

# A breakthrough in computer control for the musician who can't afford to compromise.



## Introducing the AUDITY polyphonic synthesizer system.

The E $\mu$  Systems AUDITY is the ultimate in hybrid synthesizer design, combining the sound and programming ease of a sophisticated analog system with the speed and power of total digital control. The result is an instrument of unmatched versatility—a creative tool for composition, orchestration, and sophisticated live performance.

### Total digital control

An AUDITY can be purchased with up to 16 completely computer-controlled voice cards (more on special order). Unlike other programmable synthesizers, the AUDITY's central computer has independent control of each card, allowing the assignment of different sounds to different synthesizer channels simultaneously.

Sounds are created and modified using the remote programming console (pictured above) and stored in the user's sound library. In addition to single voices, entire orchestrations can be stored in memory as "System Presets." Twelve such orchestration presets are selectable at any one time, allowing the user to change all 16 voice assignments instantaneously with the press of a single button. And since sounds and presets are stored on floppy disc they can be edited and modified with no fear of losing the original.

For all its power, the AUDITY is a remarkably simple instrument to use. No knowledge of computers is necessary. The alphanumeric display prompts the user for the appropriate

actions and, in addition, allows the naming of voices and presets for ease of cataloging and recall.

### The AUDITY voice

All this control would be worth very little if the synthesizer it controlled limited the musician in his creation of sounds. The AUDITY voice has been designed to offer a range of dynamic timbres unavailable from any other programmable synthesizer, analog or digital.

Each AUDITY voice consists of two multi-waveform VCOs with pulsewidth modulation and hard sync; a variable spectrum noise source; *three* filters (voltage controlled, 24dB/octave low- and high-pass filters and a multimode resonant filter); a VCA with linear and exponential response; *four* ADSR transient generators with delay; an LFO with reset, and two signal mixers.

Control voltage "patching" is accomplished through the use of four independent modulation busses (including one capable of delayed modulation). This makes possible the programming of voices previously available only from large modular synthesizers.

### 16 channel digital keyboard/sequencer

The AUDITY controller is a slightly modified version of our Model 4060 polyphonic keyboard. It offers programmable control of keyboard split, channel assignment mode, and transposition. Its built-in 16 channel digital memory sequencer allows the creation of multi-channel compositions of up to 6000

notes in real time—without the need for a multitrack tape recorder. An extensive library of special-function software is available to further extend its capabilities. Included with the keyboard is its own independent disk system for sequence storage.

Although the AUDITY was designed with its own keyboard in mind, it may be controlled by virtually any 1 volt/octave controller. In fact, by dividing the available voices among multiple controllers a single AUDITY can be played by up to 16 musicians simultaneously.

### The bad news

A complete AUDITY, consisting of the system CPU with dual disks, 16 voice cards, remote programming console, keyboard/sequencer with its own disk, and complete system software, costs \$69,200.00.

You get what you pay for.

*For more information about the AUDITY, the 4060 keyboard, and the E $\mu$  modular system, send \$10.00 for the E $\mu$  Systems Technical Catalog with photos, specifications, and functional descriptions of all E $\mu$  products. (Calif. residents be sure to include sales tax.)*

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