

7 FEET SU-1: SWIFT UNDERTAKER-1

ISR MISSIONS. MINE COUNTERMEASURES.
ENVIRONMENTAL SURVEY.

The SU-1 is a small Unmanned Underwater Vehicle (UUV) designed for high endurance and extended autonomous operations. It features a robust aluminum structural frame combined with a durable HDPE outer shell and a free-flooding hull design that minimizes buoyancy complexity and improves reliability. The system incorporates a low-power architecture with small-aperture sensing, modular payload sections, and two-way communications to support flexible mission configurations.



LENGTH	BEAM	MAX DEPTH	SPEED	RANGE
7 ft. (2.13m)	1.6 ft. (0.49m)	330 ft. (100m)	Up to 30 knots	250 NM (@ 3 knots)



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SPECIFICATIONS



CHARACTERISTICS

- **Length:** 7 ft. (2.13m)
- **Beam:** 1.6 ft. (0.49m)
- **Max Depth:** 330 ft. (100m)
- **Range (@ 3 knots):** 250 NM
- **Speed:** Up to 30 knots
- **Weight:** 100 lbs. (45 kg) NP
- **Battery:** Modular
- **Battery (Capability):** 15.5 kWh
- **Type:** 6x2.5 kWh [Lithium-ion]

MACHINERY

- **Propulsion:** 48V DC Elec. [2,400 RPM]
- **Thrusters:** 2 axial, and 2 vertical
- **Rechargeable:** Up to 60 min

ELECTRONICS

- **Guidance:** PCB/Micro Controls [RS485]
- **NAV:** Fusion of DVL, INS, and Altimeter
- **Situational:** Gemini 1200ik FLS
- **Comms:** Iridium [9603N]
- **Modem:** RockBLOCK [9603]
- **Altimeter:** ISA500 w/AHRS
- **BMS:** Integrated for Hotel Loads
- **Antenna:** Shakespeare [5912]

OTHERS

- **Mission:** ISR
- **Data Management:** 4GB [Flash]
- **Software:** GUI-based Tool Suite
- **Transportable:** Air, Sea, or Land
- **TRL:** 7 (Craft), and 7 (Technology)
- **Positioning:** Acoustic/RF [40-600 ft.]
- **System:** Bathymetric/Quick-look GPS
- **Sensor:** EM and EO/IR

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