

VIKING 1

MONITERM

MS WINDOWS DISPLAY SYSTEM

HI-RES



The VIKING 1 MS WINDOWS® Display System implements the entire WINDOWS operating environment by providing an accelerated, hardware assisted interface to WINDOWS. MS WINDOWS® provides an integrating environment for using multiple applications or multiple terminal emulations simultaneously. Drop down menus and dialogue boxes are quickly accessed by keyboard or mouse. The VIKING 1 large screen, non-interlaced display implements multiple complex WINDOWS while maintaining an extremely clear and legible image.

The VIKING 1 hi-res display system is an add-in system to the IBM PC XT/AT/RT.® It includes a 19" monochrome monitor with 1280 x 960 resolution refreshed at a flicker-free 66 Hz. The Controller, with the exceedingly powerful Hitachi HD 63484, accelerates WINDOWS using the hardware BIT BLT and LINE draw primitives on the chip. The VIKING 1 implementation of MS WINDOWS® provides software performance and a superior display previously available only on very complex and expensive workstations.

VIKING 1 SPECIFICATIONS

The VIKING 1 graphics controller is an interface card to the IBM PC and compatible computers. At the heart of the VIKING 1 is the Hitachi HD63484 ACRTC. Users of the VIKING 1 should be familiar with the operation of this device.

GENERAL

2 Megabit main memory, configured as 1K x 2K. 1280 x 960 bits are displayed. 1024 x 768 are reserved for buffer for fonts, figures or formats.

The PC interface includes DMA support and address decoding on the PC bus.

The controller supports the usage of standard PC programs, for the IBM CGA, IBM Monochrome Adapter, or Hercules Adapter, without needing a second monitor.

The BIOS PROM is read upon startup to configure the DOS and initialize the Hitachi ACRTC chip.

The software interface involves accessing only the Hitachi ACRTC and the Control Register. Both are accessed in the I/O space of the PC.



GRAPHICS

Bit Mapped Memory: 2 Megabits (2048 x 1024)
Character Memory: Up to 128K
Hardware Zoom and Pan
DMA Access

Hardware functions include:

BIT BLIT	PAINT
CIRCLE	DRAW LINE
RECTANGLE	POLYLINE
POLYGON	ELLIPSE
ELLIPSE ARC	COPY

MONITOR

Raster Size	11" x 14"
Horizontal pixels	1280
Horizontal frequency	66KHz
Vertical pixels	960
Vertical frequency	66Hz (Flicker Free!)
Pixel frequency	110 MHz
Phosphor	P-4 (White)

CRT size (diag)	19.6"
Monitor width	17.8"
Monitor height	14.5"
Monitor depth	15.0"
Monitor weight	36 lbs
Power consumption	60 watts

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