

Global Lidar for Robots Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

Lidar is a technology that uses laser light for measurement. The basic principle is that the laser transmitter emits a laser beam, the laser beam irradiates the target object, is reflected back, and then the reflected laser signal is received by the receiver. By measuring the reflection time of the laser signal, the distance between the target object and the laser transmitter can be calculated. This technology generates high-precision point cloud data, enabling precise measurement of target object shape, position and distance.

In the field of robotics, Lidar technology has a wide range of applications. It can help robots achieve autonomous navigation and path planning. By scanning the surrounding environment and obtaining location and distance information of obstacles, the robot can perform path planning based on these data to avoid obstacles and reach the target location. At the same time, Lidar technology can also help robots detect and avoid obstacles to ensure the safety of robots during movement. In addition, the robot can also use the data provided by Lidar to store the characteristics and structure information of the environment as a map for positioning, navigation and path planning. In addition, Lidar technology can also be used for target detection and recognition, as well as three-dimensional reconstruction and virtual reality applications.

According to our (Global Info Research) latest study, the global Lidar for Robots market size was valued at US\$ million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of %during review period.

This report is a detailed and comprehensive analysis for global Lidar for Robots 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 2024, are provided.

Key Features:

Global Lidar for Robots market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global Lidar for Robots market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global Lidar for Robots market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global Lidar for Robots market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2019-2024

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 Lidar for Robots

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 Lidar for Robots 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 Hesai, Robosense, SLAMTEC, Benewake, Ouster, LSLIDAR, Livox, SIMINICS, SureStar, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

Lidar for Robots market is split by Type and by Application. For the period 2019-2030, 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

Mechanical Lidar

Solid-State Lidar

Market segment by Application

Industrial Robots

Commercial Robots

Residential Robots

Major players covered

Hesai

Robosense

SLAMTEC

Benewake

Ouster

LIDLAR

Livox

SIMINICS

SureStar

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 Lidar for Robots product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lidar for Robots, with price, sales quantity, revenue, and global market share of Lidar for Robots from 2019 to 2024.

Chapter 3, the Lidar for Robots competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Lidar for Robots breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

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 2019 to 2030.

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 2019 to 2024. and Lidar for Robots market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

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 Lidar for Robots.

Chapter 14 and 15, to describe Lidar for Robots sales channel, distributors, customers, research findings and conclusion.

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