

Global Consumer-Grade Underwater Blue-Light LiDAR Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Consumer-Grade Underwater Blue-Light LiDAR market size was valued at US\$ 4.55 million in 2025 and is forecast to a readjusted size of US\$ 36.48 million by 2032 with a CAGR of 34.3% during review period.

In 2025, global production of consumer-grade underwater blue-light LiDAR reached 48,000 units, with an estimated average selling price of US\$92 per unit. Consumer-grade underwater blue light lidar refers to underwater optical ranging sensors designed for pool cleaning robots, consumer-grade underwater robots, and shallow-water intelligent devices. It uses approximately 450 nm blue light laser as the active light source and performs short-to-medium distance ranging, obstacle avoidance, mapping, and positioning underwater via dToF or pulsed ToF. Its core advantage lies in the lower attenuation of blue light underwater and its greater suitability for pool environments. Apotronics emphasizes the superior anti-attenuation capability of 450 nm blue light underwater and has launched the FarMoo D10 underwater blue light lidar for consumer-grade underwater robots. This product uses dToF ranging and can achieve a ranging distance of 0.2~10 m, a measurement accuracy of approximately 0.04 m, IP68 waterproof rating, and Class 1 laser safety rating in underwater environments with turbidity less than 0.5 NTU. The upstream of the industry chain mainly includes 450 nm blue lasers, laser driver chips, SPAD/APD/SiPM detectors, TDC/AFE/MCU chips, narrowband filters, collimating lenses, waterproof windows, pressure-resistant housings, sealing rings, wiring harness connectors, and algorithms for resisting ambient light/turbidity. The midstream involves blue LiDAR module design, opto-mechanical packaging, IP68 waterproofing, calibration and testing, algorithm development, and system adaptation. The downstream mainly consists of pool cleaning robot brands,

consumer-grade underwater robot manufacturers, underwater entertainment equipment manufacturers, and ODM/OEM companies for intelligent cleaning equipment. Regarding gross profit margins, consumer-grade underwater blue LiDAR is still in its early stages of adoption, with high technological barriers and new product premiums. Early sample and small-batch orders can achieve gross profit margins of 40%-60%, but the gross profit margin for B2B modules sold to pool robot OEMs may decline after mass production.

This report is a detailed and comprehensive analysis for global Consumer-Grade Underwater Blue-Light 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 Consumer-Grade Underwater Blue-Light LiDAR market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Consumer-Grade Underwater Blue-Light 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 Consumer-Grade Underwater Blue-Light 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 Consumer-Grade Underwater Blue-Light 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 Consumer-Grade Underwater Blue-Light 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 Consumer-Grade Underwater Blue-Light LiDAR market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Appotronics, etc.

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

Market Segmentation

Consumer-Grade Underwater Blue-Light 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 Blue Light

Pulse ToF Blue Light

Market segment by Integration Method

Standalone

Embedded System

Market segment by Application

Pool Cleaning Robot

Underwater Robot

Others

Major players covered

Appotronics

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:

Chapter 1, to describe Consumer-Grade Underwater Blue-Light LiDAR product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Consumer-Grade Underwater Blue-Light LiDAR breakdown data are

Global Consumer-Grade Underwater Blue-Light LiDAR Market 2026 by Manufacturers, Regions, Type and Application,...

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 Consumer-Grade Underwater Blue-Light 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 Consumer-Grade Underwater Blue-Light LiDAR.

Chapter 14 and 15, to describe Consumer-Grade Underwater Blue-Light LiDAR sales channel, distributors, customers, research findings and conclusion.

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