



DEEP LOTUS

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Deep is a pioneer in net-zero solutions with the Deep Green initiative. Our mission to operate net-zero is not easy. However, our Deep Green fleet of electric vehicles and vessels enables us to conduct emission-free operations for inland surveys.

By offering emission-free survey services, we help our clients effectively reduce the impact of emissions on their (construction) projects and score higher on sustainability tender criteria. This way, we collectively contribute to nature, climate, and health objectives.

The Deep Lotus USV (uncrewed surface vessel) is designed for precise multibeam data acquisition and can be controlled both from the shore and our Control Room in Amsterdam. This unmanned survey vessel, due to its compact size, is very suitable for conducting comprehensive surveys in shallow and hard-to-reach areas or locations, such as construction pits and contaminated water. Because the Deep Lotus is electric, this USV is also allowed to operate in areas where motorized vessels are prohibited.

General vessel information		Survey equipment	
Vessel name	Deep Lotus	GNSS	Applanix Oceanmaster
Type	USV	MRU/Gyro	Applanix inertial MRU
Owner	Deep BV	MBES	Norbit iWBMSH Integrated
Operator	Deep BV		PING 3DSS-iDX-450
Builder	Maritime Robotics	SVP winch	Up to 50 meters
Classification	N.A.		
Flag	N.A.		
*survey equipment can vary per project based on local conditions or client requirements.			

Main characteristics		Machinery	
Length O.A.	2.00 meter	Engines	2 x Torqeedo 403 AC
Breath	1.08 meter	Output	915 Wh each
Draft	0.30 meter		
Height	1.07 meter	Battery Capacity	
Gross Tonnage	-	Transit	N.A.
Survey speed	2 - 4 kts	Survey	20 hrs @ 2 kts 9 hrs @ 3 kts
Moonpools	Pole mounted	Battery capacity	4 x 915 Wh

