



Software for Music and Music Education

MICRO COMPOSER™

An APPLE II® compatible, low-cost music system designed by the folks at MMI for music lovers and students alike. If you thought player pianos were fun, just try our MICRO COMPOSER software/hardware package that turns your APPLE computer into an instant player computer. Instead of paper music rolls, we've got DIGISONG PAKS™ for all styles of music. If you've the urge to compose your own songs to play, you can use the MICRO COMPOSER's simple music entry system. Our music software was designed by leading experts in music education and has been well tested in the classroom. A simple step-by-step instruction manual leads you through entering, displaying, editing, and playing music with up to four voices—soprano, alto, tenor, and bass. You can change the sound of each voice to reed, brass, string, or organ sounds and you can even color your own music sounds!

The MICRO COMPOSER LETS YOU — — —

 **PLAY** up to 4 SIMULTANEOUS VOICES

- **SEE** all 4 VOICES at the same time you're HEARING the music—a must for music editing!
- **ENTER** music notes by a fast, simple and well-tested coding system. The COMPOSER is SMART! It tells you when you've entered a wrong code and keeps track of rhythmic durations.
- **PROGRAM** the PITCH, RHYTHM, and TIMBRE of the music. The TEMPO is varied by the Apple paddle.
- **CHOOSE** 7 DIFFERENT TONE COLORS for each voice or CREATE YOUR OWN TONE COLOR.
- **COMPOSE, EDIT, DISPLAY, and PLAY** music through an interactive, command-driven language that's easy to learn.
- **SAVE** your MUSIC on disk or cassette.
- **HEAR** quality music sound at low cost through the MICRO MUSIC DAC card. This music card was designed for MMI by Hal Chamberlin and Micro Technology Unlimited.
- **SELECT** from future MMI music instruction software to accompany the MICRO MUSIC DAC.
- **IT'S FUN!** The MICRO COMPOSER comes complete with an instruction manual, software disk (or cassette), and the MICRO MUSIC DAC music card. Just plug the MICRO MUSIC DAC into the APPLE expansion slot and connect the audio cable to an 8 ohm speaker. To play your favorite tunes, DIGISONG PAKS are available with music from Bach to Dixieland.



Micro Music Inc

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MICRO COMPOSER SPECIFICATIONS

PITCH

A 4-octave range of 25 equal-tempered chromatic steps (65.1 Hz to 1046.5 Hz).

RHYTHM

The rhythmic durations are whole, half, quarter, eighth, sixteenth, and thirty second notes and their dotted values.

CODING SYSTEM

A literal music code is used. For example, .HGS2 is a dotted half note, G-sharp in the second octave. A QR is a quarter rest. The software checks all input for legal codes.

VOICES

Music with 1, 2, 3, or 4 polyphonic voices may be entered into the COMPOSER.

MUSIC ENTRY

Music is entered in vertical sound sets. A music set represents one time unit equivalent to the smallest note value in the music. Each set contains all of the rhythm and pitch information needed during that time unit. With 4 voice music, 744 music sets may be stored in the 8K memory reserved for music.

TEMPO

Tempo of the music is controlled by the APPLE Paddle #0.

TIMBRE

The COMPOSER has 7 preset timbres: rich string, wind-flute, brass, oboe-bassoon, clarinet, electronic organ, and funky oboe. The COMPOSER provides features for constructing and saving your own timbres. The timbres are limited to 16 harmonics and restricted to frequencies below 5 KHz.

COMMANDS

The COMPOSER is command-driven. The double-question mark, ??, is the prompt for a command. The single-question mark, ?, is the prompt for data. The commands available are PLAY, DISPLAY (and play), COMPOSE, EDIT, FOURIER, VOICES, METER, TIMBRE, READ, WRITE, HELP, and QUIT.

EDITING

The COMPOSER permits quick editing of any set. In the edit mode the stored music set is displayed as well as the new music set being entered. The button on the APPLE Paddle #0 lets you stop and start the music at any point. With the button depressed, pushing the space bar on the keyboard returns you to command mode. This feature gives you great flexibility in composing, playing, displaying and editing. The display mode is provided only for the purpose of editing and is not recommended for final performance of music.

MICRO MUSIC DAC BOARD

This digital-to-analog converter permits quality musical tones with a computer at low cost. Four simultaneous tones can be generated with this board and accompanying COMPOSER software. Tones are generated using a sampling technique and waveform tables stored in memory.

MEMORY REQUIREMENTS

32K APPLE system for the cassette-based system; 48K for the disk-based system.

Order the MICRO COMPOSER and DIGISONG PAKS from your local APPLE dealer. A special Christmas PAK will be available. MMI's products are backed by the largest distributor of personal computer products, High Technology (dealer inquiries should be directed to Joe Dahlem of HIGH TECHNOLOGY).

High Technology 1847 Dunn Road, Florissant, Mo. 63033 (314) 838-6502

Suggested retail price _____.

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MMI Micro Music Inc is dedicated to the design of quality, learner-verified computer software for music and music education through the lowest-cost technology available. Using the APPLE II computer, MMI's software library of music programs will teach the basic concepts and skills of music listening, performance, and composition to all ages. MMI's software is developed and tested by nationally recognized persons in music instruction and research.