



## the kitten synthesizer

is probably the most versatile, fattest sounding, and least expensive single-oscillator keyboard synthesizer made in America. Because of its external patching capabilities, the KITTEN can be used as a starting point in a basic synthesizer system geared toward future expansion or it can be used to expand an already existing system. Its many useful features make it a logical choice for a solo instrument, teaching machine, or many other electronic music applications. And, of course, KITTENS and all of the other CAT family synthesizers can be connected in series with a simple stereo cable and played off of one keyboard.

A full 37 note (C to C) keyboard and multiple triggered ADSR allow super-fast, wide range keyboard technique. In the tradition of CAT synthesizers, the KITTEN combines both ROTARY AND SLIDE POTS for easily distinguishing between modulations depths and other synthesizer functions. The panel graphics reflect human-engineered functional clarity logically outlined for ease of operation.

Among its many features, the KITTEN offers:

### MIXABLE WAVEFORMS

Each of the 5 VCO waveshapes has its own volume slider. This means that you can blend all of the waveforms in any proportion to achieve complex timbres or to get complex modulations when using the VCO as a modulation oscillator or Sample or Hold source.

### THE "FAT-CAT" SUBOCTAVES

The VCO has TWO SUBOCTAVES (one octave and two

octaves below the fundamental oscillator frequency) for aurally simulating the sound of 3 OSCILLATORS and providing the fatness characteristic of the CAT family of synthesizers.

### AN "8-NOTE SEQUENCER" PATCH

The two suboctaves provide more than just a fat sound- In fact, by mixing them with the pulse wave and modulating the VCF in the oscillation mode, you can simulate an 8 note sequencer. The frequency spacing, rhythm and tempo of the 8 note sequence are ALL VARIABLE!

### AN LFO DELAY AND LFO MONITOR

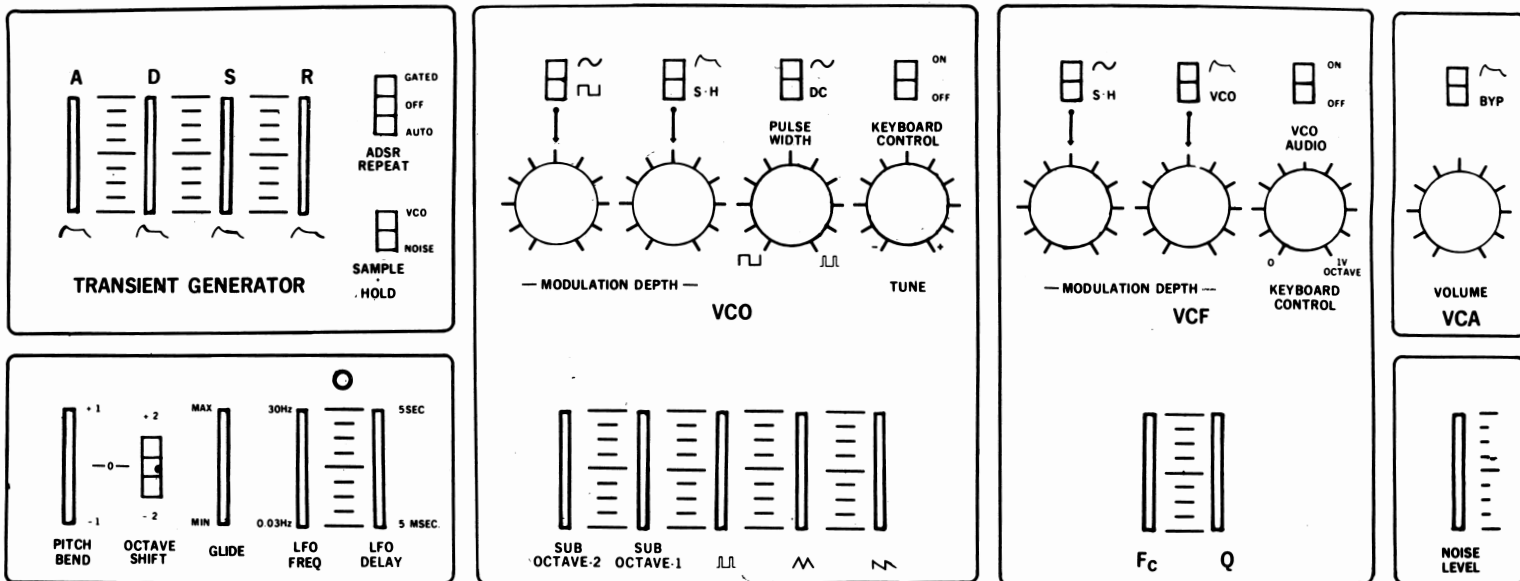
The KITTEN also features an LFO DELAY. This is an incredibly versatile performance device that allows you to preset the time it takes for the LFO sine wave modulations to occur after a key is depressed. This means that you can get delayed vibratos, delayed filter sweeps, and even delayed pulse width modulation - without touching the panel during a performance! And an LFO-MONITOR lets you "see" the LFO speed with a solid state lamp that flashes at the LFO frequency setting.

All of this and an ADSR repeat, automatic Sample & Hold, "Click-stop center-zoned" pitch bend, optional glide on/off switch, VCO sweep pedal and VCF sweep pedal, make the KITTEN a synthesizer whose value and versatility is unsurpassed by its competition.

The KITTEN - Once you've tried one, you'll become a "CAT LOVER".

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## SPECIFICATIONS:

### SOUND SOURCES:

#### OSCILLATOR: *Waveforms-*

- sawtooth, triangle, modulated pulse, sub-octave 1 (one octave below the fundamental oscillator frequency), sub-octave 2 (two octaves below the fundamental oscillator frequency), all simultaneously mixable.

#### *Control-*

- Can be frequency modulated from 4 different sources with 2 modulation depth attenuators.
- In the KEYBOARD ON mode, tune control has a fine tune range of approximately  $\pm 1$  octave, while in the KEYBOARD OFF mode the tune range extends to well over 12 octaves.
- Responds to lowest note depressed in KEYBOARD ON mode and is unaffected by keyboard in KEYBOARD OFF mode.
- Can be controlled by optional pedal.
- Audio can be muted when using VCO as a modulation oscillator.

#### NOISE SOURCE:

- White noise with variable level.

### FILTER:

#### *Response-*

- -24dB/octave, variable resonance, low pass filter.

#### *Range-*

- 20-20 KHz, oscillation mode produces sine wave output.

#### *Control-*

- Can be modulated from 4 different sources with 2 modulation depth attenuators.
- Continuously VARIABLE KEYBOARD RESPONSE from 0 to 1v/octave.
- Can be swept with optional pedal.

### VOLTAGE CONTROLLED AMPLIFIER:

- Responds to ADSR or can be bypassed.

### CONTROLLERS:

#### SAMPLE & HOLD:

- Sampling rate determined by LFO.
- Can sample noise source for random effects or can SAMPLE ANY OF THE MIXED VCO WAVES for complex ordered patterns.

### TRANSIENT GENERATOR-

- ADSR with gated or automatic multiple repeat whose rate is determined by the LFO.

### LOW FREQUENCY OSCILLATOR (LFO)-

- Sine & square wave outputs.
- Frequency adjustable from 0.03Hz to 30Hz.
- LFO MONITOR - a solid state LED lamp flashes at the LFO rate for visual indication of the LFO frequency setting.
- LFO DELAY - delays the sine wave output of the LFO by any variable time between 0-5sec. after a key is depressed for delayed modulation effects.

### KEYBOARD-

- 37 notes (C to C).
- Multiple triggering system.
- Transpose switch shifts unit up or down by 2 octaves.
- Pitch bend shifts unit up or down by 1 octave and has center zone locking position.
- Variable glide can be turned on by external pedal.

### REAR PANEL PATCHING:

- All standard 1/4" PHONE PLUGS FOR COMPATIBILITY.
- High/low level outputs.
- TO-SLAVE; allows access to keyboard control voltage and gate for driving slave units.
- FROM-MASTER; accepts control voltage and gate from external sources and defeats keyboard control.
- THE TO-SLAVE/FROM-MASTER SYSTEM ALLOWS THE CAT FAMILY SYNTHESIZERS TO CONNECT TOGETHER IN A MASTER/SLAVE ARRANGEMENT WITH A COMMON STEREO CABLE AND ALLOWS MULTIPLE SYNTHESIZERS TO BE PLAYED OFF OF ONE KEYBOARD.
- Glide on/off foot switch input.
- Filter pedal input for foot pedal control of filter cutoff.
- VCO pedal input for foot pedal control of VCO frequency.
- External audio input allows other high level instruments to be processed by the VCF and VCA.

### DIMENSIONS:

- 17 1/4" x 24" x 5 1/2" (43.8cm x 61cm x 14cm)