From the moment you get a musical idea...until you’ve finished the final mix...the new ZR-76 has everything you need to write your next hit. The 76 weighted-action keys are perfectly matched to the 1200 incredible sounds inside. In fact, the included 16 meg Wave Expansion Board, The Perfect Piano™ by William Coakley, sounds and feels so good, you may find yourself tickling the ivories into the wee hours of the night.

If you perform your music live, the ZR-76 has you covered, too. The “Favorites” buttons under the display give you instant access to the sounds you use most. An easy-to-use sequencer, built-in drum machine and a 24-bit effects processor completes the package.

The new ZR-76 is a keyboard that you would expect from ENSONIQ...refined and balanced, great-sounding and easy to use... all at a great price.

Over 1200 Sounds – From realistic instrument sounds to our unique second-generation TransWaves, from analog emulations to evocative digital timbres, plus over 70 drum kits, made up from more than 750 fully programmed drum elements.

Perfect Piano – The ZR-76 comes with our new EXP-4 ROM Expander installed. This 16 meg expander features William Coakley’s acclaimed “The Perfect Piano™”, along with two practically perfect electric pianos.

Idea Pad™ – Whenever you sit down and play, the ZR is recording your performance. If you like an idea you can send it to the 16 Track Recorder for further development.

Drum Machine – Our innovative drum machine is the perfect accompanist, with 8 fills and 8 variations per rhythm, extensive rhythm and drumkit editing, and seamless integration with the 16 Track Recorder.

SoundFinder™ – Makes locating sounds a breeze. The left knob selects the sound category, the right knob selects the individual sound. You can even use the ZR’s keyboard to type in the first few characters of the sound name to instantly locate it.

16 Track Recorder – A powerful 16 track sequencer with advanced quantization options (featuring our exclusive Delta Quantization™), Song Editor, dedicated FX and Mixdown sections, MS-DOS-based disk format, and support for Standard MIDI Files.

24-Bit Effects – Featuring our powerful 24-bit ESP-2 digital signal processor. You also get 6 stereo busses, including 3 global reverb busses, a chorus bus, a dry stereo bus, and an insert effect bus with 40 great-sounding algorithms.
ZR-76 64 Voice Expandable Stage and Studio Keyboard

**keyboard**
- 76 key (E-2) weighted-action keyboard with programmable velocity, release velocity, and velocity during pressure sensitivity
- 3 programmable keyboard zones for splits and layers

**Controllers**
- Programmable Pitch and Mod Wheel
- Up to 4 programmable foot switches (SW-2, SW-6, spiro SW-100)
- Programmable Mode/Volume Pedal (optional CYP-2)

**Outputs**
- 44.1 kHz sample playback rate
- 16-bit D/A conversion with 108 dB dynamic range
- 105 dB signal-to-noise ratio
- 2 Ha-20 kHz frequency range

**Inputs/Outputs**
- Left/Mono and Right Aux inputs (balanced XLR)
- Left/mono and Right Aux outputs (balanced XLR)
- Stereo headphone output
- 1 Volume Expander input, 2 single/dual foot switch inputs
- MIDI In/Out/Thru

**Display/Interface**
- 32 “Favorites” buttons giving instant access to the 32 sounds most used
- Over 230 large, LCD display
- 4 knobs, 89 buttons (with LED backlight), volume slider
- SoundFinder™/RhytmFinder™ interface — one knob selects sound/rhythm type, another knob selects specific sound/rhythm. SoundFinder can be searched by alphabetical or numerical channel numbering, numerically within bank locations (ROM, RAM, Expansion Board, GM, User, Demo), or by keyboard spelling.
- Onboard Help facility

**Internal Sound Memory**
- 648 ROM sounds (2 banks of 128, 79 drum kits, 128 GM sounds, 11 GMs)
- 761 ROM drum samples
- Over 16,500 sounds possible (70 sounds shipped from factory)
- Installed EXP-4 Plus Expaner with Steinberg and 2 Electric Pianos
- 52 ROM Presets

**Wave Memory**
- 112 Megabytes (16 MB) of internal wave ROM, and 16 MB EXP piano expander installed for a total of 50 MB wave ROM. Up to 6 MB additional expansion memory.
- Over 1000 variations possible from the 424 waveforms, including 28 Megabytes (15 MB of acoustic pianos, multi-sampled acoustic instruments and synthesizers, sound genera tion: Trancewave™ (created through digital synthesis and electronic technology), sustained synth waveforms with harmonic and inharmonic structures.
- Movable start-point, forward or backward playback, and multiple-sample key shift (#) for most waves
- Pitch/detuned playback of all waves possible

**Expansion Memory**
- 3 expansion slots, for a total of up to 688 Megabytes (84 MB) of ROM wave data
- A Wave Expandable board holds up to 192 Megabytes (24 MB wave data, multiple banks of sounds up to 128 per bank), and demos
- A FLASH sample memory board provides 4 MB of re-earable FLASH-ROM memory for loading WAV or AIF sampled sounds
- Expansion boards are user-installable

**Performance Features**
- 12 “Favorites” buttons for instant access to 18 user sounds
- Any somenote can be programmed to select “next” or “previous” favorite sound, for hands-free sound selection feature.
- Delicate Layer/Layer buttons, with the ability to save up to 3 sound configurations in a new single sound (for repeating riffs or short sounds as a single track), or as a performance preset
- Each of the 3 zones can play local sounds or external MIDI sources
- External sound “tweaking” global utilizing expansion: 
  - Volume, Volume Velocity: Amp Envelope: 
  - Mix (Envelopes): Attack, Decay, Release: 
  - Pan: Filter Cutoff: 
  - Effects Bus: Filter Envelope: 
  - Pitch Bend Up/Down: Attack, Decay, Release: 
  - Envelope Velocity: Pitch Table: 
  - Level Range Lo/Hi: Glide Mode, Glide Time: 
  - Velocity Range Lo/Hi: LMNot/Noise Tempo Sync: 
  - Velocity Mode: LMNot: 
  - Pressure Mode: LMNot Depth, Delay: 
  - Controller Filtering: 
  - Tuning (Octave, Amp & Filter Sensitive, Fine): 
  - Voice Architecture (accessible via computer)

- 64-dynamically assigned voices
- Dynamically sized voice architecture (up to 16 layers), with the following parameters per voice/preset: 
  - Independent wave selection: 
  - Volume and Pan: Layer: 
  - Delay up to 10 usec on key up trigger: 
  - 2 independent multi-mode digital filters (low-pass, high-pass, variable band-pass band-pass) with key (15 settings, including fractional scaling): 
  - 2-mode envelope generator (time and level) with level and attack time modulability by velocity (9 tracks, cross), key scaling, and response to release velocity: 
  - 22 modulation sources, 8 modulation destinations: 
  - 1 LFO (7 waveforms chosen), can sync to 16 Track Recorder, Drum Machine, or external MIDI clock (82 subvoices): 
  - Variable mix noise generator, can sync to 16 Track Recorder, Drum Machine, or external MIDI clock (72 subvoices): 
  - Octave, semi-tone and fine tuning: 
  - Pitch Bend (15 settings, including fractional scaling): 
  - 41 ROM Pitch Tables (256 per program resolution): 
  - 1 RAM location for creating a pitch table sent from any device that supports the MIDI Tuning Standard (Rumble Tune Deep and Single Tune) 
  - Key and velocity ranges: 
  - Voice trigger options (flip-up or down, MIDI controllable) 
  - Glide mode, glide time: 
  - Monophony playback: 
  - Pitch Bend on/off, held Pitch Bend mode (range is programmable for both positive and negative visible ranges): 
  - Sustain on/off: 
  - Key group assignment: 
  - Drum Kit architecture offers 64 keys (E-2) each key points to a fully-developed sound (up to 16 layers per key), plus effects bus, volume, pan, and tuning override.

**Effects**
- New VLSI 24-bit digital signal processor (ESP-2) with 26 MBPS of DSP power, 52-bit accumulation
- New UMT (Universal Multi-Timbral Interface) with 6 stereo bases: 
  - 3 stereo bases with independent sends into global reverb: 
  - 3 stereo bases with a wet/dry mix into global chorus and a send into global reverb: 
  - 3 stereo bases with a wet/dry mix into an insert effect, a wet/dry mix into global chorus, and a send into global reverb: 
  - 1 dedicated stereo dry-bas: 
  - Dedicated button for global reverb, global chorus, insert effect, and FX bus routing: 
  - 40 effect insert choices (dynamically modulatable by MIDI controllers): 
  - Effects can be routed to Mono or Aux outputs

**Ipad Pad**
- Fast-running sequencer that is always recording in the background, capturing whatever you play on the keyboard.
- Divides up recordings into phrases based on selection of new sounds or pauses in your playing.
- Any phrase can be sent to the onboard 16 Track Recorder for further development.
- Also records the Drum Machine playback to capture rhythm and Fill/Noise options, synchronized with keyboard performances.
- Adjustable buffer size (16 or 31 Kbytes)

**Drum Machine**
- 119 onboard rhythms with 8 Variations and 8 Fill in rhythms, adjustable tempo (25-150), volume, and part muting
- Drum Kit zones (Kick, Snare, Hi-Hat, Cymbal, Tom, Pres/12/5) can be edited to adjust Sound, Volume, Pan, FX Bus, Tuning.
- New drum or percussion kits can be selected from ROM, RAM, or Wave Expansion boards.
- Each Variation and Fill can be set to use pattern data from any other Rhythm (loadable to ROM).
- Rhythms can be sent to Track 10 in the 16 Track Recorder for synchronization with sequence data (files Drum Machine operation).
- New rhythm can be loaded from disk.

**16 Track Recorder**
- 16 tracks, each with a complete set of track parameters (same as performance preset): 
- Up to 64 internal voices per track, dynamically assigned (no limit on MIDI voices per track)
- Exclusive ENSONIQ Delta quantize will re-clock any performance to regular time so it can be used in a sequence: 
- 24 sequence per song structure (3 banks of 8 each, A-B-C) 
- 2MB RAM memory (Recorder and Ipad Pad): 
- 384 PPQ, synchronized to internal or MIDI clock source: 
  - 3 real time record modes - Replace, Add, Stop/Retry, Track Mix, and Final Mix

**Disk**
- 1.4 MB High Density (HDD) 5.25” floppy, MS-DOS compatible.
- Loads and colony standard MIDI Files Type 0 and Type 1, Stores Type 1
- Save All Sessions (all FLASH & RAM), All-RAM (all song, KSM sound bank, rhythm bank), User (bankable in FLASH or RAM), RAM-Bank, User (bankable in FLASH or RAM), User (bankable in FLASH or RAM), User (bankable in FLASH or RAM).

**Standard Accessories**
- ZRD-100 System Disk (contains sounds, rhythms, demos)
- Musician’s Manual
- Dedicated power cord
- SW-4 Single Drum Switch Foot

**Optional Accessories**
- ESP Series Wave Expansion boards
- FLASH Sample Memory Board (ROM and AIF file)
- SW-10 Dual Drummer Foot Switch – 2 pedal piano-type for sustain, sustain, sequence control and other functions
- CV-2 (CV-2 Pad) – for voice/FX modulation, volume control, or MIDI controller transmission
- Dedicated MS-1 mono input

**Physical**
- Dimensions: 50 1/2” (128.27 cm) wide x 5” (12.7 cm) high x 15 5/8” (39.69 cm) deep.
- Weight: 31 pounds (14.1 kilograms) unboxed, 69 pounds (31 kilograms) boxed.

**Limited Warranty**
- One year, parts and labor.
- Prices and specifications subject to change without notice.

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