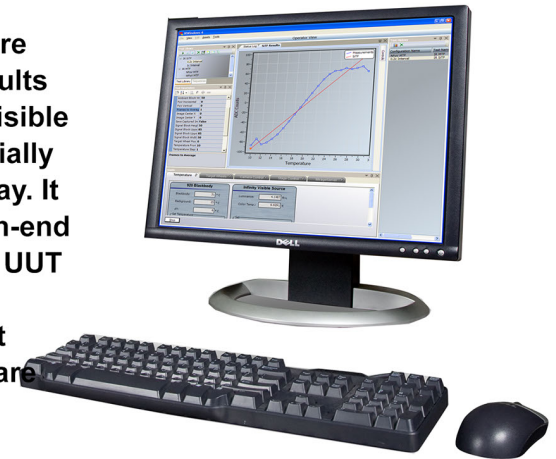


## OVERVIEW

IRWindows™ from Santa Barbara Infrared is an advanced software tool that automates the setup, execution, data collection and results analysis for industry standard performance testing of infrared, visible and laser systems. IRWindows™ is the most advanced commercially available IR/EO sensor test software package in the industry today. It operates under Windows™ 10 and is delivered installed on a high-end PC computer platform with frame grabber(s) selected to support UUT video formats (also available as a software only package). IRWindows™ combined with SBIR target projectors provides test engineers and technicians a turnkey, automated hardware/software solution for sensor testing.



## FEATURES

- **Easy to Use**  
Using an intuitive interface, the test engineer can quickly configure and run any of the tests included with IRWindows™ (see reverse for available tests). Data collection and analysis are automated and test results can be printed, saved or exported for further analysis.
- **Editable Tests**  
Provides access at the code level for creating new tests and modifying existing test algorithms to satisfy unique test requirements.
- **Test Results**  
All data from tests are stored in a standard SQL accessible database, which enables support for data mining, trend analysis, and prognostics. Results can also be exported as XML or CSV for import into Excel. A report editor is also built-in to allow customized test report creation.
- **Multiple User Levels**
  - Operator Mode** - a simple interface that allows a test technician to run a pre-defined Test Sequence that includes instructions, photos/video and stores all test results into the database.
  - Developer Mode** – allows full development of test configurations, test sequences, UUT definitions, and instructions for the operator. It also allows an experienced test engineer full access to all of the test equipment for manual and automated operation.
  - Programmer Mode** – this protected mode allows a programmer full access to test definitions, allowing changes to test operation and data analysis while protecting the core test set.

## ANNUAL SUPPORT CONTRACT

After the initial free training and 60 days of support, SBIR is offering a support contract including: two software releases per year with new features and bug fixes, 24 hour priority response to support requests and software patches prior to the next scheduled release. For more information on this program contact the SBIR sales team.

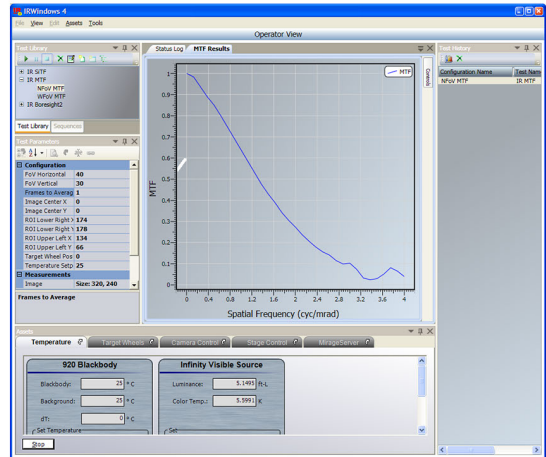
**Solutions**

**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>

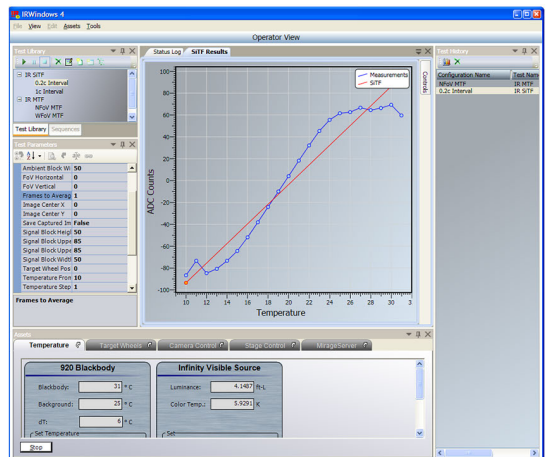
**IR TESTS**

- 3D Noise
- Boresight (Pinhole, Crosshair, Continuous, Multi-Sensor)
- Channel Integrity
- Distortion (Geometric)
- Ensquared Energy
- Gain, Offset, Bad Pixels (GOBP)
- MRTD (Manual, Auto)
- MTF (Continuous, Interpolated, Phase Corrected)
- NETD (Spatial Noise, Temporal Noise)
- Eyepiece NETD, NPSD, SiTF, Uniformity, MTF, Camera Calibration, Zoom
- Uniformity
- NER, NEI, NEFD, NEP, D\* (Radiometric)
- NPSD
- SiTF
- Cross Talk
- FOV Square
- Diopter Test
- Image Alignment
- Magnification NFOV, WFOV
- MDTD
- Resolution (near or far focus)
- Strapped Channels



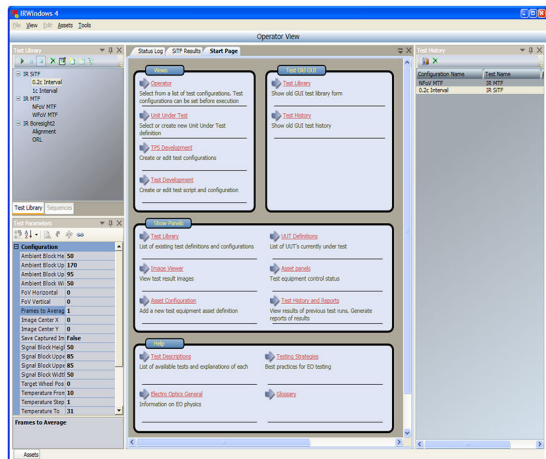
**VISIBLE TESTS**

- 3D Noise
- Responsivity
- Temporal Noise
- Boresight (Pinhole, Crosshair)
- MTF (Interpolated, Continuous)
- Eyepiece MTF, NEInp, Responsivity, Uniformity, Camera Calibration, Zoom
- Collimator MTF, Parallax
- Diopter Test
- Display Brightness
- Uniformity
- Distortion (Geometric)
- FOV
- Noise Equivalent Input
- Brightness Gain Test
- High Light Cut Off Level
- Image Alignment
- Magnification NFOV, WFOV
- MRC
- NPSD
- Resolution



**LASER TESTS\***

- Beam Divergence
- Atmospheric Extinction Ratio
- Pulse Energy
- Pulse Power
- Pulse Width
- Pulse to Pulse Power Variation
- Pulse to Pulse Temporal Variation
- Pulse Interval
- Pulse Frequency
- Beam Profile
- Energy Presence (on/off)
- Power



Notes:  
\* - With applicable hardware only  
Specifications are subject to change without notice

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