HII’s second generation medium-class UUV is now available for delivery, with enhanced endurance, mission capacity and Odyssey™ advanced autonomy. But that’s just the beginning.

How we offer unmatched capability

Designed for greater efficiency and modularity, coupled with field-proven reliability, the REMUS 620 is the longest-reaching UUV in its class. With a battery life of up to 110 hours and a range of 275 nautical miles, it delivers unmatched multi-day endurance, range and stealth. Its modular, open architecture design and seamless payload integration, allow you to easily shift between any mission, above or below the surface, including mine countermeasures, hydrographic surveys, intelligence collection, surveillance and electronic warfare.

The ultimate in versatility

Multiple REMUS 620s operating collaboratively, can be deployed from submarines, small manned or unmanned boats, amphibious ships, surface combatants, and helicopters. REMUS 620 can also be used as a platform to launch and operate other unmanned vehicles or payloads from beneath the sea—whatever your mission requires. Plan, monitor and analyze any of these missions with the new Odyssey™ Mission Management Software, part of the HII Odyssey™ suite of advanced autonomy solutions.

Key Features

- Dry or wet customizable primary payload modules
- Externally accessible universal bulkhead adapters for secondary payloads
- Open standard interfaces between modules
- High accuracy navigation
- Replaceable battery modules for endurance and flexibility
- Cyber ready
### Vehicle Specifications: Three Rechargeable Battery Options

<table>
<thead>
<tr>
<th>Lithium-Ion Battery Options</th>
<th>(1X Battery) 9.6 kWh</th>
<th>(2X Battery) 19.3 kWh</th>
<th>(3X Battery) 28.9 kWh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>32.4 cm (12.75 in.)</td>
<td>32.4 cm (12.75 in.)</td>
<td>32.4 cm (12.75 in.)</td>
</tr>
<tr>
<td>Recharge Time In Vehicle</td>
<td>12 hours</td>
<td>12 hours</td>
<td>12 hours</td>
</tr>
<tr>
<td>Vehicle</td>
<td>8 hours</td>
<td>10 hours</td>
<td>12 hours</td>
</tr>
<tr>
<td>No Payload</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length &amp; Weight*</td>
<td>3.1 m (123 in.) / 222 kg (490 lb.)</td>
<td>3.9 m (155 in.) / 290 kg (639 lb.)</td>
<td>4.8 m (187 in.) / 358 kg (789 lb.)</td>
</tr>
<tr>
<td>Endurance &amp; Max Range**</td>
<td>42 hours / 200 km (110 nm)</td>
<td>80 hours / 370 km (200 nm)</td>
<td>110 hours / 500 km (275 nm)</td>
</tr>
</tbody>
</table>

### Kraken Aquapix MINSAS 60 (Dry Payload)

| Length & Weight*           | 3.8 m (155 in.) / 267 kg (590 lb.) | 4.6 m (185 in.) / 335 kg (739 lb.) | 5.4 m (215 in.) / 403 kg (889 lb.) |
| Endurance & Max Range**    | 30 hours / 145 km (78 nm) | 55 hours / 270 km (146 nm) | 78 hours / 380 km (205 nm) |

### Kraken Aquapix MINSAS 120 (Wet Payload)

| Length & Weight*           | 4.3 m (170 in.) / 284 kg (625 lb.) | 5.2 m (205 in.) / 351 kg (774 lb.) | N/A |
| Endurance & Max Range**    | 26 hours / 130 km (70 nm) | 50 hours / 245 km (132 nm) | N/A |

### Standard Specifications, Sensors and Payloads

- **Depth Rating**: 600 m (1969 ft.)
- **Energy**: UN Certified Li-Ion Battery Module with 9.6 kWh of energy. Includes battery fault detection and built in emergency features. All energy modules are identical and swappable.
- **Propulsion and Control**: Direct drive DC brushless motor, 2-blade propeller with shroud; three independent control fins providing yaw, pitch and roll control.
- **Acoustic Communications**: WHOI micromodem 2.0 low frequency (8-16 kHz) acoustic communications.
- **RF/Visual Communications**: Single antenna includes Iridium capable with encrypted Iridium dial-up & SMS modem (Customer provides SIM card), L1/L2 GPS, WiFi, LED status lights and visible & infrared (IR) recovery locating strobe.
- **Navigation**: iXblue Phins C7 Inertial Navigation System (INS) with accuracy to 0.01% distance travelled (CEP50); Teledyne RDI 300 kHz phased array DVL with 500m bottom lock, Navatel commercial GPS; Long Baseline (LBL); DVL-aided dead reckoning.
- **Environmental Sensors**: Conductivity & Temperature (CT) sensor; Depth sensor; Up to two AML Oceanographic environmental sensors available as options: Turbidity, Dissolved Oxygen, pH, Chlorophyll, A&B Blue Excitation, CDOM/FDOM, Fluorescein, Rhodamine, Crude Oils, Refined Fuels, Tryptophan, Optical Brighteners, Phycoerythrin (BGA).
- **Synthetic Aperture Sonar Options**: Kraken Aquapix® Interferometric Synthetic Aperture Sonar with bathymetry, constant resolution of 3 cm x 3 cm processed post-sortie (optionally real-time); Swath up to 236 m with MINSAS-60 & up to 440 m with MINSAS-120***.
- **Hard Drive & Payload Processor**: 4-16 TB Solid state hard drives with sufficient capacity to accommodate full duration sorties. Externally removable option available; NVIDIA® Jetson AGX Xavier™ Payload Processor.
- **Shore Power & Data Connections**: Gigabit ethernet; Vehicle power/charging/discharging.
- **Primary Payload Connections**: 2 x 325 watt capable and ethernet connections****.
- **Secondary Payload Connections**: 2 x pressure hull interfaces in Communications Module for custom payload options. Each with power, RS-232 Serial, and Digital I/O connections within the hull section.
- **Nose**: Comes standard with latch, pop float, and adjustable external ballast.
- **Warranty**: Standard 1 year warranty; Warranty options available.
- **Safety Features**: Ground fault detection; Leak detection; emergency locator beacon; Health Status; Built-in-Test (BIT), Built-in Emergency Features, Deluge Capable.
- **Operations Kit**: Includes: Vehicle Charging & Conditioning Station, Low Frequency Tow Fish, Surface Communications Station, Vehicle Cart, Laptop, Data Cable, Vacuum Pump, Ethernet Switch, and recommended spares parts for 2 weeks of shipboard operations.

### Other Available Features and Options

- **Cyber Capable**: Size, Weight, and Power allocated for Data-At-Rest and Data-In-Transit Encryption Hardware.
- **HDK and SDK**: Hardware & Software Development Kits available for integration of third-party payloads & autonomy.
- **Additional Software Applications**: SeeByte SeeTrack and Neptune; REMote CONtrol (RECON) Optionally Available.
- **Maintenance & Operations Kits**: Basic and Advanced Maintenance Kits Available; Additional Spares & Operations Equipment Available.

*Length & Weight are approximate
**Estimated range & endurance calculated assuming ideal environmental conditions w/o payloads & transit speeds between 2.5-3 knots. Actual results may vary.
***Improved SAS resolution down to 2 cm x 2 cm is available with Kraken’s Ultra High Definition post processing option (on-board real-time processing is limited to 3x3 cm resolution)
**** Additional connections and power may be available, contact HII for further details.