



The Operator Performance Laboratory (OPL)
1801 South Riverside Drive, Hangar H
Iowa City Municipal Airport (KIOW, CTAF 122.8, Rwy 7/25)
Iowa City, Iowa 52242
Flight Ops: 319 248 1100, Cell: 319 631 4445
Research Aircraft Specification Sheet

Make: Aero Vodochody L-29
Registration: N20PL, State of Iowa, University of Iowa, liability insured
Crew: 2, front seat safety pilot, rear seat evaluation pilot

Dimensions: Length: 10.81 m (35 ft 6 in), Wingspan: 10.29 m (33 ft 9 in), Height: 3.13 m (10 ft 3 in), Wing area: 19.8 m² (213 ft²), empty weight: 2,280 kg (5,030 lb), Loaded weight: 3,286 kg (7,244 lb), Max takeoff weight: 3,540 kg (7,800 lb)

Crew support: O₂ system, g-suit, pressurization
Hard-points: 2 each with rails equipped for ARDS or similar electronic pods, 120VAC, 28VDC, RS422, Ethernet, hard point also usable for aux fuel tank.

Performance: Maximum speed: 820 km/h (443 knots, 510 mph), Range: 900 km (486 nm, 560 mi), Service ceiling 11,500 m (37,700 ft), Rate of climb: 14 m/s (2,800 ft/min), Wing loading: 166 kg/m² (34.3 lb/ft²), Thrust/weight: 0.25, loading +8/-4gz

Instrumentation: Total of 4 each high performance PC computers (Linux or Windows), 1 each 15" high brightness touch screens in back cockpit, 1 each Dynon Skyview SVS in both cockpits, 900 Mhz Long range data link, 1.2 Mbps, high speed L-band data link 2Mbps, 2.4Ghz 10W video link, 4 channel video, Hemisphere Crescent heading source, Rockwell Collins GuS GADHRS, Novatel ProPak V3 GNSS, 1kW 120VAC true sine wave inverter, 1200 W 120VAC true sine wave inverter, dual VHF Navcom, GPS, bore sighted FLIR camera, SVS/EVS software, OPL proprietary remote process management.

