FLIGHT TEST SERVICES



SUPPORT SERVICES

- Flight test planning & execution
- Manned & unmanned aircraft piloting
- ISR system operation
- Payload integration
- Mechanical design, analysis & fabrication; machining, custom composites & 3D printing
- Software systems for command, control, downlinking & data processing

FLIGHT TEST HERITAGE

SDL has supported ISR system flight testing for Government and commercial customers for over 20 years. Past test and demonstration events include the following:

- Trident Spectre: Fort Story, VA
- Insight: Fort Irwin, CA
- Northern Edge: Fairbanks, AK
- Air to Ship Collaborative: San Diego, CA

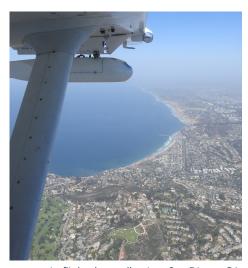
TEST RANGE ACCESS

of resources and services—including pilots, operators, sensor integration, and field support—at reasonable hourly rates, and our status as a University Affiliated Research

Center enables an easy contracting process for Government customers.

SDL is located near multiple testing environments (valley, mountain, urban, riverine, and high desert):

- Logan, UT, civilian airspace
- Utah Test & Training Range (UTTR), Air Force-controlled airspace
- Dugway Proving Grounds (DPG), Army & Air Force-controlled airspace
- Idaho National Laboratories (INL), controlled airspace
- Testing is also supported at sites throughout the US



In-flight data collection, San Diego, CA.

FLIGHT TEST SERVICES







Angel VTOL UAS.

Cessna Skymaster O-2A aircraft.

Technicians assemble a TigerShark UAS.

SUPPORT FACILITIES

- Secure, environmentally controlled 80 ft x 70 ft (5,600 ft²) hangar at the Logan-Cache Airport (LGU)
- 25 ft tower/platform (full-sky line of sight)
- 20 ft field support trailer with tow vehicle
- SDL headquarters is located five minutes from the airport; facilities include a machine shop, electronics assembly lab, calibration equipment & cleanrooms

AIRCRAFT ASSETS

CESSNA SKYMASTER 0-2A MANNED AIRCRAFT

- Two aircraft available
- 700 lb & 2 kW payload capacity
- 22U rack space
- Versatile mounts for sensor installation: four wing hardpoints & underbelly mounts
- Inline twin engines for stable flight
- Experimental category aircraft
- Telemetry data (GPS/INS) available
- Contractor owned, contractor operated

TIGERSHARK UNMANNED AIRCRAFT

- Group 3 unmanned aerial system (UAS)
- 100 lb payload capacity
- Piccolo™ II autopilot
- 21 ft wingspan
- 80 kt max speed
- 14,000 MSL max altitude
- Up to 10 hours endurance
- Multiple payload locations (internal & external stores)
- Conventional wheeled takeoff & landing
- 32 hp Herbrandson 372cc two-stroke engine
- Government owned, contractor operated

ANGEL VTOL UNMANNED AIRCRAFT

- Group 2 UAS
- 12 lb payload capacity
- Pixhawk® Cube Blue autopilot
- 10.5 ft wingspan
- 46 kt cruise speed
- 11,500 MSL max altitude
- 1.5 hours endurance
- Fully electric
- Vertical Takeoff & Landing (VTOL) fixed wing—no runway required
- Autonomous takeoff & landing-provides easy flight for users of any experience level
- Tool-free assembly-set up in less than 10 minutes
- FCC-compliant radios & frequencies
- Part 107 compliant

SMALL UAS

- Custom built & commercial off-the-shelf
- Fixed wing & rotary wing
- Low size, weight & power (SWaP) stabilized cameras
- Bidirectional radios
- Part 107-certified pilots

AUXILIARY EQUIPMENT

- EO/IR camera systems for documenting scene features & conditions
- Two-axis gimbals for steering & stabilizing payloads up to 50 lbs
- Tactical data links for real-time command, control & monitoring
- Pilot assist device for precise waypoint following

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