

# SENSORS & INSTRUMENTS

All-Domain Solutions

*Image courtesy of NASA.*

## SENSOR EXPERTISE

When mission success depends on data quality, it is crucial to procure precise, reliable sensors and instruments.

The Space Dynamics Laboratory (SDL) has been developing advanced sensors and instruments for remote and in-situ applications since 1959.

## PROVEN PERFORMANCE

From PI-led science missions to defense programs, SDL has a long history of successful sensor performance.

We owe our success to our talented staff, robust mission assurance, and AS9100D certification.

## FULL MISSION SUPPORT

SDL provides full mission support throughout all mission phases:

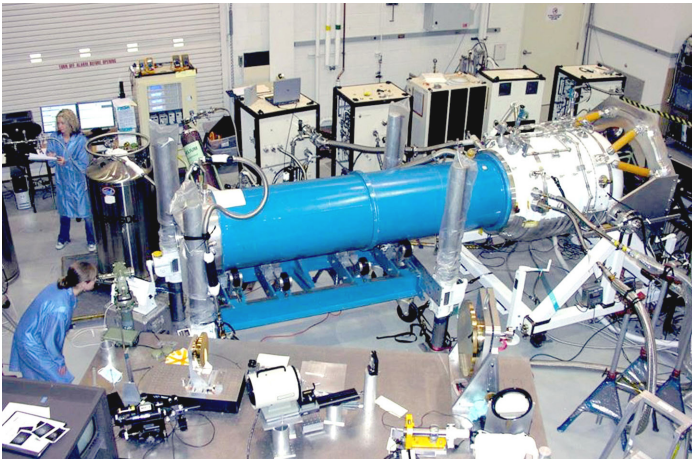
- Concepts & requirements
- Modeling, simulation & analysis
- Design & technology development
- Assembly, integration & test
- Deployment & mission operations

# SENSORS & INSTRUMENTS All-Domain Solutions

**SDL'S EXPERTISE COVERS A WIDE RANGE OF SENSOR TYPES AND APPLICATIONS, INCLUDING ELECTRO-OPTICAL, RADAR, LIDAR, X-RAY, AND SPACE ENVIRONMENTS.**

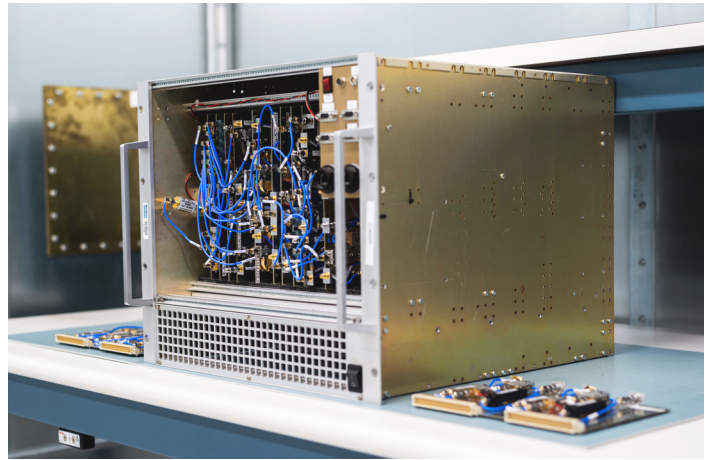
## ELECTRO-OPTICAL (UV/VIS/IR)

As a sensing expert with experience in visible and near- and far-IR, SDL develops sensor components and systems, cryosystems, and thermal solutions. We are also known for world-class calibration, characterization, and test.



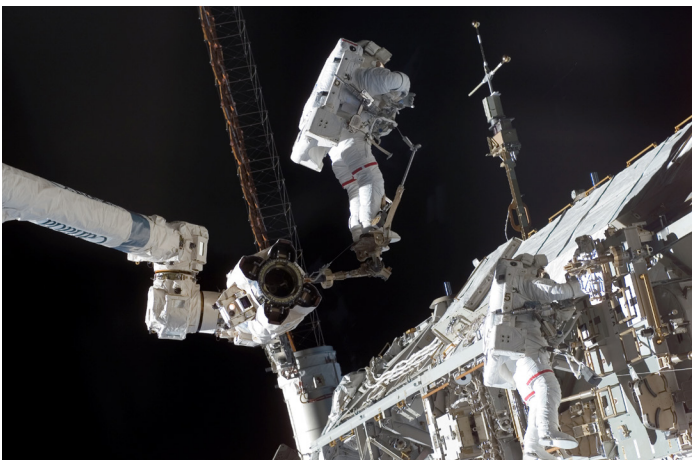
## RADAR

SDL specializes in distributed radar systems and signal processing techniques that enable revolutionary advances in surveillance capability. We move rapidly from concept designs to real-world demonstrations.



## SPACE ENVIRONMENTS

SDL's first experiments more than 60 years ago measured and characterized the upper atmosphere and space environment. With decades of experience, SDL provides class-leading modeling and measurement capabilities.



## LIDAR

Our lidar experts are pushing the boundaries in eyesafe standoff lidar sensing systems, with ground, airborne, and space-based solutions. These solutions focus on atmospheric molecule and particle detection, with supporting software for data analysis.



## WHY CHOOSE SDL?

As a University Affiliated Research Center (UARC), SDL is uniquely positioned to solve problems in the interest of national security and science. SDL is committed to employing open standards and delivering technology with Government purpose rights. Our sensing team has the expertise to provide full system design, build, and test using a novel, agile development approach, and we have a proven track record of delivering innovative hardware and software solutions.

