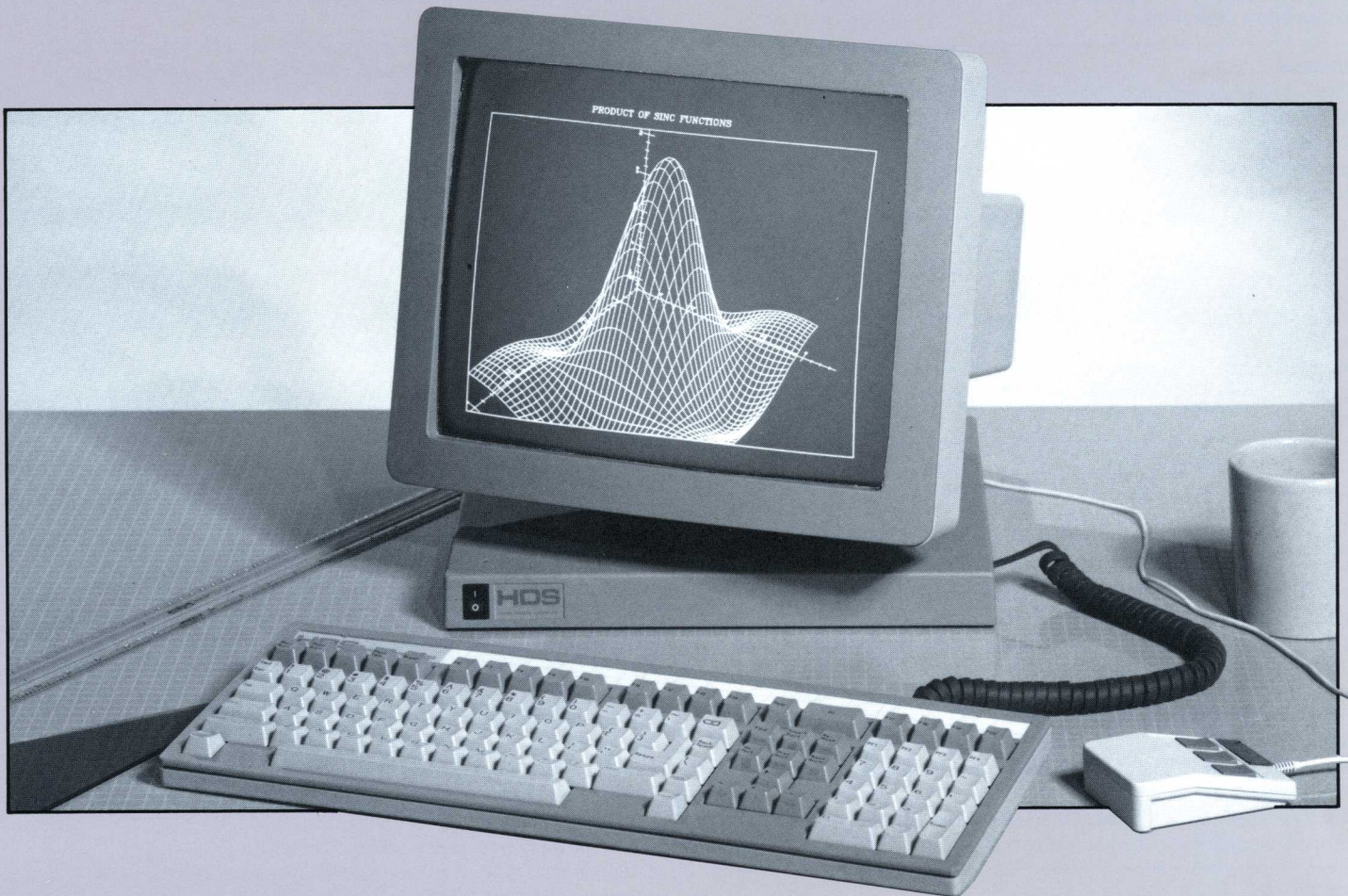# HDS2200GX
## High Resolution Graphics Terminal



The HDS2200GX alpha/graphics terminal provides 1024 × 780 pixel resolution on a large 15″ screen for high quality graphics display. Emulation of the DEC VT220, Tektronix 4010/4014, Visual 500, and Retrographics VT640/DQ640 terminals insures plug compatibility with existing systems and applications. The large 15″ monitor screen displays more than 80 square inches of viewing area to provide the detail and readability that 12″ and 14″ screens lack. Multiple pages of memory allow the terminal to store alphanumeric and graphics images locally. A mouse or digitizer can be added for easy graphics input.

With a one year warranty, extra features and performance, and the industry's best price for high-resolution graphics, the HDS2200GX is one more reason why Human Designed Systems is the largest independent supplier of graphics terminals.

# HDS
## human designed systems

# HDS2200GX
## High Resolution Graphics Terminal

## COMPATIBILITY

ANSI X3.64 (1979); DEC VT220/VT100/VT52; Tektronix 4010/4014; Visual 500; Retrographics VT640/DQ640

## DISPLAY

**CRT**—110 degree deflection, high voltage, 15" diagonal high resolution screen, amber or optional green or page white screen; 80 square inches of display area

**Format**—Screen displays 24 text lines and 1 message line, 80 or 132 columns wide; display memory is 96 lines of 80 or 132 columns; 32 K bytes of alpha-numeric memory storage

**Character Formation**—$9 \times 16$ dot cell; also automatic scaling for full compatibility with the DEC Downline Loadable Sets

**Character Sets**—ASCII, DEC Special Graphics, DEC Multinational, DEC Technical, Downline Loadable Set

**Character Attributes**—Bold, blinking, reverse video, underline alone or in combination; double wide or double high and double wide lines

**Display Controls**—Cursor selection: Block or underline, blink or solid, also no cursor; Jump or smooth scroll; External CRT brightness and contrast adjustment controls

## GRAPHICS FEATURES

**Resolution**—$1024 \times 780$ or $1024 \times 390$ pixel display, selectable in Setup Mode; also $4096 \times 4096$ addressing

**Line Types**—8 Line types, including 3 user defined types

**Fill Patterns**—12 Fill patterns

**Primitives**—Points, vectors, rectangles, filled rectangles, incremental points, arcs, circles, filled arcs and circles

**Graphics–Alpha Mode**—7 character sizes; normal or slanted display; rotation in 4 directions

**GIN Mode**—Cursor keypad, HDS mouse, or digitizer tablet (MM Series by Summagraphics, Inc.) control

**Memory**—128 K bytes of graphics memory; Two pages of memory in medium resolution mode; Alternate or simultaneous graphics/text memory display selectable from Setup Mode

**Printers**—DEC LA50/100, Epson FX80, C.Itoh, Anadex, Okidata, and HP Thinkjet graphics printers supported; normal or compressed print modes

## KEYBOARD

**General**—Detached, thin and compact; 6 ft. coiled cable with telephone type modular connectors; adjustable tilt; N-key rollover for all keys; autorepeat selectable in Setup Mode

**Layout**—107 keys; 18 key numeric keypad; 6 editing keys, 4 cursor keys in cursor keypad; labelling strip for function keys

**Function Keys**—21 keys accept user definitions, either shifted or unshifted, either RAM or NVM definitions, for 42 available assignments; programmable from Host or Setup Mode; storage capacity exceeds 1500 characters; mouse and digitizer tablet keys are programmable

**Feedback**—Keyclick is selectable and adjustable in Setup Mode; *Lock, Comp Char,* and *Hold Scrn* have in-key LED indicators; Warning Bell volume (including Visual Bell) selectable and adjustable in Setup Mode

## COMMUNICATION

**Interface**—Two bidirectional asynchronous RS-232 ports; optional 3rd port; optional 20 mA current loop

**Speeds**—Transmit and Receive independently selectable; 75 to 19200 baud

**Format**—7 or 8 data bits; odd, even, mark, space, or no parity for output; parity checking of input; 1 or 2 stop bits

## PHYSICAL

**Power**—115 VAC, 60 Hz; International 220/240 VAC, 50 Hz

**Weight**—23 lbs.; shipping wt. 34 lbs.

**Dimensions**—Monitor: 13¾" W × 13½" H × 13" D (34.9cm × 34.3cm × 33cm)
Keyboard: 18" W × 1½" H × 6½" D (45.7cm × 3.8cm × 16.5cm)

**Controls**—Front mounted power switch; external fuse; power LED on keyboard; external brightness and contrast for monitor

## SIGNIFICANT FEATURES

Full screen Setup Mode with seven full menus, easy cursor movement and option selection

Display memory (96 lines) may be configured as independent blocks, each with individual control; blocks may be one 4-page block and/or four 1-page blocks; 25th line Message is programmable with individual controls

Multiple hosts can connect to the terminal through the independently configured communications ports, and each port can write to an independent block of display memory, creating a pseudo terminal for each port

User Defined Key definitions can be saved in Non Volatile Memory

DEC Technical Character Set included in standard configuration

Full one year warranty for hardware and software

## OPTIONAL FEATURES

Third communications port is available

Green or Page White monitor screens are available

HDS Mouse or digitizer tablet (MM Series by Summagraphics, Inc.) available for GIN mode input

20 mA current loop interface is available for Port 1

Composite video output is available, 25.5 KHz horizontal scan rate, 60 Hz vertical scan rate, 20 MHz bandwidth

Terminals are upgradeable to APL models in the HDS2200 family

DN 21d4–8606–3

PHOTO CREDIT: Terminal screen courtesy of G.A. Neuman

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