

SBIR

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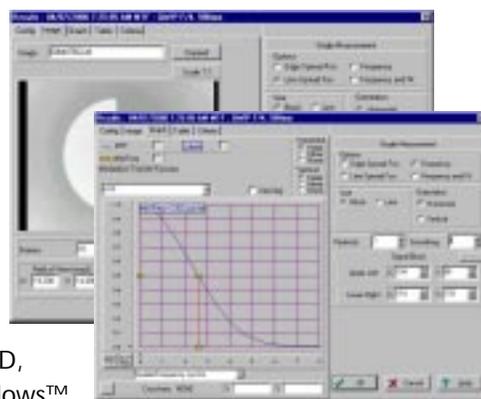
On the lighter side

It's beginning to look a lot like . . .
Over the years, SBIR has gained a reputation for it's unique versions of the traditional holiday greeting card. SBIR is extremely proud of its homemade cards, and this year's will not disappoint. The 'original' design concept has been approved and the details are nearly finalized. Until your Collectors Edition SBIR Holiday Card arrives, we hope you find this issue of our newsletter interesting and informative.

IRWindows™ 2001

The software gurus at SBIR have been working on an extensive upgrade to the IRWindows™ automated IR test system.

IRWindows™ is a powerful tool for the generation and execution of automated FLIR tests. Using an intuitive graphical interface, a test engineer can quickly configure the necessary parameters for standard FLIR system tests. Using industry standard formulas and algorithms, the raw data is analyzed and reduced.



IRWindows™ MTF Measurement

Previous versions of IRWindows™ have had the ability to test figures of merit including SiTF, MTF, NETD, NPSD, MRTD, AutoMRTD, and uniformity. The IRWindows™ 2001 version will have a variety of new features that make the system even more flexible, allowing the user more control of how the data is collected, analyzed and displayed.

3-D Noise is a new test that is being added to the system that provides a measure of both spatial and temporal noise characteristics of the IR sensor being tested.

Continuous Update Modulation Transfer Function is a new feature being included with the standard MTF test. The standard MTF test provides a measure of focus. The continuous update MTF allows the user to dynamically adjust and optimize the system performance while getting active feedback from the IRWindows™ system.

As seen in the images above, the user sets up the test parameters such as the target, temperature and area of interest to be measured, then by observing the graphical display of the results, can easily optimize the system performance.

IRWindows™ 2001 will be available in January of 2001.

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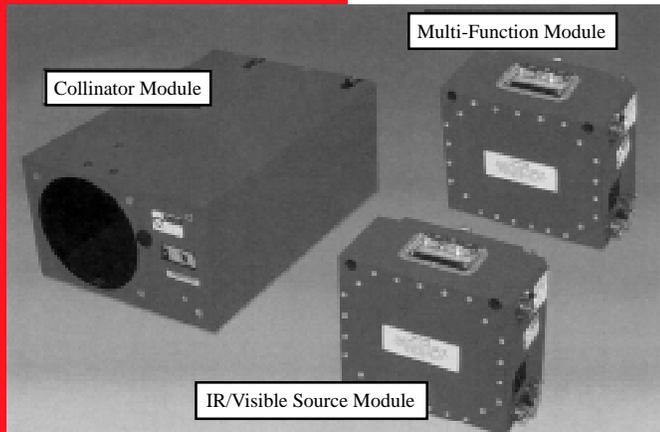
TETS-EOV Update

At the recent AutoTestCon in Anaheim, the Marines had on display the first complete TETS-EOV system built by SBIR. A TOW missile and launch unit were shown in a simulated test mode with the TETS-EOV system. The display attracted a lot of attention and the Marines are looking forward to having the TETS-EOV available for use in the field.

The TETS-EOV is a field portable, ruggedized, multi-spectral system used to test FLIRs, Laser Range Finders/ Designators, Visible Camera/Display systems, Direct View Optics,

Modulated Source Trackers and Video Contrast Trackers. SBIR supplies the EO test hardware and IRWindows™ software for the

TETS-EOV system and recently completed the final acceptance and demonstration of the first two LRIP systems. SBIR is teamed with Lockheed Martin on this project.



TETS-EOV

New Integrating Sphere Visible Source

Santa Barbara Infrared has significant experience in the design and manufacture of Multi-Spectral test systems for numerous DOD customers and programs. SBIR has leveraged this experience by standardizing custom sub-systems thus making commercially available products that were previously accessible only to selected customers. The newest addition to the list is the 6000 Series Integrating Sphere/Visible Source.

The 6000 Series Integrating Sphere Visible Source Systems are designed for laboratory, production line, and depot applications. Each system features precise luminance control, uniform output, adjustable color temperature and display of radiance or luminance. SBIR's breakthrough SMART Blackbody™ architecture is utilized to provide the most accurate and stable system available. The system design maintains SBIR's high standards of ruggedness, ease of use and reliability.

CCD cameras, photometers, radiometers, remote sensing systems, etc. are quickly and easily tested and calibrated with the 6000 Series Integrating Sphere/Visible Source. Tests such as MRC, MTF, AGC, CTF, Field of View, Resolution, and Boresight are performed with utmost accuracy. For more information, call Steve White or Lane Rubin.

IRWorld by Alan IRWin

