At Ocean Aero, we’ve developed the TRITON (gen III), the world’s first and only Autonomous Underwater and Surface Vehicle (AUSV) that both sails on, and dives below, the ocean’s surface. Powered solely by the wind and sun, the TRITON is ideal for extended deployment and broad scope mission execution that exceeds the capabilities of other uncrewed platforms limited to a single ocean domain. A versatile system architecture means we can craft niche payloads for your specific applications or take any of our pre-packaged sets off the shelf. Intelligent autonomy software manages the TRITON for you, so you can focus on analysis, mission planning, and other valuable tasks.

**Autonomous**

Way-point driven mission planning
Agnostic to payloads
Intuitive GUI
Low radar & visual signature
100% American owned
Made in the USA
The Triton

Max Submergence Depth: 100m/328ft
Max Surface Speed: 5 knots
Max Subsurface Speed: 2 knots
Weight: 350kg / 775 lb
Length: 4.4M / 14.5 ft
Water line to top of sail: 3m/10ft
Water line to keel bottom: 1.5m/5ft
Hull width: 0.8m / 2.66ft
Battery power: 4kWh
Solar collection: 200W
Comms: Iridium, Wi-Fi, 900Mhz, Mesh
Payload: 50lb body, 25lb Keel, 8lb wing
Surface Endurance: 3+ months
Subsurface Endurance: 5+ days (min power)

Core Specs

Defense

ISR (Intelligence, Surveillance, Reconnaissance)
MCM (Mine Counter- Measures)
ASW (Anti-Submarine Warfare)

Avoid detection while being a force multiplier. Easy logistics, launch, and recovery.

Research

Ocean Acidification / Water Chemistry
Apex Predator Monitoring
Marine Mammal Monitoring
Cultural Heritage
Fishery Counts / Habitat Monitoring / IUU
METOC / Hurricane Observation
Seabed Mapping
Vessel Traffic Monitoring

Strengthen Monitoring, Control, & Surveillance (MCS) capabilities. Avoid threats of collision and vandalism.

Energy

Visual surface platform inspections (pre/post storm assessments)
Hydrocarbon-driven leak detection
Oil field security (visual)
“Shallow-water” flowline inspection (<200 meter)
Vertical riser inspection
Pressure Inverted Echo Sounder data collection

Replace tethered ROVs for monitoring. Feed predictive analytic algorithms with more and better data.