

NEC

# PC-8800 Series

PERSONAL COMPUTER





# The personal computer with more

If you thought all personal computers were about the same, it's time you had a look at the PC-8800 from NEC. In the PC-8800, we've taken a time-proven, Z80A-compatible CPU and married it to more memory than you thought possible in an 8-bit machine. The result: A truly personal computer that gives you more of what you need for professional applications. Editing is easier, graphics are more powerful, and operation is faster and more straightforward. There is even a host of powerful peripherals—to help enhance the usability of this user-friendly computer even more.

## More memory

Thanks to a number of technological and engineering innovations, the PC-8800 is equipped with a big 184K bytes of memory (ROM and RAM). This memory capability makes the PC-8800 ideal for word processing, business graphics and other sophisticated applications.

## More powerful N<sub>88</sub>-BASIC language

The PC-8800 uses a pair of powerful programming languages: N-BASIC and N<sub>88</sub>-BASIC. The use of N-BASIC makes the PC-8800 compatible with programs written for the popular NEC PC-8000 personal computer, while N<sub>88</sub>-BASIC gives the PC-8800 even more capability, especially for graphics. In addition, the use of N<sub>88</sub>-BASIC in the PC-8800 makes this computer the only 8-bit machine to take full advantage of memory—that is, to use all 64K of RAM for data and programs.

## More powerful graphics

The PC-8800 features full-color, dot-by-dot control of the big 640×200 dot matrix for truly stunning graphic displays. The N<sub>88</sub>-BASIC language complements this bit-mapped display by giving highly specific control of graphics, making your displays even more colorful and useful. And the use of the NEC high-resolution color display expands the available matrix to 640×400 dots on a character-by-character basis.

## More software

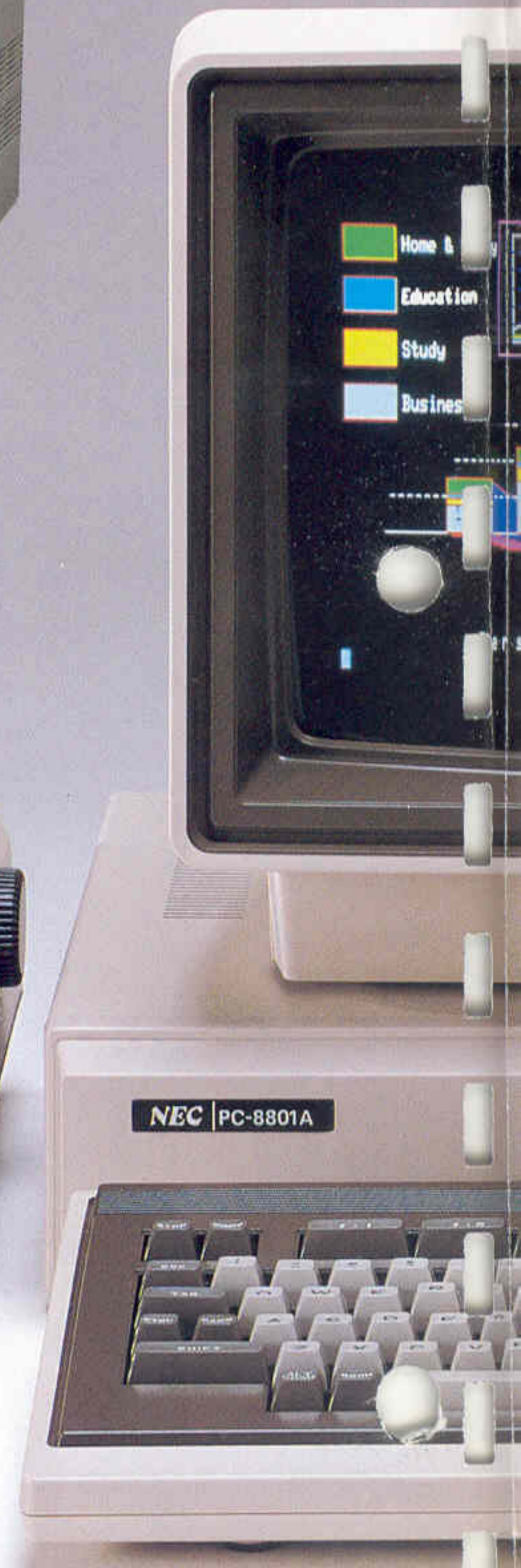
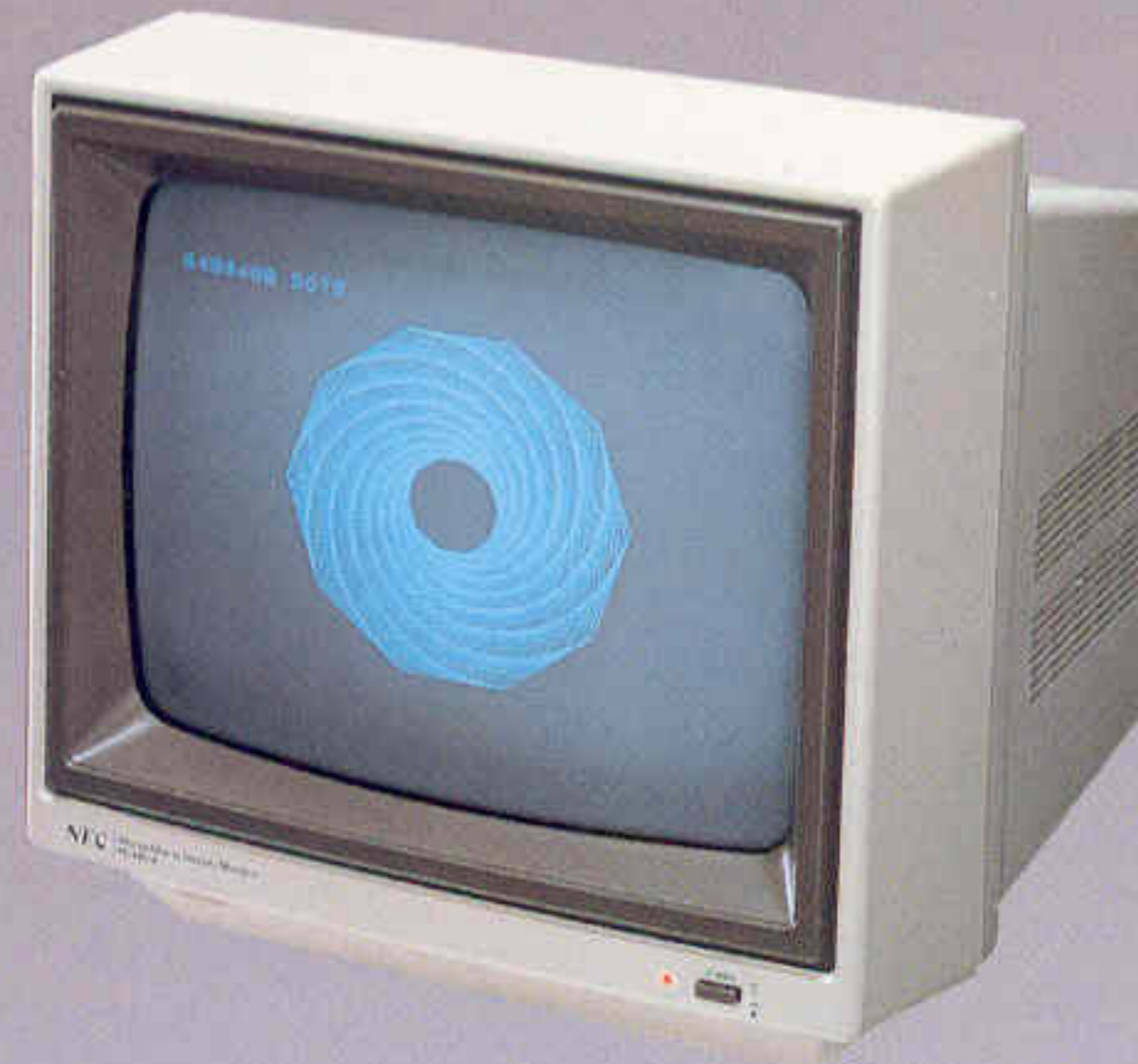
Because it is compatible with programs written for the NEC PC-8000 personal computer, as well as with programs written in its own N<sub>88</sub>-BASIC language, the PC-8800 has access to an astonishing variety of preprogrammed software packages. And the PC-8800 supports CP/M\* as an option, too. In fact, the CP/M operating system can be run on the PC-8800 without the use of a software card, giving you an almost limitless supply of third-party software.

## More applications

The extensive memory, powerful programming language, and enhanced usability of the PC-8800 make this personal computer ideal for an extremely wide range of applications. In addition, there are four ports for expanding its capabilities—for example, adding a 16-bit software card.

The PC-8800 can even be connected as a terminal in a local area network, connected to a host computer via a modem and RS-232C interface.

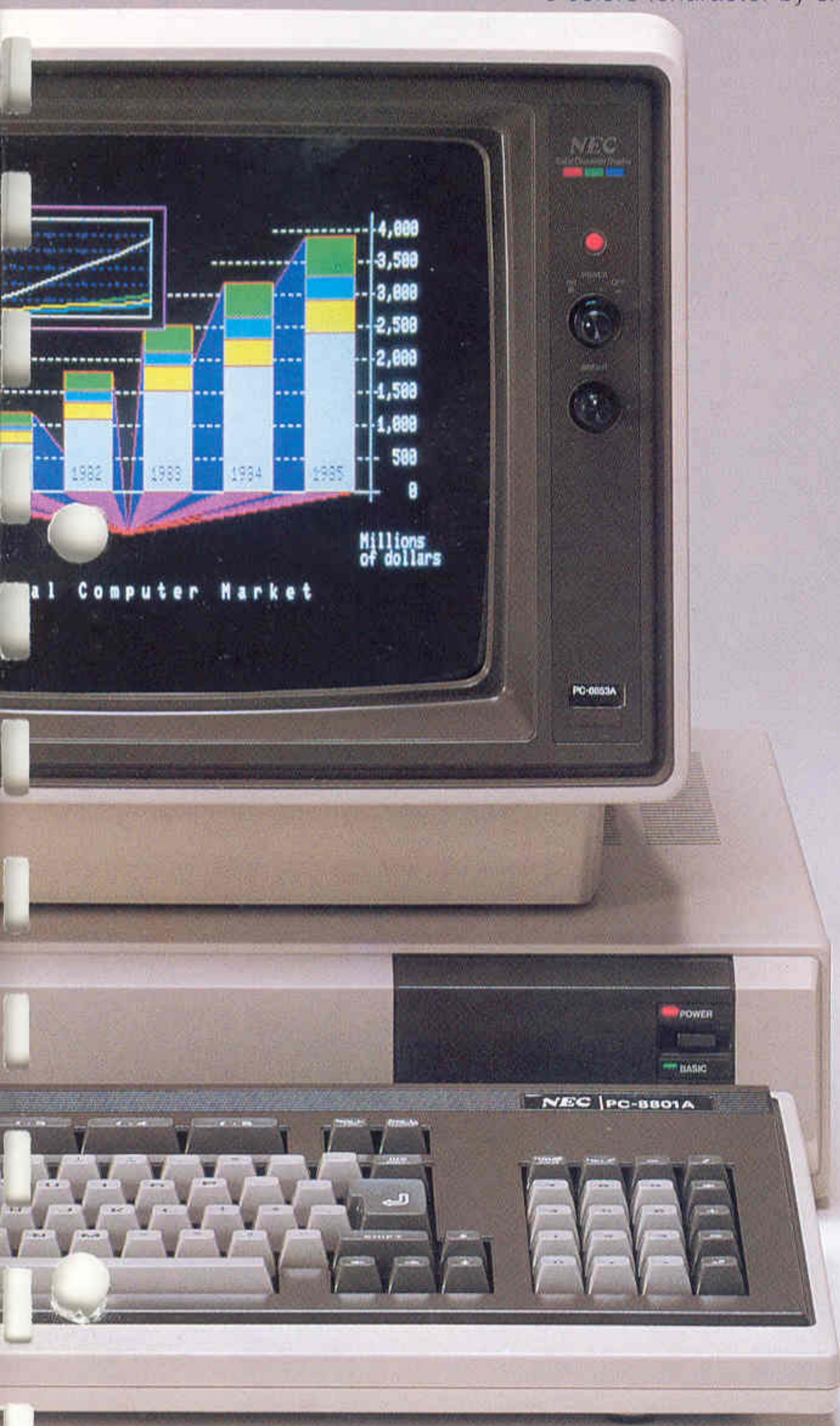
\*CP/M is a trademark of Digital Research, Inc.





## PC-8801 Specifications

CPU	$\mu$ PD780C-1 (Z80A compatible), 4MHz	Color Graphics (N <sub>88</sub> -BASIC)	640×200 dots (1 screen) 8 colors (dot by dot) Mixture of characters and graphic patterns possible
ROM	• N-BASIC and monitor: 32K bytes • N <sub>88</sub> -BASIC: 40K bytes Expandable up to a maximum of 56K bytes (8K bytes×7 banks)	Background Color Border Color	8 colors
RAM	• User RAM: 64K bytes When N <sub>88</sub> -BASIC is running: Text work area: 32K bytes Video RAM, variables, work area and text: 31K bytes • Video RAM for graphics: 48K bytes Expandable in 32K byte segments via bank switching	Video Output	8 colors (not available when using high-resolution color display) RGB separate output (color) Composite video signal output (monochrome)
CRT		Keyboard	Separate, connected to main unit with flexible coiled cable Features English upper/lower case characters, 10-key pad, control keys, 5 function keys, capital lock, HELP and COPY keys
Text	Choice of 80 characters×25 or 20 lines, or 40 characters×25 or 20 lines Reverse, blink, secret (character by character) 8 colors (black, blue, red, magenta, green, cyan, yellow and white)	Extension Ports Cassette Interface GP I/O	4 slots available 600 baud/1200 baud Input: 4 bits Output: 1 bit Interrupt: 1 ch.
Monochrome Graphics (N <sub>88</sub> -BASIC)	Choice of 640×200 dots (3 screens), or 640×400 dots (1 screen, available when using high-resolution color display) Mixture of characters and graphic patterns possible 8 colors (character by character)	Printer Interface	Parallel interface (standard Centronics printer interface)
		Serial Interface	Conforms to RS-232C standards
		8" Floppy Disk Interface	Incorporated in the slot within the main unit
		5" Floppy Disk Interface	Built in (for PC-8031 and PC-8031-2W)
		Light Pen	PC-8045 can be used
		Calendar Clock	Has internal battery backup
		Power Supply	PC-8801A: AC 115V ±10% PC-8801B: AC 220/240V ±10% Max. 70W; avg. 40W
		Power Consumption	
		Dimensions	
		Main Unit	496(W)×342(D)×107(H)mm
		Keyboard	464(W)×214(D)×72(H)mm
		Weight	
		Main Unit	7.1 kg
		Keyboard	2 kg



The PC-8801 is available in two versions: the PC-8801A and PC-8801B. Choose according to the line voltage.



## More peripheral devices, too

Besides being compatible with most peripherals from the popular NEC PC-8000 Series of personal computers, the PC-8800 Series includes its own unique peripheral devices. The result is

a comprehensive array of peripherals that let you tailor the ideal computer system for your particular application—and expand that system to fill other needs in the future.

### Four types of CRT

- PC-8853: 14" color (high-resolution)
- PC-8851: 14" monochrome (high-resolution)
- PC-8043: 12" color
- PC-8041: 12" green



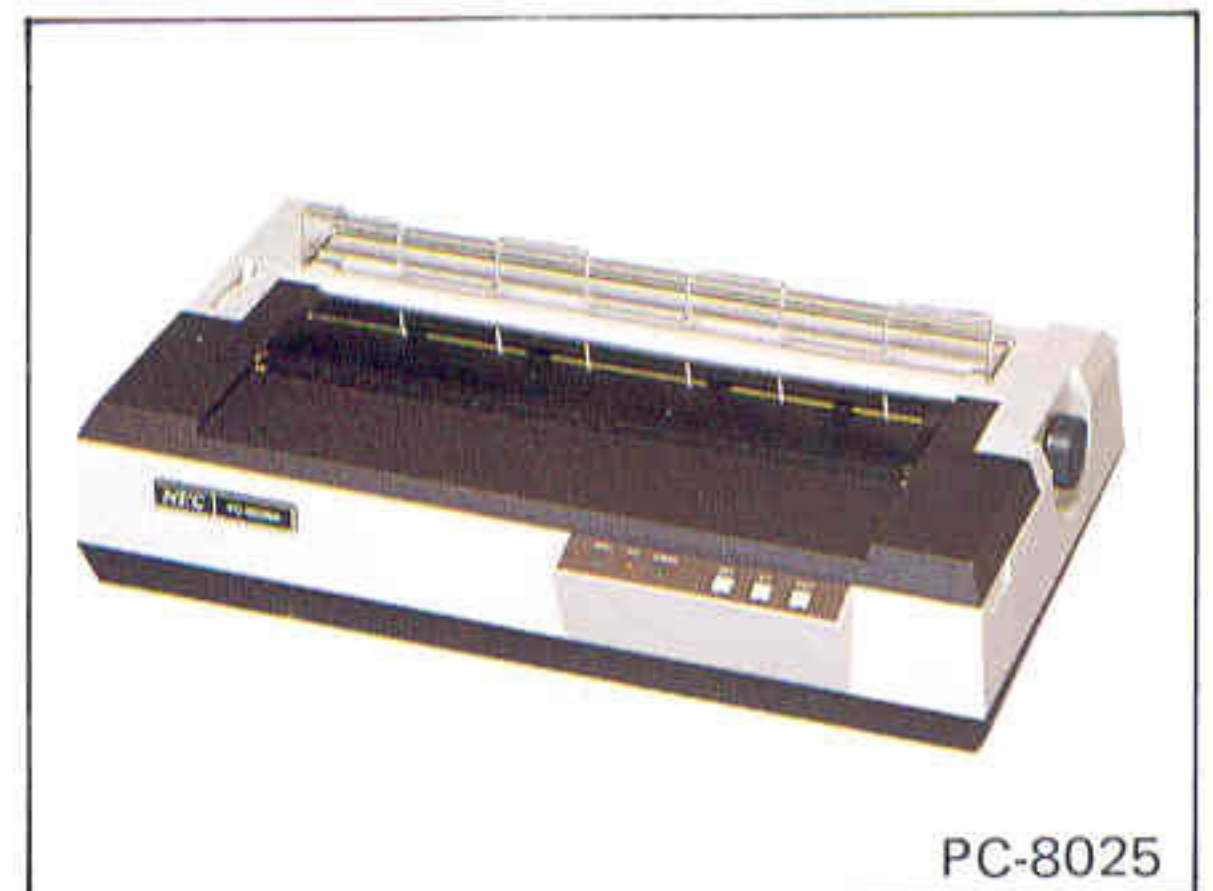
### Three types of floppy disk drive

- PC-8881: Slim 8" FDD (2M bytes/unit)
- PC-8831: Slim 5" FDD (double-sided, double-density, 0.64M bytes/unit, DMA interface)
- PC-8031-2W: 5" FDD (double-sided, double-density, 0.64M bytes/unit)



### A variety of printers

Naturally, a wide variety of printers, both line-and letter-quality, are available for the PC-8800. One particularly perfect match is the NEC PC-8023-N, a high-speed dot-matrix printer that handles input on a dot-by-dot or character-by-character basis—at up to 120 characters per second.



136 characters/line  
(Pica character)

**NEC** NEC Corporation

NEC Building  
33-1, Shiba 5-chome, Minato-ku  
Tokyo 108, Japan  
Tel: Tokyo 454-1111  
Cable Address: "MICROPHONE TOKYO"  
Telex Address: NECTOK J22686

Cat. No. E74019  
8309 30002K(P)  
Printed in Japan