
SPECIFICATIONS

Vehicle

Operational Depth:	0 to 600 ft. (183 meters) standard, 0 to 1000 ft. (300 meters) optional.
Size:	
Length:	34 in. (86 cm) with skids.
Width:	18.5 in. (47 cm).
Height:	16.5 in. (42 cm) with lift bail.
Weight:	75 lbs. \pm 5 (34 kg) dependent on options.
Forward Speed:	2.9 knots in still water, proven operable in currents up to 1.5 knots.
Payload:	8 to 12 lbs. (3.6 to 5.4 kg), user adjustable.
Buoyancy:	\pm 1 lb. (.45 kg) in seawater.
Stability:	Inherent low center of gravity in roll and pitch.
Magnetic and Acoustic Signatures:	
Magnetic:	\pm 28 gamma RMS (ref. 1 meter).
Acoustic:	+ 30 dB peak above ambient (ref. 1 meter/1 micropascal).

Surface Power Unit

Size:	
Height:	9.5 in (24 cm).
Width:	22 in. (55 cm).
Length:	26 in. (66 cm).
Weight:	61 lbs. (27.8 kg) max. shipweight.

Ruggedized Hand Controller

Size:	
Height:	6.5 in (17 cm).
Width:	12 in. (30 cm).
Length:	6 in. (15 cm).
Weight:	5.0 lbs. (2.28 kg).

Viewing System

TV Camera:	Low-light, high resolution color TV camera, pan & tilt with 4.8 mm/f 1.6 auto iris lens, NTSC or PAL available.
Sensitivity:	1 ft. candle (10 lux)—color. .5 ft. candle—B/W.
Horizontal Resolution:	340 lines typical.
S/N Ratio:	46 dB typical.
Lens Viewing Angle (in water):	Horizontal 86°, \pm 5°. Vertical 58°, \pm 5°.
TV Pan/Tilt:	\pm 55° from center, speed of 45° per second, servoed to operators control position.
Lights:	Two 150 watt long-life quartz halogen lamps with remote On/Off at control console (250 watts or variable intensity optional).

Propulsion

Horizontal:	Two thrusters for FWD, REV, CW, CCW movements with 11 lbs. (4.8 kg) max. thrust each.
Lateral:	One thruster mounted in tunnel under main hull for lateral left/right move- ments, 3 lbs. (1.4 kg) of thrust peak.
Vertical:	One thruster, centrally located, mounted in tunnel through main hull, 10 lbs. (2.4 kg) of thrust peak.

Umbilical Cable

Length:	500 ft. (152 meters) standard, 1500 ft. (456 meters) max.
Weight in Water:	13 lbs. per 1000 ft. (5.9 kg per 304 meters), neutral buoyancy cable optional.
Strength:	850 lbs. (388 kg) breaking.
Construction:	Outer abrasion jacket of TPR over Kevlar strength member, flexible \pm 60°C.

One high quality COAX (75 ohms imp), 14 #26 AWG separately insulated conductors, all 600 V rated, paired and grouped as required by user with field repairable terminations.

Support Requirements

Power:	100/120/208/240 VAC \pm 10%, 50/60 Hz, 1 kw max.
Crew:	One pilot/technician, one pilot/tender.
Generator:	1500 watt min. capacity, recommend- ed with 3½ hr. min. fuel capacity.
Transport:	Two man portable, all components in shipping cases, for use on any suitable vehicle or craft.

Navigational Aids/Data Displays

Depth:	Analog strain gauge pressure sensor.
Range:	0 to 999 ft. (300 meters).
Display:	3 digit and analog bar graph.
Accuracy:	\pm 0.5%.
Resolution:	1 ft. (.3 meters).
Heading:	Flux gate magnetic sensor.
Range:	0° to 359°
Display:	3 digit and compass rose.
Accuracy:	\pm 2.0% max.
Resolution:	2° typical.

Note: All navigational aids and data are displayed on pilot's TV monitor via user friendly videographics unit. 10 unused 0-5 VDC analog channels available.

Data Display

Date/Time:	Hours, minutes, seconds, day, month, year (bat. backup).
Umbilical Returns:	\pm 99 count.
Ref Depth Sensor:	\pm 50 ft.
Relative Altitude Depth:	Reset on front panel.
Auxiliary inputs:	Two analog input channels, 0 to 5 VDC 12 bit resolution, displayed as 4 digit on lower screen (each).

