

MULTI-TRAK

Announcing Sequential's New Multi-Trak, a new achievement in Multi-Timbred synthesis



Sequential is proud to introduce the Multi-Trak, a unique and unbelievably powerful 6-voice synthesizer for \$1499.00 suggested retail! The Multi-Trak brings a new level of excellence to the task of professional quality music making by combining state-of-the-art synthesizer and digital recording technology!

Traditional synthesizers may be polyphonic but, when played, each voice plays the same sound at the same time. With Sequential's new Multi-Trak, you can play six completely different instrument sounds at the same time, and you can do so in three ways. One way is by layering several sounds on top of each other and then playing them from the Multi-Trak keyboard. We call this unique, multi-layered sound technique our "Super Stak" mode. SuperStak mode allows you to assign the Multi-Trak's six voices to play six sounds in unison, to play two keys at a time with three sounds on each, or to play three keys at a time with two sounds on each.

A second way of playing the Multi-Trak, as a multi-timbred "ensemble", is by recording different instrument parts using Multi-Trak's on-board digital recorder. Four separate sequence locations are provided, with a total memory capacity of 1600 notes. Once recorded, your sequences can be linked together in any order to create complex songs. To keep your music on the beat, the Multi-Trak provides a built-in metronome and five different resolutions of auto-correction to correct any minor timing imperfections.

A third method for creating complex, multi-part music on the Multi-Trak is by combining the live playing capabilities of the instrument with its multi-track recording feature. For instance, you might record a bass drum part on track #1, a snare drum on track #2, bass on track #3, and a brass line on track #4. You could then use the two remaining voices to play along "live" on the keyboard during playback of your pre-recorded music.

The Multi-Trak features a five octave keyboard with velocity and split keyboard capabilities. Velocity adds an exciting new dimension to your sound by capturing all of the subtle nuances of your playing. You can use the keyboard velocity to control loudness, brightness, or modulation. The programmable split

feature lets you play different sounds on the keyboard at the same time. You can use this split keyboard capability in conjunction with our popular SuperStak feature to play rich, multi-layered solo lines and polyphonic back up at the same time.

A built-in stereo chorus provides programmable On/Off chorus-ing as well as additional controls to vary rate and depth. Add ambience to your sound without the need of external effects.

The Multi-Trak also features a latchable arpeggiator. (You can latch or release the notes from the front panel or with an optional footswitch.) Other professional features include easy transpose and cassette dump.

THE TECHNICAL STUFF

Each of the Multi-Trak's 6 voices feature a multi-waveform VCO, a noise source, a 4-pole lowpass filter, a VCA, three ADSR envelope generators and an LFO. The Multi-Trak comes with 100 preset sounds.

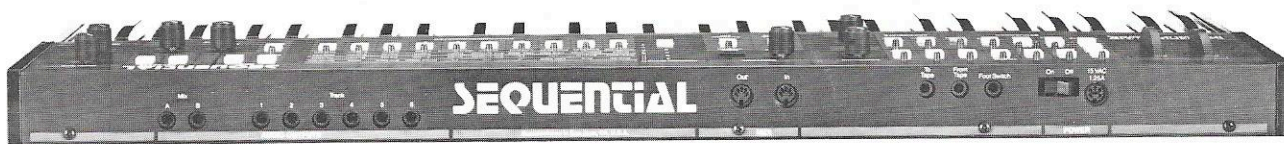
Creating your own sounds is easy. There is a graphic matrix allowing for fast selection and easy editing of 40 different parameters. Parameter values are edited with a single knob.

The back panel contains 1/4" phone jacks for individual output of each of the Multi-Trak's six voices, and two 1/4" main outputs that give you the stereo chorus mix. If one of the individual outputs is put to use, that voice is removed from the mix. A multi-purpose control footswitch, and MIDI input and output are also included.

Sequential supports the Multi-Trak with an extensive array of MIDI functions. OMNI, POLY, MONO, and Sequential's exclusive DOUBLE modes are all available, along with implementation of channels 01 - 16. Through MIDI, the Multi-Trak can send and receive programs from another Multi-Trak, MAX, or Six-Trak, and transfer a song from one Multi-Trak to another. Other MIDI features include the ability to receive and send pitch-bend, modulation, and velocity keyboard information.

SEQUENTIAL

MULTI-TRAK SPECIFICATIONS



VOICES:

Multi-Trak is a six-voice polyphonic multi-timbred synthesizer. Each voice consists of:

One Voltage-Controlled Oscillator:

Waveshapes available are sawtooth, triangle, and variable pulse.

Tuning: 9 octave range.

One Voltage-Controlled Lowpass Filter:

24dB/octave slope.

One Voltage-Controlled Amplifier.

One Low Frequency Oscillator:

Waveshapes available: Square wave, Rate 1-33 Hz

Triangle, Rate: 1-12.5 Hz

Three Envelope Generators (oscillator, filter, amp):

Attack: 7 milliseconds — 12 seconds.

Decay: 7 milliseconds — 12 seconds.

Sustain: 0 to 10 volts.

Release: 7 milliseconds — 14 seconds.

Oscillator and Filter envelopes can be inverted.

One White Noise Generator.

PROGRAMMABILITY:

40 Parameters are available for programming.

MULTI-TRACK SEQUENCER/RECORDER:

6 Tracks:

One voice per track.

Each voice can feature a different program.

Each can be independently overdubbed or erased.

Track Volume: Used to adjust volume of each voice in a sequence.

Speed: Adjusts speed of the sequencer (External clock selection when turned fully counter clockwise.)

Velocity: Records velocity data for each note.

Metronome.

Four Sequence Locations:

Sequence A, B, C, and D.

Total storage for all, 1600 notes.

Sequences Can Be Appended Together.

Auto-correct to 5 Different Resolutions.

Truncate Any Recorded Sequence.

Chained Playback.

Spot Erase Any Track While Recording, Either by Track or Single Key.

Sync-to-tape.

Can use external clock other than MIDI if 24 PPQN.

“Continuous Loop” Over-dubbing (similar to drum machines).

Uses 24 PPQN standard reference internally, so it can be

“post-synced” to drum machines or other sequences.

MIDI Data: Transmits in all modes.

ARPEGGIATOR:

Latched by front panel control or footswitch.

Transposes by touching a new note on the keyboard.

SUPERSTAKS:

10 different polyphonic stack programs can be saved or recalled. Up to 6 different timbres can be played in unison:

3 different timbres from two keys.

2 different timbres from three keys.

SPLIT KEYBOARD:

10 different split keyboard programs can be saved or recalled.

Keyboard split can be designated at anywhere on the five octave keyboard. 6 voices can be assigned 1 to 5 voices on each side of the split. 1 to 5 voices can also be layered to play in multi timbred unison on one or both sides of the split.

KEYBOARD:

Five octave (C to C).

Velocity sensitive.

Control amp envelope.

Control filter envelope.

Control LFO envelope:

Each has an independent velocity-sensitivity control parameter.

STEREO CHORUS:

Programmable On/Off.

Adjustable controls: Rate, Depth.

OUTPUTS:

Stereo Audio Output: 1/4" phone jack (left/right). Can drive stereo headphones from either jack and maintain the stereo chorus effect.

Independent Audio Outputs: 1/4" phone jacks for each voice.

Removes voice from Main Audio output when connected.

Tape Out: For saving programs and sequences to cassette.

Also generates clock for sync-to-tape.

One MIDI: 5 Pin DIN.

INPUTS:

One MIDI: 5 pin DIN

Tape In: For loading programs and sequences from cassette.

Provides for external clock input. Can be used to sync-to-tape.

Footswitch jack: 1/4" phone.

MIDI IMPLEMENTATION: (partial list)

MIDI Modes:

OMNI, POLY, MONO, DOUBLE, MIDI Off.

Channel Assignment:

Channels 01 through 16.

Sends and Receives Velocity.

Program Select Enable/Disable.

Wheel Enable/Disable.

Program Send/Receive:

Send 1 program or all.

Send/Receive Sequences.

The Multi-Trak is backed by Sequential's comprehensive warranty program (6 months) and national service network.

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