

HSMUSV

HIGH SPEED MANEUVERABLE UNMANNED SURFACE VESSEL



Multi-Payload USV Designed and Built by Metal Shark
with Unmanned, Human-in-the-Loop Technology by

SHARKTECH
UNMANNED SYSTEMS



Metal Shark's High Speed Maneuverable Unmanned Surface Vessel (HSMUSV) is a 21-foot military craft designed to offer the US Armed Forces and allies a low-cost multi-payload USV solution that can be rapidly produced and quickly fielded to meet emergent needs.

As opposed to the technology-retrofit approach taken in most USV conversions, HSMUSV comes factory equipped with proprietary hardware and software developed in-house by Metal Shark's SharkTech Unmanned Systems division. HSMUSV's onboard system enables unmanned human-in-the-loop operation, with a modular design supporting industry standard protocols enabling rapid integration with other systems (e.g. UMAA, MOOS-IVP, DDS, ROS, etc.) to bolt on additional capabilities (e.g. COLREGS, ATR, etc.)



HSMUSV's forward and aft payload bays can support tethered or untethered UAV systems, surveillance or munitions systems, or organically explosive charges

HSMUSV - KEY SPECIFICATIONS

LOA.....	25' 6"
BEAM.....	8' 1"
DRAFT.....	1' 9"
FUEL CAPACITY.....	200 Gallons
DRY WEIGHT.....	7,500 Lbs
PROPULSION.....	Single 225 HP 4-Stroke Outboard Multiple Gas & Diesel Options Available
SPRINT SPEED.....	38 Knots
CRUISE SPEED.....	25 Knots
RANGE (AT CRUISE).....	500 NM
PAYLOAD CAPACITY.....	750 Lbs.
LOITERING ENDURANCE.....	Up to Ten Days
ELECTRICAL.....	Lithium-Ion and Diesel Generator Options
AUTONOMY.....	HSMUSV supports multiple COLREGS, ATR, and AI software packages



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HSMUSV's SharkTech system provides remote operators with an intuitive graphic interface for command-and-control and situational awareness. It transmits and displays real-time vessel telemetry, contacts, mission status, and video while transmitting operator commands over line-of-sight (HF radio) and beyond-line-of-sight (Starlink satellite) links to the vessel. It also sends this data over a secure VPN tunnel for integration into HQ operations. Operators can control the HSMUSV via desktop systems in operations centers or through a portable helm control station.

HSMUSV is a brand-agnostic platform and will readily support most available autonomy systems in place of the native SharkTech system.



HSMUSV's end-to-end hardware and software solution allows the interface with other autonomy packages to be limited to computer code loading and configuration.

HSMUSV - BASIC EQUIPMENT

- 225 HP Four-Stroke Outboard Engine (multiple gas and diesel propulsion options available)
- Forward & Aft Payload Bays
- Folding Sensor Mast
- SharkTech Unmanned Hardware & Software
- Furuno DR54D-NXT Radar
- VSP6337L VeroStar Triple-band GNSS
- FLIR M364C Thermal Imaging System
- Mobility 22G Fixed Cameras
- Starlink Satellite / HF Radio Comms
- Certus Position, Acceleration, Velocity & Orientation Sensors
- Paguro 4000 3.2kW Diesel Generator (Lithium-ion options available)
- Portable Helm Control Station
- Command and Control Package for Desktop Systems
- HSMUSV may be fully customized to meet various mission requirements



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Designed by Metal Shark, powered by innovation,
and proudly built in Louisiana, USA in support of those
who protect and serve.



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