

Global One-Line Spot LiDAR Market Growth 2026-2032

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Abstracts

The global One-Line Spot LiDAR market size is predicted to grow from US\$ 47.90 million in 2025 to US\$ 150 million in 2032; it is expected to grow at a CAGR of 17.1% from 2026 to 2032.

In 2025, global production of one-line spot LiDAR reached 680,000 units, with an estimated average selling price of US\$72 per unit. Linear laser rangefinders are a type of miniaturized optical ranging sensor that falls between traditional single-point Time-of-Flight (ToF) ranging sensors and two-dimensional scanning laser rangefinders. Their core feature is that the transmitting end uses a linear laser source, a VCSEL/EEL line beam emission module, or a beam shaping optical system to expand the original 'point ranging' into 'narrow-area linear detection.' The receiving end typically employs an APD, SPAD, SiPM, or array-type photodetector, using Time-of-Flight (ToF), phase method, or triangulation method to achieve distance/presence detection. Applications include robot obstacle avoidance, vehicle door anti-pinch/anti-collision, intelligent parking, revolving door/turnstile anti-pinch, canes for the blind, intelligent triggering, security early warning, low-altitude ranging for drones, industrial edge detection, and surface contour detection. The upstream of the industry chain mainly includes 905 nm/940 nm VCSEL or EEL lasers, SPAD/APD/SiPM detector chips, TDC/ASIC/MCU, narrowband filters, collimating lenses, cylindrical lenses, beam expanders/uniform optics, PCBs, connectors, waterproof housings, and algorithm firmware; the midstream includes sensor design, opto-mechanical-electrical packaging, calibration, algorithm compensation, reliability testing, and system integration; the downstream mainly consists of service robots, AMR/AGVs, intelligent door control, car door anti-pinch systems, parking assistance, smart homes, security, industrial automation inspection, and some low-speed unmanned systems. Gross profit margins range from approximately 30% to 55%.

Globally, the Asia-Pacific region primarily sees demand from China, Japan, and South

Korea for robots, industrial automation, intelligent door control, and low-speed unmanned equipment. European demand is concentrated in industrial automation and high-end sensor applications in Germany, Switzerland, France, and Italy. North America's demand mainly comes from robotics, security, smart parking, automotive electronics innovations, and industrial inspection. Industry trends will focus on upgrading from point ranging to area detection, replacing mechanical scanning with miniaturized solid-state devices, reducing costs through VCSEL/SPAD integration, increasing adoption of robots and intelligent door control, expanding into vehicle door collision avoidance and low-speed unmanned equipment, improving IP protection and strong light interference resistance, and modular interfaces for easier embedded integration.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for One-Line Spot 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 One-Line Spot LiDAR.

This report presents a comprehensive overview, market shares, and growth opportunities of One-Line Spot LiDAR market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

ToF One-Line

Triangulation

Phase-Based Line Beam

Segmentation by Light Source Type:

VCSEL Line Beam

EEL Side-Emitting Line Beam

LED/Infrared Structured Light

Segmentation by Detection Range:

Short Range 0.1?5 m

Medium Range 5?20 m

Long Range Over 20 m

Segmentation by Application:

Robots

Automotive

Industrial Inspection

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)

Hokuyo Automatic

SLAMTEC

Key Questions Addressed in this Report

What is the 10-year outlook for the global One-Line Spot LiDAR market?

What factors are driving One-Line Spot LiDAR market growth, globally and by region?

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

How do One-Line Spot LiDAR market opportunities vary by end market size?

How does One-Line Spot LiDAR break out by Type, by Application?

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