

Light Detection and Ranging (LiDAR): Technologies and Global Markets

<https://marketpublishers.com/r/LD831593380EN.html>

Date: October 2023

Pages: 162

Price: US\$ 5,500.00 (Single User License)

ID: LD831593380EN

Abstracts

Report Scope:

This report provides an overview of the global market for LiDAR and analyses market trends. Using 2022 as the base year, the report provides estimated market data for the forecast period 2023 through 2028. Revenue forecasts for this period are segmented based on component, product type, technology, range, application, and region.

The report also focuses on the major trends and challenges that affect the market and the competitive landscape. It explains the current market trends and provides detailed profiles of the major players and their strategies to enhance their market presence. The report estimates the size of the global LiDAR market in 2022 and provides projections of the expected market size through 2028.

Report Includes:

42 data tables and 38 additional tables

An up-to-date overview and analysis of the global market for LiDAR

Analyses of the global market trends, with historical market revenue data (sales figures) for 2022, estimates for 2023, forecasts for 2024 and 2026, and projections of compound annual growth rates (CAGRs) through 2028

Estimates of the actual market size and revenue forecast for the global LiDAR market in USD millions, and a corresponding market share analysis based on component, product type, range, application and geographic region

In-depth information (facts and figures) pertaining to market drivers, opportunities, challenges and prospects; technologies; regulatory scenarios; and the impacts of COVID-19 and the Russia-Ukraine war on the global LiDAR market

An industry value chain analysis that provides a systematic study of the key intermediaries, with emphasis on OEM manufacturers, raw materials suppliers and major types of end users

Holistic reviews of Porter's Five Forces and PESTLE analyses, which take into account the prevailing micro%li%and macro-environmental factors in the market

A description of ESG developments and company practices in the LIDAR market

A look at the major vendors in the global LiDAR market, and an analysis of the industry's competitive landscape, including market shares and recent mergers and acquisitions (M&A) activity

A review of emerging technologies and innovations in the market

An analysis of recent patent activity

Profiles of the leading companies

Contents

CHAPTER 1 INTRODUCTION

Overview
Study Goals and Objectives
Reasons for Doing the Study
Scope of Report
What's New in This Update?
Research Methodology
Information Sources
Geographic Breakdown

CHAPTER 2 SUMMARY AND HIGHLIGHTS

Market Outlook
Market Summary

CHAPTER 3 MARKET OVERVIEW

Overview
Value Chain Analysis
PESTEL Analysis
Porter's Five Forces Analysis
Threat of New Entrants
Bargaining Power of Suppliers
Bargaining Power of Buyers
Threat of Substitutes
Competition in the Industry
Key Developments in the Field of LiDAR
Impact on the Market of Russia-Ukraine War

CHAPTER 4 MARKET DYNAMICS

Overview
Market Drivers
Increasing Demand for 3D Mapping
Demand for Automotive Safety Technologies
Surge in the Adoption of LiDAR Systems

Advances in LiDAR Technology
Market Challenges
Cost
Cybersecurity Risks
Market Opportunities
Emergence of 4D LiDAR
Uses in Environmental Applications

CHAPTER 5 MARKET BREAKDOWN BY COMPONENT

Overview
Software
Laser Scanners
Navigation and Positioning
Other Components

CHAPTER 6 MARKET BREAKDOWN BY PRODUCT TYPE

Overview
Airborne
Terrestrial
Mobile and Unmanned Aerial Vehicles (UAVs)

CHAPTER 7 MARKET BREAKDOWN BY TECHNOLOGY

Overview

2D LIDAR

3D LIDAR

4D LIDAR

CHAPTER 8 MARKET BREAKDOWN BY RANGE

Overview
Short-range LiDAR
Medium-range LiDAR
Long-range LiDAR

CHAPTER 9 MARKET BREAKDOWN BY APPLICATION

Overview
Automotive and Transportation
Corridor Mapping
Environment
Exploration and Detection
Other Applications
Transmission Lines
Police LiDAR
Gaming LiDAR
Robotics

CHAPTER 10 MARKET BREAKDOWN BY REGION

Overview
North America
Europe
Asia-Pacific
Rest of the World

CHAPTER 11 ESG DEVELOPMENT

ESG Issues in the LiDAR Market
Carbon Footprint/Environmental Impact
Animal Welfare
Labor Practices
Transparency and Governance
Analysis of ESG Performance
Environmental Performance
Social Performance
Governance Performance
Status of ESG for Companies in the LiDAR Market
Consumer Attitudes Towards ESG in LiDAR Market
Case Study
Environmental Initiatives
Social Initiatives
Governance Initiatives

Outcomes
Investments
Concluding Remarks from BCC Research

CHAPTER 12 EMERGING TECHNOLOGIES AND DEVELOPMENTS

Overview
Future of LiDAR Technology
Emerging LiDAR Technologies
Artificial Intelligence
Robotics Industrial Automation
Machine Learning
Advanced Driver-assistance System

CHAPTER 13 PATENT ANALYSIS

Overview
Granted Patents (2020-2023)
Recently Awarded Patents

CHAPTER 14 M&A AND VENTURE FUNDING OUTLOOK

Merger and Acquisition (M&A) Analysis
Venture Fundings in LiDAR Market

CHAPTER 15 COMPETITIVE INTELLIGENCE

Vendor Landscape
Analysis of Market Leaders
Strategic Analysis

CHAPTER 16 COMPANY PROFILES

AEROMETREX
FARO TECHNOLOGIES INC.
FIRMATEK
GENESYS INTERNATIONAL CORP. LTD.
HESAI GROUP
INDIE SEMICONDUCTOR

INFINEON TECHNOLOGIES AG
INNOVIZ TECHNOLOGIES LTD.
LUMINAR TECHNOLOGIES INC.
MICROVISION
RIEGL USA
SICK AG
TELEDYNE OPTTECH
TRIMBLE INC.
VALEO

CHAPTER 17 APPENDIX: ABBREVIATIONS

12. LIST OF TABLES

Summary Table : Global Market for LiDAR, by Product Type, Through 2028
Table 1 : PESTEL Analysis of Global LiDAR Market
Table 2 : Global Market for LiDAR, by Component, Through 2028
Table 3 : Global Market for LiDAR, by Product Type, Through 2028
Table 4 : Global Market for LiDAR, by Technology, Through 2028
Table 5 : Global Market for LiDAR, by Range, Through 2028
Table 6 : Global Market for LiDAR, by Application, Through 2028
Table 7 : Global Market for LiDAR, by Region, Through 2028
Table 8 : North American Market for LiDAR, by Country, Through 2028
Table 9 : North American Market for LiDAR, by Component, Through 2028
Table 10 : North American Market for LiDAR, by Product Type, Through 2028
Table 11 : North American Market for LiDAR, by Technology, Through 2028
Table 12 : North American Market for LiDAR, by Range, Through 2028
Table 13 : North American Market for LiDAR, by Application, Through 2028
Table 14 : European Market for LiDAR, by Country, Through 2028
Table 15 : European Market for LiDAR, by Component, Through 2028
Table 16 : European Market for LiDAR, by Product Type, Through 2028
Table 17 : European Market for LiDAR, by Technology, Through 2028
Table 18 : European Market for LiDAR, by Range, Through 2028
Table 19 : European Market for LiDAR, by Application, Through 2028
Table 20 : Asia-Pacific Market for LiDAR, by Country, Through 2028
Table 21 : Asia-Pacific Market for LiDAR, by Component, Through 2028
Table 22 : Asia-Pacific Market for LiDAR, by Product Type, Through 2028
Table 23 : Asia-Pacific Market for LiDAR, by Technology, Through 2028
Table 24 : Asia-Pacific Market for LiDAR, by Range, Through 2028

Table 25 : Asia-Pacific Market for LiDAR, by Application, Through 2028

Table 26 : RoW Market for LiDAR, by Component, Through 2028

Table 27 : RoW Market for LiDAR, by Product Type, Through 2028

Table 28 : RoW Market for LiDAR, by Technology, Through 2028

Table 29 : RoW Market for LiDAR, by Range, Through 2028

Table 30 : RoW Market for LiDAR, by Application, Through 2028

Table 31 : Environmental ESG Metrics for Faro Technologies, 2022

Table 32 : Social ESG Metrics for Faro Technologies, 2022

Table 33 : Governance ESG Metrics for Faro Technologies, 2022

Table 34 : ESG Risk Ratings for LiDAR Companies by Score and Level, 2022

Table 35 : M&A Deals in the Global LiDAR Market, January 2021–May 2023

Table 36 : Venture Funding in LiDAR, January 2021–August 2023

Table 37 : LiDAR Vendor Landscape

Table 38 : Ranking of Top Five Companies in the LiDAR Market, 2022

Table 39 : Recent Developments in the LiDAR Market, May 2020–July 2023

Table 40 : Aerometrex: Financial Overview, 2022

Table 41 : Aerometrex: Product Portfolio

Table 42 : Aerometrex: Recent Developments, 2021-2023

Table 43 : Faro Technologies Inc.: Financial Overview, 2022

Table 44 : Faro Technologies Inc.: Product Portfolio

Table 45 : Faro Technologies Inc.: Recent Developments, 2021-2022

Table 46 : Firmatek: Product Portfolio

Table 47 : Genesys International Corp.: Financial Overview, 2022

Table 48 : Genesys International Corp.: Product Portfolio

Table 49 : Genesys International Corp.: Recent Developments, 2022

Table 50 : Hesai Group: Financial Overview, 2022

Table 51 : Hesai Group: Product Portfolio

Table 52 : Hesai Group: Recent Developments, 2022-2023

Table 53 : indie Semiconductor: Financial Overview, 2022

Table 54 : indie Semiconductor: Product Portfolio

Table 55 : indie Semiconductor: Recent Developments, 2023

Table 56 : Infineon Technologies AG: Financial Overview, 2022

Table 57 : Infineon Technologies AG: Product Portfolio

Table 58 : Innoviz Technologies Ltd.: Financial Overview, 2022

Table 59 : Innoviz Technologies Ltd.: Product Portfolio

Table 60 : Innoviz Technologies Ltd.: Recent Developments, 2022-2023

Table 61 : Luminar Technologies Inc.: Financial Overview, 2022

Table 62 : Luminar Technologies Inc.: Product Portfolio

Table 63 : Luminar Technologies Inc.: Recent Developments, 2020-2023

Table 64 : MicroVision: Financial Overview, 2022
Table 65 : MicroVision: Product Portfolio
Table 66 : MicroVision: Recent Developments, 2022-2023
Table 67 : Riegl USA: Product Portfolio
Table 68 : SICK AG: Financial Overview, 2022
Table 69 : SICK AG: Product Portfolio
Table 70 : SICK AG: Recent Developments, 2021-2022
Table 71 : Teledyne Optech: Product Portfolio
Table 72 : Teledyne Optech: Recent Developments, 2020-2023
Table 73 : Trimble Inc.: Financial Overview, 2022
Table 74 : Trimble Inc.: Product Benchmarking
Table 75 : Trimble Inc.: Recent Developments, 2021
Table 76 : Valeo: Financial Overview, 2022
Table 77 : Valeo: Product Benchmarking
Table 78 : Valeo: Recent Developments, 2023
Table 79 : Abbreviations Used in the Report

12. LIST OF FIGURES

Summary Figure : Global Market Shares of LiDAR, by Product Type, 2022
Figure 1 : Value Chain Analysis: Global LiDAR Market
Figure 2 : Porter's Five Forces Analysis of the LiDAR Industry
Figure 3 : Trends in Global Market for LiDAR
Figure 4 : Global Market Shares of LiDAR, by Component, 2022
Figure 5 : Global Market Shares of LiDAR, by Product Type, 2022
Figure 6 : Global Market Shares of LiDAR, by Technology, 2022
Figure 7 : Global Market Shares of LiDAR, by Range, 2022
Figure 8 : Global Market Shares of LiDAR, by Application, 2022
Figure 9 : Global Market Shares of LiDAR, by Region, 2022
Figure 10 : North American Market Shares of LiDAR, by Country, 2028
Figure 11 : North American Market Shares of LiDAR, by Component, 2022
Figure 12 : North American Market Shares of LiDAR, by Product Type, 2022
Figure 13 : North American Market Shares of LiDAR, by Technology, 2022
Figure 14 : North American Market Shares of LiDAR, by Range, 2022
Figure 15 : North American Market Shares of LiDAR, by Application, 2022
Figure 16 : European Market Shares of LiDAR, by Country, 2022
Figure 17 : European Market Shares of LiDAR, by Component, 2022
Figure 18 : European Market Shares of LiDAR, by Product Type, 2022
Figure 19 : European Market Shares of LiDAR, by Technology, 2022

- Figure 20 : European Market Shares of LiDAR, by Range, 2022
- Figure 21 : European Market Shares of LiDAR, by Application, 2022
- Figure 22 : Asia-Pacific Market Shares of LiDAR, by Country, 2022
- Figure 23 : Asia-Pacific Market Shares of LiDAR, by Component, 2022
- Figure 24 : Asia-Pacific Market Shares of LiDAR, by Product Type, 2022
- Figure 25 : Asia-Pacific Market Shares of LiDAR, by Technology, 2022
- Figure 26 : Asia-Pacific Market Shares of LiDAR, by Range, 2022
- Figure 27 : Asia-Pacific Market Shares of LiDAR, by Application, 2022
- Figure 28 : RoW Market Shares of LiDAR, by Component, 2022
- Figure 29 : RoW Market Shares of LiDAR, by Product Type, 2022
- Figure 30 : RoW Market Shares of LiDAR, by Technology, 2022
- Figure 31 : RoW Market Shares of LiDAR, by Range, 2022
- Figure 32 : RoW Market Shares of LiDAR, by Application, 2022
- Figure 33 : Emerging LiDAR Technologies
- Figure 34 : Patents Published on LiDAR Technology, by Year, 2020-2023
- Figure 35 : Share of M&A Deals in the LiDAR Industry, by Region, 2021-2023
- Figure 36 : Venture Fundings in the Global LiDAR Market, by Various Rounds, 2022 and 2023
- Figure 37 : Distribution Share of Venture Funding Amount, by Various Rounds, 2023
- Figure 38 : Aerometrex: Annual Revenue, 2021 and 2022
- Figure 39 : Aerometrex: Revenue Share, by Country, 2022
- Figure 40 : Faro Technologies Inc.: Annual Revenue, 2021 and 2022
- Figure 41 : Faro Technologies Inc.: Revenue Share, by Business Segment, 2022
- Figure 42 : Faro Technologies Inc.: Revenue Share, by Region, 2022
- Figure 43 : Genesys International Corp.: Annual Revenue, 2021 and 2022
- Figure 44 : Genesys International Corp.: Revenue Share, by Business Segment, 2022
- Figure 45 : Genesys International Corp.: Revenue Share, by Country/Region, 2022
- Figure 46 : Hesai Group: Annual Revenue, 2021 and 2022
- Figure 47 : Hesai Group: Revenue Share, by Business Segment, 2022
- Figure 48 : Hesai Group: Revenue Share, by Country/Region, 2022
- Figure 49 : indie Semiconductor: Annual Revenue, 2021 and 2022
- Figure 50 : indie Semiconductor: Revenue Share, by Business Segment, 2022
- Figure 51 : indie Semiconductor: Revenue Share, by Country/Region, 2022
- Figure 52 : Infineon Technologies AG: Annual Revenue, 2021 and 2022
- Figure 53 : Infineon Technologies AG: Revenue Share, by Business Segment, 2022
- Figure 54 : Innoviz Technologies Ltd.: Annual Revenue, 2021 and 2022
- Figure 55 : Innoviz Technologies Ltd.: Revenue Share, by Region, 2022
- Figure 56 : Luminar Technologies Inc.: Annual Revenue, 2021 and 2022
- Figure 57 : Luminar Technologies Inc.: Revenue Share, by Business Segment, 2022

Figure 58 : Luminar Technologies Inc.: Revenue Share, by Region, 2022

Figure 59 : MicroVision: Annual Revenue, 2021 and 2022

Figure 60 : SICK AG: Annual Revenue, 2021 and 2022

Figure 61 : SICK AG: Revenue Share, by Business Segment, 2022

Figure 62 : SICK AG: Revenue Share, by Country/Region, 2022

Figure 63 : Trimble Inc.: Annual Revenue, 2021 and 2022

Figure 64 : Trimble Inc.: Revenue Share, by Business Segment, 2022

Figure 65 : Trimble Inc.: Revenue Share, by Region, 2022

Figure 66 : Valeo: Annual Revenue, 2021 and 2022

Figure 67 : Valeo: Revenue Share, by Business Segment, 2022

Figure 68 : Valeo: Revenue Share, by Country/Region, 2022

I would like to order

Product name: Light Detection and Ranging (LiDAR): Technologies and Global Markets

Product link: <https://marketpublishers.com/r/LD831593380EN.html>

Price: US\$ 5,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/LD831593380EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970