

Global Military Submarine Photonics Mast and Antenna Market Growth 2023-2029

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Abstracts

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A submarine is a naval platform that can stay underwater for an extended period to carry out missions, both offensive and defensive. It is a complex platform that includes multiple components. As radio waves cannot propagate in water, communication with submarines is difficult. To overcome this issue, submarines are being installed with antennas that can be raised above the water surface level, and employ ordinary radio transmissions for communication. A photonics mast is a sensor on a submarine which functions similarly to a periscope without requiring a periscope tube, thus freeing design space during construction and limiting risks of water leakage in the event of damage. A photonics mast replaces the mechanical, line-of-sight viewing system with digital equipment, similar to a digital camera array, and it has fewer locational and dimensional constraints than a traditional periscope. Unlike a periscope, it need not be located directly above its user, and it requires only a small pressure hull penetration for cabling. This allows the photonics mast to fit entirely within the sail of the submarine and means the control room need not be placed directly below the sail. A photonics mast operates by rising above the water similarly to a telescoping car-antenna and provides information through an array of sensors, such as high definition low-light and thermographic cameras. Images and information can appear on display panels for analysis. The photonics mast can also support the navigation, electronic warfare, and communications functions of a conventional optical-periscope mast. Submarines require a suite of antennas to provide the necessary communications, navigation, and Identification, Friend or Foe (IFF) capabilities. Submarine antennas, as compared to surface ship antennas, are unique in design, shape, materials, and performance due to a submarine's space and weight limitations, extreme environmental conditions, and stealth considerations.

LPI (LP Information)' newest research report, the “Military Submarine Photonics Mast and Antenna Industry Forecast” looks at past sales and reviews total world Military Submarine Photonics Mast and Antenna sales in 2022, providing a comprehensive analysis by region and market sector of projected Military Submarine Photonics Mast and Antenna sales for 2023 through 2029. With Military Submarine Photonics Mast and Antenna sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Military Submarine Photonics Mast and Antenna industry.

This Insight Report provides a comprehensive analysis of the global Military Submarine Photonics Mast and Antenna landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Military Submarine Photonics Mast and Antenna portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Military Submarine Photonics Mast and Antenna market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Military Submarine Photonics Mast and Antenna and breaks down the forecast by type, by application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Military Submarine Photonics Mast and Antenna.

The global Military Submarine Photonics Mast and Antenna market size is projected to grow from US\$ 412.1 million in 2022 to US\$ 633.2 million in 2029; it is expected to grow at a CAGR of 633.2 from 2023 to 2029.

Global key players of military submarine photonics mast and antenna include Thales, L3Harris Technologies, Safran, Hensoldt, etc. Global top five manufacturers hold a share over 58%. In terms of product, photonics mast is the largest segment, with a share over 64%. And in terms of application, the largest application is military strike, with a share over 57%.

This report presents a comprehensive overview, market shares, and growth opportunities of Military Submarine Photonics Mast and Antenna market by product

type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

Photonics Mast

Antenna

Segmentation by application

Military Reconnaissance

Military Strike

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Thales

Cassidian Optronics

L3Harris Technologies

Nereides

Safran

Systems Engineering and Assessment Ltd (SEA)

Lockheed Martin

Raytheon

Panavision Federal Systems

Key Questions Addressed in this Report

What is the 10-year outlook for the global Military Submarine Photonics Mast and Antenna market?

What factors are driving Military Submarine Photonics Mast and Antenna market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Military Submarine Photonics Mast and Antenna market opportunities vary by end market size?

How does Military Submarine Photonics Mast and Antenna break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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