



The CAT SRM - the newest addition to the CAT SYNTHESIZER FAMILY from OCTAVE. It's the subtle things that make it a human-engineered, performance-orientated machine. Subtle things like our combination of ROTARY POTS and SLIDE POTS for easily distinguishing both visually and manually between modulation depth and other synthesizer functions. Subtle things like our ROTARY POTS WITH TOUCH POINTERS let you feel as well as see your settings. Subtle things like the functional clarity of the panel graphics which are logically oriented to correspond with the flow of sound within the unit.

Some things, however, are not all that subtle. For instance-

#### **OUR POLYPHONIC or MONOPHONIC KEYBOARD**

Monophonic keyboards DO have certain advantages that shouldn't be overlooked. For instance, the ability to chop a note by playing a note below it can only be done with a monophonic keyboard. But then again, there's nothing like playing 2 note intervals on your synthesizer. The CAT SRM offers you BOTH, MONOPHONIC OR POLYPHONIC keyboard response at the flip of a switch. And that's not all-

#### **OUR POLYPHONIC 2-NOTE MEMORY**

If you've tried certain 2-note synthesizers, you know how frustrating it can be when you let go of the two notes and both oscillators jump to the last note released. Not the CAT SRM! Our keyboard circuitry incorporates a special 2 NOTE MEMORY SYSTEM which MEMORIZES both the HIGHEST and LOWEST NOTES DEPRESSED to let you sustain intervals even after lifting your hand off of the keyboard! Now you can play the cleanest 2-note polyphonic lines you'll ever need!

#### **OUR "FAT-CAT" SUBOCTAVES**

A suboctave on each VCO makes the difference between a

2 oscillator sound and the "FAT CAT" 4 OSCILLATOR SOUND that characterizes the Cat family of synthesizers.

#### **OUR MIXABLE WAVESHAPES**

Each of the waveshapes on VCO 1 and VCO 2 has its own volume slider, enabling you to mix them in any proportion you need for complex timbres or various modulation effects.

#### **OUR "4 NOTE SEQUENCER" PATCH**

Only by mixing waveshapes can we offer you our "4 NOTE SEQUENCER" PATCH. By mixing the suboctave square and pulse waves on VCO 1 and modulating VCO 2 with it, you can actually get 4 sequenced notes whose frequency spacing, rhythm AND tempo can all be varied.

#### **OUR LFO DELAY AND LFO MONITOR**

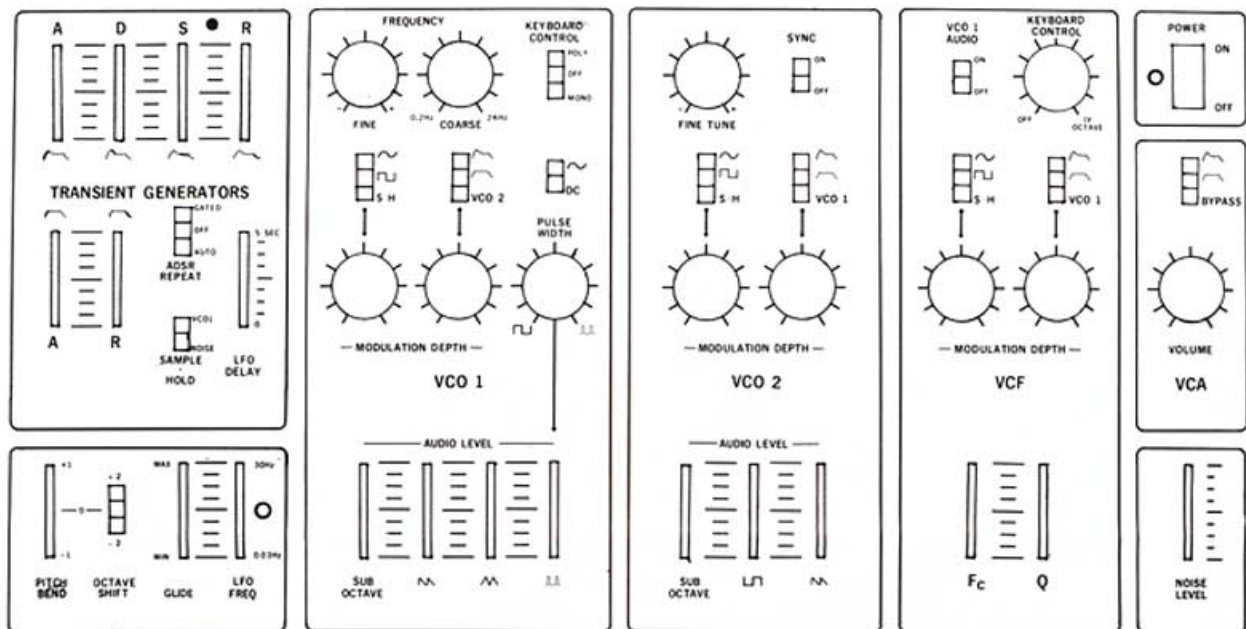
The CAT SRM also features an LFO DELAY. This is an incredibly versatile performance device that allows you to preset the time it takes for the LFO sine wave modulations to occur after a key is pressed. This means that you can get delayed vibratos, delayed filter sweeps, and even delayed pulse width modulation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

Of course, it doesn't stop here. The CAT SRM also accepts an optional GLIDE ON/OFF SWITCH, FILTER SWEEP PEDAL, and VCO 1 SWEEP PEDAL, and, like the entire line of CAT synthesizers, the CAT SRM connects in series with a common stereo cable for master/slave operation.

All of these "subtleties" make the CAT SRM the most performance-orientated and versatile synthesizer in its class. But the only true way to find out is to try it for yourself - once you have, you'll become a "CAT LOVER".

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## the CAT srm synthesizer

### SPECIFICATIONS:

#### SOUND SOURCES:

##### OSCILLATOR 1: WAVEFORMS-

• Sawtooth, triangle, modulated pulse, and sub-octave square, ALL SIMULTANEOUSLY MIXABLE.

##### Control-

- Can be frequency modulated from 6 different sources with 2 modulation depth attenuators.
- Fine and coarse tuning.
- Responds to either the highest OR lowest note depressed on keyboard for MONOPHONIC OR POLYPHONIC keyboard technique.
- Can be set on "free mode" where by the oscillator does not respond to the keyboard.
- Can be controlled by optional external pedal.
- Can be synced to VCO 2 for complex timbres
- Audio can be muted when using oscillator as a modulation source.

##### OSCILLATOR 2: Waveforms-

• Sawtooth, square, sub-octave square ALL SIMULTANEOUSLY MIXABLE.

##### Control-

- Can be modulated from 6 different sources with 2 modulation depth attenuators.
- Fine tune only.
- Responds to the lowest note depressed on keyboard.

##### NOISE SOURCE:

- White noise with variable level.

##### FILTER:

##### Response-

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

##### Range-

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

##### Control-

- Can be modulated from 6 different sources with 2 modulation depth attenuators.

• CONTINUOUSLY VARIABLE KEYBOARD RESPONSE from 0 to 1 volt/octave.

- Can be swept with optional external pedal.

##### VOLTAGE CONTROLLED

##### AMPLIFIER: Control-

- Responds to either AR or ADSR transients or can be bypassed.

##### CONTROLLERS:

##### SAMPLE & HOLD:

- Sampling rate determined by LFO.
- Can sample noise source for random effects or can SAMPLE ANY MIXTURE OF THE FOUR VCO 1 WAVES for complex ordered patterns.

##### TRANSIENT GENERATORS:

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

- AR triggered by keyboard gate.

##### 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
- 2 NOTE MEMORY - dual memory system allows VCO 2 to memorize the lowest note played and VCO 1 to memorize the highest note played after the keys are released.

- Transpose switch shifts unit up or down by 2 octaves.
- Pitch bend shifts unit up or down by one 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 the 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 A COMMON KEYBOARD.
- Glide on/off foot switch input.
- Filter pedal input for foot pedal control of filter cutoff.
- VCO 1 pedal input for foot pedal control of VCO 1 frequency.
- External audio input allows other high level instruments to be processed by the VCF and VCA.

##### DIMENSIONS:

- 19 1/2" x 24" x 6" (49.5cm x 61cm x 15.2cm).

##### WEIGHT:

- 23 lbs. (10.4 kg.).