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# Global Underwater Single-Point LiDAR Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/G2F165424726EN.html
Date: August 2026
Pages: 72
Price: US$ 3,480.00 (Single User License)
ID: G2F165424726EN

## Abstracts

According to our (Global Info Research) latest study, the global Underwater Single-Point LiDAR market size was valued at US$ 22.90 million in 2025 and is forecast to a readjusted size of US$ 138 million by 2032 with a CAGR of 28.1% during review period.

In 2025, global production of underwater single-point LiDAR reached 420,000 units, with an estimated average selling price of $53 per unit. Underwater single-point LiDAR refers to a single-beam/small field-of-view laser ranging sensor designed for underwater environments. It typically employs dToF, phase-based ToF, or triangulation ranging schemes, using visible light, blue light, or green light lasers to perform close-range distance measurement, obstacle avoidance, positioning, and path correction underwater. It features high angular resolution, fast response, and good point-to-point directionality, and its applications cover miniaturized sensor modules such as pool cleaning robots, ROV/AUV close-range ranging, underwater robot obstacle avoidance, and close-range detection of underwater structures. The upstream of the industry chain mainly includes blue/green/red lasers, VCSEL/EEL or semiconductor laser diodes, SPAD/APD/PMT photodetectors, TDC/AFE/MCU chips, narrowband filters, collimating lenses, window lenses, waterproof sealing materials, pressure-resistant shells, connectors, and underwater anti-scattering algorithms; the midstream includes underwater opto-mechanical design, ToF algorithms, ambient light suppression, turbidity compensation, calibration testing, and waterproof packaging; the downstream sector's most realistic application for large-scale deployment is currently swimming pool cleaning robots, followed by underwater robot close-range obstacle avoidance, dock/ship/pipeline close-range inspection, underwater construction positioning, aquaculture pond inspection, water conservancy facility inspection, and scientific research measurement. Gross profit margins range from approximately 25% to 45%.

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This report is a detailed and comprehensive analysis for global Underwater Single-Point LiDAR market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Underwater Single-Point LiDAR market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Underwater Single-Point LiDAR market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Underwater Single-Point LiDAR market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Underwater Single-Point LiDAR market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Underwater Single-Point LiDAR

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Underwater Single-Point LiDAR market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key

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companies covered as a part of this study include Benewake (Beijing), SLAMTEC, Power-Too, Appotronics, Neuvition, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Underwater Single-Point LiDAR market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

dToF Underwater

Phase Modulation ToF Underwater

Blue/Green Light Triangulation Underwater

Market segment by Light Source Wavelength

Red Light Short-Range Type

Blue Light Medium-Long-Range Type

520 nm Green Light Penetrating Type

Market segment by Application Grade

Consumer Grade

Industrial Grade

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Market segment by Application

- Pool Cleaning Robot
- Underwater Robot Obstacle Avoidance
- Scientific Research and Measurement
- Others

Major players covered

- Benewake (Beijing)
- SLAMTEC
- Power-Too
- Appotronics
- Neuvition

Market segment by region, regional analysis covers

- North America (United States, Canada, and Mexico)
- Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
- Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
- South America (Brazil, Argentina, Colombia, and Rest of South America)
- Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

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Chapter 1, to describe Underwater Single-Point LiDAR product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Underwater Single-Point LiDAR, with price, sales quantity, revenue, and global market share of Underwater Single-Point LiDAR from 2021 to 2026.

Chapter 3, the Underwater Single-Point LiDAR competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Underwater Single-Point LiDAR breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Underwater Single-Point LiDAR market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Underwater Single-Point LiDAR.

Chapter 14 and 15, to describe Underwater Single-Point LiDAR sales channel, distributors, customers, research findings and conclusion.

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