

ARMADA A21



Uncrewed robotic ship

The Ocean Infinity Armada Fleet comprises of over 30 vessels in six classes from 8m to 86m in length. It has been designed to reduce offshore exposure and vessel emissions through the use of robotic technologies and remote operation. The Armada Fleet is delivering the next step in offshore safety and makes a significant move towards sustainable operations at sea.

All Armada vessels are designed for remote operation from Ocean Infinity's Remote Control Centre (RCC) network. Vessels are connected to the RCC network with Ocean Infinity's proprietary remote communications system that ensures our assets are secure and safe from cyber threats.

Each Armada vessel class has been designed to offer a multirole capability within its size and capacity and can support a range of subsea equipment from hull mounted geophysical sensors and towed equipment to ROV's and large geotechnical subsea drills.

The Armada 21 (A21) is a 21m aluminium hulled uncrewed surface vessel designed to deliver geophysical survey and light subsea inspection tasks. The A21 can host both hull mounted and towed geophysical sensors delivering a capability equivalent to much larger 24/7 crewed survey vessels.

It is a completely uncrewed vessel when in operation, with a "pop top" wheelhouse for a crew to undertake short harbour or repositioning voyages but there are no onboard berths or galley.

SPECIFICATIONS

Type Armada A21

Owner/Operator Ocean Infinity Group

Flag UK

Class DNV + 1A1 LC Service Battery (Power) R0

Built Under construction
Grovfjord Mekaniske Verksted,
Norway



Remote Control System	L3Harris ASView
Regulatory Regime	MCA/DNV & Workboat Code
Dynamic Positioning	Station-keeping, L3Harris ASView
Length	21m
Beam	5.4m
Min. Draft	1.6m
Displacement (light/full)	35/65T
Deck Area	60m ²
Deck Load	11T
Moonpool Size	3.0 x 1.5m
Gross Tonnage	57T
Economic Speed	8-10 Knots
Operational Range	Global
Endurance	10-35 days depending on payload and operation
Communications Systems	VHF, point-to-point radio, satellite communications, 4G/LTE

Survey Positioning	Veripos LD900 DGNSS
Survey Heading & Attitude	Sonardyne SprintNAV 500 INS
Single Beam Echosounders	Simrad & Konsberg EA440
Multi Beam Echosounders	Kongsberg EM2040-04 Dual Swath (600m)
ADCP/DVL	Sonardyne Syrinx 400kHz DVL
Side Scan Sonar	Edgetech 4205 MP/MT
Sub Bottom Profiler	Innomar SES-2000
Magnetometer	OPTION: Subvision Magnetometer (Attached to SSS)
ROV/AUV	TBC
VSAT Antennas	2 x 1m Ku-Band Antennas with L-Band Back up
Installed Power (kW)	300Kw with Battery Peak shaving
Batteries	2 x 78kW 600V Corvus Orca Li-ion

Configuration is variable and final backdeck arrangement may differ.

