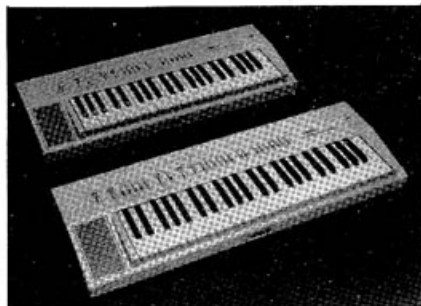
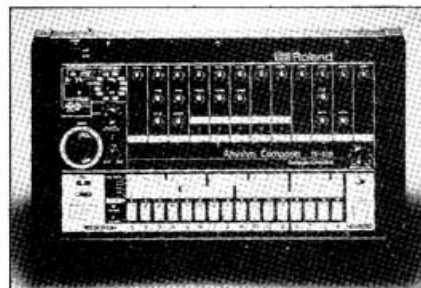


# SPEC SHEET



**YAMAHA KEYBOARDS.** The PS-10 and PS-20 portable keyboards feature the PASS technology found in Yamaha's larger Electone organs. Both instruments can be powered by AC, a battery pack that holds six SUM-1 batteries, or from a car via an optional adapter that plugs into a cigarette lighter socket. The PS-10 has organ, string, clarinet, piano, harpsichord, and vibec voices. The PS-20 has those voices plus another organ voice and trumpet, oboe, and accordion voices. The PS-10 has an auto rhythm section with waltz, rock, swing, and latin presets. The PS-20 has waltz, rock, swing, march, disco, tango, rumba, and samba. Both models offer synchrostart, tempo, tempo light, and volume controls. The PS-20 also has an 8-bar rhythm variation and a built-in arpeggiate function. The PS-10 has a 44-note F to C keyboard, while the PS-20 has a 49-note C to C keyboard. Both instruments have master volume controls, a power switch, a power-on light, a headphone jack, an expression pedal jack, an auxiliary input jack, and a DC 9V jack. The power-on light also functions as a low-level warning light for the internal batteries. Both units have an output of 5 watts through a built-in 4-3/4"x3-1/8" oval speaker. They come with a music stand, a dust cover, an AC adaptor, and a battery pack (excluding the batteries). Options available include a 9V adaptor, a soft carrying case, an expression pedal, a bench, a stand, a stand carrying case, a tone cabinet, and a connection cord. Yamaha Keyboard Div., Box 6600, Buena Park, CA 90620.



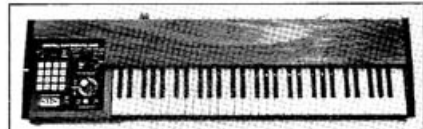
**ROLAND RHYTHM COMPOSER.** The TR-808 Rhythm Composer is a programmable rhythm unit that can be used in a number of applications ranging from recording and composing to live performance. The user can program up to 32 rhythms which incorporate up to eleven different percussion sounds plus an accent. Each of these percussion sounds has its own level control for full mixing flexibility over the total

sound. Each sound also has its own separate output so that it can be mixed or processed separately from the others. The percussion sounds available on the TR-808 are: bass drum, snare drum, low tom/conga, mid tom/conga, high tom/conga, rim shot/claves, hand clap/maracas, cow bell, cymbal, open hi-hat, and closed hi-hat. In addition to control over each instrument's level, many of the sounds feature timbre controls. Programming of the 32 rhythm patterns can be accomplished by means of a step programming method which basically breaks each beat down into a series of steps, which can be varied to suit the desired rhythm. Each beat (or quarter note) can be divided into 3, 4, 6, 8, 12, 16, or 32 individual steps so that rhythms can be written incorporating as small a division as a sixty-fourth-note. Rhythm patterns can be written using as many or as few steps as is desired up to 64 steps for the measure. This allows the possibility of programming rhythms in odd time signatures such as 5/4 or 7/8. A pre-scale feature insures that various rhythms are in relative time to each other so that the user can switch from one rhythm pattern to another without a change in tempo, even when switching between odd and even time signatures. Once the various rhythm patterns are written and stored in computer memory, they can be arranged to perform an entire composition's percussion tracks by means of a compose function. The composed track can last up to 768 measures in its entirety, or it can be broken into 12 different segments of 64 measures each. Composing the track is done in real time. Roland, 1285 Mark St., Bensenville, IL 60106.

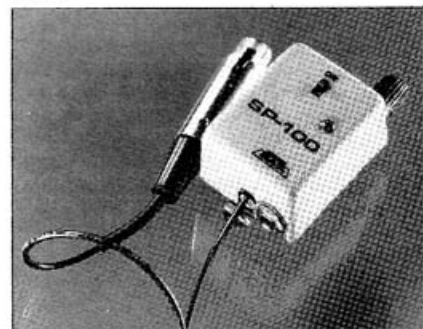


**BALDWIN MCO ORGANS.** The Baldwin Micro-computer organ series includes the Model 170 Overture (pictured), the Model 160 Bravo, the Model 155 Interlude, and the single-keyboard Model 145 Fun Machine. The organs can be played in any of three modes of operation: in the one-finger accompaniment mode, in the automatic bass with chords mode, or in the manual mode. One of the featured functions on these instruments is the Arranger, which when activated lets the instrument set up its own registrations according to the musical style of accompaniment and the rhythms which have been selected. Each model features 13 preset registrations — one for each of the 12 rhythms, including country, swing, and bossa nova, and a full

organ sound. The Star Performer section of each instrument makes use of Baldwin's "Fantom Fingers" special effects to provide realistic accompaniments for each automatic rhythm. Another feature is the Solo Pro, which automatically programs right-hand fill-type chords. When flute voices are used, the Solo Pro selects a full right-hand chord fill style. With orchestral voices, the Solo Pro will produce either a duet or country harmonizing fills. On the mid-priced Overture model, the Solo Pro can be switched to theatre-style right-hand chord fills. The organs also have a built-in self-diagnostic system which the organ uses to check itself, reducing the time it takes for a technician to locate any problems which may have developed in the system. Baldwin, 1801 Gilbert Ave., Cincinnati, OH 45202.



**SMS KEYBOARD.** The 430 keyboard is designed to control the SMS Voice 400 synthesizer, but it can also be used to control other synthesizers. It is a 5-octave, C to C keyboard with last-note priority — that is, the last note played is the one you will hear when more than one note is being held down. The unit also has a 3-axis joystick which can simultaneously or independently control pitch-bend (with a variable limit point), the filter cutoff frequency, and modulation depth (located on the top of the joystick as a twist knob). There is a keypad located to the left of the keyboard that performs several functions: It can select and display one of 32 presets on the Voice 400 synthesizer; it can select one of 16 sequences which can be programmed from the keyboard (a total of 256 key depressions can be stored); and it can transpose the keyboard or the sequence playing by any interval. Additional features include a built-in LFO with three wave-shapes (sine, sawtooth, and square) and an LED display of rate of portamento. The LFO can be synced to the keyboard gate, and a 3-position octave switch is supplied. One multipin connector is all that is required to hook the unit up to the Voice 400 synthesizer. An optional road case is available. SMS, Box 40267, San Francisco, CA 94140.



**AXE HEADPHONE AMP.** The Sp-100 is a headphone amp that you wear on your belt. It has a high input impedance and is designed to be used by anyone who would need to be mobile while setting up and checking things like microphones, piano pickups, and so on. It is battery-powered and can accommodate almost any audio signal source, balanced or unbalanced, mike or line level, high or low impedance. Price is \$74.95. Axe, Box 2331, Dept. CKM, Menlo Park, CA 94025.