

Global Consumer-Grade Underwater Blue-Light LiDAR Market Growth 2026-2032

<https://marketpublishers.com/r/GC6A060C6C02EN.html>

Date: July 2026

Pages: 75

Price: US\$ 3,660.00 (Single User License)

ID: GC6A060C6C02EN

Abstracts

The global Consumer-Grade Underwater Blue-Light LiDAR market size is predicted to grow from US\$ 4.32 million in 2025 to US\$ 38.13 million in 2032; it is expected to grow at a CAGR of 36.5% from 2026 to 2032.

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. Appotronics 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.

United States market for Consumer-Grade Underwater Blue-Light LiDAR is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Consumer-Grade Underwater Blue-Light LiDAR is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Consumer-Grade Underwater Blue-Light LiDAR is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Consumer-Grade Underwater Blue-Light LiDAR players cover Appotronics, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Consumer-Grade Underwater Blue-Light LiDAR Industry Forecast" looks at past sales and reviews total world Consumer-Grade Underwater Blue-Light LiDAR sales in 2025, providing a comprehensive analysis by region and market sector of projected Consumer-Grade Underwater Blue-Light LiDAR sales for 2026 through 2032. With Consumer-Grade Underwater Blue-Light LiDAR sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Consumer-Grade Underwater Blue-Light LiDAR industry.

This Insight Report provides a comprehensive analysis of the global Consumer-Grade Underwater Blue-Light LiDAR 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 Consumer-Grade Underwater Blue-Light LiDAR portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Consumer-Grade Underwater Blue-Light LiDAR market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Consumer-Grade Underwater Blue-Light LiDAR 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 Consumer-Grade Underwater Blue-Light LiDAR.

This report presents a comprehensive overview, market shares, and growth opportunities of Consumer-Grade Underwater Blue-Light LiDAR market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

dToF Blue Light

Pulse ToF Blue Light

Segmentation by Integration Method:

Standalone

Embedded System

Segmentation by Application:

Pool Cleaning Robot

Underwater Robot

Others

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 analysing the company's coverage, product portfolio, its market penetration.

Appotronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Consumer-Grade Underwater Blue-Light LiDAR market?

What factors are driving Consumer-Grade Underwater Blue-Light LiDAR market growth, globally and by region?

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

How do Consumer-Grade Underwater Blue-Light LiDAR market opportunities vary by end market size?

How does Consumer-Grade Underwater Blue-Light LiDAR break out by Type, by Application?

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