Intelligent raster terminal supported by Fortran package

Fully instruction-compatible with its Graphic 7 stroke display, Sanders Associates' Graphic 8 intelligent raster graphics display system includes a terminal controller, a programmable processor, and a color or monochrome monitor, with the ability to handle up to seven additional monitors. Resolutions from $512 \times 512$ to $1024 \times 1024$ are available, with up to 256 colors or monochrome intensity levels (or 128 with blink).

With storage for up to $1024 \times 1024$ pixels (up to eight bits per pixel), the Graphic 8 display offers polygon fill, multiple character fonts and sizes, blinking of any line or symbol, and a high-speed cursor. It accepts an external video input and is RS-343A-compatible. A 3D coordinate converter is available as an option.

The system's display processor features more than 400 instructions and 32K to 256K bytes of memory; the graphic controller has 58 instructions. A graphic control program and built-in test facilities are included in firmware.

With Sanders' Fortran Support Package option, the system permits image generation by means of Fortran subroutine calls. The user can work in his own coordinate system to generate such images, notes the manufacturer, and can use the package's paging capability to subroutine, layer, and hierarchically classify image data. In addition, paging provides a means to handle real-time updating of the image.

The Graphic 8 offers RS-232C communications as well as parallel interfaces for VAX, PDP-11, Eclipse, Nova, Perkin-Elmer, H-P, SEL, Harris, and NTDS machines.

Reader Service Number 54

Ink-jet printer produces 100-dot/inch color hard copy

Deriving its color graphic capability from a three-color ink-jet printhead, the PrintaColor IS8001 printer includes an onboard 8080 microcomputer system—with 6K ROM and a 16K RAM data buffer—to unburden the host.

The printhead consists of 12 ink nozzles, with four nozzles for each primary color. By overlaying the three primaries (yellow, cyan, magenta), the head can produce four additional colors—green, brown, blue, and black. The ink is instant drying, with each refill lasting the equivalent of five million characters.

With a printing speed of 70 cps bidirectional, the terminal features 80 6 x 8-dot characters per line on fanfold paper up to 15.7 inches wide. Line spacing is 66 lines per 11-inch page and resolution is 100 dots per inch, horizontal and vertical.

Designed to be fully compatible with ISC8001 color raster terminals, the unit is not a normal line printer but rather a CRT page printer. It will print a full page only when its buffer is full—i.e., 80 characters x 48 lines in ISC8001 format.

The PrintaColor IS8001 is priced at $6000.

Reader Service Number 55

The Elographics E270 transparent touch sensor mounts on the face of most CRT terminals, allowing selection of data by touch. Only 1/8-inch thick, it comes with a single-board controller that plugs directly into a computer system or CRT terminal. The E270 is priced at $1500, with quantity discounts available.

Reader Service Number 53