

SUB-fighter 15 k Survey Specification ROV

Vehicle

LWH 196 x 82 x 92 cm

Frame

Anodized aluminium

Housings

3 x 1 ata.

Weight

530 kg

Payload

20 kg. approx.

Standard working depth

700 m. (3000 m.)

Buoyancy

Solid cell structure

Power input

230/400/440/690 V AC, 3 phase,
20 kW

Thrusters

Horizontal 4 x 2000 W

Vertical 2 x 2000 W

Lateral 1 x 2000 W

Thrust 400 - 450 N

Electronic resettable overcurrent protection

Speed approx.

Horizontal 3,5 knot

Vertical 1,9 knot

Lateral 1,2 knot

Turn 60 deg/sek.

Viewing P/T

Pan 0-90 degrees

Tilt angle 0-120 degrees



Camera

5 x camera interfaces

Camera 1

Low light colour camera

PAL 520 TV lines 0,1 lux.

Camera 2, option

Zoom camera

Colour CCD,

PAL, 580 TV lines, 1 Lux

18 x optical 4 x digital zoom

Light

4 x 250W halogen light

3 channel light dimmer

HMI gas light 2 x 400W

Sensors

100 bar depth sensor

fluxgate compass

leakage detectors

Other

Auto depth

Auto heading

Auto traction (option)

Digital control of thrusters and lights

Telemetry

Focal 907

Fibreoptic multiplexer

3 x 8bit video channels

6 x RS 232/485 channels

Survey Channels on bulkhead

1 x RS 232, 24 V
1 X RS 485, 24 V

Manipulator skid

Skid with EH5 manipulator
HPU, 140 bar
Valve pack, 7 channel

Height 21 cm. Width 80 cm.
Length 150 cm.
Weight dry, 60 kg.
Weight in water, 20 kg.



Surface equipment

Splash proof 19` rack

Consisting of:

PC

Power remote control

Video matrix 8 channel

Viga Option overlay system.

Data presentations of, depth, heading, date, time, twist counter, video grabber and screen writer.

DVD and HDD video PC recorder

Connections for umbilical, sonar, control console, RS 232 communication ports

Digital instruments, Volts, Amps and HZ.

Height 45 cm. Width 54 cm.
Length 60 cm. Weight 42 kg.

Video and data screens, 4 x 17" HD

Height 374/424 mm. Width 1670 mm.
Length 170 mm.. Weight 40 kg

Power control and fuse cabinet

Steel cabinet

Power input 230V 50 HZ. 3 phase, 20kW.

Transformer 230 V / 990 V AC.

Fuses and ground fault system

Connections for umbilical.

Height 26 cm. Width 40 cm.
Length 60 cm. Weight 19 kg.

Transformer

Transformer in steel cabinet

Height 55 cm. Width 40 cm.
Length 45 cm. Weight 146 kg.

Control console

Cabinet, glass fibre portable console

ROV pilot control console with two XY joysticks for thrusters control.

Switches for camera, light, manipulator, remote functions on ROV, and other external functions.

Height 20 (40) cm. Width 21 cm.
Length 43 cm. Weight 4 kg.



Umbilical 400 m. (sinker)

Kevlar armoured cable.
Length 400 meters.
Weight in air 10 kg./100 m.
Weight in seawater negative
Outer diameter 7,6 mm.
2 x single mode fiber
Break strength 10kN

Tether 1000 m. (neutral cable)

Kevlar armoured cable.
Length 1000 meters.
Weight in air 29 kg./100 m.
Weight in seawater app. neutral
Outer diameter 18,5 mm.
4 x single mode fiber
Break strength 800 kg

Winch

Winch 1, 1000 meter sinker cable

Height 105 cm. Width 82 cm.
Length 105 cm. Weight 230 kg.

Winch 2, 1000 meter tether cable

Height 105 cm. Width 82 cm.
Length 1700 cm. Weight 430 kg.

Additional equipment

- Lights, halogene, LED, HMI gas light
- HD camera
- Black/White super low light
- Colour zoom camera
- Laser
- Sonar
- Navigation, HPR
- Video enhancer
- Survey channels, RS 232, RS 485
- Electric manipulator/ropecutter
- Hydraulic Manipulator
- Tether storage winch

- Several other equipment available.

