



OTRONA™

2001™

The Compatible One



The Otrona™ 2001™ is virtually 100% functionally and operationally compatible with the IBM PC.™ Literally thousands of programs written for the IBM PC will run on the 2001 without modification. The 2001 provides this high degree of compatibility by incorporating the following features:

- **Operating System Compatible:**

The Otrona 2001 accepts both MS-DOS and PC-DOS, ensuring access to the wealth of applications programs designed specifically for these operating systems.



- **Media Compatible:** The Otrona 2001 system recognizes both IBM PC disk formats and 96 TPI formats (not available from IBM). These formats can run simultaneously on the 2001. Both single and double sided disks can be read or written with complete compatibility. Our unique firmware automatically recognizes the format and density of the diskette, without ever requiring user intervention. It even allows you to "boot" the operating system from any physical drive.

- **ROM Compatible:** Many software programs make IBM PC ROM calls and require ROM compatibility. The Otrona 2001 runs these programs without modification.

- **Architecturally Compatible:** The machine uses the same processor (8088), support logic, and BUS signals as the IBM PC. The Otrona 2001 hardware was designed to provide a compatible environment for hardware that functions with the IBM PC. Even the IBM PC compatible boards can be used on the Otrona 2001 with the external expansion chassis!

- **Display Compatible:** The Otrona 2001 computer has the same screen resolution as the PC (640 x 200)—guaranteeing that it will run IBM PC graphic software without distortion. An optional superset of the standard display memory doubles the resolution to 640 x 400. The Otrona 2001 has the IBM style character set, and 80 x 25 line character mode. Software looks and functions like it does on the IBM PC.

- **Keyboard Compatible:** The Otrona 2001 has an improved IBM PC keyboard that supports all PC keyboard functions. Both shift

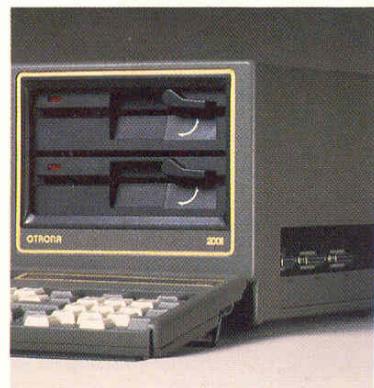
keys are located in the established positions associated with the IBM Selectric™ typewriter (this is the single most requested improvement from IBM PC users). An additional enter key on the numeric keypad further improves the layout. This eliminates moving to the typewriter return key to enter numbers.

The high degree of operational compatibility with the IBM PC assures you that the Otrona 2001 will run the software that you need and select. Software like **Lotus 1-2-3™**, **Microsoft's Multiplan™**, **Word™**, and **Flight Simulator™**, or the new category of integrated software products can all be used with the 2001 right off the shelf!



Convenience Ports

- **Interface:** An RS-232 serial port, a parallel port and a composite/RGB video display interface are standard. All interfaces for peripheral devices are conveniently located on the right side of the unit and are recessed to prevent damage when travelling. Each connector is marked and space has been provided for additional interface options.



The Portable One

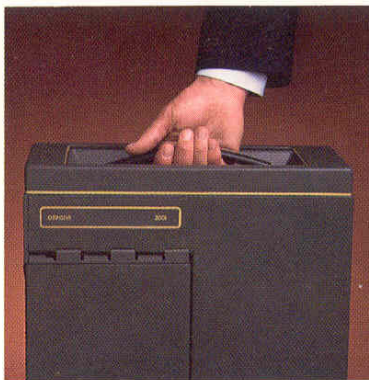


The Otrona 2001 is the smallest and lightest machine available that delivers the performance and expansion capabilities of a full-speed desktop computer. It is easy to carry, durable, balanced, reliable, and ergonomically designed. When you select the Otrona 2001 computer, portability and compatibility are designed into the product.

- **Lightweight and Compact:** The Otrona 2001 is exceptionally light (about 19 lbs.). This is roughly one-third lower in weight than other so-called "Portable or Transportable" computers. It measures only 7" H x 15" W x 14" D, and is one-third less in volume than other full function systems. The Otrona 2001 can be carried just about anywhere by anyone. It fits under an airline seat, making it easy to travel with your 2001. The 2001 provides outstanding functionality in a conservative, superior design.

- **Durable and Reliable:** The Otrona 2001 can withstand the rigors of travel and operates well in conditions less desirable than those of a climate-controlled office. The Otrona 2001 computer operates over a very wide range of temperatures. The modular design makes field service and upgrades easy. Each individually replaceable module has been designed to meet rigorous quality and engineering specifications. For example, each disk drive is individually shock mounted and has locking heads. This ensures that proper head alignment is maintained when the unit is not in use. The attractive high-impact metal and plastic outer shell dissipates shock

and maintains the attractive appearance. The keyboard folds into the front of the computer, forming a protective base for transport.



- **Versatile:** The power supply operates on A.C. power over a wide range of international voltages (from 80-265 volts and 50-440 Hz), without requiring any internal adjustments or switch settings—it is completely self-compensating! The 2001 can be used with confidence in foreign countries and areas prone to brownouts. The D.C. power option operates across a 12-24 volt range, receiving power from a cigarette lighter socket or the optional Otrona battery pack.

- **Ergonomically Designed:** The Otrona 2001 has a user friendly design that increases user comfort and productivity. The entire system provides a high level of ergonomic support that is largely ignored in the PC industry.

- **Display:** The flat CRT was specifically designed to ensure that characters remain in focus across the entire viewing area. The 7" flat CRT with its amber phosphor and a scan rate of double that of most displays produces an extremely sharp, easy to see image. This technology, along with the unique adjustable CRT make the Otrona 2001 computer the only portable effectively designed for both desktop and portable applications.

- **Keyboard:** The keyboard detaches from the computer, and you may put it on your lap or wherever it is most convenient. The low profile, slimline keyboard meets the European DIN standards for user comfort and incorporates a color-coordinated keycap scheme. It has four different height adjustments, twice as many as found on the average keyboard. Colored LEDs indicate CAP-Lock status, and a Enter key (not found on the IBM PC), provides an added level of keyboard functionality.

- **Styling:** The Otrona 2001 computer is a soft "nightstone" grey color that fits into your office decor and resists dirt and scratching. Rounded edges, color-coded switches, flush/brightness adjust button, recessed handle, gold accent trim and optional black Cordura Travel Pack, blend to form the distinctive design concept.

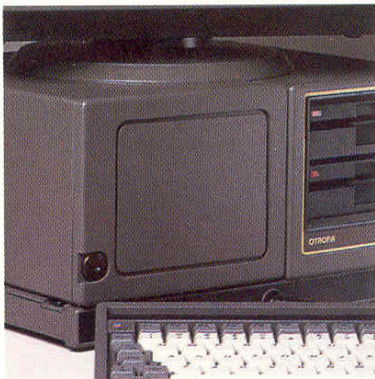


The Convertible One



The Otrona 2001 is the only machine on the market with such a high degree of modularity that it can economically be configured as either a portable or a desktop. It can easily be changed back and forth as a desktop or a portable workstation. The Otrona 2001 can be used with most accessories, for example:

- Letter quality printers and plotters (ask about the 2031 printer)
- High resolution displays include a 13" color display (model 2052) and a 12" monochrome display (2051)
- Optional diskette vault for storing and securing diskettes
- Greater data capacity and performance can be achieved by adding an internal 10MB hard disk
- Additional memory (up to 640K RAM)
- Z-80B processor and CP/M™ operating system
- 8087 math coprocessor
- Second floppy disk drive (standard or high capacity)
- Real time clock
- Internal 1200-300 band modem
- High resolution graphics board (640 x 400)
- Additional I/O ports
- Internal D.C. power option



You simply select the configuration best suited to each station in your office, retaining the flexibility to change it at any time. The Otrona 2001, a better portable, a better desktop, both in the Otrona tradition of creative engineering excellence.

The Expandable One

The Otrona 2001 computer has been designed to be easily expanded as your needs grow, for example:

These additions can be made without increasing the size of the system!
The Otrona 2001 computer has



been designed to support several powerful product enhancements that are now being developed. These enhancements will include micro disk drives, supermicro upgrade paths and more, further ensuring that the 2001 will serve your future needs as well as your needs of the present.

The Affordable One

With the Otrona 2001 computer, the term affordable means more than just a competitive price. Some users have two computers—a portable and a desktop—because they are unwilling to accept the sacrifices that choosing just one computer typically demands. The 2001's ability to perform the dual role of portable and desktop PC, without sacrificing portability or performance, eliminates the need for a separate system. Its unique approach to tailored configurations allows you to purchase the system best suited to your needs



The quality construction, attention to detail, and well-engineered design will ensure long-term reliability.

The flexible architecture of the 2001 and the extensive list of options make the 2001 an investment with a future that meets the standards of today.

The Otrona 2001 computer: IBM PC Compatible, Portable, Convertible, Expandable, and surprisingly Affordable. See your Otrona Advanced Systems dealer for more information or call for the name and address of your nearest authorized dealer. 1-800-525-7550



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CPU

8088, 4.77 MHz—std.
8087 Math Coprocessor—opt.
Z-80B, 4.77 MHz—opt.

Memory

128K RAM including parity—std.
Memory Expansion (640 max.)—opt.
128K processor board—opt.
128K to 384K memory expansion tray—Opt.
64K ROM including diagnostics—std.

Data Storage

Single (std.) or dual, 5.25", 360KB
Floppy Disks
10MB Hard Disk with shock
mounting—opt.

Display

7" diagonal, Flat CRT with amber
phosphor—std.
P-31 Green Phosphor—opt.
Four tilt positions
Brightness adjust
31.5 KHz scan rate
80 x 25 line, supports all IBM modes
40 x 25 line double character size
640 x 200 resolution—std., 640 x
400—opt.
Alphanumeric Modes
Character Set: IBM™ PC
Character cell 8 x 16, 6 x 11 character
Color/Graphics Mode
Character cell 8 x 8
Attributes: normal, reversed video,
underline, blinking, bold
High Resolution Displays
12" 2051 Monochrome Display—opt.
13" 2052 Color Display—opt.

Keyboard

84 key, improved IBM PC layout
Upper/Lower case LED indicators
10 function keys, 15 key numeric pad
16 Keystroke Buffer
0, 5, 10, 15 degree positions
Low-profile meets DIN 30 mm
requirement

System Interface

RS-232 serial port, 50 to 9600
baud—std.
Additional RS-232 serial port—opt.
Synchronous port, 9600 baud
maximum—opt.
Parallel, Centronic type, port—std.
Composite. RGB connector for Otrona
Displays—std.
2001 Keyboard connector—std.
RJ-11 Connector with Internal
Modem—opt.

System Software

Microsoft MS-DOS™ operating system,
version 2.1 with Disk Manager 2 and GW
BASIC™—opt.
CP/M™ 2.2 operating system—opt.
Basic-80 Plus—opt.

Power

Universal switching power supply
130 watts
80—265 VAC
50—440 Hz
100 ms. brownout protection

Physical & Environmental

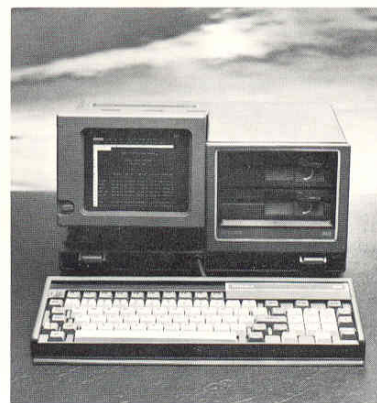
Height—7" (17.8 cm)
Width—15" (38.10 cm)
Depth—14" (35.56 cm)
Weight—about 19 pounds, standard
single drive configuration
Footprint—210 sq. in.
Operating Range
10°C-40°C (50°F-104°F)
Humidity Range
5% to 95% relative humidity
non-condensing

Warranty

90 days

Otrona 2001 Options

Z-80B processor
8087 Math Coprocessor
Real Time Clock
High Resolution Graphics board,
640 x 400
P-31 Green phosphor, 7" Display
2051 12" Monochrome Display
2052 13" Color Display
2031 Dot Matrix Printer
Printer Cable
48 tpi Floppy Disk with 360KB
96 tpi Floppy Disk with 720KB
10MB Hard Disk
Memory Expansion Tray with 128K to
384K RAM
Asynchronous Serial Port
Synchronous SDLC Communications
Port
Communications Adapter Cable
Internal 1200/300 baud Modem
Diskette Vault
DC Power Option
Battery Pack
PC compatible Expansion Chassis
Travel Pack



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