SBIR

SANTA BARBARA INFRARED, INC.

a HEICO company

SBIR Has Moved

SBIR has relocated into a newly redesigned 25,000 square foot facility, less than a mile from our old location. Our rapid growth over the past two years necessitated the move from our former 17,000 square foot site. After a yearlong search for a commercial property that would accommodate future growth, SBIR found an ideal building to house administrative offices, manufacturing and all other operations under one roof.

The new facility has been completely renovated and modernized to provide a contemporary environment with an abundance of natural light. We're now just a mile from the Santa Barbara Harbor and less than two miles from the downtown area. Our email, phone and fax numbers remain unchanged. Please make a note of our new address: 30 S. Calle Cesar Chavez, Suite D., Santa Barbara, CA 93103.

SPIE

The SPIE AeroSense Conference and Exhibition is once again being held at the Gaylord Palms Resort & Convention Center in Orlando, Florida April 21-25.

SBIR will be presenting numerous technical papers, displaying our extensive line of standard products and test systems, and demonstrating the latest version of IRWindows™ 2001 Software System for automated testing of IR, visible and laser systems. In addition, we will be showing the latest upgrades to our MIRAGE dynamic IR scene projector.

CONFERENCE HIGHLIGHTS TEST STANDARDS
A highlight of SPIE 2003 will be a special roundtable discussion, moderated by Gerald Holst, Thursday, April 24 from 4:00 p.m. to 6:00 p.m. SBIR will be part of the panel which will discuss the future of EO system testing and specific topics including: unifying test techniques, testing new systems (e.g. hyper-spectral and multispectral), factory testing (high volume), and test equipment requirements.

Technical Papers Include:

- MIRAGE: Developments in IRSP System Development, RIIC Design, Emitter Fabrication, and Performance (5092-05)
- Adventures in Annealing: Resistive Emitter-Based IR Scene Projectors (5092-06)
- 1024 x 1024 Large Format Resistive Array (LFRA) Design, Fabrication, and System Development Status (5092-10)
- Performance Comparison of Reflective and Emissive Target Projector Systems for High-Performance IR Sensors (5092-28)
- Advanced Test and Calibration Systems for Integrated Multi-Sensor Platforms with IR, Visible and LRF/Designator Capabilities (5092-27)

Stop by and see us at the front of the Convention Center, in Booth #411.

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New to SBIR

Joe Treiber has joined SBIR as the Engineering Manager. He has 22 years engineering and management experience in a wide variety of industries including Defense, Commercial Avionics, Industrial Controls, Automotive, and Consumer Products. Joe brings a strong knowledge of product design and complex system development to the SBIR team.

Joe holds a BS in Electronic Engineering and earned an MBA from Western International University.

New Pulsed Laser Diode Source

SBIR's new Pulsed Laser Diode (PLD) source is a modular device used for laser receiver boresighting and pulse interval modulation/pulse repetition frequency code simulation. The PLD source is easily integrated into SBIR target projectors or can be configured for use on other test systems. The PLD joins our Active Range Module (ARM) and Laser Test Module (LTM) to provide complete laser range finder and designator testing.

The PLD source includes a laser diode, photo diode, diffuser, boresight target, and control electronics. When activated, the PLD source automatically moves into position behind a boresight target located at the focus of the collimator. The same boresight target can be back-illuminated by an IR or visible source for co-boresighting of all the sensors on a typical military sensor suite.

The system features the ability to set the Pulse Repetition Period, Pulse Amplitude and Pulse Width. The PLD can be triggered externally or controlled via the controller front panel, computer interface or SBIR *IRWindows*™ 2001 Test Software System.

Specifications

Wavelength: 1064 nm nominal
Pulse Width: 20 to 160ns, controllable in 10 ns increments
Pulse Repetition Period: 33 to 1000 ms (1 to 30 pps)
Intensity: >1x10-14 J/cm2 into f/5 collimator

IRWorld

by Alan IRWin