

Underwater Communication System Market Size, Share & Trends Analysis Report By Component, By Connectivity, By Application (Environmental Monitoring, Pollution Monitoring), By End-user, By Region, And Segment Forecasts, 2022 - 2030

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Abstracts

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Underwater Communication System Market Growth & Trends

The global underwater communication system market size is expected to reach USD 7.20 billion by 2030, according to a new report by Grand View Research, Inc. The market is anticipated to expand at a CAGR of 10.1% from 2022 to 2030. Underwater communication is a way of transmitting and receiving messages beneath the water surface. The use of acoustic waves rather than electromagnetic messages distinguishes underwater acoustic communication from terrestrial communication. The worldwide underwater acoustic communication market is being driven by increased undersea research operations, notably for environmental protection.

Underwater communications are classified into two types, namely, hardwired and wireless. Data is transported by cable in a hardwired connection. By removing the impact of outside elements, hardwired communications, comparable to a landline phone, provide the highest quality and most dependable kind of underwater communications. Water is used to convey data in wireless communication. Underwater wireless communications are used for environmental monitoring, underwater exploration, and scientific data collection.

One of the primary causes for the expansion of underwater communication systems is

an increase in defense spending by various countries. Threats, concerns about disputed territories, and security concerns have led to an increase in worldwide defense spending. The naval defense system relies heavily on underwater communication for safety and dependability. It is used by the military to detect incursions and perform underwater surveillance.

The following are some of the benefits of an underwater communication system:

Economy: Underwater communication systems are helpful for business applications, notably in the oil and gas industry. The ocean is rich with resources, and these systems are utilized to explore these riches. AUVs are employed in the oil and gas business, for example, to map the seabed before operations. This will keep these oil and gas professionals updated as they build pipelines and other infrastructure. This guarantees that their infrastructure is built without harming the environment.

Scientific Exploration and Data Collecting: These systems are also highly valuable to research because they are utilized for underwater exploration and data collection. It is employed in subjects such as marine biology, archaeology, and oceanology. The undersea discoveries might be valuable to the health sector as well as in the development of current innovations.

Environmental Monitoring: Underwater communication systems aid the government in environmental monitoring. The activities of corporations in the oil and gas sector can be monitored in terms of how they affect the environment. Environmental contamination may also be monitored and managed with these methods. Climate change is also detectable. Natural catastrophes can also be predicted by detecting early warning indications with these technologies. This minimizes the risk of such calamities occurring.

Autonomous underwater vehicles have also been used to locate wrecked aircraft and investigate the reasons for their crashes. The development of communication systems has led to the finding of the Titanic's wreckage as well as the discovery of hydrothermal vents in the deep ocean. These devices identify items that help in mapping and discovery underwater. They are also quite dependable for rescue operations.

In July 2022, the EU-funded SEASTAR project, a revolutionary idea that has the

potential to revolutionize the aquaculture business. SEASTAR tackles the sector's lack of total digitalization, compelling aquaculture operators to perform and monitor daily responsibilities manually or by using costly in-situ interventions. SEASTAR offers operators state-of-the-art internet of things (IoT) technology with miniature wearable sensors that are put on fish. The resulting system provides an innovative underwater wireless monitoring arrangement, allowing fish farmers to remotely monitor fish health in real-time and collect relevant data (cage structural integrity and water quality) for better forecasting, risk assessment, and management for the first time.

Underwater Communication System Market Report Highlights

The demand for underwater acoustic sensors to analyze various concentrations of pollution from chemical, biological, and radioactive contaminants is anticipated to propel the demand for underwater acoustic communication technology. Underwater acoustic digital signal processors and communications are a growing subject of applied research

In August 2022, Stanford University researchers developed a robot capable of diving deep into sunken planes and ruins. Its operators can have the same sense as OceanOneK's underwater trips. OceanOneK's 3D camera catches the underwater environment in vivid color, and its arms and hands can reach those of a diver

The wireless segment is estimated to hold the major market share and expand at a CAGR of 10.4% from 2022 to 2030

The oceanography segment is projected to grow at the highest CAGR over the forecast period

The military & defense segment is expected to grow at the highest CAGR over the forecast period

Key players in the market include Kongsberg, L3Harris Technologies, Inc., Thales, and Saab AB

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