

Since its introduction just 10 months ago, the Synclavier II has outsold all other digital synthesizers.

Here's why.

Synclavier II is controlled by the most powerful computer available in any synthesizer made today.

New England Digital Corporation leads the field in the development and use of hardware applications for music synthesis.

New England Digital uses a powerful 16 bit computer that addresses up to 128k bytes of memory. Other digital manufacturers design their systems around micro-computers. Micro-computers are simply not powerful enough to control large numbers of voices on the keyboard at one time. Most current digital systems are limited to 8 usable voices. When these systems try to control more than 8 voices at once, the speed at which these voices can be played on the keyboard slows down considerably. So, for musical applications, more than 8 voices can not be played on the keyboard at one time.

These micro-computers are also not fast enough to permit extensive real-time control of a sound while it is being played on the keyboard. A few real-time features are available while other important features are deleted because of speed limitations of the micro-computers.

New England Digital Corporation designs and builds its own 16 bit computer. New England Digital also designs and builds the Synclavier II synthesizer.

New England Digital's 16 bit computer and Synclavier II synthesizer are so unique, New England Digital has been awarded three (3) basic patents on their design, and has several others pending.

The speed of Synclavier II's computer is unmatched by any other digital synthesizer system on the market today. Synclavier II's computer can easily control up to 32 voices on the keyboard at one time without slowing down. No other digital system in the world comes close to this kind of control.

While some synthesizer manufacturers consider a "voice" to be one separately controlled sine wave, one voice of a Synclavier II synthesizer consists of the following: (1) 24 sine waves, (2) a volume envelope generator, (3) a harmonic envelope generator, (4) very sophisticated digital

FM controls, (5) an extensive vibrato control, featuring up to 10 different low frequency wave forms, (6) a portamento control that can be either logarithmic or linear, (7) a decay adjust feature, permitting lower notes to have longer decays than higher notes.

Synclavier II's digital memory recorder is more sophisticated and has more features than any other synthesizer recorder or sequencer in the world.

Synclavier II's digital memory recorder has enormous capabilities because its computer is fast enough to perform the millions of math computations necessary to make all these features operational at one time.

Here are some examples. Other digital systems generally permit one loop point for their entire recorder. In other words, you can repeat only one musical section of the entire recorder over and over again.

Synclavier II's digital memory recorder enables you to set independent loop points for each of its 16 tracks. Instead of having to loop the entire recorder, you can loop just one track individually. For instance, you could have 8 notes repeating on track #1, with 64 notes repeating on track #3, and 2 notes repeating on track #7, and so on. All 16 tracks can be looping independently but still be in perfect sync.

In addition, you can transpose each separate track individually. Track #6 could be transposed up a 4th, while track #8 was transposed down a 5th, and so on.

Other features made possible by Synclavier II's ultra fast computer.

Sounds can be bounced from one track to another. You can overdub on just one track, without losing the material already recorded on that track. You can change the volume of individual tracks. You can change the speed of the recorder without changing the pitch.

You can change the scale of a piece of music already recorded in the recorder. For example, if you had a piece recorded in the key of C, you could change it to the key of B flat minor without recording a single note in the recorder. Or you could change a piece of music already recorded in the recorder from a tempered scale to a micro-

months ago, her digital systems combined.

tonal scale, without recording a single note over again.

You could keep the notes of an instrument that was recorded on one of the tracks in the recorder, and assign a new instrument to play the previous instrument's notes. For example, if a flute were playing on track #5, you could assign a guitar to track #5 and have it play the flute's notes automatically. You wouldn't have to play the guitar on the keyboard at all.

These are only some of the many features that would not be possible without the extremely sophisticated and powerful computer controlling Synclavier II.

Synclavier II's computer is not only the fastest and most powerful computer available on any synthesizer today, it's also enormously expandable, with A to D converters, D to A converters, real time clocks, printers, modems, and alpha numeric and graphic CRT's.

The New England Digital Computer has had 5 years of proven production and successful sales to scientific end users for real-time applications. This history of steadfast reliability has been a major part of Synclavier II's unparalleled success in a market place choked with new products.

Synclavier II has the fastest and most accessible software available in any synthesizer today.

Synclavier II uses an extremely high level structured language called XPL. XPL has proven to be a rapid and cost effective language which has continually provided the means to add new features to Synclavier II on a regular basis.

Other synthesizers are still using languages which are too limited for our purposes. Assembler is a good example. It is by far a much slower and more difficult programming process to use than XPL. Software improvements made by Assembler language could take months. But with XPL we've been able to add totally new features to Synclavier II in a few days.

New England Digital can add new features to your Synclavier II synthesizer through the mail.

During the 10 months since the introduction of Synclavier II, New England Digital has issued four software updates to the owners of Synclavier II synthesizers. Those updates were mailed out to Synclavier II owners automatically. They included new software that customers had asked for. The updates also included new features and improvements that New England Digital felt were a strong enhancement to the operation of Synclavier II.

When you purchase a Synclavier II synthesizer, you receive all existing software updates. You are also entitled to receive the next three software updates for free. For each additional three software updates, there's a small charge of \$50.00 to cover the cost of three floppy discs, copying the software to the discs, packaging the software with instructions, mailing the software to the customer, and keeping an up-to-date file for each Synclavier II owner.

Software updates ensure the Synclavier II customer that his system will always be **state-of-the-art**. When you buy a Synclavier II, you will automatically be sent new features as they are developed this year, next year, and for years to come.

The Synclavier II synthesizer is not a temporary answer in a technological world moving at warp speed. It is the answer. When you buy a Synclavier II, the instrument improves as fast as our technology improves. Since we're already leading the field of digital synthesis, we feel you are comfortably safe in assuming Synclavier II will be your companion for a long time to come.

When you own Synclavier II, you will never need to sell your "old" system in order to buy a better one. Your Synclavier II system becomes better automatically.

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