

START AHEAD, STAY AHEAD. WITH THE NEW COLUMBIA VP



You'll discover performance packaged in every Columbia VP portable

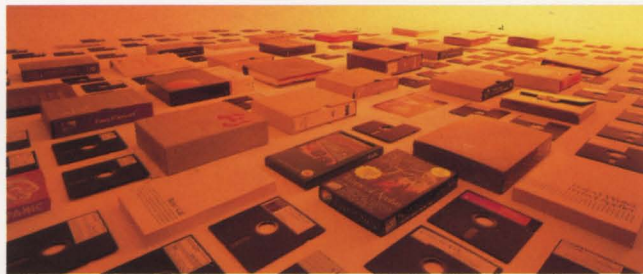
Introducing the very practical portable from Columbia.

The Columbia VP features IBM-PC compatibility teamed with the most comprehensive software package in the industry to deliver all the functions you need. The Columbia VP is simple to use, convenient for home or office, and packed with powerful features. Even the most advanced applications packages are no problem for the Columbia VP's sophisticated 16-bit 8088 128K/256K RAM processor. The best news of all is the price.

The leader in industry compatibility.

Today, the Columbia VP takes on hundreds of IBM-PC compatible software programs and IBM-PC add-ons or peripherals.

What's more, Columbia supports five other operating systems — CP/M-80,[®] CP/M-86,[®]



Shown are IBM-PC compatible programs. The Columbia VP portable runs MS-DOS[®] plus five other operating systems.

(Concurrent CP/M-86,[®] OASIS-16[®] and XENIX[®] available soon) — stretching the Columbia VP's software compatibility beyond any other personal computer you can buy. And the Columbia VP is made in the U.S.A. and serviced nationwide by Bell & Howell, with 600 field service representatives and 175 service locations.



128K RAM expandable to 256K RAM. 8088 CPU 16-bit processor.

Serial RS-232 interface. Parallel printer interface.

Storage for software and user guide.

Two 5¼" half-high floppy disk drives. 320K double-sided, double-density.

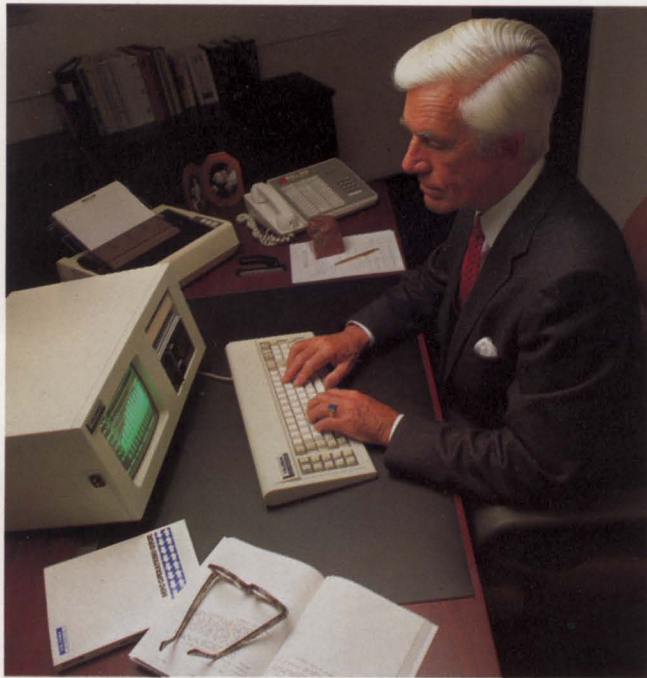
9" screen, green or amber. Full graphic capabilities, 640 x 200, or 320 x 200 pixels. 80 x 25, or 40 x 25 characters.

Rugged, lightweight IBM-standard keyboard. 83 full-function keys, curved to fit your fingertips, all standard ASCII characters, plus 10 function keys and a numeric keypad. Because it's matched to IBM-PC software documentation, learning is easy.

Thousands of dollars worth of software comes FREE with every system.

Every Columbia VP is packaged with software including easy-to-use programs for all of the most common business and professional applications:

Perfect Writer™	Perfect Calc™
Perfect Filer™	Perfect Speller™
MS-DOS® with RAM disk	CP/M-86®
Macro/86 Assembler	BASICA®
MS-BASIC®	Asynchronous
Diagnostics	Communications Support
Space Commanders™	Columbia Tutor
Fast Graphs®	Home Accountant Plus™



The Columbia VP portable for convenient IBM-PC compatibility where you need it.

The very personal computer.

You probably work in a place where there's more than one person who uses a computer. So it's important to have one of your own. The Columbia VP portable is an inexpensive way to have a full performance workstation dedicated to your job. Yet it's ready to travel with you across the country or for work at home.

And you can personalize your Columbia VP portable with optional add-in boards for modems, color graphics, memory expansion or other special applications.

Start ahead, stay ahead.

Every Columbia offers the highest level of hardware and software compatibility in the industry. Plug compatible with the IBM-PC. Flexible enough to work with other operating systems—compatible with a world of software.

Get a head start today with the performance package from Columbia. The Columbia portable.

All the software listed below ... and much more ... runs on the Columbia MPC-VP Portable.

Perfect Writer	Visitrend/Plot	Temple of
Perfect Speller	The Graphics	APSHAI
Perfect Calc	Generator	Space Strike
Perfect Filer	Video Graph	ZUTU
Fast Graphs	Plus	Snack Attack
Home Accountant Plus	Wordstar	Air Traffic
Asynchronous Communications	Spellstar	Controller
Space Commanders	Mailmerge	Apple Panic
Columbia Tutor	Easywriter II	Executive Suite
Diagnostics	(64K)	Floppy Frenzy
BASICA (GW BASIC)	Volkswriter	Adventure in
MACRO Assembler	SuperWriter	Serenia
MS-DOS	The Benchmark-	Perfect Software
CP/M 86	Mailing List	Tutor
Visicalc	Peachtext	Star Cross
Supercalc	Spelling	Viper
Context MBA	Proofreader	Death Station
Lotus 1-2-3	Mailing List	PC-MAN
Easy Planner	Type Faces	CP/M 80
Peachcalc	EZ Label +	Amortizations
Statistics	EDIX	and Depreciation
VISI Schedule	Personal Tax	Typing Tutor
dBASE II	Planner	IBM Demo
TIM III	Accounts	MS-FORTRAN 86
Condor III-20	Receivable	MS-FORTRAN 87
Visifile	Accounts	MS-PASCAL 86
Superfile	Payable	MS-PASCAL 87
The Sort	General Ledger	BASIC
	Financial	COMPILER
	Calculator	COBOL
	Flight Simulator	C-COMPILER
	Decathlon	P-SYSTEM
	Adventure	Fact Track
	Zork I/II/III	COHERENT
	Deadline	

All software printed above in bold face type is included in the price of the Columbia MPC-VP Portable. It's FREE software valued in the thousands of dollars ... only from Columbia Data.

The Columbia MPC-VP Portable



Columbia expansion boards allow you to personalize your VP or MPC for communications, memory expansion, color graphics or other special applications.

Columbia Data Products—the leader in compatibility.

Only one company offers so many options in IBM-PC and industry compatibility. Whether you need the convenience of a portable, the reliability of a professional workstation, or a multi-user/network environment, look to Columbia for the most flexible solutions in the industry.

Every Columbia features the highest level of IBM-PC hardware (plug compatible) and software compatibility—choose the system right for you. No other manufacturer comes close to this level of industry-wide compatibility and selection. Start ahead and stay ahead with Columbia compatibility.

The Columbia VP portable.

Convenient, portable IBM-PC compatibility with 128K/256K of RAM, 16-bit processing and a complete package of high performance software.

The Columbia MPC professional workstations.

The most compatible and flexible single and multi-user computer on the market. Eight expansion slots, high speed 16-bit processing, and the most exciting software package in the industry designed to help you start ahead, and stay ahead in IBM-PC compatibility.

The Columbia MPC with hard disk/network capability.

Other Columbia MPC's feature hard disks for extensive data management and multi-user/network environments. Compatible with dozens of other terminals and peripherals for the best flexibility in the industry.

And stay ahead with Columbia expansion products for color graphics, memory expansion, communications or other special applications.

Columbia Data Products. Ahead in compatibility, flexibility and value. Call for the name of the Columbia dealer or distributor nearest you.

COLUMBIA MPC-VP PORTABLE 1600-VP SPECIFICATIONS

Processor:	8088 CPU 16-bit 4.77 MHz. Socket for 8087 numeric processor.
Memory:	EPROM 12K RAM 128K/256K (Piggyback PCB) 250 ns.
Peripheral Interfaces:	Floppy disk controller supporting two 1/2-high double-sided, double-density floppy disk drives. ASYNC serial interface RS-232, 110 to 19,200 baud. Parallel printer port—Centronics compatible. Keyboard interface IBM-PC compatible. Display interface: Graphics mode: 640 x 200 pixels monochrome 320 x 200 pixels monochrome Text Mode: 80 x 25 characters 40 x 25 characters DMA controller-4 channels, 838 ns/Byte transfer rate/channel. Eight level priority interrupt controller. One IBM-PC compatible expansion slot.
SYSTEM FEATURES:	
Keyboard:	IBM-PC compatible.
CRT:	Green or amber phosphor, 9" diagonal, non-glare.
Mass Storage:	Two half-height 5 1/4" floppy disk drives. 320K bytes per drive.
Physical:	Size: 18" x 16" x 8" with cover. 18" x 14" x 8" in operation. Weight: 32 lbs. Power consumption: 100 watts, 110/220 VAC, 50/60 Hz.
Service:	Bell & Howell Service Company, nationwide. Software support from Perfect Software.

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