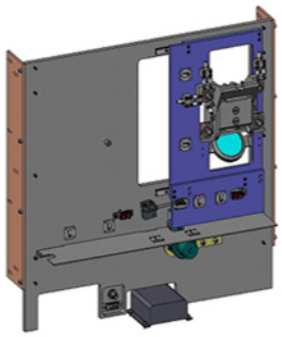
SBIR
SANTA BARBARA INFRARED, INC.
a HEICO company

Boresight Alignment Module



FEATURES

- **Two Types of Boresight Alignment Modules**
  1) Designed for use with one of SBIR's standard STC Series Collimator Systems.
  2) Designed for use on an open benchtop configuration.
- **Accurate Retro-Reflector**
  A 1 arc second retro-reflector is provided to perform accurate calibration of the boresight module.
- **IRWindows™ Automates Sensor to Laser Alignment**
  By using the provided IRWindows™ test software, the alignment testing between sensor and laser is performed automatically. Alignment of the laser to multiple sensors can also be measured.
- **SWIR Camera Provided**
  The SWIR camera that comes with the Boresight Alignment Module images from 850nm up to 2000nm.

OVERVIEW

The Boresight Alignment Module (BAM) from Santa Barbara Infrared is used to align a laser transmitter to an imaging sensor. This measurement provides the user an alignment error between the imaging sensor and its' associated laser rangefinder. In addition, the boresight alignment module can be used to align a target projector system fixture with reference mirror to the line of sight of a collimator for UUT boresight measurements. The system includes the Boresight Alignment Module, IRWindows™, SWIR camera, the controller and all necessary cabling to make a complete turnkey test system.

Solutions

for Every EO Test Requirement

30 S. Calle Cesar Chavez, Suite D • Santa Barbara, Ca. 93103
ph (805) 965-3669 • fax (805) 963-3858 • http://www.sbir.com

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SYSTEM SPECIFICATIONS

Camera Bandwidth	850nm to 2000nm
Camera Dynamic Range	30dB
Typical Camera Saturation	1.8nJ/cm^2 @ 1064nm 1.5nJ/cm^2 @ 1540/1570nm
Camera Linearity	<1%
Camera FOV [1]	5.2mrad x 4.2mrad
Camera IFOV [1]	16.28urad
TPS Alignment to	Within 25urad Radial Boresight Target Accuracy
IRWindows™ Laser Centroid Resolution [1]	1/4 IFOV, 4.28urad
Beam Divergence Measurement Range [1]	80 to 2500urad
Beam Divergence Accuracy [1]	10% or 12urad

Notes: 1) Specification applies to configuration with STC-1260Z collimator

ORDER INFORMATION

Please contact the SBIR sales team at (805) 965-3669 to receive more information about this product.

** Specifications are subject to change without prior notice*

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