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Remotely controlled bathymetrical survey vessel

GENERAL SPECIFICATIONS

Length	4.3 m
Width	2.5 m
Draft	0.6 m (propellers)
Weight	350 kg (fully installed)
Speed	6 kn
Engines	2x Torqueedo Cruise 2.0 R
Frame	NRS Alley Cat Cataraft

SURVEY EQUIPMENT

Multibeam Echoshounder	iWBMS Norbit
Gyro and IMU	iWBMS Norbit
DGPS Positioning	Applanix POS MV, integrated in Norbit unit
MiniSVS	AML SV Xchange, integrated in Norbit unit
PC	Nuvo 5000LP

REMOTE CONTROL

Hardware	Dynautics Spectre Autopilot Eboat-T
Communication Steering	Dynautics Spectre Remote Joystick
Communication Survey Control	Public mobile data network or private local network
Steering Control	Manual or Automatic

OPTIONAL FEATURES

Marine Laser Scanning system
AIS
CICPA conformity (no cameras installed)



This remotely operated bathymetrical survey vessel allows bathymetrical surveying in a safe and eco-friendly way in hard-to-reach areas, such as the shallow nearshore part of trenches, quarry pits, rivers. The survey vessel was used on the channel Gent-Terneuzen in Belgium, Klaipeda State Seaport in Lithuania and proved a valuable didactical tool for junior surveyors.

The vessel is deployed and retrieved in and from the water via its custom-made frame and a land or marine based crane.