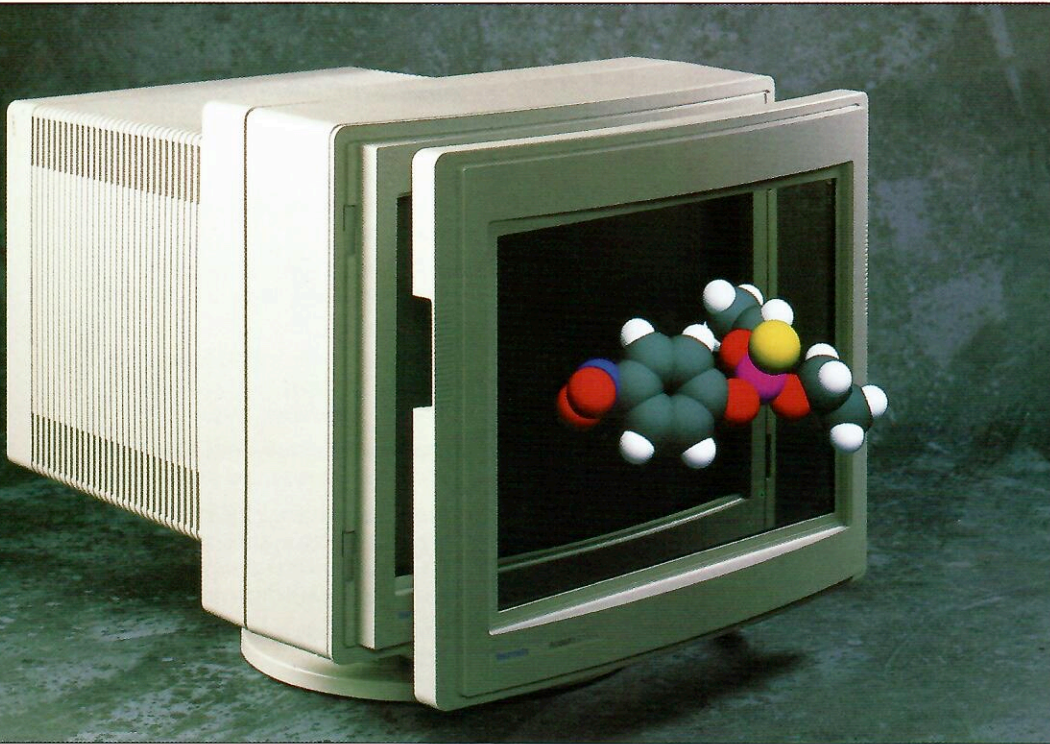


SGS 625 19-inch Multi-mode Stereoscopic-3D Color Display



Chemical image shown on the SGS 625

The Tektronix SGS 625 Stereoscopic 3D color display is designed for easy adaptability to most common workstations and imaging card sets. It features a 19-inch screen size, easily detachable liquid crystal stereoscopic modulator, and a high resolution Trinitron™ monitor. The monitor can be used with an IBM PC/AT™ based Tektronix stereoscopic graphics adapter card (SGS 100), or with any other graphics systems that provide RGB signals at either 60 Hz frame rate (1280 pixels by 1024 lines), or 120 Hz field rate (1280 pixels by 512 lines). The large area screen-sized liquid crystal modulator provides different polarization for the left and right eye images. Special polarizing glasses worn by the user will decode the circularly-polarized images to provide the left and right eye views.

The display is designed to be used in both 2D and 3D stereoscopic modes. This design makes the system readily adaptable to many applications. The monitor automatically adjusts for the input vertical rate (60 Hz or 120 Hz). The SGS 625 meets FCC (Class B) and VDE (Class A) EMI limits and is certified for safety by UL, CSA, and TUV.

Applications. The excellent image and ease of use of the stereoscopic display makes it suitable for many applications, including:

- Mechanical CAD
- Cartography/photogrammetry
- Molecular modeling
- Non-destructive testing
- Medical Imaging
- Remote Vision/Robotics

Compatible with most workstations and imaging card sets

Automatic vertical input rate sensing for 60 Hz / 120 Hz operation

19-inch diagonal stereoscopic/monoscopic RGB color display

Easily removable liquid crystal modulator

1280 pixels x 1024 lines (60 Hz), 512 Lines (120 Hz)

Excellent image quality

Passive stereo viewing glasses and clip-ons

2D or 3D stereoscopic viewing

Workstation Compatibility. The SGS 625 enables users with a 3D database to add a stereoscopic 3D display to their system. This display is compatible with workstations and imaging card sets that support 1280 x 1024 displays, including but not limited to the following:

IBM 5080, RISC 6000
Jupiter Systems
Pixar II Image Computer
Silicon Graphics IRIS 4D GT/GTX
SUN w/TAAC-1 Graphics Accel
SUN w/CG5 frame buffer

Boards-
DATACUBE TECH SOURCE
MATROX Nth GRAPHICS
PARALLAX METHEUS
VITEC UNIVISION
INTERNATIONAL TELEPRESENCE

SGS 625 Standard Performance Characteristics

Display

CRT – 19-inch diagonal, 0.31 mm pitch aperture grill

Liquid Crystal Modulator – Mounted in removable bezel with automatic electrical contact when attached

Display Area – 10.8 x 13.5 in.

Display Resolution – 1280 pixels x 512 lines at 120 Hz field rate; 1280 pixels x 1024 lines at 60 Hz frame rate

Electrical

Video Input (RS-343-A compatible) –

Red/Blue video signal input –
video level: +0.714 V p-p positive,
100 MHz bandwidth

Green video signal input –
+1.0 V p-p composite sync on green
Video level: +0.714 V p-p
Sync level: -0.286 V p-p

External TTL Sync Input – Separate horizontal + vertical, or composite sync

Modulator Frame Sync Input – TTL: Falling edge of sync starts left-eye/right-eye sequence of video with modulator switching

Operating Modes –

1. Internal Vertical Sync – for 60 Hz (1280 x 1024) controllers
2. Normal – 120 Hz frame sequential video output including modulator frame sync signal
3. Internal Frame Sync – For video controllers with no modulator sync capability

Horizontal Scan Rate – 63 KHz

Vertical Scan Rate – Automatically switchable to either 120 Hz or 60 Hz field rate

Power Requirements

Range – 90 to 132 VAC at 2.6A, 48 to 63 Hz

Environmental

Operating Temperature – 10 to +40°C

Storage Temperature – -40 to +65°C

Certifications

Safety –

UL 478, 5th Edition
CSA: C22.2, No. 220-M1986
TUV: DIN IEC 380/VDE 0806/08.81 ZH1/
618/10.80

Emissions – FCC Class B, VDE Class A

Advantages

The SGS 625 system has many advantages over other stereoscopic display technologies:

- Fully compatible with a wide variety of workstations, image computers, and video controllers.
- Compatible with 60 Hz video input for high resolution 2D display, or 120 Hz input for flicker-free stereoscopic image.
- Automatically switchable from 2D to 3D as determined by vertical input discriminator.
- Passive stereo viewing glasses need no connection to display, providing users with complete freedom of movement to view, multiple, unsynchronized displays.
- Wide viewing angle accommodates multiple viewers.
- Circular polarization for improved extinction over the visible spectrum.
- High light transmission of the Liquid Crystal Modulator makes viewing in high ambient light possible.

Ordering Information

SGS 625
19-inch Multi-Mode
Stereoscopic 3D
Color Display

Options

- Storage rack** for modulator and polarizing glasses
- Additional polarizing glasses**

For further information, contact:

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