## VIKING 1

MONITERM

functions enable it to combine efficient

character mode operations with sophisti-

cated graphics functions within the same

programs.

# **GRAPHICS DISPLAY SYSTEM**

HI-RES



compatible with the IBM PC family, and

was specifically designed to sit directly on

the PC

### 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.

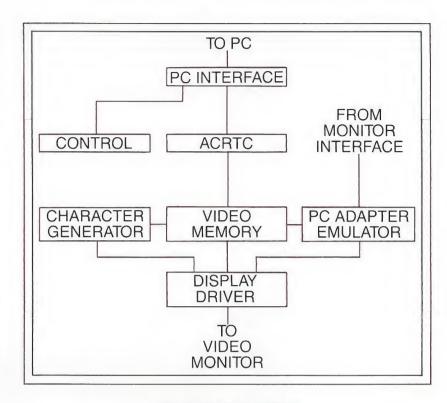
The PC interface includes DMA support and address decoding on the PC bus.

The hardware character generator "option" supports 60 lines of text with 128 characters per line, which can be intermixed with the bit mapped graphics on the screen.

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.



**BLOCK DIAGRAM** 

#### **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 CIRCLE

RECTANGLE

POLYGON

**ELLIPSE ARC** 

**DRAW LINE POLYLINE** 

**ELLIPSE** 

COPY

PAINT

### MONITOR

11" x 14" Raster Size 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" 15.0" Monitor depth Monitor weight 36 lbs Power consumption 60 watts

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