# one word says it all...





# Bored with your current rig?

OK, forget about everything that's been happening in the keyboard world for the past few years. Get ready for FIZMO!



<u>Not</u> just another virtual-analog-physicalmodeling-retro synth, FIZMO is a stateof-the-art realtime interactive performance synthesizer. Let FIZMO take you for a ride. Pick a preset, turn some knobs, experiment. FIZMO is loaded with features that will add a new dimension to your performance.

# τιΖmō

# Beauty is More Than Skin Deep

FIZMO looks cool, but the real action begins under the hood! The powerful 48-voice synth engine produces classic as well as modern, previously unheard sounds. Exclusive ENSONIQ Transwaves form the foundation of FIZMO's sound. Each transwave is a wavetable of sound data with a number of loops, rather than just one. (We call them frames.) Each frame has a slightly different harmonic structure, and they're arranged sequentially so that the timbres progress naturally from one end to the other. Our voice architecture lets us control which frame is playing-we program the sound patches so that the sound modulates over time, or with velocity or wheel or pressure, or any of a number of other options. The result? Truly moving sounds. Our second-generation digital resynthesis takes the science even further. We've used the latest computer technology to dissect and reconstruct a wide variety of timbres-morphing bell tones and analog favorites, resonance sweeps, as well as physically modeled sounds that never existed until now.



# And FIZMO has lots of knobs...

# See Me, Feel Me, T ouch Me, T weak Me

Sure, FIZMO is packed with exciting presets that will instantly add a new dimension to your sound. But that's only the beginning. A friendly, familiar realtime control interface is coupled to FIZMO's advanced synth engine, creating an entirely new playing experience. Every programming function has its own dedicated knob or button, inviting you to explore. FIZMO is always live. Five "F-I-Z-M-O" tweak knobs provide realtime performance modulation to FIZMO sounds. Each knob controls all current sounds on the keyboard simultaneously and may address several controllers, allowing you to make dramatic changes to a preset instantly. Grab one and give it a twist. You're in control, adding motion and excitement to your music in realtime. All controls may be recorded in realtime to an external sequencer.

# No Stage Fright Here

Splits and Layers are second nature to FIZMO. Working with the default split points allows instant access of up to 4 sounds at a time spread out over the keyboard. Pop them in and out as you need them. Creating your own custom splits is no problem. You can even assign a zone to only play another MIDI instrument or sampler *(like the ASR-X Pro!)*.

# Legendar y ENSONIQ 24-bit Ef fects

ENSONIQ effects are world-renowned for their quality and versatility. FIZMO's on-board 24-bit effects are provided by our exclusive ESP-2, the same chip used by our finest processors and our PARIS<sup>™</sup> hard disk recording system. A Global Reverb is always available with 8 models for Plates, Halls, Rooms, and Huge Places. Each preset can contain one of 41 exciting ENSONIQ insert effects including Chorus, Flanger, DDL, Distortion, Tunable Speaker, Chatter Box, Vocal Morph, Auto-Wah, and a new Vocoder algorithm (*more on that later*). There's even a live mix knob for the Effects, allowing you to dial in just the right amount for the situation.



# Talk It Up

Why spend big bucks on an old box? Plug a microphone into FIZMO's audio input and turn on the Vocoder. The elusive sounds of some of the most coveted vintage Vocoders are yours, no extra charge!

#### **Cruise Control**

The fun continues with the "Intelligent" Arpeggiator . What's intelligent about it? Our engineers carefully crafted the software and presets so that complex, musically useful patterns are available to you instantly. Choose one of the preset musical patterns and start jamming. Latch a pattern and play along with it. Change the patterns while you play, remember this

is a realtime synth. Sync your arpeggios to your sequencer with MIDI clock and cruise.

# High Fidelity, Low Price

Don't let FIZMO's low price fool you. **Crank it up** and hear the rich clarity of 44.1 kHz sounds pumped through the 20-bit converters. And, with a 97 dB Signal to Noise Ratio, FIZMO is ready for any recording situation.

Whether you'r e looking for your first keyboar d and want a quality instr ument that's fun and will inspir e you to lear n, or you own a whole r oomful of gear and you want the axe that will take your music to the next level, you'r e ready for FIZMO!



The realtime interactive controls make you a part of the instrument...a part of the experience



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# SPECIFICATIONS

#### Keyboar d

- 61 key synth-action keyboard with programmable velocity and channel pressure sensitivity
- 4 programmable keyranges, 4 possible zones

#### Controllers

- Programmable Pitch and Mod Wheels
- Programmable dual foot switch (Optional SW-10)

#### Output

- 44.1 kHz sample playback rate
- 20-bit D/A conversion with 100 dB dynamic range
- 97 dB signal-to-noise ratio
- 2 Hz 20 kHz frequency range

#### Inputs/Outputs

- Left/Mono and Right/Mono Main outputs (1/4" unbalanced)
- Stereo headphone output
- Single/dual foot switch input
- MIDI In/Out/Thru

#### Display/Interface

- 4 character 7 segment LED display
- 23 knobs featuring 5 real-time Control (F-I-Z-M-O) Knobs, 34 buttons

#### Inter nal Sound Memor y

- 128 ROM sounds
- Up to 128 RAM sounds possible
- 64 Presets

#### Wave Memor y

- 4 MB of 16-bit internal wave ROM, featuring Exclusive ENSONIQ second-generation Transwaves<sup>™</sup> (created through digital synthesis and resynthesis technologies)
- Pitched/non-pitched playback of all waves possible

#### Effects

- VLSI 24-bit digital signal processor (*ESP-2*)
- UMTE (*Universal Multi-Timbral Effects*) architecture with 5 stereo busses:
  - 3 stereo busses with independent sends into global reverb
  - 1 stereo bus with a wet/dry mix into an insert effect, and a send into global reverb
- 1 dedicated stereo dry bus
- Dedicated buttons for global reverb, insert effect, and FX bus routing
- 41 insert effect choices (can be modulated by MIDI controllers)
- Vocoder with Mic input

#### Performance Featur es

- 5 F-I-Z-M-O realtime Control Knobs. Each knob controls all current sounds on the keyboard simultaneously and may address several controllers.
- 4 dedicated Sound buttons allowing convenient selection, layering and keyrange assignment of presets
- 17 dedicated Sound and Effect editing knobs
  Each of the 4 range can play leach sound on
- Each of the 4 zones can play local sounds or external MIDI sources.
- 48 dynamically assigned voices
- Dual Layer voice architecture with the following parameters (*per layer*):
  - Independent waveform selection
  - Volume and Pan
  - Four-pole dynamic digital low-pass resonant filters with key tracking (33 settings, including fractional scaling)
  - 3 envelope generators than can be modulated by velocity (8 possible curves), key scaling, and response-to-release velocity
  - 22 modulation sources, 8 modulation destinations
  - 1 LFO, 7 waveform choices, can sync to Arpeggiator or external MIDI clock (12 subdivisions)
  - Variable rate noise generator, can sync to Arpeggiator or external MIDI clock (12 subdivisions)
  - Octave, semi-tone and fine tuning
  - Pitch tracking (33 settings, including fractional scaling)
  - 45 ROM Pitch Tables (256 steps per semi-tone resolution)
  - Glide mode, glide time
  - Mono/poly playback
  - Programmable Pitch Bend RangeSustain on/off

\*Some programming functions can only be accessed with a computer using the supplied Unisyn program.

#### Arpeggiator

- Internal or MIDI clock source synchronization
- User selectable pattern, note-rate, notegate time, octave range, harmonic interval enables

#### MIDI

- Supports Bank Select and Program Change reception/transmission
- Able to respond on up to 4 polyphonic channels
- Responds to polyphonic pressure
- 4 system controllers (any of 120 MIDI controllers) can be used for voice or effects modulation, or transmitted via MIDI
- OS updates over MIDI, SMF Format operating system dump

#### Standar d Accessories

- User's Guide
- AC Adapter

#### **Optional** Accessories

- SW-6 Single Damper Foot Switch
- SW-10 Dual Damper Foot Switch 2 pedal piano-type for sustain, sostenuto, and other functions

#### Physical

- Dimensions: 40.5" (102.9 cm) wide x 5" (12.7 cm) high x 13.5" (34.3 cm) deep
- Weight: 26 pounds (11.8 kilograms) unboxed, 43 pounds (19.5 kilograms) boxed

#### Limited Warranty

• One year, parts and labor

Prices and specifications subject to change without notice.

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Part #9345006501

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