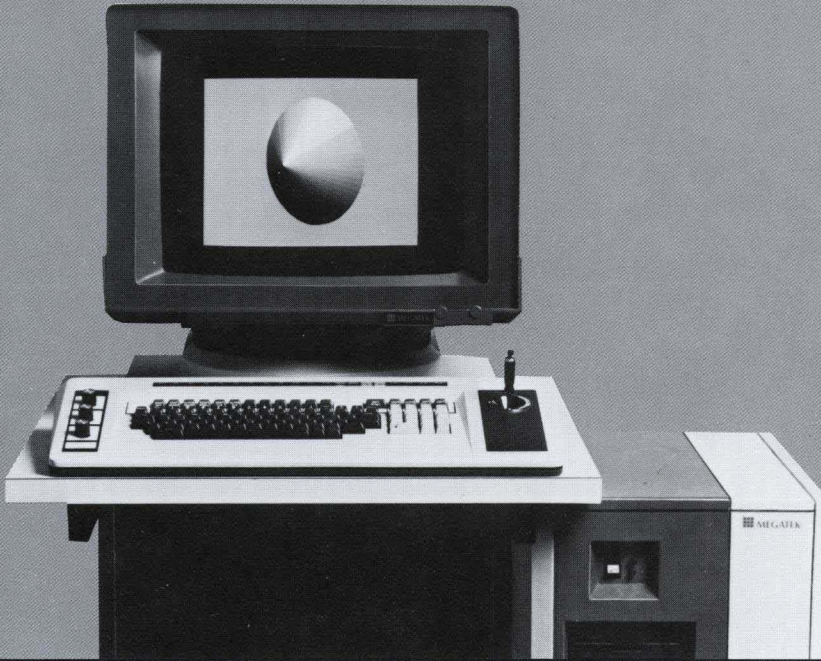


# MERLIN™

9200 SERIES



The Merlin 9200 is an advanced graphics rendering system specifically designed to meet the most sophisticated needs of the high-performance display user. It provides a unique array of graphics capabilities combined with reliability and an intelligent approach to graphics database management and networking.

The Merlin 9200 lets the user interactively create complex screen images on the CRT using functions which include translucent and opaque solids; X, Y, and Z axis clipping of objects; flat, Gouraud and Phong shading; depth cueing; perspective; surface textures, patterns and meshes. Megatek's proprietary Pixel Phaser™ technology also allows an ultra-sharp 3072 × 2304 addressable wireframe picture to be displayed. For solids rendering, the addressable picture is 3072 × 576.

Merlin is an intelligent display device with support for local database editing, logical handling of peripheral devices, local task processing, a VT™ 100 display manager, a print manager and set-up and configuration manager. Also standard are display capabilities which allow users to pick and identify an object on the screen, highlight, and edit based on user-specified action.

The Merlin 9200 generates four simple graphics draw primitives: points, lines, polygons and meshes. Users can combine these four primitives into their

customized primitive set. Standard Merlin transforms include 3D modeling, homogeneous transformations with or without perspective; 2D and 3D viewing transforms; lighting transforms; 3D clipping; and choice of orthographic or perspective transforms. Transforms can be applied at any point within a database hierarchy.

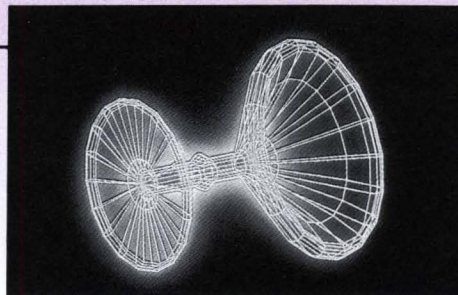
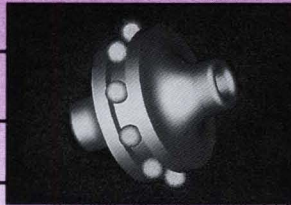
Merlin's graphics database has been designed to be both compact and flexible. Users may freely mix hierarchical and array data structures, for example. In addition, the topology of an object (for example, a pyramid) can be separated in the database from the specific geometrical information (the pyramid is 4" high and 2" wide). This feature allows pictures to be composed and edited quickly and efficiently.

*Merlin*

**MEGATEK**  
CORPORATION  
A UNITED TELECOM COMPANY

# MERLIN™

## 9200 SERIES



### Features Include:

- 18-slot chassis
- 19" monitor with pixel phasing
- Local editor
- Local task processor
- Local configuration service
- Printer servicer
- Dual buffered frame buffers
- Graphics database memory (optional, at least 1 megabyte required, expandable to 12 mbytes)
- 512K bytes local task program memory
- Choice of 64 or 4096 colors from a palette of 16.7 million

### Power Input Requirements:

- Frequency: 48 to 62Hz
- Power consumption: 1250 watts maximum
- Input power: 120VAC +10%/-20% (96VAC to 132VAC) covers 100 and 120 standard input voltages—240VAC +10%/-20% (192VAC to 264VAC) covers 200 and 240 standard input voltages
- Merlin 9200s include local input power conditioning in the form of an EMI filter and varistor for transient suppression

### For further information:

In CA, 800/824-4489 In USA, 800/854-1975

#### World Headquarters

9645 Scranton Road  
San Diego, CA 92121  
619/455-5590  
TWX: 910-337-1270

#### Western Regional Sales Office

Los Angeles, CA  
213/215-3333

#### Eastern Regional Sales Office

Falls Church, VA  
703/821-0445

#### Central Regional Sales Office

Dallas, TX  
214/437-3800

### Peripheral Options

- 11" x 11" graphics tablet
- Full function keyboard with integrated joystick and valuator dials
- Color hardcopy

### Physical Specifications

Desktop Monitors  
with Tilt/Swivel Base:

Height: 21 in. (54 cm)  
Width: 21 in. (54 cm)  
Depth: 23 in. (59 cm)  
Weight: 110 lbs.

Rackmount Chassis:

Height: 12 in. (31 cm)  
Width: 19 in. (48 cm)  
Depth: 29 in. (74 cm)  
Weight: 100 lbs.

Deskside Chassis:

Height: 29½ in. (75 cm)  
Width: 14½ in. (37 cm)  
Depth: 23 in. (59 cm)  
Weight: 115 lbs.

Full Function Keyboard:

Height: 5½ in. (13 cm)  
Width: 25½ in. (65 cm)  
Depth: 12 in. (30 cm)  
Weight: 11 lbs.

#### United Kingdom

Megatek Limited  
110 Commercial Road  
Swindon SN. 1 5RD  
Tel: 0793/695703  
Telex: 21788 UISG

#### International Headquarters

Megatek, SA  
50, Avenue Des Boveresses  
CH-1010 Lausanne, Switzerland  
Tel: 41/21/335016  
Telex: 25037 mega ch