

SPACE IMAGERS AND IDCAs

Ruggedized Designs for Space Applications

- “Ruggedized” Dewar, IDCA (Integrated Dewar-Cooler Assemblies) and camera designs, for survival through rocket launch and other harsh conditions
- Thermal system design to maintain performance in extreme environments utilizing conductive cooling
- Dewar system design for extremely long life even in harsh, hot operating conditions
- Customized features and commands when needed for successful mission execution
- Customer support through all phases of a space program: Design/Modeling, EMD, Flight Testing, ESS Testing
- IRC has successfully deployed imaging systems into a wide range of airborne and space applications

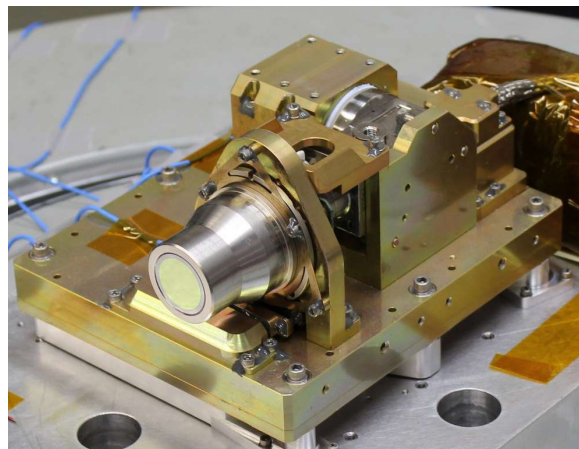
IRCameras, LLC

A Subsidiary of Santa Barbara Infrared, Inc.

30 S. Calle Cesar Chavez, Suite D, Santa Barbara, CA 93103
805.965.9650 www.ircameras.com

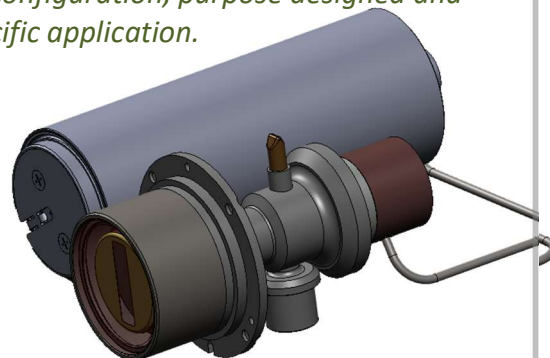
LEO Space Imaging System

Compact, Cost-Effective solution for emerging shorter-mission-life LEO programs. Ruggedized for launch environment



Space Imaging IDCA

Ruggedized for launch environment survival. Custom Optical Configuration, purpose designed and built for this specific application.



SPACE IDCA AND CAMERA CAPABILITIES

- Choice of InSb, nBn or SLS sensors
 - InSb or nBn with $<1\ \mu\text{m}$ to $>5\ \mu\text{m}$ spectral response
 - SLS with $3 - 12\ \mu\text{m}$ spectral response
- Can also integrate customer-supplied FPAs
- Choice of cryocooler configuration:
 - Closed Cycle Stirling (Rotary or Linear)
 - Pulse Tube
- Vented Space Dewar for radiative cooled applications
- Complete System Performance Modeling
- Custom optical and cold shield design
- Custom Dewar designs
- Custom cold (or warm) filters for optimized performance for any specific application
- Space-capable, ruggedized chassis/packaging designs
- In-house Vibe and Shock testing capability