



The Corvus Concept™

The Professional
Network Workstation

The Corvus Workstation For Greater Productivity

The Corvus Concept™ will enhance your productivity and management of information, whatever your needs and occupation.

THE ACCEPTED WORKSTATION

Executives, professionals, administrators, researchers, teachers and students are learning to use and value the personal computer as a tool for doing their work better, faster and with greater personal satisfaction. Now there's a tool to help them manage information more easily, cost-effectively and efficiently: the Corvus Concept.

THE INTEGRATED CONCEPT

The Corvus Concept stands out among professional workstations because it is totally integrated. The Concept not only links separate software packages, its system integration extends to the hardware design, the built-in network interface, Corvus Winchester disks, back up and printer service.

INTEGRATED SOFTWARE

While many personal computers work well for a single task such as accounting or word processing, the Corvus Concept was designed to handle a variety of needs well. The Concept's fully integrated library of Corvus ISYS™ software includes eight programs, each designed to match or surpass existing packages on the market. Yet all of the Concept's integrated programs also work together. The Concept lets you quickly transfer data between software packages or switch to another program at the touch of a function key.

SYSTEM AND HARDWARE INTEGRATION

The Concept works with the Corvus OMNINET™ product line. That complete integration makes the Concept among the easiest to use of any workstation for professionals or administrators today.

For example, the Corvus Winchester disk systems are mass storage devices which have set standards in the personal computer industry for reliability, innovation, and cost effectiveness. Providing security by means of backup files is also handled by a field proven Corvus product, the MIRROR®, and by a brilliant new-technology product, the Corvus Bank.™

Corvus OMNINET leads the way in Local Area Networks (LAN's) that transform your personal computer into a powerful information management tool.

OMNINET enables the Corvus Concept and other microcomputers to share data storage and printers, transfer files electronically and have access to a large, common data base.

THE CORVUS INTEGRATED WORKSTATION

- A professional tool to increase productivity in business, education, and the professions.
- Integrated software for ease-of-use, speed, and preparation of composite reports:
 - Spreadsheet
 - Word Processor

- Three-dimensional business graphics
- List and Sort
- Look Up
- Desktop tools—
Calculator, clock, calendar
- Data communications—
Modem support and terminal emulation
- Other software—
Data base management system, accounting, electronic mail, graphics
- Easy-to-use at any level of experience.
 - Easy-to-use integrated software
 - Single-stroke function keys with English labels
 - Full page, 8½-inch by 11-inch screen
 - Bidirectional horizontal or vertical display
 - Finger-tip tilt and swivel
 - Choice of amber or black-and-white screen
- Built-in local area network: Corvus OMNINET.
 - Transforms Concepts and other microcomputers into a network of shared mass storage and processing devices
 - Supports electronic mail
 - Connects different computers and operating systems—allowing you to build on your current systems investment as you meet future needs
 - Allows easy expansion
 - Established base of more than 78,000 personal computers and peripheral devices connected to 11,000 networks.
- Variety of programming languages available.



Multiple window display lets you see several work areas at the same time.

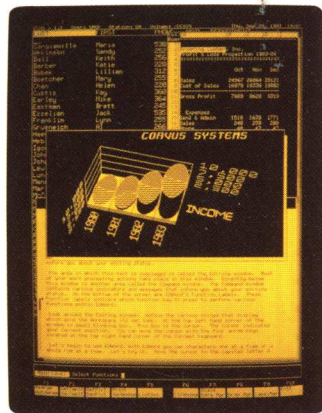
- Reliability from the world's largest supplier of mass storage, secure data backup and networking products for personal computers.
- Support world-wide from dealers, distributors and service people who are there when you need them.

Corvus ISYS Integrated Software

Corvus ISYS is a library of eight integrated software programs. With ISYS you can transfer data between programs, switch back and forth between programs at the touch of a function key and—with multiple windows—see several work areas on the screen at one time.

SPEED AND CONVENIENCE

The Corvus ISYS integrated software offers the speed and convenience you need for including complex information in a presentation, report or proposal.



Multiple window display

SUSPEND AND RESUME

For example, in the ISYS spreadsheet program you can build a spreadsheet model, then insert different sets of figures for units sold, cost of goods, or overhead, to prepare a financial analysis. By going directly to the graph program from the spreadsheet, you can easily generate a bar graph to show net profit increases over time.

You can suspend the graph program and enter the word processor to write a short explanation to accompany the graph. Returning to the graph, you can reduce it to fit conveniently into the report. Then you're ready to print the composite document.

Eight ISYS programs are there at your fingertips to help you analyze, manage and present information.

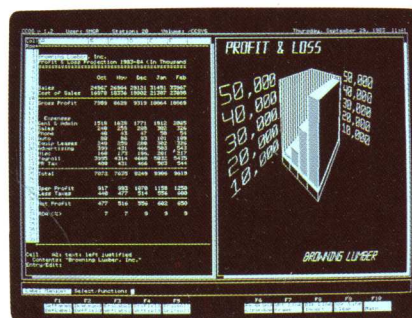
SPREADSHEET

The ISYS spreadsheet software takes full advantage of the large 8½-inch by 11-inch screen. With the screen positioned horizontally, the Concept displays thirteen columns or a full-year forecast at one time without scrolling.

The Concept's powerful MC 68000 processor and 512 kilobytes of main memory allow very rapid construction of large models and display of recalculations to 12-digit precision. The Concept's spreadsheet has 2½ times more cells displayed than most other spreadsheets.

Spreadsheet

Other Concept spreadsheet features include an active worksheet area of up to 255 rows by 127 columns, function key control, and variable column sizes. A no-mistake undo feature also lets you correct data



Spreadsheet/Graph

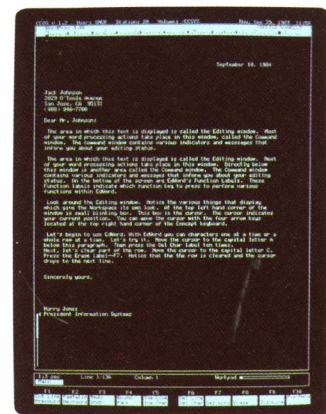
entry, allowing greater speed without fear of mistakes.

You can use the mark and bound feature to transfer spreadsheet information to a file for use in another ISYS application.

The Concept's built-in network capability also lets you share models and spreadsheet information among Concepts on the network to increase the efficiency of the users.

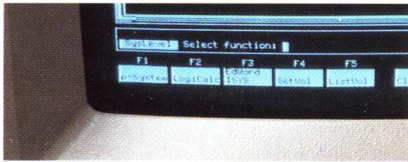
WORD PROCESSING

The ISYS word processing program, like the spreadsheet program, takes full advantage of the Concept's 8½-inch by 11-inch screen and the speed of the powerful MC 68000 processor.



Word Processing

ISYS Word Processor capabilities include "Undoing" and "Redoing" text changes, page layout preview, automatic pagination, on-screen display of enhanced type and simultaneous composing and printing—features that surpass those of the most powerful word processing software for personal computers.

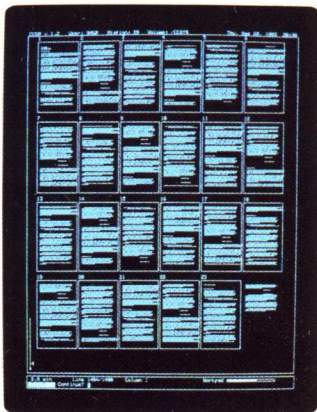


Page Layout Preview lets you preview your page layout by viewing the contents of up to 24 pages, line by line, on a single screen, before printing.

Time Travel Editing™ with its unique capability to “Undo/Redo” almost all keystrokes, sets ISYS apart from most other word processing systems. Totally forgiving, Time Travel Editing takes the intimidation out of word processing and is ideal for both new and experienced users. You can Undo your last editing action—or all preceding actions, back to the original. Plus you can reverse the action with Redo, and reconstruct each editing change up to the latest version.

By networking several Concepts, each word processing station can draw upon a common library of standard paragraphs of text, spreadsheet data or lists for insertion into proposals or reports.

ISYS word processing is so versatile, the Concept is being used as a master editing station for networks where other brand computers enter the text.



Layout

LIST MANAGER

The ISYS List Manager works like an electronic Rolodex® file. With the List Manager, you can easily create and have access to phone directories, customer prospect lists, reference data, or commonly used information.

You can sort lists alphabetically or numerically by category—such as name, address, phone number or department. The List Manager supports many common services of data base management. It even includes a mail merge capability so you can easily compile a mailing list for sending form letters.

THREE-DIMENSIONAL BUSINESS GRAPHICS

Graph, the business graphics software package on ISYS, is “the finest graphics program... yet to be put on a micro,” reported *InfoWorld Magazine* in its July 25, 1983 issue.



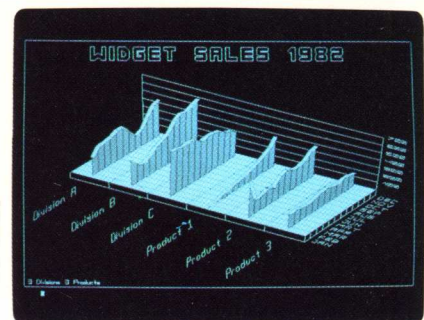
Graph

What makes Graph so outstanding: It offers high-resolution, three-dimensional graphing—a program comparable only to those on minicomputers and mainframe systems. It's easy to use for novice and skilled alike, and it's flexible, with 83 templates for creating a variety of formats.

Graph's features let you scale and rotate information for the best viewing angle or layout, combine and

analyze four layers of data into high quality pictures. Or you can create three-dimensional images that display more information than conventional bar or pie charts—in uncluttered, easy-to-read formats.

Graph is so flexible, it accepts input from a variety of sources: directly from ISYS Spreadsheets, existing Corvus LogiCalc™ files, text files and even keyboard entry.



Graph

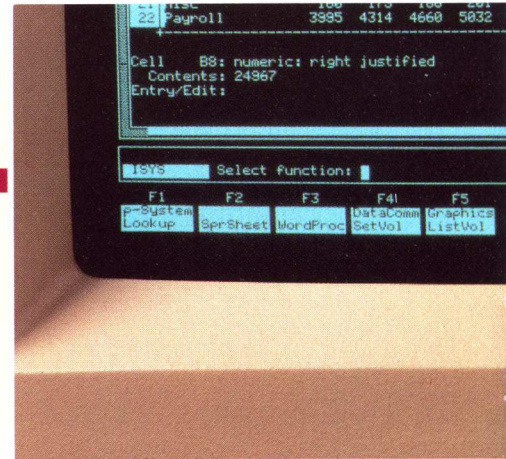
LOOK UP

Look Up is an easy way to make fast, ½ second searches by any field in a data base of 1000 to 2000 entries. Use it to compile lists or create sublists. You can enter the data either by setting up a form or by typing it directly into a text file in word processing. You can transfer information from Look Up to the spreadsheet, word processing or Graph program.

DESKTOP TOOLS

Time saving tools include a calculator, clock, and calendar. The calculator has the standard math functions plus several advanced ones as well. The clock shows all international time zones. The calendar displays any month of any year just like your desk calendar. Battery backup ensures continuous operation and accuracy.

User Friendly Integrated Hardware



DUAL-ORIENTATION SCREEN

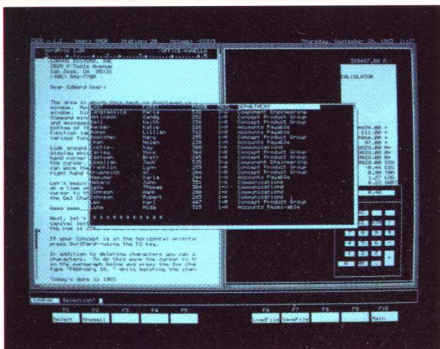
Probably the most innovative hardware feature of the Corvus Concept is the dual-orientation high-resolution display. Depending on your task, you can use the screen in the portrait (vertical) format to display a full page of text, or in the landscape (horizon-

tal) format to show up to 13 columns of information.

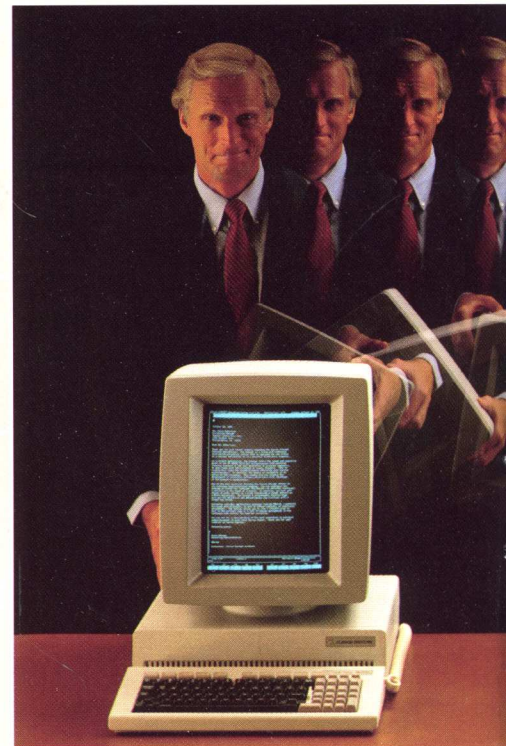
Changing from the horizontal to the vertical format is easy: Release a catch, turn the display and press a switch to map the screen for the new orientation.

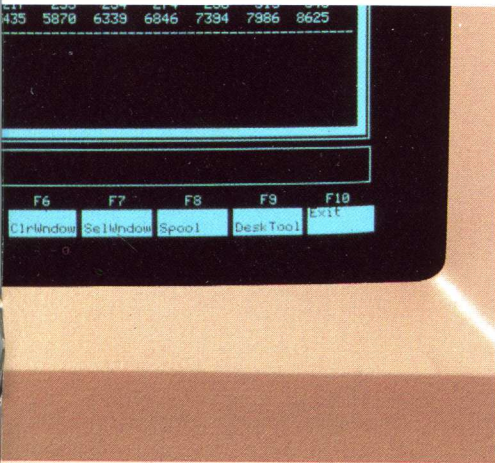
In either orientation, the Concept's screen is rarely equalled for the amount of information it shows at one glance.

Finger-tip swivel adjustments allow you to select the most comfortable viewing angle. A full thirteen degrees down or seventeen degrees up, plus a right and left adjustment of forty-five degrees, gives you complete control of the screen.

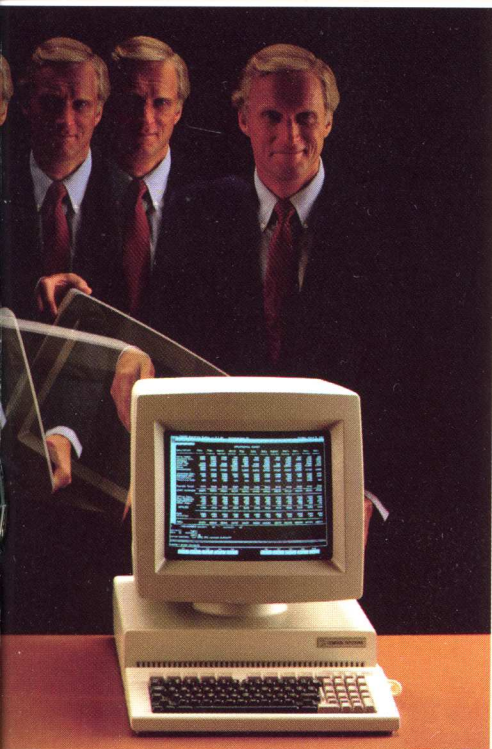


Word Processing/List/Calculator





Function keys and labels



BIT MAPPED SCREEN

The power and speed of the Concept's MC 68000 processor and large memory (256 kilobyte or optional 512 kilobyte) allows bit mapping of the screen. With this technique, each dot on the screen is mapped bit by bit to form either the vertical or horizontal characters. Bit mapping enables the use of alternate alphabets such as Arabic or Chinese. Bit mapping also allows the Concept its extensive graphing capabilities.

FUNCTION KEYS

The keyboard of the Corvus Concept is divided into three color-coded areas: the standard Selectric® keyboard, a numeric keyboard with cursor controls on the far right, and the ten function keys along the top.

Function keys are used to select the Concept's commands. The keys correspond to easy-to-understand menu labels displayed in plain English at the bottom of the screen. Your work remains uninterrupted when using the Concept's function keys because your hands never have to leave the keyboard. Labels change with the operating mode. Forty menu selections are available at a time. Forty more selections are available at another level. An experienced user can even program the function keys. An inexperienced user doesn't have to memorize command codes, because the function keys provide the prompts. A high degree of productivity is quickly attained.

The Corvus Connection

OMNINET Local Area Network

POWERFUL RESOURCE SHARING NETWORK

Corvus offers OMNINET, a field-proven, low-cost and easily-installed means of making the microcomputer part of a powerful information management system.

Corvus OMNINET is a local area network that is fast becoming a standard for the personal computer industry. That's because Corvus offers reliable performance at minimal cost per connection. Since its creation two years ago, OMNINET has been installed in more offices, small businesses, schools and colleges around the world than any other LAN for personal computers.

As easily as connecting a stereo speaker, OMNINET lets you create a network of personal computers and peripherals. You can connect up to 64 devices to the

network: your Corvus Concept professional workstations, a wide range of other microcomputers, Corvus Winchester disk drives, printer servers with attached printers, and the Corvus Bank or Corvus MIRROR back up devices.

Your computers then have the flexibility to share data storage and printers, transfer files electronically and have access to a large common data base.

KEEP YOUR OPTIONS OPEN

OMNINET uses easy-to-install, economical twisted-pair cable to form a network up to 4,000 feet long. OMNINET's bus topology lets you add stations anywhere you choose along the cable. OMNINET lets you expand your system as needed, adding devices without interrupting operations.

Corvus now is developing different types of OMNINET servers

and gateways, including the SNA gateway for communication with mainframe computers. These products will allow you to expand the capabilities of your network to communicate with other networks in the future.

INTERNATIONAL ACCEPTANCE

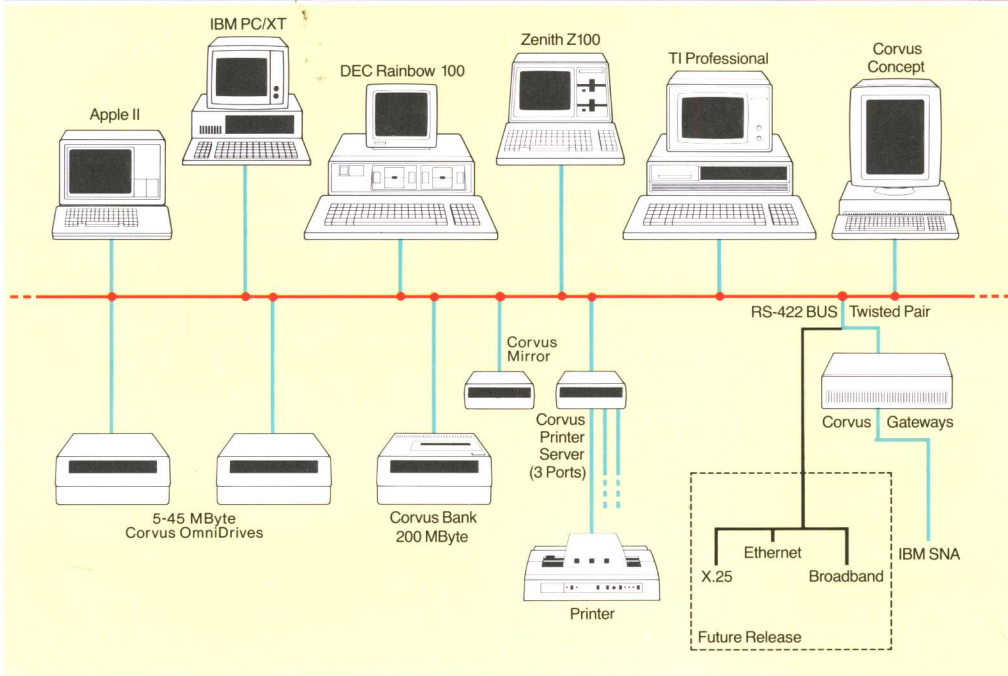
The Corvus Concept and other popular brands of microcomputers can co-exist on the same OMNINET network and share data storage and printer resources. OMNINET-compatible microcomputers include the IBM PC and XT, DEC Rainbow 100, TI Professional, Zenith Z-100, and Apple II, IIe and III.**

The OMNINET technology has been widely accepted by the microcomputer industry. More than 20 microcomputer manufacturers worldwide have licensed Omnet for use in their products.

**Not all operating systems of these computers are supported by OMNINET.



Word processing stations and printer linked together by Omnet.



Corvus Omnet family now includes over 30 computers. Besides those illustrated, licensing agreements add the following: NCR, Fujitsu, Onyx, Olivetti, and others.

Corvus Experience and Background

Corvus is the world's leading supplier of networks, mass storage and secure backup devices for personal computers.

A STRONG, STABLE COMPANY

Corvus was founded in 1979 with a single product: the Corvus Winchester disk. Since, the company has grown rapidly by developing and selling reliable products that address different business and educational needs. The same high quality and reliability that Corvus, "the IBM of Winchesters,"* built into its Winchester disk went into developing other Corvus products: the OMNINET network, The Bank mass storage, MIRROR backup and the SNA Gateway for communication with mainframe computers.

Corvus continues to be a financial success, with an excellent position in an expanding industry.

In August 1983, *Financial World* magazine ranked Corvus as the second-fastest growing company among the nation's top 25 growth firms.

Corvus will continue to expand into new market areas and product lines, building upon its stable base of diversified products and satisfied customers. Corvus is committed to serving its customers' needs while continuing its tradition of developing products with reliable performance at low cost. Corvus offers you a total systems solution: professional workstations, local area networks, mass storage and other peripherals, from a single, experienced supplier.

**Digital Review*, October 1983



The Corvus Concept at work
(clockwise from top left):
Stanford University School of
Medicine/VA Medical Center,
Palo Alto; Corporate Word
Processing Center; Dean
Witter Reynolds Inc.;
Solon Corporation



SPECIFICATIONS

Microprocessor—Motorola MC-68000

- 32-bit data and address registers
- 24-bit memory address bus
- 16-bit data bus

Memory

- 256K RAM standard
- 512K RAM optional

Standard Input/Output

- Two serial asynchronous controllers (RS-232C up to 19,200 baud)
- One Corvus Omninet local network interface (RS-422 at 1 million baud)
- Four expansion slots (50-pin card sockets)
- One clock/calendar with battery backup
- One flexible sound generator with speaker
- Two interval timers

OmniDrive Winchester Disk Options

- 5.5 MB (formatted) Corvus network-disk system
- 11.1 MB (formatted) Corvus network-disk system
- 16.6 MB (formatted) Corvus network-disk system
- 45.1 MB (formatted) Corvus network-disk system

Diskette Drive Options

- 1.2 MB (formatted) 8" diskette drive (IBM 3740 format)
- 720 KB (formatted) 5¼" diskette drive

Backup Option

- 73 MB (formatted) Corvus MIRROR®
- 100/200 MB (formatted) Corvus Bank™

Physical Characteristics

| | Height (in/cm) | Depth (in/cm) | Width (in/cm) | Weight (lbs/kg) |
|-------------------------------|-------------------|------------------|------------------|--------------------|
| Video Display | 14/35.6 | 15/38.1 | 15/38.1 | 41/18.6 |
| Processor | 4.5/11.4 | 15/38.1 | 17/43.2 | 24.5/11.2 |
| Keyboard | 3/7.6 | 8/20.3 | 17/43.2 | 4.7/2.1 |
| Total Unit (Without Keyboard) | 21/53.3 | 17/43.2 | 17/43.2 | 65.5/29.8 |

Due to our policy of continuing product development, Corvus reserves the right to change specifications without notice or obligation.

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Phone: (408) 559-7000 Telex: 278976

In Canada: Phone (416) 624-4899

Video Display

- 15-inch CRT—35MHz
- Bit-mapped display—720 by 560 points
- Vertical tilt: +17° to -13°
- Horizontal swivel: 90°
- 120 characters x 56 lines in landscape orientation
- 91 characters x 72 lines in portrait orientation

Keyboard

- 91-key detached keyboard
- Selectric® style keyboard
- 15-key numeric pad
- 10 programmable function keys
- Cursor control keys

Local Network Interface—Corvus Omninet

- 1 million bps transfer rate
- 4,000 feet (1,220m) total network length
- 64 total network devices
- Twisted-pair cable transmission medium

Operating Systems/Software

- UCSD PASCAL™ File Structure
- ISO Pascal with UCSD PASCAL extensions (native code compiler)
- FORTRAN 77 (native code compiler)
- BASIC—plus language
- "C" programming language
- 68000 Assembler
- Corvus ISYS Integrated System Software
- Corvus Paint Graphics Software
- EdWord™ Word Processor
- Corvus LogiCalc™ Electronic Spread Sheet

Electrical Specifications

- 100/120 or 220/240 volts (selectable),
- 50/60 Hz AC, 200 watts

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