

# LEXIDATA

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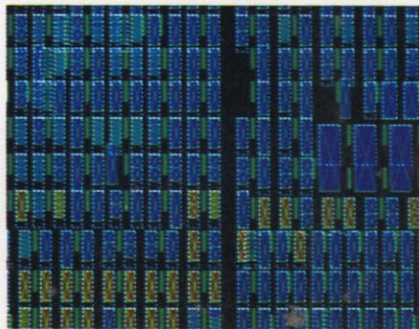
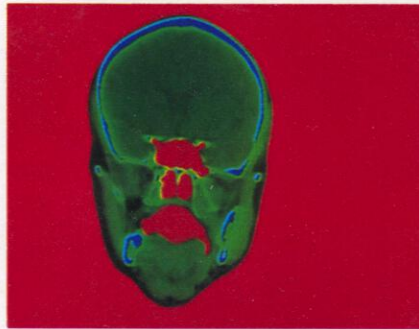
Lexidata offers a broad line of high-speed, high-resolution, raster graphics and imaging display processors, systems, and peripherals. Whether you are interested in a low cost, high quality display processor or in a powerful, high level graphics system with exceptionally high quality video, we build raster display systems to meet your demands. *Dollar-for-dollar*, Lexidata will deliver the best equipment for your requirements.

### Lexidata System 3400

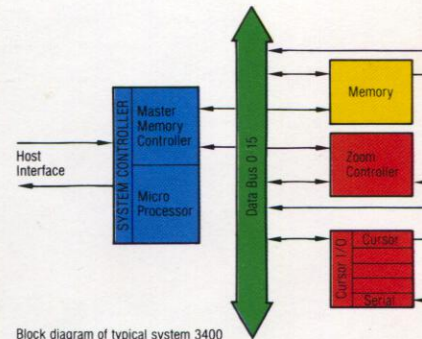
Based on our unique System 3400 Display Processor, this highly modular design renders great versatility to a wide range of graphics and imaging applications that require high-speed, high-resolution, color or black-and-white displays. We offer over *three dozen* hardware and software options to make it both easy and economical for you to tailor a system to your exact requirements.

The System 3400's separate programmable high-speed memory controller and microprocessor provide 2  $\mu$ sec random updating and 60Hz memory refresh (non-interlaced). Eleven picture memories range from 256 x 256 pixels to an industry first 1280 x 1024 pixels, which displays flicker-free images at much higher resolutions than other processors. And best of all, you can choose from a scale of 4,096 black-to-white tones to display 256 at once, or from a palette of 16.7 million colors to display 4,096 *simultaneously!*

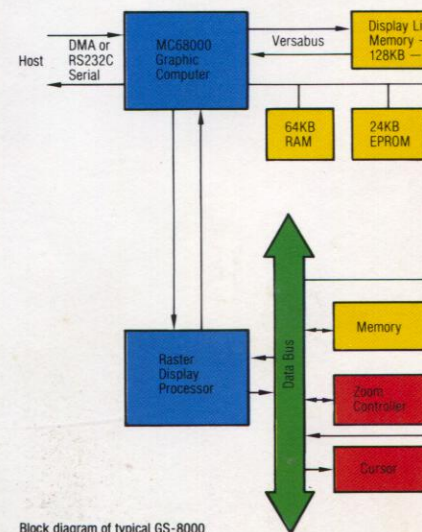
The System 3400 has high-speed lookup tables, a pan/zoom controller, and a blink controller, flexible overlay



capabilities and other special features. With *eight* monitor options, alphanumeric keyboard, trackball or joystick, data tablet, black-and-white or color hard copiers... the 3400 is suitable for almost any application where ultra high-speed graphics must be displayed accurately and brightly.



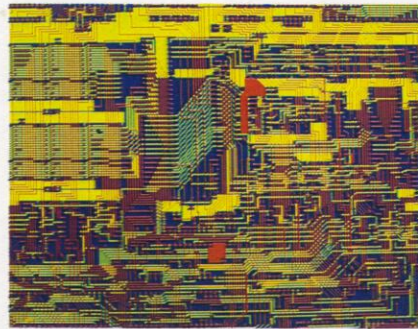
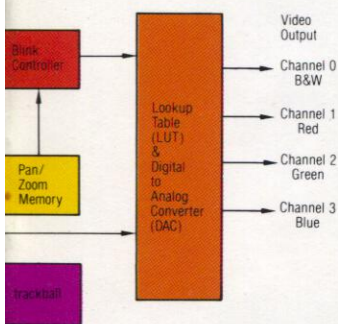
Block diagram of typical system 3400



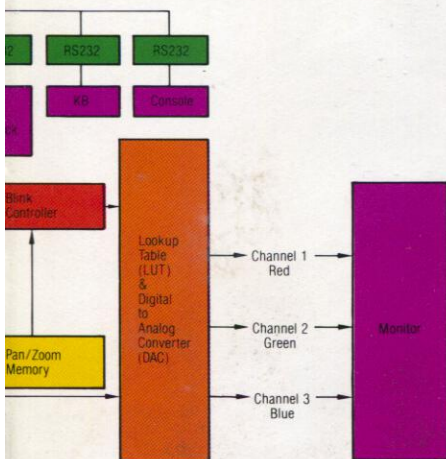
Block diagram of typical GS-8000

### Lexidata Graphic System 8000™

This new leader in highly intelligent graphic display systems features a dual-processor architecture combining the performance of Lexidata's 112 nsec raster display processor with the powerful Motorola 16/32-bit 68000 microcomputer. We designed the even more versatile GS8000 for the developer of sophisticated in-house graphic systems. The Graphic System 8000 maximizes your display capability, but minimizes your software development effort. It improves host computer software efficiency by offloading high-precision graphics processing to the GS8000 terminal. Its rich function set, modeled after an extended version of the CORE standard, manages and manipulates a large, high-precision graphics database. The system utilizes a 31-bit



Actual photos from monitor.



"world coordinate" system, providing a virtual resolution of two billion points per axis. It executes the full range of operations required in an interactive graphics environment, including the challenges of PCB and VLSI computer-aided design, command and control, and computer-aided drafting.

A GS8000 system includes the graphic and the display processors, cursor, frame-buffer memory, video output, and a monitor. It supports the same peripherals as the System 3400, in addition to a large 40" by 60" tablet digitizer.

models with short or long persistence phosphors. We offer monitors with switchable line rates, and with exceptionally high quality video... all-purpose monitors for factory, office and rack mount use... a monitor so compact that you can use it as a stand-alone or build it into your system. One of our monitors displays a four-fold increase in the number of phosphor dots over conventional CRT's. All of our monitors meet criteria of high reliability, easy maintenance, and low power consumption.

### Peripherals

The Lexidata trackball, joystick, data tablet, and keyboard are high quality locator and design peripherals built specifically for use with the System 3400 and GS8000 display processors. You'll find them useful in many different applications where you may program them to interactively control design, panning, zooming, or dragging.

### System 3400 Monitor Options

We offer a range of eight monitors to provide superior picture quality while suiting your needs *at the right price*. You can choose from black-and-white and color monitors; models from 13" medium bandwidth to 19" ultra-high bandwidth; and

**RASTER DISPLAYS...**  
**FOR THOSE WHO DEMAND PERFORMANCE.**

**Interfacing**

To meet the steady trend toward distributed processing, and the need to interface with a growing array of host computers, Lexidata graphics display processing systems interface with IBM (Series I), Data General, Digital Equipment, Perkin-Elmer, Hewlett-Packard, and Prime mini-computers. Lexidata offers software packages, including host drivers, FORTRAN libraries, and cross-assemblers to assist in program development.

**Our Track Record**

Our line of raster graphics equipment and systems has grown step-by-step to meet the steadily increasing demands of science and industry. We have installed hundreds of systems for use in CAD/CAM, flight simulation/training, aerial/satellite imaging, medical imaging, astronomy, process control systems, non-invasive testing, and graphic arts. You can bank on our track record.

**For Detailed Information**

We are more than happy to take direct calls, or for your convenience in organizing your request, we have attached a business reply card. Call us at (617) 663-8550, TWX 710-347-1574. Or write to Lexidata Corporation, 755 Middlesex Turnpike, Billerica, Massachusetts 01865.

 **LEXIDATA  
CORPORATION**