

Nav Cam Subsea



NAV CAM is an all-in-one ROV / AUV visual based navigation and control centre. NAV CAM features an embedded GPU, integrated pressure sensor and Inertial Navigation System and the V-LOC software is supplied as standard. Image treatments are processed in real-time using the dedicated software to achieve highly accurate positioning. NAV CAM is fully compatible to be used with external survey grade gyro sensors such as an iXblue Octans and vessel Survey suites.

The V-LOC system (Visual Localisation) uses underwater resident markers which are affixed to subsea assets and a calibrated NAV CAM to compute in realtime the positions of the markers for installation and survey operations. V-LOC is fully compatible with vessel survey suites with drivers developed with EIVA NaviPac and 4D NAV.

Specifications

Product	Nav cam subsea
Country of origin	France
Manufacturer	Forssea robotics

Electrical

Voltage	24V
Power	12W
S/N ratio	< 41Dh
Data transfer	Ethernet (10/100 or 100/1000)
Standard wiring	CRE 16 pin connector – BRB16MBA103003 Option – Glenair or McCartney

Mechanical

Housing material	Titanium Gr5 TA6V (3000m)
Lens material	Sapphire glass
Weight (air/water)	3.41kg / 1.87kg
Dimensions	L = 372mm (inc connector) L = 330mm (without connector) Ø = 75mm (diameter)

Optical

Sensor	Sony IMX264 2/3" Global Shutter Black and White
Absolute sensitivity threshold (y)	18.07
Resolution	Up to 2456 x 2054 @ 22 fps
Standard focal distance	5mm
Angle of view (in air)	95.45° (D) / 81.54° (H) / 65.76° (V)
Calibration	Certified Lab Calibration for both Air and Water

Environmental

Depth rating	3000m (Ti)
Storage temperature	-20°C to 60°C
Operating temperature	0°C to 45°C

