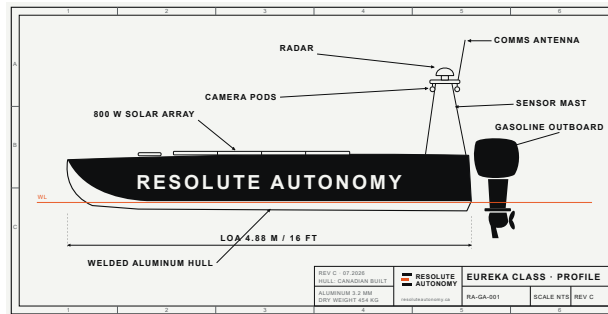


EUREKA CLASS

16-foot uncrewed surface vessel · prototype operating on Ontario waters

A welded-aluminum uncrewed surface vessel, designed to transit fast on gas, hold station for weeks on electric power and solar, and ship two to a standard 20-foot container.



ORIGIN	Designed and built in Canada by a Canadian-owned company	SPEED	24 kt cruise, 30 kt maximum †
LENGTH OVERALL	4.88 m (16 ft)	RANGE	Up to 1,200 km (648 nm) on gas at economical speed; 200 km (108 nm) on battery, extended by solar †
BEAM	1.73 m (68 in)	ENDURANCE	Up to 60 days at sea †
DRAFT	0.15 m (6 in) with drives raised	PAYLOAD	363 kg (800 lb) †
DRY WEIGHT	454 kg (1,000 lb)	SEA STATE	Up to Sea State 5 †
HULL	Welded aluminum, 3.2 mm (1/8 in) plate	SENSORS	Doppler radar, thermal camera, colour camera, AIS transceiver
PROPULSION	Gasoline outboard for transit; differential electric thrusters for station-keeping and quiet manoeuvring	COMPUTE	Onboard AI edge processor running our perception and navigation software
FUEL	246 L (65 US gal) gasoline	COMMUNICATIONS	Starlink, LTE, and RF; predictable behaviour when links degrade
ENERGY	11 kWh battery bank	LAUNCH & RECOVERY	Trailer launch from any boat ramp; two vessels stack in a standard 20-foot ISO container
CHARGING	800 W solar on station; 19 A engine alternator underway; 50 A shore charger		

† Dimensions, construction, and fit are as built on the operating prototype. Performance figures are design targets being verified in on-water trials. Operated from the Resolute Autonomy fleet console; a single operator can command several hulls.

The autonomy software, the command system, and the sensor fusion are all our own design. The hulls are built by Canadian manufacturers, and we buy Canadian components wherever they exist. The whole vessel is designed and built in Canada.