BitGraph™

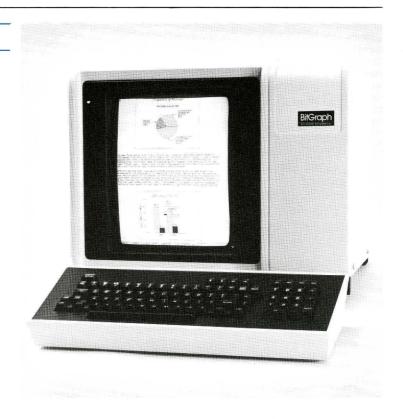## High Resolution Text and Graphics Terminal

Features

- **High Resolution 1024 × 768 Pixel Display**

- **9-in. × 12-in. Screen with Black and White Display**

- **Integral Motorola MC68000 Processor with up to 512 Kbytes of RAM**

- **User Programmable**

- **Standard Interfaces: (4) RS-232, (1) RS-422 HDLC**

- **Detachable Keyboard**

- **Compatible with DEC VT52* and VT100*, and Tektronix® 4010**

Advanced Yet Economical Design

BitGraph is a revolutionary new text and graphics terminal that combines raster-scan technology with a high-performance microprocessor. BitGraph's high resolution 1024 × 768 pixel display is ideally suited to applications where multiple, variable-size character fonts and graphical data need to be interspersed on the screen. The terminal's vertically mounted 9-in. × 12-in. screen makes it easy to view a full page of text and graphics, a particularly important feature in scientific, business, and text processing applications.

A Cost-Effective Alternative

Pixel data in BitGraph are stored as a direct map in semiconductor memory and automatically retrieved by the hardware for screen refresh. However, unlike other terminals that require additional hardware to perform special functions, BitGraph performs all other operations on the bit map data on its integral Motorola MC68000 processor. This flexible, cost-effective design makes BitGraph an ideal choice for end-user and OEM-developed software systems. The terminal comes complete in an attractive stand-alone enclosure that can be placed on a desk top or mounted on a pedestal.

*VT52 and VT100 are trademarks of Digital Equipment Corporation.
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Specifications

Display

Raster-refreshed CRT (P40 white phosphor)
40 Hz interlaced refresh
40 MHz memory-to-display bandwidth

Keyboard

VT100 compatible
Detachable serial ASCII encoded
Step-sculptured key layout
Tactile feel with hard key closure
Integral speaker for key click, bell
  and programmed sounds

Display Processor

MC68000 7 MHz microprocessor
16 Kbytes EPROM
128 or 512 Kbytes RAM
64 bytes Electrically Alterable ROM for
  terminal parameters
Programmable sound generator (General
  Instruments AY3-8912)
Expansion bus for additional I/O and memory

Standard Interfaces

One synchronous, serial, full duplex HDLC data
link, EIA RS-422 electrical interface with rates
up to 200 Kbps.

Four asynchronous, serial interfaces with
standard baud rates from 110 to 19.2 Kbps. Of
these, one is dedicated to the keyboard. One
provides RS-232 and 20 MA current loop for
external host. The others provide RS-232 inter-
connections for graphics tablet, mouse, or other
user-defined options.

Electrical

110 VAC, 50-400 Hz, 100 watts nominal

Mechanical

Monitor
Height: 38 cm (15 in.)
Width: 51 cm (20 in.)
Depth: 41 cm (16 in.)

Keyboard
Height: 8 cm (3 in.)
Width: 51 cm (20 in.)
Depth: 20 cm (8 in.)

Shipping Weight: 18 kg (40 lb)

Contact

For more information on the BitGraph
terminal, contact:

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