



SAAB Seaeye Falcon DR

Technical Specifications



GLOBAL

SEAEYE FALCON DR OVERVIEW

The Seaeye Falcon DR is the choice of many leading operators for capability, versatility, and the ability to get the job done. Lightweight and portable - it goes where it's needed; inshore, offshore, down tunnels, or for flyaway operations. The Falcon DR is made of robust, buoyant material that is easily drilled and machined to be corrosion free. The open frame design allows easy access for service and maintenance.

Brushless DC thrusters have drive electronics with velocity feedback for precise and rapid thrust control. A distributed intelligence control system eliminates the need for the traditional ROV electronics pod packed with interface circuit boards - freeing up space and significantly reducing the weight of the vehicle. Three forward-facing, variable-intensity 3200 Lumen LED flood lights are fitted and powered at low voltage to improve reliability and longevity. The forward-facing lights tilt with the camera for improved scene illumination. A high-resolution, fixed-focus camera is fit to a platform that can be tilted ± 90 degrees. The fiber optic addition provides three simultaneous video channels

The Falcon DR has a 19-inch transportable rack case that houses its switch mode power supplies, control system, keyboard, and fold-out 15-inch LCD monitor. All connections to the surface unit are on the front panel for easy access; including the hand controller. The power output from the surface unit to the umbilical is a galvanically isolated 500 VDC protected by a line insulation monitor (LIM). A single-phase universal auto sensing input, 100-270 VAC at 2.8kW, is required for the input power.

SPECIFICATIONS

SPECIFICATIONS	FALCON	FALCON DR
System power requirements	Single phase 100-270 VAC at 2.8 kW	Single phase 100-270 VAC at 2.8 kW
Maximum umbilical length	450 m	1100 m
Depth rating	300 msw	1000 msw
Length	1000 mm	1055 mm
Height	500 mm	635 mm
Width	600 mm	600 mm
Launch weight	60 kg	100 kg
Forward speed	> 3 knots	> 3 knots
Thrust forward	50 kgf	50 kgf
Thrust lateral	28 kgf	28 kgf
Thrust vertical	13 kgf	13 kgf
Payload	14 kg	15 kg



FALCON DR WITH 5 FUNCTION MANIPULATOR SKID