OPL's two Mi-2 helicopters are flight-proven airborne testbeds for a variety of sensor and instrumentation packages, configurable for vertical lift flight test needs.

Operator Performance Lab
Mi-2 Twin-Turbine Helicopter

LET OPL SERVE YOUR FLIGHT TEST NEEDS

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FULL SERVICE FLIGHT TESTING

AIRCRAFT SPECS

- General:
  - Crew: 3 (1 pilot, 1 in co-pilot seat, 1 at rear flight test engineer station)
  - Length: 37ft 5in (11.4m)
  - Height: 12ft 4in (3.75m)
  - Main Rotor Diameter: 47ft 7in (14.5m)
  - Disk Area: 1,777.7 sq ft (165.15 sq m)
  - Powerplant: 2 x PZL GTD-350P turboshaft engines
    - 400 shp each
- Performance:
  - Max Speed: 110 kts (200 km/h, 120 mph)
  - Range: 240 NM (440 km, 270 mi)
  - Service Ceiling: 13,000 ft (4,000 m)
  - Disk Loading: 4.59 lb/sq ft (22.41 kg/sq m)

HARDWARE

- External payload hard-points (sensor pod, radio, camera pod, etc)
- Instrumented racks for multi-purpose applications
- High performance PC computers (Linux or Windows)
- 4kW 120VAC true sine wave inverter with buffer batteries
- General purpose outrigger mounts that can each carry 400 lbs.
- Optional external removable fuel pods for increased flight time
- External cable pass-through for quick integration
- Standardized payload mounting plates
- Centrifugal vortex dust filters for engine air intake particle separation
- Nose hard-point capable of supporting weather radar or other compatible sensor packages
- Additional removable backpack rack/hard-point aft on tail

COMMUNICATIONS & DATA

- GPS
- 4G LTE datalink
- Provisions and infrastructure for GPS integration with customer payloads

INTEGRATED BIOCULAR HELMET MOUNTED DISPLAY

- Hensoldt Optronics Archer Head Tracker
- SA-Photonics SA-62 biocular color HMD
- 1080p helmet mounted forward-looking camera

SENSORS & INSTRUMENTATION

- Collins CAAS glass cockpit (MFD-268, CDU, DTU, VPM, PSM)
- Flight state recording and Linear Time Code synchronization
- Saint-Gobain 14” Radome and radar hardpoint on nose
- Hensoldt SferiSense 500 LIDAR and Sferion symbology generator
- Weather-proof electro-optics pods
- 4-channel high-res capture boards capable of capturing high-quality input
- Video recorders for SDI/DVI/HDMI/VGA/NTSC input sources
- Cognitive Avionics Tool Set (CATS)
- Navigation grade GPS/INS
- OPL proprietary remote process management
- Synthetic and Enhanced Vision Systems (SVS/EVS)

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OPTICAL IMAGERS

- Canon ME-20F color night vision (5 million ISO)
- Triplex Distributed Aperture System based on Canon ML-100-EF
- Sony UMC-S3CA CMOS imaging photometer
- Goodrich SWIR
- Cockpit and external witness cameras
- Provisions for gimbal and scanning optics on outriggers