The KONGSBERG Sounder USV system is a multi-purpose unmanned surface vehicle system with a unique hull design to ensure high performance for hydroacoustic applications.

The Sounder USV supports quick and easy change of payload and is adaptable for both hull and bow mounted systems. KONGSBERG’s K-MATE autonomy engine provides safe navigation and control of the system, capable of direct remote control, supervised or autonomous operation*. A robust and reliable propulsion system and hull design ensures safe sailing for up to 10 days.

**Multi-purpose USV Platform**
With a spacious moonpool and rack mount, the Sounder USV System is a flexible and adaptive platform for different applications. The onboard power generation provides enough power to operate several payloads at once. The payload is installed in the moonpool, though customisation allows installation in the keel or even bow mounted equipment.

**It's all about the data**
Throughout the entire design process, focus has been on creating an optimal platform for hydroacoustic payload sensors, and maximum endurance while retaining the ability to transport the vessel in standard shipping containers, allowing for efficient deployment anywhere in the world. The hull shape ensures smooth sailing through the water, eliminating aeration and minimizing drag. A slim bow and the stabilizing fins dampen roll and pitch movement while the three rudders provide exceptional manoeuvrability.

The Sounder USV System is designed to perform for hydro-acoustic applications, from fish finding and fishery research to seabed mapping. With KONGSBERG’s range of sonars and echo sounders, the Sounder is a versatile platform for many applications; a holistic solution from the world leading manufacturer of professional sonars and autonomous vehicles.

*Our autonomous unmanned systems are designed to be compliant with current legislation with the caveat that we can’t predict all scenarios and outcomes. To enable safe operation we recommend real-time supervision of unmanned surface vehicles to promote best-practice and safe operations.
Applications:

**USBL POSITIONING**
- AUV USBL position aiding
- Seismic support
- LBL/USBL calibration and position fix

**MULTIBEAM ECHO SOUNDER**
- Hydrographic surveys
- Harbor surveys
- Search

**SCIENTIFIC AND RESEARCH**
- Custom payload installation in moonpool, hull or bow
- CTD measurement with winch

**FISHERY**
- SX95 fishery sonar for fish finding
- ES80/EK80 echosounder

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**Technical specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>8m</td>
</tr>
<tr>
<td>Beam</td>
<td>2.2m</td>
</tr>
<tr>
<td>Height</td>
<td>2.3/4.4m (mast down/up)</td>
</tr>
<tr>
<td>Draft</td>
<td>0.7m</td>
</tr>
<tr>
<td>Weight</td>
<td>4,200kg – ready to operate</td>
</tr>
<tr>
<td>Propulsion</td>
<td>125hp Steyr diesel engine with fixed pitch propeller</td>
</tr>
<tr>
<td>Speed</td>
<td>12 knots (max)</td>
</tr>
<tr>
<td>Endurance</td>
<td>10 days @ 4 knots</td>
</tr>
<tr>
<td>Payload power</td>
<td>&gt; 4 kW @ 4 knots</td>
</tr>
<tr>
<td>Control</td>
<td>K-MATE autonomy engine for direct, supervised and autonomous operation</td>
</tr>
<tr>
<td>Communication</td>
<td>Maritime Broadband Radio/Iridium (VSAT optional)</td>
</tr>
</tbody>
</table>

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