



# Santa Barbara Focalplane

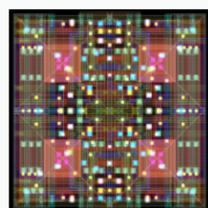
IR Excellence: Seeing Is Believing



World leader in developing and manufacturing infrared focal plane array (FPA) detectors, ROICs and sensor cores.



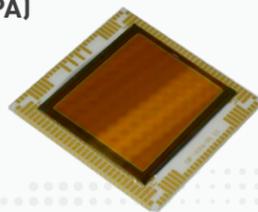
**Readout Integrated Circuits (ROIC)**



**Detector**



**Focal Plane Arrays (FPA)**



**Integrated Dewar Cooler Assembly (IDCA)**



**Camera**



IR Excellence: Seeing Is Believing

# Lockheed Martin Santa Barbara Focalplane

Provides IR solutions for space, aerial, and ground with a rich set of technologies vertically integrated for discriminating capabilities

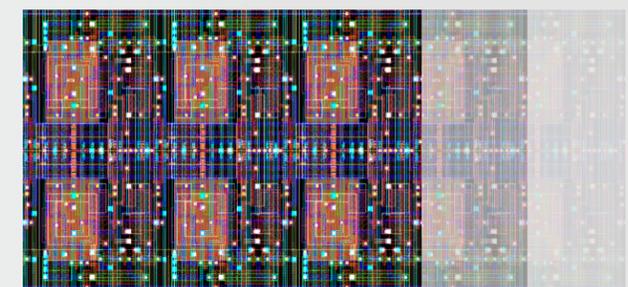
**Compound Semiconductor Engineering**

- Molecular-Beam Epitaxy
- Semiconductor Fabrication
- Megapixel Interconnects
- Heterostructure Detectors



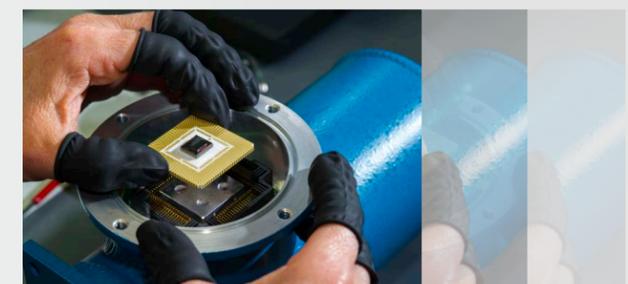
**VLSI Mixed-Signal IC Engineering**

- Unit-Cell Design
- ADC Design
- Digital-State Machine
- High-Speed Datalinks



**Focal Plane Array Engineering**

- Interconnect Hybridization
- Detector Substrate Thinning
- Dielectric AR Coatings
- Cryogenic Radiometry



**Cryogenic Mechanical Engineering**

- Finite Element Analysis
- Thermal-Frequency Response
- Cryogenic Cooling



**Electro-Optic Systems Engineering**

- IR Systems Analysis
- Image Processing
- FPGA Programming
- Optical Design



Lockheed Martin.  
Your Mission is Ours.™

**LOCKHEED MARTIN**



**Contact Information**

Lockheed Martin Corporation  
Santa Barbara Focalplane  
Business Development  
Phone: (805) 571-2302  
[www.lockheedmartin.com](http://www.lockheedmartin.com)



Hummingbird color design is a registered trademark of Lockheed Martin Corporation. All Rights Reserved.

©2019 Lockheed Martin Corporation SBF1903-010