

System Specifications

Performance

Maneuverability:	3-axis translation
Horizontal speed:	4 knots on surface with minimal tether deployed
Operating depth:	300 m (984 ft) of seawater

Physical Characteristics

Size:	29.8 cm (11.7 in) high 40.6 cm (16 in) wide 68.6 cm (27 in) long
Weight:	23.5 kg (51.8 lbs) for standard 2-horizontal thruster configuration, excluding ballast and installed options

Thrusters

Horizontal:	Two 1 HP magnetically coupled brushless DC motors
Forward static thrust:	18.1 kg (40 lb) per thruster
Reverse static thrust:	10.4 kg (23 lb) per thruster
Vertical:	One 1/3 HP magnetically coupled brushless DC motor
Forward static thrust:	8.2 kg (18 lb) per thruster
Reverse static thrust:	4.1 kg (9 lb) per thruster
Lateral (optional):	One 1/3 HP magnetically coupled brushless DC motor
Forward static thrust:	8.2 kg (18 lb) per thruster
Reverse static thrust:	4.1 kg (9 lb) per thruster
Propeller:	Stainless Steel
Nozzle:	Nylon Kort

Viewing System (Both cameras mounted in Lexan tube)

Camera 1:	High resolution color video - NTSC
Resolution:	470 lines
Sensitivity:	1.0 lux
Tilt mechanism:	180° for both cameras simultaneously
Camera 2:	High resolution B/W video - NTSC
Resolution:	600 lines
Sensitivity:	0.003 lux
Lights:	Variable intensity LED arrays - 1 Port & 1 Starboard – External to camera enclosure

Optional Rear Facing Camera

Camera Option A:	High resolution color video- NTSC
Resolution:	480 lines
Sensitivity:	0.01 lux

Sensors

Pitch/Roll:	±20°, 0.2° resolution
Heading:	0–360°, 1° resolution
Depth:	±1° of operating depth

Surface Control Unit & Vehicle Power Supply

Physical Characteristics

Size:	37.1 cm (14.6 in) high 56.2 cm (22.1 in) wide 56.0 cm (22.0 in) long
Weight:	41 kg (90 lbs)

Electrical Specifications

Input Power Requirements:	100–130 VAC or 200–250 VAC, 47–63 Hz, auto-sensing - single phase, 3000 Watts - 5000 VA maximum, depending on installed options. Adjustable current limiting for use with small generators
Output Power to Vehicle:	150-300 VDC 12 Amps - isolated, regulated at vehicle

