



# Surveying: FPV Morven



## Vessel Specifications

### Registration

Flag	UK
SCV Work Boat Code	Category 2 (60 miles from safe haven)
Length overall	19.82m
Beam	5.48m
Draft	1.9m

### Berths

Total 8 for 24hr operation: two x 1 berth, three x 2 berth  
Dedicated survey area  
Galley, crew mess

### Performance

Survey speed	2-10 knots (dedicated survey engine)
Cruising speed	12-14 knots (main engines)

### Survey Equipment

Multibeam Echosounder	Kongsberg EM2040C (200-400KHz, Dual-Head, Dual-Swath) R2Sonic 2024 (700KHz, 0.3° x 0.4°) (optional)
Side Scan Sonar	EdgeTech Ultra High Resolution (600-1600KHz) (optional)
Positioning System	Applanix POSMV
Motion Sensor	Applanix POSMV (Integrated) IMU
Sound Velocity	Valeport MiniSVP and MiniSVS
Navigation Software	QPS QINSy Integrated Navigation Solution
Processing Software	QPS Qimera, CARIS HIPS & SIPS (optional)

### Propulsion

Displacement	50 tonnes
Main Engines	2 x V8 Detroit type 8V92TI, 500 bhp each
Survey Engine	1 x Cummins 4BTA 150 bhp with folding propeller
Fuel capacity	6,450 litres
Generators	2 Perkins 4.236 (35 Kw each, 70 l/day)

### Navigation/Communications

Charting System	TRANSAS NaviSailor 4000 MFD ECS with vessel track data logging
Radar 1	Furuno 2125 25Kw Scanner with TRANSAS NaviRadar
Radar 2	Furuno 1830
DGPS1 /SAT Compass	CSI Vector
GPS2	Furnuno GPS 39
AIS	Transas Class A M3 AIS
Auto Direction Finder	Simrad TAIYO
VHF	1 x Sailor 6215 DSC, 1 x Sailor 6210, 1 x Sailor RT145 2 x Sailor HH36 GMDSS 1 x Handheld DSC VHF 1 x Handheld VHF
Satellite Communications	Sailor Fleet Broadband 150
Auto Pilot	Navitron NT777 – 0.5° Heading, Resolution, 1.86M XTE
Navtex	McMurdo NAV7

### Deck

Crane	Guerra MC20-55A – SWL 450Kg at 4.3M, 200Kg at 5.1M
Aft Deck Winch	Spencer Carter – SWL 900Kg

### Safety Equipment

Standard	2 x 8 Man Liferrafts/TPA/Immersion Suits/ Lifejackets SART, EPIRB
Optional	4m Fast Rescue Boat

### Surveillance

Cameras	Aft Deck x 1, Engine Room x 3
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### Water/Waste Management

Water Generation	Seafreah H20 4a (1000litres per day)
Waste Water System	ECOMar 8 Black/Grey water treatment system