SPIE

This year's SPIE AeroSense Conference and Exhibition at the Marriott World Center in Orlando, Florida will be held during the week of April 15th. SBIR will be presenting technical papers during the Hardware-in-the-Loop (HIL) sessions, and will again have a display at booth #901 located at the front of the Exhibition Hall.

As a highlight to a representative display of our extensive line of standard products, we will be showcasing our new Integrating Sphere/Visible Source and the new upgrade of our widely used Automated Test Software, IRWindows 2001. Alan IRWin will be presenting Advances in Automated Multi-Spectral Testing, Utilizing IRWindows 2001, as part of a Product Demonstration on Wednesday, April 18 at 12:30 on the floor of the main exhibit hall.

For those interested in multi-spectral test systems, we will have on display, the EO Variant of the Third Echelon Test Set (TETS) that we build for Lockheed Martin/ Mantech/U.S. Marine Corps. The TETS system supports testing of FLIRs, Visible Sensors, Laser Range Finders, and Direct View Optics on the front line of the battlefield.

We are expecting our MIRAGE Dynamic Scene Projector system display to again generate significant interest. MIRAGE demonstrations will include:

- Operation using DD02 input from a low cost Record/Playback system
- Independent operation using standard video camera input (NTSC)
- Independent operation using standard VCR and videotape input (NTSC)

SBIR's technical sales staff will be on hand to discuss your test system needs. Come on by and say "hi" to the gang!

Mirage Update

SBIR has been working for the last year to enhance yield and operability of the MIRAGE arrays. 100% testing has been integrated at several steps of the Read-In Integrated Chip (RIIC) and emitter fabrication. RIICs must have 99.98% unit cell operability. Mated emitters are again 100% tested before completion. This work has yielded many new arrays at 99.9% operability. SBIR has been working on new pixel designs to support higher emitter temperatures (apparent temperatures in excess of 700K in the MWIR). These high temperature arrays will be complete in April of 2001.

SBIR has started the system design of the 1024x1024 MIRAGE. SBIR and Indigo will start the RIIC design this spring with completion of the 1024x1024 RIIC scheduled for fall of 2002. The 1024x1024 design will be scaleable and expandable to the 1024x2048 format. SBIR is excited about continuing to advance the state of the art in IR scene projection.

Santa Barbara Infrared, Inc.
312 N. Nopal Street
Santa Barbara, CA 93103

Phone: (805) 965-3669
Fax: (805) 963-3858
sales@sbir.com
www.sbir.com

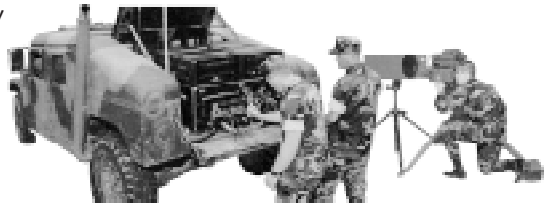
SBIR
SANTA BARBARA INFRARED, INC.
a HEICO company
Santa Barbara Infrared, Inc.
312 N. Nopal Street
Santa Barbara, CA 93103

PRSRT STD
US POST PAID
Santa Barbara, CA
PERMIT #792

TETS EO Variant Update / Field User Test

The EO Variant is a modular, lightweight, battlefield ready system, designed and manufactured by SBIR for Lockheed Martin/Mantech/Marine Corps. It is used to diagnose and verify the correct operation of the following line replaceable units: FLIR systems, Laser Range Finders/ Designators, Direct View Optics, Modulated Source Trackers, and Video Contrast Trackers.

Marine Corps personnel were very excited about the new possibilities available with the Electro-Optical Variant for TETS during the first Field User Test (FUT) early this February at Camp Pendleton. All attendees expressed interest in the wide range of capabilities that the TETS System (Reflective Athermal Collimator, IR/Visible/Laser Modules, and IRWindows Software) offers for evaluating Marine Corps sensors. The ability to expand and modify the system to adapt to future sensors was enthusiastically received. By the end of the Field User Test, Marine Corps personnel had successfully evaluated a TOW Night Sight, an AN/PAS-13 Rifle sight, and an AN/PAS-18 Stinger Missile sight. Not only was the Field User Test a great success, it commenced and finished on schedule as well.



IRWorld by Alan IRWin