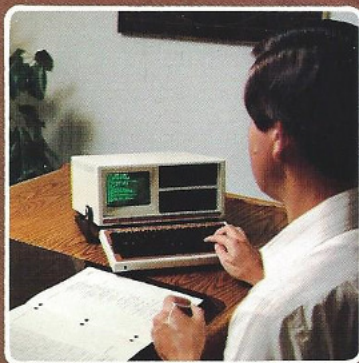




# ATTACHE™

The Compact Computer  
for the Professional



OTRONA™

# ATTACHE™

Let our accomplishment be an aid to yours ...



If you require more performance from your work day ... If you need hard, thorough analysis to make decisions by ... take a close look at ATTACHE. Here is a computer for the professional. Designed to help you work more efficiently and more effectively.

We're not modest about ATTACHE. There is no computer in its price range that has a wider selection of relevant features than ATTACHE. Neither is there a computer as compact. Compact enough to sit in a corner of your desk. Compact enough to take anywhere you need it. ATTACHE folds up and lets you carry it like a briefcase. To work, home, on a plane ... Anywhere.

We didn't stop designing with the hardware. We licensed the best, most proven software in the industry and we modified it to run better on ATTACHE than on any other machine. Better in terms of capability and better in terms of how quickly you can learn to use it effectively. The measure of our success is how much of your time we save.

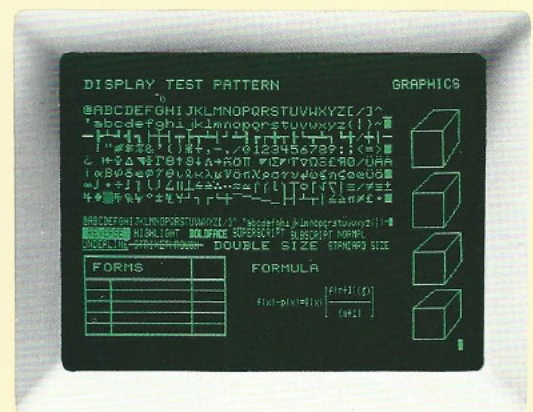
We've worked hard so you won't have to. ATTACHE, and we're up with a 90 day warranty. ATTACHE is sold through dealers with expert, factory trained people ... and, if you're not satisfied, enough, call our customer support.

The charts in this picture and on the front cover were prepared using CHARTON™



...d hard to see that  
...ve problems with  
...d we back you  
...0 day warranty.  
...old only by  
...experienced  
...ed service  
...d, if that isn't  
...our toll free  
...port number.

ATTACHE lets you achieve new levels of capability and flexibility. It has the computing power you need for planning, computation, analysis, reporting, and many specialized uses. Compare ATTACHE alongside any other computer and use both as you would in your profession. We're confident you'll want to fold up an ATTACHE and carry it off to its new assignment.



**DISPLAY** — With many computer systems, display capability becomes a limiting factor to the ease of operation of the system and to the applications in which it will perform. ATTACHE's display includes not only the standard alphabet but also many special characters for drawing equations and business forms. It even displays the entire Greek alphabet. ATTACHE can directly display subscripts, superscripts, underlines, strike-throughs, and boldface characters. The graphics feature will allow ATTACHE to draw diagrams, graphs, and free form illustrations with a resolution of 320 x 240 pixels (76,800 individually addressable points).

**CLOCK/CALENDAR** — ATTACHE continuously keeps track of the time of day and the day, month, and year, even when it is turned off or unplugged.



**KEYBOARD** — The keyboard is engineered for typing ease, combining the feel of those of a Selectric™ typewriter and the positive feel of a typewriter. The operator can select a sound that issues with each key stroke, increasing typing speed of up to 30%.

Cursor Control Keys allow the operator to move quickly between lines for correction. The keys in the top row have additional functions. They eliminate the need to refer to a manual.

**DISK UNITS** — Software and data are stored on inexpensive removable diskettes. Each diskette holds up to 180,000 characters (bytes) of information (equivalent to about 60 pages of closely spaced text). ATTACHE features two built-in disk drive units so you can make copies and move programs and data around with ease. To use new software with your system, just place the new diskette in the disk drive.

**COMMUNICATION PORTS** — ATTACHE has two ports that can be used to attach a printer, modem, plotter, direct line to another computer, or other device. Both ports are compatible with most industry line and protocol standards.

**MEMORY** — The main read-write memory is 65,536 characters (bytes). The display system has two additional memory sections for characters and graphics. A read-only memory contains the program loader and automatic self test features. The display and read-only memories do not overlap the main memory area in normal operation.

**PROCESSORS** — ATTACHE's main processor is a Z80A. An Am9517A direct memory processor frees the main processor from disk and communication port operations.

**SOUND SYNTHESIZER** — This system generates keyclick and bell sounds for the keyboard. Application software can use the synthesizer to generate a broad selection of other sounds.

**SIZE AND WEIGHT** — The ATTACHE occupies one-half cubic foot of space and weighs only 19½ lbs.



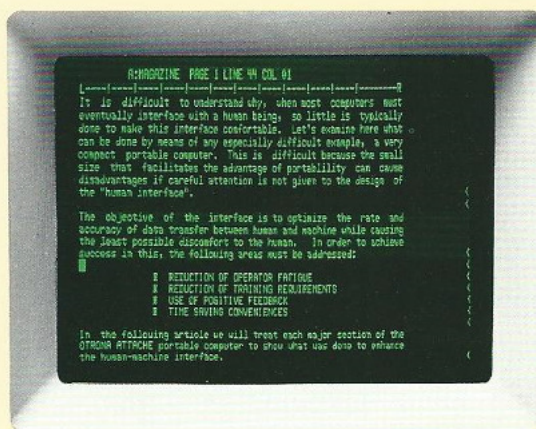
efficiency. The keys are spaced and arranged much like a standard keyboard. A keyclick lets the operator know that the key has registered. The keypress. This 'audible feedback' can result in an increase

quickly around in text and the Delete Key facilitates instant shifts that perform the functions labeled above the manual for most common word processing functions.

## Standard Software Included with your ATTACHE:

**CP/M™** serves as a table of contents to let you select the programs you want to run. It also lets you copy and rearrange your disks. CP/M is the most popular operating system available for small computers. More independent software suppliers configure their products to run with CP/M than any other system. And that gives you a good deal of flexibility in using ATTACHE to produce for you.

**WORDSTAR-PLUS™** is an enhanced version of MicroPro's popular WORDSTAR™ word processing package. Our additions make it easier to learn and use. Creating your documents directly on the computer offers you the maximum in freedom and flexibility. Enter your thoughts as they come to you...from the beginning...the end...the middle. Reorganizing, expanding, and deleting is fast and efficient with ATTACHE and WORDSTAR-PLUS.



**BASIC-80™** is the choice of languages for small computers. You can learn to do simple calculations in minutes, then gradually build new skills. Or if you don't want to create your own software, many powerful software products are available in BASIC. BASIC-80 is one of the fastest and most complete versions of BASIC available.

**VALET™** is unique to ATTACHE. It is a feature designed to help manage your interruptions. You can call on VALET right in the middle of what you're doing. VALET allows you to exchange messages or data with another computer. It can remind you of meetings and appointments, and will let you make a quick calculation. When the interruption is over you can return to your original task right where you left off.

**CHARTON™** plots bar and line graphs, pie charts, and special figures in minutes. It lets you see your data in its easiest to use form.

## Optional Software

ATTACHE accommodates other software products produced both by OTRONA and by independent vendors. Contact your dealer or the factory for information and recommendations on products designed for your specific application. Selections include: Project Planning and Performance Analysis; Financial Analysis; Accounting; Inventory Control; Education; PASCAL, FORTRAN, COBOL, FORTH, C, and other programming languages; UCSD P-System™ with PASCAL and FORTRAN; and Recreational Programs.

## Options

**001 DC POWER** option installs in your ATTACHE to allow it to be used in most vehicles or with the option 002 battery pack. Either 10-16VDC or 20-32VDC power can be used.

**002 BATTERY and CHARGER** option is available in either of two configurations: A) the strap-on unit would provide power to ATTACHE for about one and one-half hours; B) the separate battery pack would provide power to ATTACHE for up to ten hours without recharging.

**003 EXPANSION** option allows ATTACHE to be attached to an external cabinet and expanded using industry standard STD-Z80A bus cards.

**004 MULTIFUNCTION** option contained within ATTACHE adds features useful in scientific and industrial measurement and control applications. It can optionally include a high speed hardware mathematic unit, a GPIB instrumentation interface, a 16-bit parallel Input/Output port, and a 12-bit analog to digital converter.

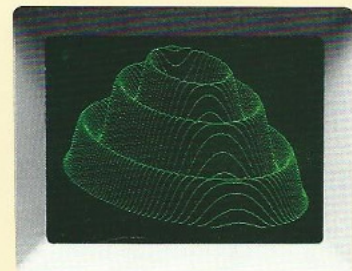
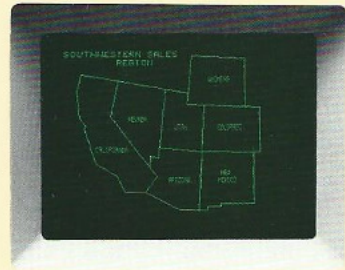
**005 ACCESSORY POUCH** provides for the storage of cables, diskettes, manuals, other 8½" x 11" documents, and an acoustic coupler.

All options can be retrofitted by your dealer.

## Companion Products

**5010 DISPLAY** — A 12" display unit that can be plugged into ATTACHE for applications that require a larger screen.

**5040 PRINTER** — A printer capable of printing anything ATTACHE can display including all special symbols, enhancements, and graphics. Speed is 80 characters per second bidirectional. Uses a 7 x 9 dot matrix font.



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 SELECTRIC is a trademark of IBM Corp.  
 UCSD P-System is a trademark of Softech Microsystems, Inc.  
 WORDSTAR is a trademark of MicroPro International Corp.

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