## **RGB Spectrum Videographic Products Provide Key Links in TROJAN SPIRIT II**



The TROJAN SPIRIT mobile satellite communications system.

RGB Spectrum's RGB/View® 600 and RGB/Videolink® 1600U are key components in the TROJAN SPIRIT (Special Purpose Integrated Remote Intelligence Terminal) system developed for the U.S. Army by Electrospace Systems, Inc., now a part of Raytheon E-Systems. The TRO-JAN SPIRIT is a rugged, secure, mobile satellite communications system that uses commercial satellite bandwidth to deliver large volumes of intelligence to U.S. ground forces. The original TROJAN SPIRIT was developed in just 52 days in response to an urgent need for better communications in Saudi Arabia during the 1991 Gulf War. Today, the Army and Marine Corps have TROJAN SPIRIT II systems operating all over the world.

The TROJAN SPIRIT II system can be fully operational just fifteen minutes after its arrival and roll-off from a cargo plane or helicopter. It consists of a Humvee Shelter subsystem which can collect live information from the battlefield, a Mobile Antenna Platform, and a Spare Equipment and Maintenance vehicle. With the system operational, field



**RGB/View 600 display** 

commanders can send and receive live video images of a target area, exchange phone calls and faxes with other commanders and operators, and maintain an accurate idea of the location of the enemy, battlefield conditions, and whatever intelligence is available to any allied force.

In a typical use of the system, the Humvee equipped with video cameras surveys the battlefield and transmits images back to a local command post for review and evaluation. The video signals are displayed on a high resolution computer monitor using an RGB/View 600 multi-video windowing system. The video is seen in windows on a monitor, which can also simultaneously show computer generated data concerning the battlefield situation. Then, using the RGB/Videolink 1600U, the entire computer screen is converted to NTSC video format and transmitted to other locations. There it can be displayed (again using an RGB/View 600) as a window on the workstation screen at the receiving location.

The RGB/View 600 is a video windowing board for 6UVMEbus systems that displays up to 6 real-time video windows on a workstation screen. The video windows can be positioned, scaled, and overlaid with computer graphics. Input may be NTSC (or PAL) composite video, Y/C (S-Video), or various other high line rate video signals from FLIR, medical imagers, or other computers. The system is also available as an external standalone peripheral which is compatible with any workstation or computer.

The RGB/Videolink is a scan converter which can transform computer graphics to broadcast video format in real time. The system automatically synchronizes to all computer signals with screen resolutions up to 1600 x 1280 pixels. Output options include all video formats: NTSC, PAL, S-Video, CAV (Betacam/MII), and CCIR601. The RGB/Videolink features state-of-the-art flicker elimination, zoom, and the ability to overlay video with computer-generated graphics. Several models are available.

RGB Spectrum is a leading designer and manufacturer of videographic and multimedia products for workstations and personal computers. The company is a preferred supplier to prime contractors, OEMs and systems integrators worldwide. RGB Spectrum is based in Alameda, California, and can be reached on the World Wide Web at http://www.rgb.com.

\* \* \*