

Global Underwater 360° Single-Line Scan 2D LiDAR Market Growth 2026-2032

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Abstracts

The global Underwater 360° Single-Line Scan 2D LiDAR market size is predicted to grow from US\$ 14.77 million in 2025 to US\$ 53.30 million in 2032; it is expected to grow at a CAGR of 20.1% from 2026 to 2032.

In 2025, global production of underwater 360° single-line scan 2D LiDAR reached 236,000 units, with an estimated average selling price of \$64 per unit. Underwater 360° single-line scan 2D LiDAR is a two-dimensional surround-view ranging sensor specifically designed for underwater environments. It typically forms a 360° single-line scan on the horizontal plane through a rotating optical structure or scanning mechanism, outputting two-dimensional point cloud or polar coordinate distance data of pool walls, pool bottom boundaries, obstacles, and underwater structures. It primarily serves underwater robot localization, SLAM mapping, path planning, and obstacle avoidance, with applications concentrated in pool cleaning robots, underwater inspection robots, AUV/ROV close-range navigation, aquaculture inspection, port/dock structure inspection, ship cleaning, seabed resource exploration, underwater archaeology, and scientific surveying. The upstream of the industry chain mainly includes blue/green laser diodes, APD/SPAD/CMOS receivers, narrowband filters, lenses and optical windows, waterproof seals, micro motors/bearings, MCUs/SoCs, algorithm chips, connectors, cables, and IP68 housings; the midstream includes underwater LiDAR module design, opto-mechanical integration, waterproof packaging, calibration and testing, point cloud algorithms, and SLAM adaptation; the downstream mainly consists of pool cleaning robot manufacturers, underwater robot manufacturers, marine engineering testing service providers, and research institutions. Gross profit margins range from approximately 25% to 45%.

United States market for Underwater 360° Single-Line Scan 2D 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 Underwater 360° Single-Line Scan 2D 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 Underwater 360° Single-Line Scan 2D 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 Underwater 360° Single-Line Scan 2D LiDAR players cover Benewake (Beijing), SLAMTEC, Power-Too, Appotronics, BeamSea Associates, 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 "Underwater 360° Single-Line Scan 2D LiDAR Industry Forecast" looks at past sales and reviews total world Underwater 360° Single-Line Scan 2D LiDAR sales in 2025, providing a comprehensive analysis by region and market sector of projected Underwater 360° Single-Line Scan 2D LiDAR sales for 2026 through 2032. With Underwater 360° Single-Line Scan 2D LiDAR sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Underwater 360° Single-Line Scan 2D LiDAR industry.

This Insight Report provides a comprehensive analysis of the global Underwater 360° Single-Line Scan 2D 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 Underwater 360° Single-Line Scan 2D LiDAR portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Underwater 360° Single-Line Scan 2D LiDAR market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Underwater 360° Single-Line Scan 2D 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 Underwater 360°

Single-Line Scan 2D LiDAR.

This report presents a comprehensive overview, market shares, and growth opportunities of Underwater 360° Single-Line Scan 2D LiDAR market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

ToF/dToF Type

Triangulation Ranging Type

Line Scan Contour Type

Segmentation by Light Source Wavelength:

Green Light

Blue Light

Near Infrared

Segmentation by Application Grade:

Consumer Grade

Industrial Grade

Segmentation by Application:

Swimming Pool Cleaning Robot

Underwater Robot

Aquaculture

Ports and Docks

Underwater Archaeology and Scientific Surveying

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.

Benewake (Beijing)

SLAMTEC

Power-Too

Appotronics

BeamSea Associates

EAI Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Underwater 360° Single-Line Scan 2D LiDAR market?

What factors are driving Underwater 360? Single-Line Scan 2D LiDAR market growth, globally and by region?

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

How do Underwater 360? Single-Line Scan 2D LiDAR market opportunities vary by end market size?

How does Underwater 360? Single-Line Scan 2D LiDAR break out by Type, by Application?

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