



## Observation Class Electric ROV

XLe Spirit is the first of a new generation of observation class ROVs from Forum Energy Technologies. The vehicle embraces the latest advances in ROV technology that the industry has come to demand and expect from modern ROV design. XLe Spirit is compact in design and is primarily suited to observation and inspection tasks. The vehicle is powerful enough to perform maintenance and repair duties with use of the optional electric or hydraulic five function manipulator arm.

- Forum ICE™ Integrated Control Engine, Real-time Control System as used on work-class ROVs
- Wide range of auto pilot and pilot assist modes
- Ergonomic Control Panel
- Ethernet telemetry; IP based architecture
- Modular design – common across XLe range
- Smart power distribution system – lightweight, high voltage low loss transmission
- Free flying or with TMS

Depth Rating 1000 m maximum

Power 8 kW

Weight 200 kg

# XLe Spirit

## Specifications

### Dimensions & Performance

Depth Rating:	1000 m
Weight in Air:	200 kg (including payload)
Length:	1100 mm
Width:	725 mm
Height:	715 mm
Power at ROV:	8 kW

Payload:	35 kg lead
Through Frame Lift:	75 kg

Thrusters Horizontal:	4 x SPE-75
Thrusters Vertical:	2 x SPE-75

Thrust:	
fwd/aft:	72 kgf
port/stbd:	42 kgf
vertical (up):	40 kgf

Speed	
Forward:	2.9 knots
Lateral:	1.8 knots
Vertical:	1.7 knots

Auto Functions  
(Heading, Depth, Altitude\*, Dynamic Position\*)  
\*subject to equipment fit

### Video, Serial, Power & Fibre Optic Channels

- 14 available control PV connectors
- All with isolated RS232/RS485
- All can switch/isolate 24 Vdc at 5 A max
- 2 with 10M/100M/1000M Ethernet
- 2 with responder triggers
- 4 with SD composite video
- All with selectable current trip level, short circuit protection, current monitoring
- Total 1.75 kW available
- 3 isolated CP probe interfaces
- Ground Fault Monitoring

Optional Survey Interfaces for:

- 48 Vdc supply
- 120 Vac supply
- Additional fibres/CWDM channels
- HD-SDI video
- Ethernet (switchless)

### Surface Control System

- Utilizes the Forum ICE™ Integrated Control Engine
- Windows® based HMI Computer
- Dedicated real-time controller
- Intuitive Graphic User Interface (GUI), user configurable
- Advanced interactive graphical diagnostics
- Ergonomic pilot hand control unit

### System Standard Equipment

- Depth sensor (accuracy 0.3 m)
- Integrated AHRS
  - Pitch and roll <0.2°
  - Heading <1.0° (gyro stabilised slaved magnetic compass)

### Standard equipment

- Electric Tilt Unit with position feedback

### System Options

- Video Cameras – SD (composite)
- Video Cameras – HD or SD (IP)
- Stills Cameras
- Dimmable LED lights
- Echosounder
- 2D Multibeam Sonar
- Obstacle Avoidance Sonar
- Scaling Lasers
- CP Probes
- Fluorimeter
- North Seeking Gyro

- Responder
- Flasher
- Pinger

- Mort Pusher
- Fixed Hook
- Survey Booms
- Cleaning Brush

### Skid Options (75kg through frame lift)

- 5-function Manipulator
- HPU
- Profiling Sonar
- DVL
- Sub-bottom profiler
- Pipe Rollers
- Bathymetry
- etc.

### Surface Options

- DVR
- Control Van
- Workshop/Stores Van

### System Options

- Garage Type TMS
- Launch and Recovery System
- Training

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The specification details are illustrative and are for marketing purposes only. Actual equipment may be different as a result of product improvement or other reasons. Specific interface and performance information should be reconfirmed at time of order placement.

SU1018.05.2018