

CS-e

Technical Specification

CS-e is a Saab-Seaeye built Panther Plus electric ROV. CS-e is a lightweight work class ROV providing a low logistics ROV solution rated to 1000m depth and offering optimised power, payload & interface options.

VEHICLE AND TMS

Configuration	TMS (Garage) Control/Interface/w 100m tether (300m Available)
TMS Weight	900kg
Operating Depth	1000MSW
Dimensions (LxWxH)	2.9m x 1.7m x 1.9m
Weight in Air	500kg
Weight in Sea Water	Neutral
Payload	105kg

CRANE LARS

Umbilical Winch (Max Line Pull)	3000kg
Winch Capacity	1000m of 32mm Diameter Umbilical
Umbilical Fitted	650m of 32 mm Diameter Umbilical (ADU 3)
Launch Method	Crane LARS
Max Outreach	8440mm or from skid 4210mm
Safe Working Load at Max Extension	2040kg
Operating Temperature	-10°C to +40°C
Max Shipping Weight	1300kg
Umbilical Weight in Air	2.77kg/m
Umbilical Weight in Water	2.04 kg/m

TOOLING

Tool/Manipulator Pump Module	HLK Power Pack - 12 function VP/Manipulator
Auxiliary Tooling Flow	140 Bar @ 3L/min
Manipulators	6 Function HLK-HD6R Grabber Manipulator 5 Function HLK-HD5 19mm Wire Rope Cutter

SURVEILLANCE/AUXILIARY EQUIPMENT

Cameras	OE14-366 Colour Zoom (Kongsberg) OE14-377 Light Ring Colour Camera (Kongsberg) OE15-102 Low Light Black and White (Kongsberg)
Light	4 x 250VAC Sea Eye LED-LAMP-27 - 150W
Sensors	Fluxgate Compass (Resolution (0.351°, ±1°, Update Rate 125mS) Depth Sensor (±0.1% Accuracy of full Scale Deflection) Sonar System (Kongsberg MS1000) Xenon Flasher (ST5K, Bowtech)
Mux	Ethernet - Current Configuration Real time sonar (Blue View) 4 RS-232 Channels (2 Connected) 2 RS-485 Channels (Not Connected) *Space in pod limited

BOLLARD PULL

Forward	220kgf
Lateral	170kgf
Vertical	75kgf
Auto Functions	Heading (Accuracy ± 1° 360° Range) Depth (1000m 0.1% Full Scale Deflection)

PROPULSION

Propulsion System	8 x SAAB Sea Eye SM5 Horizontal vectored thrusters (Fwd + Aft (45°)) 2 x SAAB Sea Eye SM5 Vertical hydraulic thrusters (Centrally Located)
-------------------	---

CONTROL SYSTEM AND POWER DISTRIBUTION

2 x 9" JVC Monitor
LCD Monitor Wall 3 x 24" Monitors
4 Channel Video Switching Unit
Net McMarine Black Box Recording Unit
Model 9PSU - Vehicle Power Unit (SN:075)
Subsea HPU Power Unit 9kW. Model: 3PHPSU - 9kW - 660V
Hydrolek Manipulator Hand Held Control Unit
Sea Eye Digital Remote Control Unit
Canford Master Station
Stand Alone System Computer - Windows PC
Data Logging Software - on System Computer
19" Rack Space
SML Telemetry Monitor Unit
Sea Eye Surface Control Unit



SMART SUBSEA SERVICES



Beaumont House, Beaumont Street, Darlington, County Durham, DL1 5RW, United Kingdom

Tel: +44 (0)1325 387 480 Email: enquiries@modus-ltd.com

Modus Ltd. accepts no responsibility for and disclaims all liability for any errors and/or omissions in this publication. Specification subject to change without notice. Feb 2019.

