

SONY

**VIEW SYSTEM™**  
**VIW-5000**  
LOW-COST INTERACTIVE  
DELIVERY SYSTEM



# VIW-5000

The VIW-5000 VIEW System is Sony's most affordable integrated interactive workstation.

Designed as a low-cost delivery system, the Sony VIW-5000 also provides advanced features and performance typical of all Sony interactive video products.

Its low-profile, small-footprint one-piece configuration saves valuable work space and simplifies setup, installation and transportation. Offering compatibility with industry graphics, software, hardware and courseware standards, the VIW-5000 also goes beyond the standards to offer advanced graphics and overlay capabilities. The system also features non-interlaced, flicker-free display, IBM® InfoWindow™ System emulation, and overlay in multiple modes.

The ability to run most IBM InfoWindow courseware provides a large library of ready-to-run courseware solutions for a wide range of topics and customers. Expansion capabilities and options allow high-level custom applications. Like other VIEW System products, the

VIW-5000 is a single-vendor integrated system offering component compatibility, simplified interconnection, compact design and Sony high performance.

**Lightweight, Compact Design** The Sony VIW-5000 workstation is exceptionally smaller and weighs much less than conventional systems.

**Industry Standard Graphics Compatibility** CGA, EGA and VGA compatibility with video overlay are inherent to the Sony VIW-5000.

**IBM InfoWindow Emulation** The Sony VIW-5000 System can run most of the hundreds of off-the-shelf courseware titles designed for the IBM InfoWindow system as well as high-level custom applications.

**Advanced Graphics Option (SMI-5051)** Graphics memory expansion to 640 x 480 resolution with 256 colors from a palette of 256,000.

**Non-Interlace Display** Flicker-free display of high resolution overlay graphics allows more realistic simulations and more accurate graphic representations.



**Rapid Access** The integrated Laservision compatible videodisc drive offers rapid access of 3.0 seconds or less.

**Automatic Front-Load Mechanism** The front-loading tray on the videodisc drive is motor driven for ease of use. Its movement may be controlled manually or by computer.

**Control Program** Advanced software provides videodisc, touch screen, display mode and superimposer interface for simplified system control and development.

**Convenient Expandability** For even greater applications flexibility the Sony VIW-5000 permits ready expandability. Hard disk drive, touch screen, mouse and many other system enhancements can be easily added. And, for specialty applications, the AT-compatible expansion slots allow use of a huge selection of industry standard add-in options.

## COURSEWARE SOLUTIONS

The Sony VIW-5000 gives users a distinct advantage with MS-DOS®, and IBM PC/AT™ and IBM InfoWindow compatibility. This means the Sony VIW-5000 can run a huge library of available courseware.

This extensive courseware capability includes hundreds of readily available off-the-shelf programs from technical and management skills, foreign language studies, service and materials handling training, medicine to math to science and much more.

Custom courseware applications are supported by industry compatible development tools as well as special tools offered by Sony to ease the whole authoring process. A variety of authoring system software is also available to aid in transportability and easy development.

## A PRODUCT OF EVOLUTION

As the use of interactive video in business, training and education grows, so does the need for a low-cost and flexible delivery system.

Once again, Sony responds with a truly innovative system solution: The VIW-5000 VIEW System interactive video workstation.

The Sony VIW-5000 integrates a highly reliable industrial quality videodisc drive, an MS-DOS, PC-AT compatible system controller, high-performance graphics/overlay system, high-resolution display

options—all from a single source—SONY.

The VIW-5000 is a reflection of Sony's commitment to continually improving the VIEW System line. Yet the Sony VIW-5000 takes the concept of system integration a step further.

A trend setting small footprint is achieved, in part, through the application of VLSI (Very Large Scale Integration) technology. A single board holds the microprocessor, program RAM, graphics and overlay systems, and even expansion space for future updates.

The VIW-5000 VGA Video/Graphics Overlay system is compatible with both the Sony SMI-3081 VGA Video/Graphics Overlay System for PC add-on applications and also the high-level VIW-3015A VIEW System workstation. This family approach offers the widest array of implementation options in the industry.

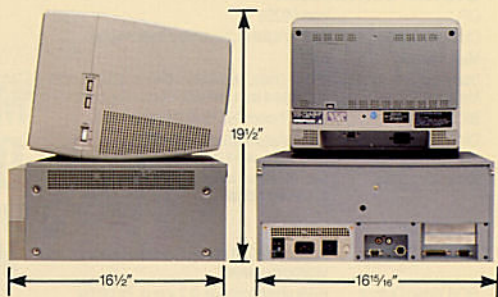
Because the component interconnections are fully integrated internally the VIW-5000 is a model of simplicity—no jungle of wires to interfere with system operation, installation or aesthetics.

## THE RELIABLE CHOICE FOR A VAST ARRAY OF APPLICATIONS

Sony VIEW System workstations are put to the test in active high-use public information systems, point-of-sale applications, trade shows, and museum exhibits and demanding training applications. And every day, Sony integrated systems pass the test with system - smart design and built-in features such as the videodisc drive's automatic optical block lockdown and impressive 10,000 hours Mean Time Between Failure rating. Standing behind Sony's single source solution is the service, parts and technical assistance you expect from a leader in technology innovation—should you ever need it.

The Sony VIW-5000 is designed to take advantage of the wide array of courseware available for government, industry, education and business applications, and is flexible enough to be compatible with new courseware releases. Most importantly, like other VIEW Systems the Sony VIW-5000 is designed with the sophistication and industrial strength that has made the Sony VIEW System workstation the recognized leader in high-performance interactive communications system.

With a price that's designed to fit smaller budgets, the Sony VIW-5000 unit is also built to save valuable office, classroom or industrial work



space. Whether it's in the corporate learning center, the high-school language lab, the university library, the military training center or on the road with a travelling exhibit, the Sony VIW-5000 VIEW System workstation offers unmatched convenience, performance and portability.

Now, those with smaller budgets can enjoy the benefits of quality, full-featured interactive video from Sony.



Like all Sony VIEW System products, the VIW-5000 enjoys the benefits of a single-source system:

- Engineered as an interactive video system
- Guaranteed component compatibility
- Guaranteed component availability
- Guaranteed service/parts support
- Small footprint uses less space
- Easy to set up
- Easy to move
- Easy to ship
- Internal expansion
- Sony name and quality—A safe bet



# VIW-5000 SPECIFICATIONS

## SYSTEM CONTROLLER

CPU	Intel 80286
Clock Frequency	8 MHz/10MHz (keyboard switchable)
Main Memory	640K
Standard Graphics Memory	256K - (max. resolution: 640 x 480, 16 colors) Can be increased with SMI-5051 graphics memory option.
BIOS ROM	128K Phoenix BIOS ROM Version 3.10
DMA	7 channel programmable DMA Channel 2 used by floppy disk interface
Expansion Slots	Two 16-bit, full length PC-AT compatible expansion slots

## DISPLAY

Graphics Output	Superimposed VGA graphics over video from videodisc player
RGB Video Output	RGB analog signal, 0.7 V p-p, 75 ohms
Sync Signal	Horizontal - 31.5 KHz Vertical - 60 Hz when displaying any VGA graphics superimposed over video 60 Hz when displaying VGA modes 11, 12, and 5F without superimpose 70 Hz in standard VGA modes except for 11, 12, and 5F

## I/O INTERFACE

Keyboard	5-pin DIN jack, TTL level, serial interface
RS-232C	9-pin connector, programmable to 9600 baud asynchronous serial communication, COM1
Printer	25-pin connector, TTL level, 8-bit parallel interface, LPT1
Real Time Clock	DS1287 with battery backup (5 year life)
Floppy Disk	Built-in controller on motherboard to support 3.5" micro floppy disk. Floppy disk drive supports both 1.44 MB (2HD) and 720 K (2DD) diskettes.
Hard Disk Drive	Built-in hard disk drive controller on motherboard with AT Task File Interface.
Videodisc Drive	Internal audio/video connections, system controller to videodisc communications are connected internally as COM2..

## VIDEODISC DRIVE

Disc Format	Laservision
Pick-up Method	Laser beam (reflective)
Laser Type	Diode laser ( $\lambda = 7800$ Angstroms)
Emission Duration	Continuous
Laser Output	0.4 mW measured at 1.6 mm from the objective lens surface on optical pick-up block
Videodisc Size	12" and 8"
Max. Playing Time	CAV: 30 min./side CLV: 60 min./side
Spindle Speed	CAV: 1800 RPM CLV: 1800 to 600 RPM
Random Access Speed	CAV: 3.0 sec. from frame 1 to 54000 10 sec. (by chapter search) CLV: 10 sec.

## AUDIO

Output:	RCA jacks, line level, right and left channel, -1.5 dB (1 KHz, 100% MOD, load impedance 47 kilohms) Headphone jack, switching type and speaker Output level of headphone, RCA jacks, and speaker are controlled by volume control on front panel
Signal to Noise Ratio:	CX ON: 70 dB and more CX OFF: 56 dB and more
Audio Frequency Response	40 Hz to 20 KHz

## GENERAL

Power Requirement:	120 VAC + 10%, 60 Hz
Power Consumption:	5.0 A max. (VIW-5000: 2 A + Aux outlet 3A)
Operating Temp:	5°C to 35°C (41°F to 95°F)
Operating Humidity:	25% to 80% (at 25°C / 77°F)
Storage Temp:	-20°C to 60°C - 4°F to 140°F)
Dimensions (W x H x D):	430 x 190 x 410 mm (approx.) 16 $\frac{5}{8}$ x 7.5 x 16 $\frac{1}{2}$ in. (approx.)
Weight:	17 kg. (approx.) 37 lbs.

## OPTIONAL PERIPHERALS

SCK-5015	Hard Disk Drive Unit 3.5", 42.6 MB (formatted) high performance hard drive. Pre low-level formatted with 1:1 sector interleave. At power down, read/write heads are automatically retracted to safe landing zone and parked. Includes SMF-5090 Hard Disk Drive Mounting Kit. Interface: AT Task File Seek Time: 10 ms (track to track) 29 ms (average) 50 ms (maximum)
SMI-5051	Data Encoding: 2,7 RLL VGA Graphics RAM Expansion Increases VGA RAM to 512K bytes to enable the VIW-5000 to display 640 x 480, 256 color graphics
SMI-5050	LIM 4.0 Expanded Memory Option Provides 2MB of expanded memory which is compatible with the Lotus - Intel - Microsoft, Expanded Memory Specification.
SMI-3031	Dual RS-232C Board Provides two additional RS-232C serial interface ports. These ports are accessed as COM3 and COM4 via VIEW/VGA Control Program. Controller: INS8250 x 2 Baud Rate: 110 - 9600 Connectors: Male, DSUB 9-pin x 2
SMI-3062	Mouse Microsoft compatible serial mouse. This mouse can be connected to the RS-232C port of the VIW-5000. Interface: RS-232C Baud Rate: 1200 Connector: Female, DSUB 9-pin Cable Length: 2m.

## CABLES

CTG-PSII	Analog RGB Cable for VGA Graphics Connector: Male, 15-pin (VGA-style connector) to male, 9-pin DSUB
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# SONY®

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