

C-Cat 5

MULTIPURPOSE WORK USV

C-Cat 5 is a multipurpose work class unmanned surface vehicle (USV), designed to be lightweight, easily deployed, highly manoeuvrable and developed for use in water quality sampling, environmental assessments and in-shore / coastal survey. It is built to survive the rigours of regular use in harsh environments.

Key Features

- Rugged aluminium hull that folds into a form for practical transport in a standard 20' container
- Powered by 2 electric motors, it can be supplied with a small, silenced inboard diesel generator for operations beyond 48 hours
- Can be operated on pre-programmed routes that can be updated at any point through the ASView+ interface
- Vessel can be operated in direct control mode where the user has direct control of the speed and direction via a handheld joystick
- Large payload capacity in the hulls and on the cross deck structure



C-Cat 5 concept render

Applications

- River, Lake, Reservoir, Port/Harbour and Coastal Survey
- Water Sampling and Monitoring
- Current Profiling (ADCP)
- Deployment and Towing of Passive Acoustic Monitoring Hydrophone Arrays.
- Harbour/coastal security



C-Cat 4 on trials

Autonomous Surface Vehicles Ltd designs and constructs rugged and reliable unmanned systems using innovative marine technology for commercial, government and military applications. Established in 1998, ASV is based near Portsmouth in the United Kingdom.

C-Cat 5 - Technical Specification

Physical	C-Cat 5
Length	5m
Beam	2.2m
Draft	~0.7m
Weight	650-1000kg (payload and battery dependent)
Propulsion	2 x DC electric motor units. Diesel genset or direct drive diesel options

Power and controls	C-Cat 5
Speed	0-7 knots
Payload	500kg max
Endurance	~12 hours depending on speed and battery choice
Energy capacity	4 x 2.1kWh Lithium-ion battery, AGM option available
Range	10km
Control	ASView+ chart based system with direct control, heading hold and waypoint modes Interfaces with hydrographic survey software and other chart engines
Communications	UHF, S-Band, L-Band and XBee options. Contact ASV to discuss.
Options	Interferometric sonar, sidescan , multibeam, IMU, ADCP, Winch, C-Nav DGPS



Systems folds for transport in standard 20' container

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