VICTOR 9000 (Model Series 9120)

VICTOR®

The VICTOR 9000 microcomputer, a versatile desktop workstation for the office, combines the ease of use, size and economy of a small personal computer with the power of a minicomputer. Designed with the user foremost in mind, the VICTOR 9000 displays crisp, stable characters on a non-glare, flicker-free and adjustable screen and features a low-profile, stand-alone keyboard created for operator comfort with sculptured typewriter, editing,

numeric and function keys. And it fits neatly on a typewriting desk.

The main system, based on the 16-bit Intel 8088 microprocessor, has 128K bytes of RAM, expandable to 896K bytes. Both CP/M-86™ and MS-DOS™ operating systems are supplied, ensuring an extensive library of applications software. The Model Series 9120 consist of two single-sided, 5-1/4-inch floppy disk drives storing more than 1.2 Mbytes of data, substantially more

than most systems. The 9000 can be connected to a variety of peripherals and accommodate local and long-distance communications. A voice coder/decoder comes as a standard feature.
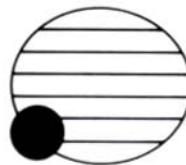
Other members of the VICTOR 9000 family include systems, with over 2.4 Mbytes of floppy disk storage, and systems with over 1.2 Mbytes of floppy disk storage and 10 Mbytes of hard disk storage.

Systems

VICTOR 9000 (Model No. – Series 9120)

Hardware

▶ GENERAL OVERVIEW—The VICTOR 9000 computer is a refined tool for the solution of the professional's computing problems. The three-component packaging of the VICTOR 9000 allows positioning of the components for optimum efficiency and comfort. The precise display system accurately presents visual data to the user. Sophisticated sound and voice capabilities are provided for audio communications. Multiple and flexible communication ports allow a variety of connections for the VICTOR 9000 computer to other computers and peripheral devices. Advanced disk technology maximizes the permanent storage capacity of the computer system.

▶ CPU—The main processor is a 5MHz Intel 8088 with 16-bit internal architecture, and 8-bit data bus interface, and direct addressing capability to 1 Mbyte. The 16-bit architecture includes a 14-register set with symmetrical operations; 24 operand addressing modes; byte, word, and block operations; and 8-bit and 16-bit signed and unsigned arithmetic (including multiply and divide.)

▶ MEMORY—128K bytes standard, of 333Ns cycle time 64K dynamic RAM's, expandable to 896K bytes using only two memory boards. Memory expansion boards in increments of 128K, 256K, and 384K bytes are also available. There are 8K bytes of diagnostic and initial program load code in ROM and 4K bytes of screen RAM in the standard VICTOR 9000. The upper 128K bytes of the 8088's 1 Mbyte address space is reserved for I/O, static screen RAM, and boot ROM.

▶ DISPLAY—The display includes a non-glare mesh screen for improved contrast and flicker-free P39 (long persistence) phosphor. The display is physically separate from the main unit, tilts from 0-11 degrees, and swivels 42 degrees from right to left. Display formats supported are 800 x 400 pixel bit-mapped graphics, 80 character x 25 lines of super-crisp characters, or up to 132 character x 50 lines in graphics formats. Character cells are 10 x 16 or 16 x 16. Character fonts are stored in RAM, providing soft character set definition. Many standard sets (and a character set editor) are available, allowing the user to define new character sets. Attributes available for each character are reverse video, half-intensity, underscore, and non-display. CRT brightness and contrast are under user control.

▶ KEYBOARD—The keyboard is a separate, low-profile module with a coiled 2-meter cable and sculptured keys. An integrated palm rest keyboard is optional. It uses capacitive switches with tactile feedback. It is fully programmable and includes typewriter keys, edit keys, numeric keys, and function keys.

▶ DISKS—Two 5¼", single-sided floppy disks are standard. These have 80 tracks, GCR recording using variable disk speed, and have a formatted capacity of 610K bytes each. Track-to-track step time is 3 msec and average access time is 235 msec.

▶ SERIAL COMMUNICATIONS PORTS—Two completely independent, full-duplex RS-232c ports are on the back panel. Asynchronous or synchronous communications protocols are supported (including Bisync and SDLC) using an advanced serial I/O device, at baud rates up to 9600. Either internal or external clocking may be used.

▶ PARALLEL PORTS—One 36-pin Centronics port on the rear panel supports IEEE 488 (with optional software cable) and another 50-pin user-programmable port is available on the main logic card.

▶ CODEC—Analog-to-digital and digital-to-analog speech and sound conversion are supported, including a standard amplifier and speaker for playback. A microphone and gain-controlled pre-amp are optionally available for recording.

▶ PHYSICAL
  — MAIN FRAME:
    Height - 177.8mm/7.0 in.
    Width - 381.0mm/15.0 in.
    Depth - 330.2mm/13.0 in.
    Weight - 12.6kg/28 lbs.
  — DISPLAY:
    Height - 263.5mm/10.4 in.
    Width - 312.4mm/12.3 in.
    Depth - 317.5mm/12.5 in.
    Weight - 9.5kg/21 lbs.
  — KEYBOARD:
    Height - 44.5mm/1.8 in.
    Width - 482.6mm/19.0 in.
    Depth - 162.6mm/6.4 in.
    Weight - 1.5kg/3 lbs.

▶ ELECTRICAL—190-270 VAC or 95-137 VAC at 47-63 Hz

Software

The VICTOR 9000 computer has a full range of software products that complement its powerful and flexible physical capabilities. This software allows an extraordinary degree of user configurability and customization. The VICTOR 9000 supports the two major microcomputer operating systems, providing a broad spectrum of applications and tools. In addition, a comprehensive product set is available, consisting of applications, features, tools, and utilities. The power of the VICTOR 9000 is expanded indefinitely by allowing end-user programmability and total personality definition.

▶ SOFT MACHINE
  — Defining keyboard characters
  — Defining character set
  — Initial load application

▶ OPERATING SYSTEMS
  — CP/M-86™
  — MS-DOS™

▶ APPLICATIONS
  — Word Processors
  — Spread Sheets
  — Database
  — Business Graphics

▶ FEATURES
  — Communications
  — Graphics
  — Audio/Voice

▶ TOOLS AND UTILITIES
  — Configurator
  — Text Editors
  — Link Editors
  — Language Processors
  — Soft Utilities
  — Disk Access Methods

Product Configuration

All models include a VICTOR 9000 Accessory Kit consisting of the MS-DOS Operating System (except programmer's utilities), the MS-BASIC Interpreter and Operator Reference Manual. The CP/M-86 Operating System (except programmer's utilities) and Operator Reference Manual are also included with this Floppy Disk base system..

MODEL NO.	DESCRIPTION
9120-2	230V International Model Contact VICTOR Representative for Country Configuration.
9121	115V USA Model with American Keyboard.
9121B	Above Model with integrated palm rest Keyboard.

MS-DOS is a trademark of Microsoft.

CP/M-86 is a trademark of Digital Research, Inc.