



Santa Barbara Focalplane

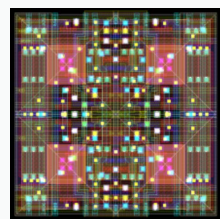
IR Excellence: Seeing Is Believing



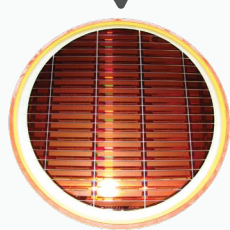
World leader in developing and manufacturing infrared focal plane array (FPA) detectors, ROICs and sensor cores.



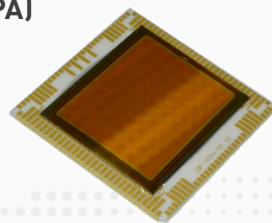
Readout Integrated Circuits (ROIC)



Detector



Focal Plane Arrays (FPA)



Integrated Dewar Cooler Assembly (IDCA)



Camera



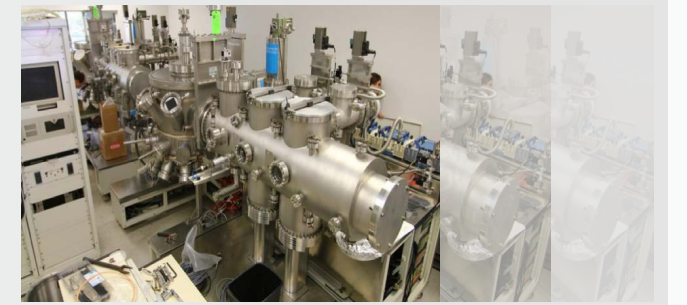
IR Excellence: Seeing Is Believing

Lockheed Martin Santa Barbara Focalplane

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

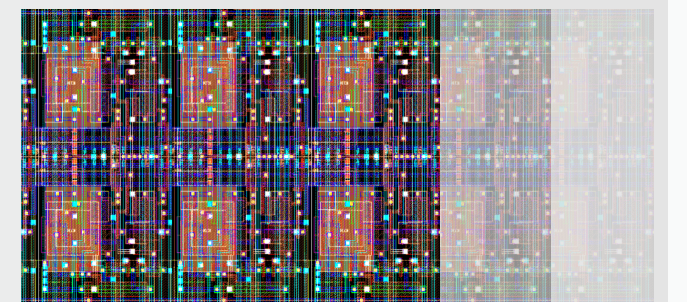
Compound Semiconductor Engineering

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



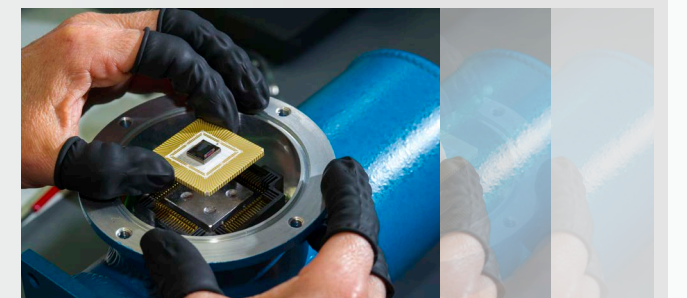
VLSI Mixed-Signal IC Engineering

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



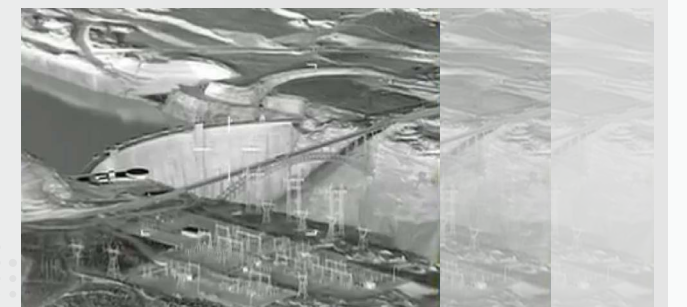
Focal Plane Array Engineering

- 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



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