



## Terak Video Graphics System

The Video Graphics System enables the Terak 8600 Color Display to interact with any external, standard (NTSC or RS-170) video source such as a camera, video disc, sync generator or video tape machine.

### Major Functions:

- Decodes externally applied standard format 525 line 2:1 interlaced 60 Hz NTSC color or RS-170 monochrome video into RGB video format
- Synchronizes the 8600 video raster timing to a standard format video or sync source (Gen-lock)
- Provides computer controlled video switching and overlaying of external and 8600 computer-generated video
  - Displays video only
  - Displays graphics only
  - Combines video and graphics by switching the video with the graphics on a pixel by pixel basis
  - Blanking mode blackens the entire display under program direction
- Generates a standard format RGB output of the switched RGB output video to be encoded into composite NTSC format through the use of standard NTSC encoding equipment
- Provides a standard interface to drive NTSC color encoders. This allows the switched RGB output video to be encoded into composite NTSC format through the use of standard NTSC encoding equipment

### Capabilities:

- Overlay of high fidelity graphics (640 x 480 resolution); up to 64 simultaneous colors
- Interaction between user, the computer and the external video source
- Quick and easy presentation of video images while simultaneously providing computer-generated highlighting, annotation, and animation
- Computer access and control of stored visual images from the video disc whose presentation sequence may be controlled and altered by the user
- Capability to select and combine two audio channels which are program controlled. The audio is available through either the system speaker or an auxiliary head phone connector located on the 8601 monitor

### Applications:

- Training and simulation in the fields of medicine, dentistry, science, aviation, mathematics, etc.
- Research/Marketing
- Graphics Design
- Television/Commercials/Cartoons



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