SEAVIEW SYSTEMS

Solutions in depth

1000m Seaeye Falcon DR

SeaView Systems' 1000m depth-rated Falcon DR ROV by SAAB Seaeye Marine is a powerful yet portable, highly versatile system ideal for performing both very long distance tunnel and pipeline inspections as well as offshore inspection and light intervention tasks. A compact and highly maneuverable vehicle with a fiber optic data transmission system, it can be fitted with a variety of tooling options.

The ROV

The Falcon uses four vectored thrusters for horizontal propulsion in addition to a vertical thruster, giving it increased ability to handle high water currents over more traditional axial/lateral thruster configurations.

The Falcon DR's open architecture makes for easy access and addition of standard tooling accessories, although further tooling kits can be added by fitting an under-slung module.

The entire system can be air freighted as four packages with total weight of approximately 2500lbs (1200kgs).

By using SeaView Systems' in-house developed lifting umbilical winch and deployment cage system, we can dive to 1000msw (3300ft). In addition to deep vertical dives, we are able to perform long distance pipeline inspections such as hydroelectric penstocks and aqueducts out to 10,000ft.

Dimensions:
The dimensions shown here are "as delivered". We can build a custom frame to allow the ROV to be fitted into manholes through which the standard ROV will not fit.
Height: 20"/635mm
Width: 24"/600mm
Length: 39"/1055mm

ROV weight: 220lbs/100kgs

Total system weight:
Approximately 2500lbs/1150kgs (1000m lifting umbilical winch/four packages)

Telemetry:
Fiber optic umbilical/tele-metry system capable of providing at a minimum:

- 3 x video channels
- 4 x RS232 channels
- 2 x RS 485 channels (currently one used for telemetry and other to operate sonar)
- Ethernet

Lighting:

- 2 each 75 W halogen lamps on camera following tilt mechanism
- 2 each 150 W halogen lamps fixed

Thrust:

- Seaeye brushless DC thrusters.
- Max Fwd thrust: 110lbs/50kgf
- Max Lateral thrust: 62lbs/28kgf
- Max Vertical Thrust: 29lbs/13kgf

9890 Huron Creek Drive
Dexter, MI, 48130
734-426-8978
info@seaviewsystems.com
www.seaviewsystems.com