WIZARD

Whizzard high-performance computer graphics systems

371400

The Megatek Whizzards...tools for the visionary.

The Megatek graphics systems take you into an exciting new world of sophisticated refresh displays. A world of multi-colored graphics. Powerful real-time dynamics. Unmatched vector quality. And unprecedented system flexibility.
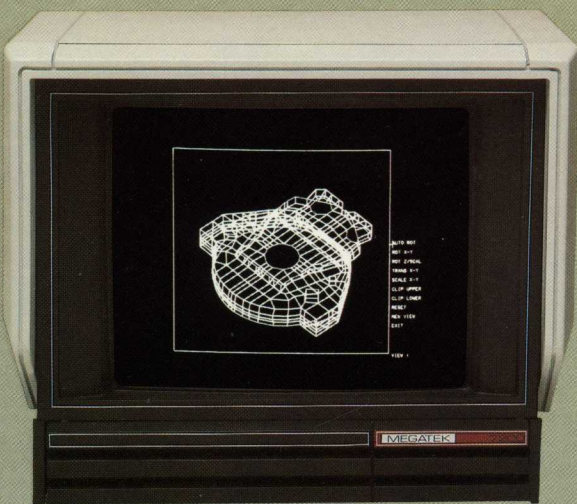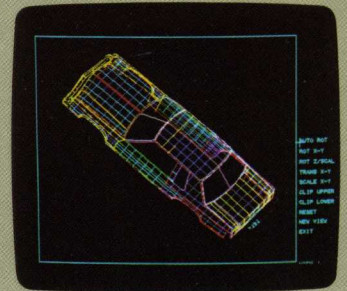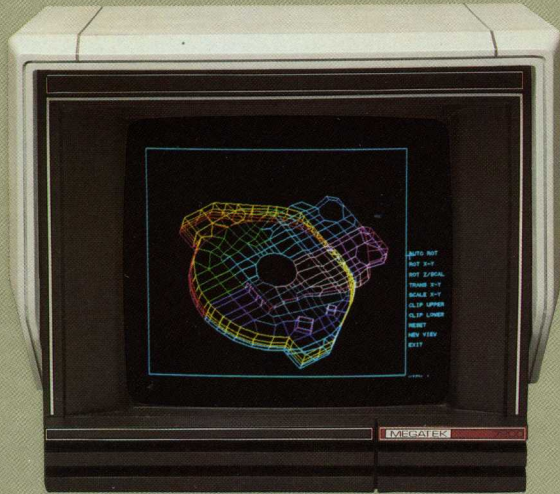
The new Whizzard 7200 family: Powerful, colorful, compatible.

Now for the first time, you can get the refresh technology that matches your application ...all from one source. Choose high-performance color raster or high-resolution calligraphic. With serial or parallel interfaces. Or change from one Whizzard to another by simply plugging in a module.

These powerful displays let you change a complete picture without having to erase the screen before each change. Or accent the picture with dashed or textured lines. Make them blink or vary in intensity. Work in 2-D, 3-D, or both simultaneously. In color or monochromatic displays.

Vector dynamics from a new color raster Whizzard.

Our new 7200 series raster Whizzard displays the most complex pictures imaginable. In up to 16 colors simultaneously (choose from over 4000). It delivers faster-than-animation frame updates that rival the powerful refresh vector output Megatek is known for. It's the real-time dynamics you need for today's challenging design problems.

In addition, Megatek also gives you a large 4096 x 4096 virtual display space with which to work. And you can zoom in to a 512 x 512 section until it fills the screen. This is a real zoom (not pixel replication) that delivers far greater detail as the image is scaled.

There's also a continuous real-time pan. It lets you
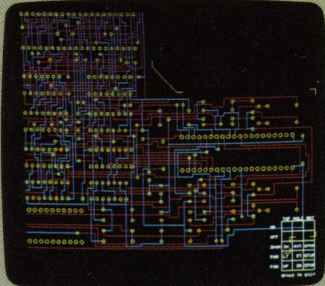
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move a variable size viewport throughout the virtual display space. These features can save you hours in circuit design, mapping and command control. And imagine what 3-D will do for your mechanical design jobs!

More power from a new calligraphic Whizzard.

If resolution is more critical than color, our new 7200 series calligraphic Whizzard is what you need. Its vector generator with Adaptive Timing™ and other proprietary circuitry provides the finest picture quality available. You get constant vector intensity. Near-perfect vector end-point matching and of course, like all 7200 series Whizzards, this one gives you all the powerful dynamics that shave hours off your toughest applications. Textured lines, blinking, 3-D transformations…you get it all with the calligraphic Whizzard.

System flexibility through resource sharing.

Both calligraphic and raster Whizzards share a powerful new Graphics Engine™ It includes a host computer interface, 32-bit graphics processor and 64KB of vector memory. The Graphics Engine gives users tremendous flexibility without spending money for
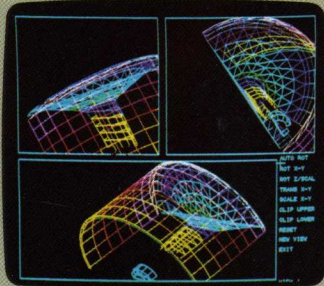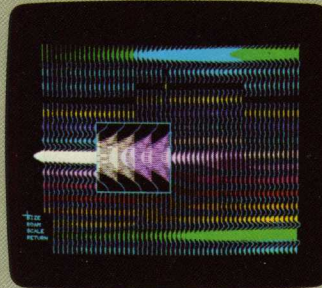
duplicate front-end hardware. It makes changing from calligraphic to full color display as easy as plugging in a logic board. One Graphics Engine can support up to four calligraphic or four raster workstations. Or two of each. Only Megatek lets you switch from raster to vector applications so quickly. And so economically.

Adding a hardware clip, rotate, scale and translate (HCRST) module is plug-in simple and gives you 2-D or 3-D transformations. Plug in a function switches and dials module, and you're ready for sophisticated two-way computer interfacing. Plug in our intelligent EIA RS-232C interface module, and your Whizzard becomes a distributed graphics processor. Teamed with our advanced firmware, it lets you access the host via direct cable or telephone line. Powerful local memory management and segmentation is standard.

All new Whizzards use the same WAND™

They run on one easy-to-use software package called WAND 7200. We designed it using SIGGRAPH CORE concepts and wrote it in ANSI-standard FORTRAN. WAND lets you easily switch from color raster displays to high resolution calligraphic. Or from parallel to RS-232 systems. If you're an OEM or systems designer, this flexibility can save you lots of time. And saving time means lower job costs.

System independence through dual-bus architecture.

Megatek's unique tri-state dual-bus architecture delivers more computer graphics power using less host computing power. A high-speed 32-bit bus handles display and refresh
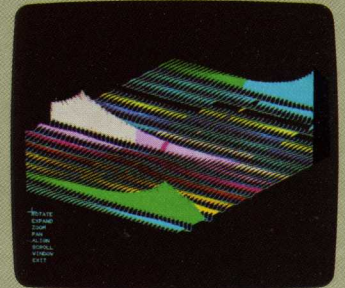

processing, while a separate 16-bit bus takes care of the Whizzard's intelligent graphics peripherals. This leaves high-speed display processing unburdened by peripheral interaction.

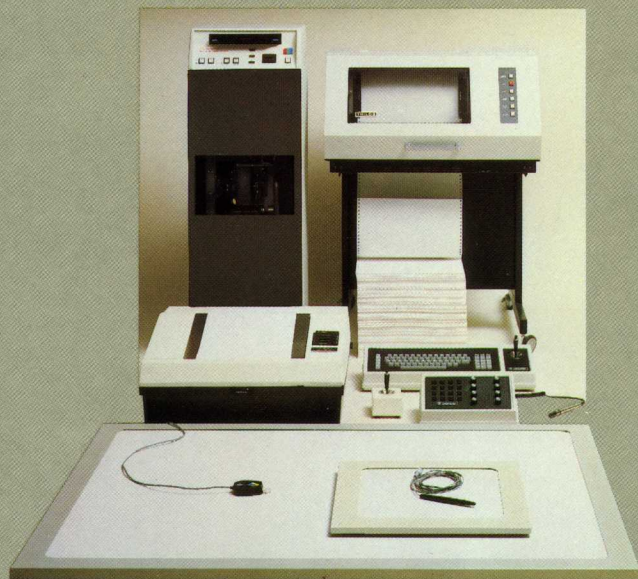## New firmware enhancements boost overall system efficiency.

All of the new Whizzards have been firmware enhanced with new graphics microcode, segment header formats,

command structures and smart interrupts. These provide more efficient memory usage and streamline data transfers. The result is a graphics display system that is far less dependent on your host computer. So you get faster updates and better human response.

Smart peripherals.

Megatek's intelligent, microprocessor-controlled peripherals include keyboard, joystick, data tablet, digitizer, function switches/dials and pick comparator. A Rasterizor™ allows fast, hardcopy output from printer/plotters without host intervention or ordered display lists. Intelligent peripherals are particularly useful in distributed processing environments because less computer power is needed at remote locations.

Whizzard 5000:
high-level performance, entry level price.

Low cost graphics for Data General users.

You can transform your Nova/Eclipse computer into a powerful vector graphics system for the price of storage tube graphics. The Whizzard's dual-board graphics processor plugs right into your computer's chassis. Connect an X-Y monitor, add our proprietary MGS graphics software, and you've got a Whizzard 5000. Now you're ready to handle all those complex design jobs without spending a lot of money or settling for an underpowered system.

Powerful stand-alone graphics with a general purpose minicomputer.

Get the Whizzard 5000 as a stand-alone graphics system, and you get a complete minicomputer in the bargain! Hardware translate is standard. Dual workstations with a variety of peripherals are easily added. Fast hardcopy is just a module away. And software compatibility with DOS, RDOS or AOS is part of the Whizzard package.

Tektronix* compatibility.

If you're presently using Tektronix storage tube displays, you can easily and economically upgrade your system to full vector refresh power. Our Emutek™ software module transforms the Whizzard 5000 into the 5014 refresh terminal ...easily, economically. (Your Tektronix software is 100% compatible with the 5014, so your computer won't even notice the switch.) Add local dynamics to your static storage tube application with EDS™.. Enhanced Dynamic Software.
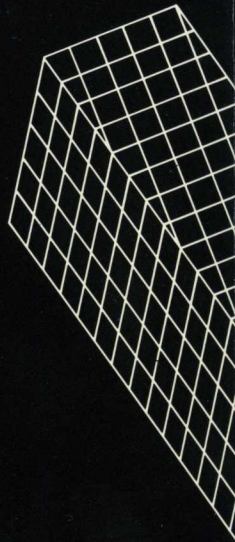
Megatek: The company where Whizzards are made.

Megatek Corporation. A leader in computer graphics. Breaking new ground. Listening to your needs. And building powerful graphics tools to meet them. Tools designed to grow as you do. Easily. Economically.

Megatek teams its Whizzards with a long list of peripherals, optional modules and field proven software, including Template,™ Megatek's new computer and device independent software. And backs them up with a worldwide support network.

Megatek. Where graphics wonders are performed. And Whizzards are made.

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