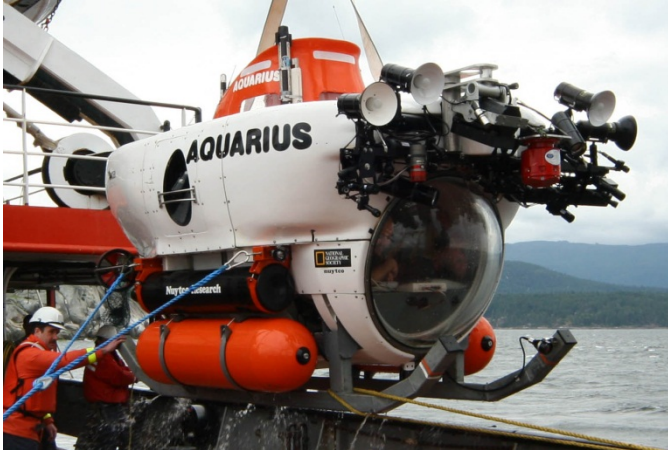




AQUARIUS



The **Aquarius** submersible can take a pilot and two passengers to depths up to 1000 ft (300m). With a huge 40' (100cm) acrylic viewport, **Aquarius** is an ideal platform for scientific and commercial surveying or tourism. Seven-function manipulator offers functional dexterity. Sampling, measuring and tracking suites make **Aquarius** an excellent choice for scientific expeditions; HD camera, high density video storage, studio sound and adaptable lighting array make **Aquarius** the go-to platform for film and TV work.

Submersible Specifications

General:

- Operating depth: 1000 feet (300m)
- 1 pilot, 2 observers
- Pressure hull of A516 grade 70 steel
- Weight in air 4.5 tons
- Length: 13.6 ft. (4.1 m)
- Beam: 6.0 ft. (1.8 m)
- Height: 6.6 ft. (2.0 m)
- Payload: 1,000 lbs (455 kg)
- Max Speed: 3 knots

Life Support:

- Redundant O2 systems, total capacity 240 man hrs
- Carbon dioxide removed via scrubbers
- Emergency breathing gas via air BIBS

Propulsion:

- Two horizontal thrusters and two vertical thrusters
- Buoyancy provided by 3 soft tanks, providing 1325 lbs buoyant lift.

Viewing:

- One 40 inch (100 cm) acrylic viewport
- Four surface navigation ports

Communication:

- Surface: ICOM VHF
- Sub-surface: UQC and 27 KHZ Acoustic

Power Source:

- 12 KW @ 240 VDC main, 500 Watts 12/24 VDC by converter

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Manipulators:

- Seven-function
- Expanded manipulator suite optional

Emergency Equipment:

- Drop weight jettison capability
- Emergency battery (for comms and CO2 scrubber)

Optional Equipment:

- HD Camera, H.264 (Blu-Ray Codec) camera
- SONAR, modified Imagenex, standard scan and ultra-high resolution short range scan
- Tracking Beacon
- Strobe/RF/Iridium beacon

- Magnetometer
- Jetting/dredging pumps
- Sampling equipment
- Precision laser measuring system
- Pipe tracker
- Lift bag salvage module
- U/W cutting module
- Acoustic thickness/CP/EMF Probe
- 27 KHZ directional hydrophone
- Direction finder/transmitter
- 27 KHZ pinger
- Xenon strobe
- Clamp/grabber arm
- Assorted hydraulic tools

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