



Falcon Remote Operated Vehicle Features

- 300 metre depth rating, 16 kilo payload
- Magnetically coupled brushless DC thrusters with velocity feedback loop
- 4 vectored and 1 vertical thruster
- 50 kgf thrust with 1:1 power to weight ratio
- Distributed intelligence control system
- Integral system diagnostics
- High resolution colour camera on 180° Tilt Platform
- Variable intensity 150 watts of lighting plus Light on Camera Tilt, 75w 48v
- Auto heading, depth, compass and rate gyro
- Portable surface control system with video overlay and daylight readable display
- Low drag umbilical
- Single phase A/C power input - universal 100-270 VAC at 2.5 kw
- Standard Surface Control Unit
- Surface Power Supply Unit
- Hand Control Unit
- Single Function Manipulator, Integration

Vehicle Specifications

Maximum Working Depth	300 msw
Length	1000 mm
Height	500 mm
Width	600 mm
Launch Weight	50 kg or 62 kg with additional buoyancy module fitted
Thrust Forward	50 kgf
Thrust Lateral	28 kgf
Thrust Vertical	13 kgf
Payload	16 kg with additional buoyancy module fitted



Umbilical

- Proprietary Cable with TPR Jacket and additional twisted pair
- Vectran Strain Member – 530 kg Breaking Strain 16mm Dia.
- 4 x Screened Twisted Pairs of Telemetry, Sonar Video & Spare or 2nd Video
- 4 x Power Conductors
- 1 x Discrete Conductor for CP Reference



Surface Equipment

Power Requirements

Single phase "Universal Input" of between 100VAC - 270VAC at 2.5kw (compatible with generators fitted with auto voltage regulation).

Standard Surface Unit

The Falcon's power supply unit, processors and video systems are rack mountable and supplied in portable enclosures. The power supply unit provides a galvanically isolated 500VDC output protected by a L.I.M. All equipment is fitted into a transit case complete with handles and heavy splash-proof covers.

Standard Hand Control Unit

Falcon's Standard Hand Control Unit (HCU) is formed within a rugged case and contains all the ergonomically designed vehicle controls.

Dimensions

Height	180 mm
Width	280 mm
Depth	120 mm
Weight	0.5 kg



Video Overlay

A Video Overlay system is incorporated as standard providing the following information to the pilot:

- Compass heading
- Depth
- Camera tilt position
- Auto pilot function status
- Tether turns counter
- Free Text using a QWERTY keyboard

Specifications subject to change at owner's discretion