Natural Piano Voice only) Equal Temperament, Pure Major/Pure Minor, Pythagorean, Mean Tone, Werckmeister/Kirnberger, Arabic 1/2

AWM Dynamic Stereo Sampling

- ◆ Acoustic Piano Voices with Three velocity DSS (Dynamic Stereo Sampling), Note Off samples, String Resonance samples
- ◆ Huge selection of high-quality voices (308 panel + 480 XG + 16 drum kits)
- ◆ 6 blocks of digital effects (Reverb, Chorus, DSP)
- ◆ Custom 3-foot pedal(Damper, Sostenuto and Soft) with half pedal effect
- ◆ Score/lyrics display function and video out jack

- ◆ Built-in Speaker system with 16cm polypropylene woofers and 30 watts stereo amplifier
- ◆ Two 1/4˝ stereo headphone outputs
- ◆ Keyboard stand, bench, music rest and Three Pedals included
- ◆ Microphone Input
- ◆ MIDI In, Out, and Thru A & B
- ◆ To Host Connector for PC
- ◆ Dimensions: Main unit with keyboard stand 56⁵⁄₁₆˝ x 19⁵⁄₁₆˝ x 30⅛˝
- ◆ Weighs 94 lbs., 13 oz.

YAMAHA

PSR172

Portable Digital Keyboard

The PSR172 represents a remarkable value in a 61key, MIDI capable keyboard, complete with 100 voices and styles and educational components in the form of the Yamaha Education Suite. Finally, a portable keyboard in this price range designed specifically for the more demanding needs of Music Retailers. The PSR172 is perfect for the beginning music enthusiast on a budget. Yamaha quality at an affordable price.

- ◆ 61 Full-size keys
- ◆ 100 AWM voices
- ◆ Yamaha Education Suite 2
- ◆ Portable Grand
- ◆ DJ button
- ◆ MIDI In/Out

- ◆ 100 Preset rhythm styles
- ◆ 4 Multi-pads for drum sounds or musical phrases
- ◆ Multi-fingering auto accompaniment
- ◆ 100 "One Touch" settings

- ◆ 16 Note polyphony
- ◆ Large LCD screen
- ◆ 100 Demo songs with Music Minus One and Song Book
- ◆ Headphone jack
- ◆ Stereo speaker system with bass ports

- ◆ Music rest
- ◆ Sustain Pedal jack
- ◆ Power: 6 'D' batteries or PA3C power adapter
- ◆ Bundled with Portable Keyboard Survival Kit

PSR273 *Portable Digital Keyboard*

The all new PSR273 is a breakthrough in sound quality for a keyboard at such a low price. For the first time in this price position, Yamaha has included its famous XG-Lite voice compatibility resulting in the very best sound while still being GM compatible. XG-Lite also results in more voices. A lot more voices!
The PSR273 is perfect for computer/internet use with a dedicated "PC" button that makes connectivity fast and easy. With GM compatibility, a touch sensitive keyboard, backlit screen, the Yamaha Education Suite, and more, the PSR273 is more value and performance than has ever been offered at such an affordable price point.

- ◆ First model in line that has a backlit LCD
- ◆ General MIDI compatible: Internet ready
- ◆ Touch Response: expressive touch like a piano
- ◆ XG Lite offers 100s of high quality Voices & DSP effects for better Internet compatibility
- ◆ PC Button: Memorizes your favorite computer setup

- ◆ "Portable Grand" button with stereo-sampled piano
- ◆ Yamaha Education Suite: helps you learn to play
- ◆ 100 Internal songs with Song Book
- ◆ 100 "One Touch" Settings
- ◆ 100 Styles

- ◆ 32 Note polyphony
- ◆ Dual & Split mode
- ◆ Transpose
- ◆ Headphone jack and Sustain pedal jack
- ◆ Music rest (included)
- ◆ Power: 6 'D' batteries or PA3C power adapter

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YAMAHA

EZ150

Lighted Key Keyboard

The new EZ150 represent the second generation of lighted key technology. The EZ150 brings Yamaha sound quality, the learning support of lighted keys, and the Yamaha Education Suite to a new, lower, price point. With 100 built in songs, you'll be playing in minutes. The LCD display actually shows the notes on a staff so that you can see what you're playing. This second generation lighted keyboard takes all this form and function to a lower more affordable price point. It's all good.

- 61 Full-size lighted keys
- 100 AWM Voices
- 16 Note polyphony
- Yamaha Education Suite 3 with 100 Built-in Songs and Music Book
- Portable Grand

- MIDI In/Out
- 100 Preset rhythm styles with two variations each
- 4 Multi-pads
- Multi-fingering auto accompaniment
- 100 "One Touch" settings

- LED screen
- Headphone and Foot Switch Jack
- Stereo speaker system with bass ports
- Music rest
- Power: 6 'D' batteries or optional PA3C power adapter

EZ250i *Lighted Key Keyboard*

The EZ250i marks a new direction in Yamaha Portable Keyboards. Portables with MIDI connectors and General MIDI compatibility have always been a natural fit for computers and the Internet. The EZ250i brings that relationship even closer with the addition of a USB connector and associated software. EZ250i, with it's lighted keys and educational functions and features, is the first Yamaha portable to be bundled with Konami's Keyboard Mania software. Making playing the keyboard fast, fun, and easy, is what this combination is all about. Kids relate to the gaming and parents relate to the learning.

- 61 Full-size lighted keys with Touch Response
- "Keyboard Mania" learning game and Song Filer bundled with keyboard
- USB Connection for easy Computer Connectivity
- Flash ROM: Download new songs into the keyboard for learning
- Portable Grand   480 Voices
- GM/XG Lite Compatible

- Dual & Split mode
- PC Button: Memorizes your favorite computer setup
- 32 Note polyphony
- 38 Digital Effects
- Yamaha Education Suite 3
- MIDI In/Out
- 100 Styles with 2 variations each
- 6-Track Sequencer
- Multi-fingering auto accompaniment

- 100 "One Touch" settings
- 2 Registration pads (x 8 banks)
- Large Backlit LCD screen
- 100 Songs with Song Book
- Foot Switch Jack
- Headphone jack
- Two-way stereo speaker system with bass ports
- Music rest
- Power: 6 'D' batteries or PA3C power adapter

YAMAHA

PSR350

The PSR-350 comes complete with a remarkable new Music Database. Simply choose from over 200 song titles and the entire keyboard prepares itself for that song; it couldn't be easier. It also helps that the PSR-350 includes a beefed up version of the popular Yamaha Education Suite 2.
The sonic quality has also been ramped up with an incredible selection of 128 General MIDI voices, 480 Extended voices and significant increases in voice memory and new bass ports. Plus, the PSR-350 gives you the ability to write Standard MIDI files to disk so you can send music over the Internet for others to enjoy.

- ◆ 61 Full-size keys with Touch Response
- ◆ 2 Note Polyphony
- ◆ 4MB Wave ROM (PSR-340 X 2)
- ◆ Yamaha Music Database (208)
- ◆ 128 Panel voices + 480 XG Lite Voices + 10 DJ voices
- ◆ 38 Digital effects ◆ 26 Harmony types
- ◆ 3.5˝ Disk Drive Writes Standard MIDI file to disk

- ◆ GM Compatible
- ◆ Yamaha Education Suite 2 with 100 built-in Songs
- ◆ Portable Grand
- ◆ MIDI In/Out
- ◆ 106 Preset rhythm styles with 2 variations
- ◆ 6-Track sequencer
- ◆ Multi-fingering auto accompaniment
- ◆ "One Touch" settings: One per style

- ◆ Large backlit LCD screen with icons and characters
- ◆ Headphone jack
- ◆ Footswitch jack
- ◆ 2-way stereo speaker system with Bass Ports
- ◆ Music rest
- ◆ Demo disk
- ◆ Power: 6 'D' batteries or PA5D or PA6 power adapter

PSR550

Yamaha PSR-500-series keyboards have always been powerful, now they're also colorful. The PSR-550 is one of the first portable keyboards in its price range to include a backlit, multi-color LCD display. The color changes by function to simplify operation. The EZ Navigator — Yamaha's great interactive help — has also been improved to make the PSR-550 still easier to use.
Yamaha's remarkable new Music Database makes playing songs a simple proposition as well. Choose from over 200 song titles in the database and the PSR-550 will set itself up for that song. Yamaha improved the PSR-550's sound over its predecessor by more than doubling the voice memory and by adding new voices and styles.

- ◆ 61 Full-size keys with Touch Response
- ◆ Multi color display with icons and characters
- ◆ 8MB Wave ROM Memory (PSR540 X 133%)
- ◆ Music Database (220)
- ◆ AWM Voices: 219 panel + 14 drum kits + 480 XG (includes GM)

- ◆ 74 Digital effects
- ◆ 22 Harmony types
- ◆ 3.5˝ "Disk Direct" disk drive
- ◆ Pitch bend wheel
- ◆ 4 Multi-pads
- ◆ MIDI In/Out
- ◆ "To Host" connector
- ◆ 112 Preset rhythm styles
- ◆ 16-Track sequencer

- ◆ Multi-fingering auto accompaniment
- ◆ 448 "One Touch" settings
- ◆ 128 Registration memories
- ◆ 3 User styles
- ◆ "Direct Access" button
- ◆ 32 Note polyphony
- ◆ Improved "Easy Navigator" on-screen guide

- ◆ 9 Demo songs
- ◆ Footswitch jack
- ◆ Headphone jack
- ◆ 2-way stereo speaker system with Base Ports
- ◆ Music rest
- ◆ Demo disk
- ◆ Power: 6 'D' batteries or PA5D or PA6 power adapter

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EQUIPMENT LEASING AVAILABLE

The first thing you'll notice about the PSR1100 and 2200 are the displays. Large, back lit, bit mapped graphic displays are able to show lyrics, scores and tons of information available in seven different languages. Just put in a disk, push play and the song starts, the sheet music is displayed and the words to the song appear in time to the music. If you care to sing along, the PSR2200 includes a microphone input with vocal harmony technology. As the song plays through the PSR2200, you read the words in the display as you sing through the microphone, and the PSR2200 harmonizes with you in your voice in real time. Amazing. Improvements over previous models include double the voice wave ROM memory and new and improved style and voice content for spectacular sound, a USB connector for fast and easy computer connectivity, and improved operating functions. Added to the PSR1100 over its previous model is the ability to display scores like the PSR2200.

PSR1100

- ◆ Contemporary new look
- ◆ 61 Full-size keys with Touch Response
- ◆ Huge Bitmap Screen displays both Lyrics and Score
- ◆ USB Connection makes computer hookup a breeze
- ◆ Download & Play Scorch XF Files (Piano Score with Lyrics & Chords) from the Internet using built-in styles
- ◆ Double the Wave ROM and Flash ROM of the PSR-1000 translates to better sound and more User Memory for storing Songs, Registrations & other data

- ◆ First in the line with 4 Auto Accompaniment Variations & includes many new Styles
- ◆ Over 700 Realistic instrument voices including stunningly realistic "Sweet" and "Cool" Voices and 169 Preset Rhythm Styles
- ◆ 16-Track Sequencer
- ◆ Music Finder provides hundreds of keyboard setups by Song Name
- ◆ 32 Note polyphony
- ◆ 74 Digital effects
- ◆ 22 Harmony types
- ◆ 3.5˝ "Disk Direct" disk drive

- ◆ Pitch bend wheel
- ◆ 4 Multi-pads
- ◆ MIDI In/Out
- ◆ Multi-fingering auto accompaniment
- ◆ 676 "One Touch" settings
- ◆ "Direct Access" button
- ◆ Help wizard in 6 Languages
- ◆ Footswitch and foot volume jacks
- ◆ Headphone jack
- ◆ 2-way stereo speaker system
- ◆ Includes Music rest, demo disk and PA300 Power Adapter

PSR2100

- ◆ More Wave ROM means Better Sound
  - 50% More Wave ROM than the PSR9000
  - 100% More Wave ROM than PSR2000
- ◆ Double the PSR2000 Flash ROM
- ◆ Organ Flutes with Virtual Drawbars
- ◆ Microphone input with Vocal Harmony
- ◆ 64 Note Polyphony
- ◆ New Styles
- ◆ Mod Wheel

- ◆ Large LCD with Notation & Lyrics Views
- ◆ Ultra Realistic Sweet, Live & Cool Voices
- ◆ 16-Track On-Board Sequencer - 32 Tracks via USB
- ◆ 61 Piano-Sized Touch Sensitive Keys for Expressive Playing
- ◆ 793 Instrument Voices and 181 Accompaniment Styles Play Any kind of Music

- ◆ Custom User style capability – create your own styles
- ◆ 3.5" Disk Drive to load/store songs, styles & setups
- ◆ Interactive help in 6 languages
- ◆ Stereo Two-Way Speakers with Bass Ports Create a Dynamic Sound System
- ◆ Music Rest Included
- ◆ 2 Footswitch Jacks

YAMAHA

PSR K-1

Portable Digital Keyboard with Karaoke

The Yamaha PSR K-1 is new from the ground up with innovations never before available in this price point and some never before available at any price. Start with the new, bitmap graphic display that, in addition to the standard information, displays both the score and lyrics during song playback. USB replaces the standard MIDI jacks and make connecting to a computer a breeze. The all-new "Performance Assistant" function allows you to play along with the song. You can't play a wrong note. Save your music to the smart media card, another first at this price point. And, for the singers among you, sing through the included, handheld microphone. There's something for everyone and every member of the family in the PSR K-1.

◆ First Portable Keyboard from Yamaha with a Karaoke Focus

◆ 8MB Smart Media card for song storage (included)

◆ USB equipped for ultra fast computer connectivity

◆ MusicSoft Downloader included on CD-ROM: Download new songs from the Internet

◆ Microphone with Digital Effects included

◆ Large FullDot LCD displays Score, Lyrics & Chords

◆ 61 Full-size keys with Touch Response

◆ Magic Performer: play chords along with XF songs - you can't make a mistake

◆ 480 AWM voices: General MIDI & XG Lite Compatible

◆ 46 Digital effects

◆ 26 Harmony types

◆ Portable Grand

◆ 100 Demo songs with Music Minus One and song book

◆ 6-Track sequencer

◆ 100 One Touch Settings

◆ Registration Memory

◆ 32 Note polyphony

◆ PC button

◆ 100 Preset rhythm styles with Multi-fingering auto accompaniment

◆ Dual/Split Voice

◆ Footswitch jack

◆ Two-way stereo speaker system with bass ports

◆ Headphone jack

◆ Music rest

◆ Power: 6 'D' batteries or PA3C power adapter

SURVIVAL KIT 2

Portable Keyboards are just that — portable. So if you're looking for the perfect accessory for your Portable Keyboard, this is a must-see. The Survival Kit 2 consists of a Yamaha bag that will protect your keyboard when you want to take it with you and a lightweight, but sturdy, X-Style stand for putting your keyboard on when you get where you're going. There's even a pouch for your music!

FEATURES

◆ Custom Yamaha keyboard bag ◆ Sturdy X-Style stand
◆ Padded shoulder strap ◆ Limited lifetime Warranty
◆ Bag dimensions: 46 x 20˝

STAND DIMENSIONS

Height range: 25.63 x 38.75˝
Length range: 31.50 x 11.0˝   Width: 13.75˝

Portable Grand

The DGX500 is the first Portable Keyboard with piano keys and is the flagship in a new series of instruments from Yamaha called Portable Grand. It is packed with functions and features designed specifically for the new piano user. Included with the DGX500 is a furniture-type stand that completes its piano image. The Yamaha Portable Grand feature in the DGX500 is immediately apparent when you see the large, piano-shaped button in the center of the front panel. When you push it, the best piano is automatically chosen, the auto-accompaniment is turned off, putting the keyboard in full keyboard mode — just like a piano. A piano accompaniment style is automatically selected and is waiting for you if you choose to use it. Next to the piano button is a metronome-shaped button, giving you a built in metronome for practice.

- 88 Piano type keys with Touch Response
- Large Wave ROM features a New AWM (Advanced Wave Memory) Stereo Sample of the Yamaha Portable Grand
- Blue Backlit LCD
- Floppy Disk Drive for storing/learning new songs & loading new styles
- 619 AWM Voices: GM & XG Lite Compatible
- 46 Digital effects
- 26 Harmony types
- Yamaha Education Suite 2
- 208 Music Database Selections
- Pitch bend wheel
- MIDI In/Out
- 135 Preset rhythm styles with Multi-fingering auto accompaniment
- 6-Track sequencer
- 32 Note polyphony
- 100 Demo Songs with Music Minus One and Song Book
- Dual/Split Voice
- Headphone jack
- Two-way stereo speaker system with bass ports
- Stand and Sustain pedal Included
- Music rest
- Power: 6 'D' Batteries or PA5D

DGX300 *Portable Grand*

This is the keyboard that Yamaha customers have been asking for. The DGX300 has all of the incredible features of the DGX500* in a more compact 76-key body. **Keyboard stand and sustain pedal optional.*

- 76 note touch sensitive keyboard
- 3.5˝ disk drive records your settings and musical creations
- 135 upgraded styles
- 610 high quality sounds including a incredible sample of a real Yamaha Grand Piano
- 6 track recorder to create your own performances
- Music Database gives you instant access to a keyboard set up of a well known song
- Yamaha Education system will help teach you to play.
- PC ready button makes it easy to use with a home PC.
- Large Back lit Blue LCD screen
- New speaker system