

Global Vision Language Action Models (VLA) for Autonomous Driving Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Vision Language Action Models (VLA) for Autonomous Driving market size is predicted to grow from US\$ 588 million in 2025 to US\$ 2404 million in 2032; it is expected to grow at a CAGR of 22.4% from 2026 to 2032.

The Vision-Language-Action (VLA) model is a multimodal machine learning model evolved from the VLM model. It combines vision, language, and action capabilities to achieve a complete closed-loop capability that directly maps perceptual input to control output. It not only focuses on environmental perception but also on planning and control issues. The VLA model was initially developed to solve instruction-following tasks in embodied intelligence. Subsequently, this concept was rapidly applied to the field of autonomous driving. Compared to the intermediate architecture of 'VLM+E2E', VLA deeply integrates multimodal information such as spatial perception, logical reasoning, and behavioral planning for end-to-end training. It fundamentally solves the problems of model information transmission loss and joint optimization training of different models, significantly improving the model's generalization ability and decision-making ability in extreme environments. This drives autonomous driving from the end-to-end model's 'autonomous driving function realization' to the VLA model's 'interactivity, human-likeness, and generalization experience priority'. Generally, the VLA model architecture has three core components: a multimodal encoder (action, text, image, etc.), a large language model for receiving information and performing inference, and a decoder for outputting trajectories and actions. The core lies in using large model technology to directly generate vehicle control commands (such as speed and trajectory) from input signals from cameras, navigation systems, etc., abandoning the modular division of labor between perception, planning, and control in traditional autonomous driving systems.

In commercial applications, VLA large models are typically embedded into the hardware system of autonomous vehicles, tightly integrated with sensors, computing platforms, and execution systems to form a complete autonomous driving solution. For some companies, VLA large models can also be provided as a value-added service to vehicle manufacturers or owners. In 2025, the gross profit margin for Vision Language Action Models (VLA) for Autonomous Driving ranged from 3.26% to 87.13%, depending on the company's R&D progress and commercialization level.

Autonomous driving VLA models are more of an engineering rather than a technical issue. The engineering implementation of VLA models requires at least three prerequisites: a sufficiently intelligent model (brain) trained in a sufficiently realistic space (simulation environment), and the use of sufficiently excellent mapping alignment algorithms to achieve real-to-sim and sim-to-real data and model capability transfer. In the field of autonomous driving, the main challenges are model and environment issues. At the model level, key challenges include multimodality, 3D spatial perception capabilities, balancing computational speed and overhead, and long-term memory. Environmental challenges primarily involve constructing excellent simulation environments. Although existing vehicle-side VLA (Vehicle-to-Everything) technologies have not yet converged and have limited engineering deployment, the structured scenarios, singular tasks, low vehicle freedom, relatively uniform structure, high data and fleet capacity, iterative improvements in various data migration methods, and sufficient computing power have made the vehicle-side VLA technology roadmap relatively clear. It is more of an engineering problem than a technical one, and it holds the potential to support the transition from L2+ to L3 and even L4 levels of autonomous driving. Currently, the focus of competition in the intelligent driving market has shifted from simple functional implementation to a deeper competition of technological paradigms, emphasizing the advancement and sustainability of technological architecture. By 2030, VLA model-driven end-to-end solutions may account for 60% of the L4 market share, meaning that the value chain position of traditional Tier 1 suppliers will face restructuring.

Case Study: DeepRoute.com, an autonomous driving company, announced that its VLA model will be launched to the consumer market in the third quarter of 2025, with five models expected to be available within the year. In February 2026, according to the chairman of XPeng Motors, Volkswagen will be the first customer for XPeng's second-generation Vision-Language-Action (VLA) model. Currently, different manufacturers have made theoretical improvements to their model solutions. Domestic companies such as DeepRoute.com, Li Auto, Xiaomi, and XPeng have made relevant progress,

with XPeng's VLA-OL and Li Auto's Mind VLA showing relatively rapid progress in engineering implementation.

LPI (LP Information)' newest research report, the 'Vision Language Action Models (VLA) for Autonomous Driving Industry Forecast' looks at past sales and reviews total world Vision Language Action Models (VLA) for Autonomous Driving sales in 2025, providing a comprehensive analysis by region and market sector of projected Vision Language Action Models (VLA) for Autonomous Driving sales for 2026 through 2032. With Vision Language Action Models (VLA) for Autonomous Driving sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Vision Language Action Models (VLA) for Autonomous Driving industry.

This Insight Report provides a comprehensive analysis of the global Vision Language Action Models (VLA) for Autonomous Driving landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Vision Language Action Models (VLA) for Autonomous Driving portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Vision Language Action Models (VLA) for Autonomous Driving market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vision Language Action Models (VLA) for Autonomous Driving 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 Vision Language Action Models (VLA) for Autonomous Driving.

This report presents a comprehensive overview, market shares, and growth opportunities of Vision Language Action Models (VLA) for Autonomous Driving market by product type, application, key players and key regions and countries.

Segmentation by Type:

End-to-end VLA

Hierarchical VLA

Segmentation by Automation Level:

Level 2/L3 Autonomous Driving Systems

Level 4/L5 Autonomous Driving Systems

Segmentation by Business Model:

Whole Machine + Intelligent Mode (Hardware + Software)

Embodied Intelligent Model (Software)

Segmentation by Application:

Passenger Vehicles

Commercial Vehicles

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

NVIDIA Alpamayo

Wayve

Waymo EMMA(Google)

Nullmax

DeepRoute.ai

Li Auto

XPeng Motors

GWM Group

Zhuoyu Technology

Baidu Apollo

Geely Global

Qcraft

Xiaomi Auto

BYD

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

2.1.1 Global Vision Language Action Models (VLA) for Autonomous Driving Market Size (2021-2032)

2.1.2 Vision Language Action Models (VLA) for Autonomous Driving Market Size CAGR by Region (2021 VS 2025 VS 2032)

2.1.3 World Current & Future Analysis for Vision Language Action Models (VLA) for Autonomous Driving by Country/Region (2021, 2025 & 2032)

2.2 Vision Language Action Models (VLA) for Autonomous Driving Segment by Type

2.2.1 End-to-end VLA

2.2.2 Hierarchical VLA

2.2.3 Vision Language Action Models (VLA) for Autonomous Driving Market Size by Type

2.2.3.1 Vision Language Action Models (VLA) for Autonomous Driving Market Size CAGR by Type (2021 VS 2025 VS 2032)

2.2.3.2 Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Type (2021-2026)

2.3 Vision Language Action Models (VLA) for Autonomous Driving Segment by Automation Level

2.3.1 Level 2/L3 Autonomous Driving Systems

2.3.2 Level 4/L5 Autonomous Driving Systems

2.3.3 Vision Language Action Models (VLA) for Autonomous Driving Market Size by Automation Level

2.3.3.1 Vision Language Action Models (VLA) for Autonomous Driving Market Size CAGR by Automation Level (2021 VS 2025 VS 2032)

2.3.3.2 Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Automation Level (2021-2026)

2.4 Vision Language Action Models (VLA) for Autonomous Driving Segment by Business Model

2.4.1 Whole Machine + Intelligent Mode (Hardware + Software)

2.4.2 Embodied Intelligent Model (Software)

2.4.3 Vision Language Action Models (VLA) for Autonomous Driving Market Size by Business Model

2.4.3.1 Vision Language Action Models (VLA) for Autonomous Driving Market Size CAGR by Business Model (2021 VS 2025 VS 2032)

2.4.3.2 Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Business Model (2021-2026)

2.5 Vision Language Action Models (VLA) for Autonomous Driving Segment by Application

2.5.1 Passenger Vehicles

2.5.2 Commercial Vehicles

2.5.3 Vision Language Action Models (VLA) for Autonomous Driving Market Size by Application

2.5.3.1 Vision Language Action Models (VLA) for Autonomous Driving Market Size CAGR by Application (2021 VS 2025 VS 2032)

2.5.3.2 Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Application (2021-2026)

3 VISION LANGUAGE ACTION MODELS (VLA) FOR AUTONOMOUS DRIVING MARKET SIZE BY PLAYER

3.1 Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Player

3.1.1 Global Vision Language Action Models (VLA) for Autonomous Driving Revenue by Player (2021-2026)

3.1.2 Global Vision Language Action Models (VLA) for Autonomous Driving Revenue Market Share by Player (2021-2026)

3.2 Global Vision Language Action Models (VLA) for Autonomous Driving Key Players Head office and Products Offered

3.3 Market Concentration Rate Analysis

3.3.1 Competition Landscape Analysis

3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

4 VISION LANGUAGE ACTION MODELS (VLA) FOR AUTONOMOUS DRIVING BY REGION

- 4.1 Vision Language Action Models (VLA) for Autonomous Driving Market Size by Region (2021-2026)
- 4.2 Global Vision Language Action Models (VLA) for Autonomous Driving Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Vision Language Action Models (VLA) for Autonomous Driving Market Size Growth (2021-2026)
- 4.4 APAC Vision Language Action Models (VLA) for Autonomous Driving Market Size Growth (2021-2026)
- 4.5 Europe Vision Language Action Models (VLA) for Autonomous Driving Market Size Growth (2021-2026)
- 4.6 Middle East & Africa Vision Language Action Models (VLA) for Autonomous Driving Market Size Growth (2021-2026)

5 AMERICAS

- 5.1 Americas Vision Language Action Models (VLA) for Autonomous Driving Market Size by Country (2021-2026)
- 5.2 Americas Vision Language Action Models (VLA) for Autonomous Driving Market Size by Type (2021-2026)
- 5.3 Americas Vision Language Action Models (VLA) for Autonomous Driving Market Size by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Vision Language Action Models (VLA) for Autonomous Driving Market Size by Region (2021-2026)
- 6.2 APAC Vision Language Action Models (VLA) for Autonomous Driving Market Size by Type (2021-2026)
- 6.3 APAC Vision Language Action Models (VLA) for Autonomous Driving Market Size by Application (2021-2026)
- 6.4 China

- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia

7 EUROPE

- 7.1 Europe Vision Language Action Models (VLA) for Autonomous Driving Market Size by Country (2021-2026)
- 7.2 Europe Vision Language Action Models (VLA) for Autonomous Driving Market Size by Type (2021-2026)
- 7.3 Europe Vision Language Action Models (VLA) for Autonomous Driving Market Size by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Vision Language Action Models (VLA) for Autonomous Driving by Region (2021-2026)
- 8.2 Middle East & Africa Vision Language Action Models (VLA) for Autonomous Driving Market Size by Type (2021-2026)
- 8.3 Middle East & Africa Vision Language Action Models (VLA) for Autonomous Driving Market Size by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 GLOBAL VISION LANGUAGE ACTION MODELS (VLA) FOR AUTONOMOUS DRIVING MARKET FORECAST

10.1 Global Vision Language Action Models (VLA) for Autonomous Driving Forecast by Region (2027-2032)

10.1.1 Global Vision Language Action Models (VLA) for Autonomous Driving Forecast by Region (2027-2032)

10.1.2 Americas Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.1.3 APAC Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.1.4 Europe Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.1.5 Middle East & Africa Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.2 Americas Vision Language Action Models (VLA) for Autonomous Driving Forecast by Country (2027-2032)

10.2.1 United States Market Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.2.2 Canada Market Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.2.3 Mexico Market Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.2.4 Brazil Market Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.3 APAC Vision Language Action Models (VLA) for Autonomous Driving Forecast by Region (2027-2032)

10.3.1 China Vision Language Action Models (VLA) for Autonomous Driving Market Forecast

10.3.2 Japan Market Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.3.3 Korea Market Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.3.4 Southeast Asia Market Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.3.5 India Market Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.3.6 Australia Market Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.4 Europe Vision Language Action Models (VLA) for Autonomous Driving Forecast by

Country (2027-2032)

10.4.1 Germany Market Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.4.2 France Market Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.4.3 UK Market Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.4.4 Italy Market Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.4.5 Russia Market Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.5 Middle East & Africa Vision Language Action Models (VLA) for Autonomous Driving Forecast by Region (2027-2032)

10.5.1 Egypt Market Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.5.2 South Africa Market Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.5.3 Israel Market Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.5.4 Turkey Market Vision Language Action Models (VLA) for Autonomous Driving Forecast

10.6 Global Vision Language Action Models (VLA) for Autonomous Driving Forecast by Type (2027-2032)

10.7 Global Vision Language Action Models (VLA) for Autonomous Driving Forecast by Application (2027-2032)

10.7.1 GCC Countries Market Vision Language Action Models (VLA) for Autonomous Driving Forecast

11 KEY PLAYERS ANALYSIS

11.1 NVIDIA Alpamayo

11.1.1 NVIDIA Alpamayo Company Information

11.1.2 NVIDIA Alpamayo Vision Language Action Models (VLA) for Autonomous Driving Product Offered

11.1.3 NVIDIA Alpamayo Vision Language Action Models (VLA) for Autonomous Driving Revenue, Gross Margin and Market Share (2021-2026)

11.1.4 NVIDIA Alpamayo Main Business Overview

11.1.5 NVIDIA Alpamayo Latest Developments

11.2 Wayve

- 11.2.1 Wayve Company Information
- 11.2.2 Wayve Vision Language Action Models (VLA) for Autonomous Driving Product Offered
- 11.2.3 Wayve Vision Language Action Models (VLA) for Autonomous Driving Revenue, Gross Margin and Market Share (2021-2026)
- 11.2.4 Wayve Main Business Overview
- 11.2.5 Wayve Latest Developments
- 11.3 Waymo EMMA(Google)
- 11.3.1 Waymo EMMA(Google) Company Information
- 11.3.2 Waymo EMMA(Google) Vision Language Action Models (VLA) for Autonomous Driving Product Offered
- 11.3.3 Waymo EMMA(Google) Vision Language Action Models (VLA) for Autonomous Driving Revenue, Gross Margin and Market Share (2021-2026)
- 11.3.4 Waymo EMMA(Google) Main Business Overview
- 11.3.5 Waymo EMMA(Google) Latest Developments
- 11.4 Nullmax
- 11.4.1 Nullmax Company Information
- 11.4.2 Nullmax Vision Language Action Models (VLA) for Autonomous Driving Product Offered
- 11.4.3 Nullmax Vision Language Action Models (VLA) for Autonomous Driving Revenue, Gross Margin and Market Share (2021-2026)
- 11.4.4 Nullmax Main Business Overview
- 11.4.5 Nullmax Latest Developments
- 11.5 DeepRoute.ai
- 11.5.1 DeepRoute.ai Company Information
- 11.5.2 DeepRoute.ai Vision Language Action Models (VLA) for Autonomous Driving Product Offered
- 11.5.3 DeepRoute.ai Vision Language Action Models (VLA) for Autonomous Driving Revenue, Gross Margin and Market Share (2021-2026)
- 11.5.4 DeepRoute.ai Main Business Overview
- 11.5.5 DeepRoute.ai Latest Developments
- 11.6 Li Auto
- 11.6.1 Li Auto Company Information
- 11.6.2 Li Auto Vision Language Action Models (VLA) for Autonomous Driving Product Offered
- 11.6.3 Li Auto Vision Language Action Models (VLA) for Autonomous Driving Revenue, Gross Margin and Market Share (2021-2026)
- 11.6.4 Li Auto Main Business Overview
- 11.6.5 Li Auto Latest Developments

11.7 XPeng Motors

11.7.1 XPeng Motors Company Information

11.7.2 XPeng Motors Vision Language Action Models (VLA) for Autonomous Driving Product Offered

11.7.3 XPeng Motors Vision Language Action Models (VLA) for Autonomous Driving Revenue, Gross Margin and Market Share (2021-2026)

11.7.4 XPeng Motors Main Business Overview

11.7.5 XPeng Motors Latest Developments

11.8 GWM Group

11.8.1 GWM Group Company Information

11.8.2 GWM Group Vision Language Action Models (VLA) for Autonomous Driving Product Offered

11.8.3 GWM Group Vision Language Action Models (VLA) for Autonomous Driving Revenue, Gross Margin and Market Share (2021-2026)

11.8.4 GWM Group Main Business Overview

11.8.5 GWM Group Latest Developments

11.9 Zhuoyu Technology

11.9.1 Zhuoyu Technology Company Information

11.9.2 Zhuoyu Technology Vision Language Action Models (VLA) for Autonomous Driving Product Offered

11.9.3 Zhuoyu Technology Vision Language Action Models (VLA) for Autonomous Driving Revenue, Gross Margin and Market Share (2021-2026)

11.9.4 Zhuoyu Technology Main Business Overview

11.9.5 Zhuoyu Technology Latest Developments

11.10 Baidu Apollo

11.10.1 Baidu Apollo Company Information

11.10.2 Baidu Apollo Vision Language Action Models (VLA) for Autonomous Driving Product Offered

11.10.3 Baidu Apollo Vision Language Action Models (VLA) for Autonomous Driving Revenue, Gross Margin and Market Share (2021-2026)

11.10.4 Baidu Apollo Main Business Overview

11.10.5 Baidu Apollo Latest Developments

11.11 Geely Global

11.11.1 Geely Global Company Information

11.11.2 Geely Global Vision Language Action Models (VLA) for Autonomous Driving Product Offered

11.11.3 Geely Global Vision Language Action Models (VLA) for Autonomous Driving Revenue, Gross Margin and Market Share (2021-2026)

11.11.4 Geely Global Main Business Overview

11.11.5 Geely Global Latest Developments

11.12 Qcraft

11.12.1 Qcraft Company Information

11.12.2 Qcraft Vision Language Action Models (VLA) for Autonomous Driving Product Offered

11.12.3 Qcraft Vision Language Action Models (VLA) for Autonomous Driving Revenue, Gross Margin and Market Share (2021-2026)

11.12.4 Qcraft Main Business Overview

11.12.5 Qcraft Latest Developments

11.13 Xiaomi Auto

11.13.1 Xiaomi Auto Company Information

11.13.2 Xiaomi Auto Vision Language Action Models (VLA) for Autonomous Driving Product Offered

11.13.3 Xiaomi Auto Vision Language Action Models (VLA) for Autonomous Driving Revenue, Gross Margin and Market Share (2021-2026)

11.13.4 Xiaomi Auto Main Business Overview

11.13.5 Xiaomi Auto Latest Developments

11.14 BYD

11.14.1 BYD Company Information

11.14.2 BYD Vision Language Action Models (VLA) for Autonomous Driving Product Offered

11.14.3 BYD Vision Language Action Models (VLA) for Autonomous Driving Revenue, Gross Margin and Market Share (2021-2026)

11.14.4 BYD Main Business Overview

11.14.5 BYD Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Vision Language Action Models (VLA) for Autonomous Driving Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)

Table 2. Vision Language Action Models (VLA) for Autonomous Driving Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of End-to-end VLA

Table 4. Major Players of Hierarchical VLA

Table 5. Vision Language Action Models (VLA) for Autonomous Driving Market Size CAGR by Type (2021 VS 2025 VS 2032) & (\$ millions)

Table 6. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size by Type (2021-2026) & (\$ millions)

Table 7. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Type (2021-2026)

Table 8. Major Players of Level 2/L3 Autonomous Driving Systems

Table 9. Major Players of Level 4/L5 Autonomous Driving Systems

Table 10. Vision Language Action Models (VLA) for Autonomous Driving Market Size CAGR by Automation Level (2021 VS 2025 VS 2032) & (\$ millions)

Table 11. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size by Automation Level (2021-2026) & (\$ millions)

Table 12. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Automation Level (2021-2026)

Table 13. Major Players of Whole Machine + Intelligent Mode (Hardware + Software)

Table 14. Major Players of Embodied Intelligent Model (Software)

Table 15. Vision Language Action Models (VLA) for Autonomous Driving Market Size CAGR by Business Model (2021 VS 2025 VS 2032) & (\$ millions)

Table 16. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size by Business Model (2021-2026) & (\$ millions)

Table 17. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Business Model (2021-2026)

Table 18. Vision Language Action Models (VLA) for Autonomous Driving Market Size CAGR by Application (2021 VS 2025 VS 2032) & (\$ millions)

Table 19. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size by Application (2021-2026) & (\$ millions)

Table 20. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Application (2021-2026)

Table 21. Global Vision Language Action Models (VLA) for Autonomous Driving

Revenue by Player (2021-2026) & (\$ millions)

Table 22. Global Vision Language Action Models (VLA) for Autonomous Driving Revenue Market Share by Player (2021-2026)

Table 23. Vision Language Action Models (VLA) for Autonomous Driving Key Players Head office and Products Offered

Table 24. Vision Language Action Models (VLA) for Autonomous Driving Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 25. New Products and Potential Entrants

Table 26. Mergers & Acquisitions, Expansion

Table 27. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size by Region (2021-2026) & (\$ millions)

Table 28. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Region (2021-2026)

Table 29. Global Vision Language Action Models (VLA) for Autonomous Driving Revenue by Country/Region (2021-2026) & (\$ millions)

Table 30. Global Vision Language Action Models (VLA) for Autonomous Driving Revenue Market Share by Country/Region (2021-2026)

Table 31. Americas Vision Language Action Models (VLA) for Autonomous Driving Market Size by Country (2021-2026) & (\$ millions)

Table 32. Americas Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Country (2021-2026)

Table 33. Americas Vision Language Action Models (VLA) for Autonomous Driving Market Size by Type (2021-2026) & (\$ millions)

Table 34. Americas Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Type (2021-2026)

Table 35. Americas Vision Language Action Models (VLA) for Autonomous Driving Market Size by Application (2021-2026) & (\$ millions)

Table 36. Americas Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Application (2021-2026)

Table 37. APAC Vision Language Action Models (VLA) for Autonomous Driving Market Size by Region (2021-2026) & (\$ millions)

Table 38. APAC Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Region (2021-2026)

Table 39. APAC Vision Language Action Models (VLA) for Autonomous Driving Market Size by Type (2021-2026) & (\$ millions)

Table 40. APAC Vision Language Action Models (VLA) for Autonomous Driving Market Size by Application (2021-2026) & (\$ millions)

Table 41. Europe Vision Language Action Models (VLA) for Autonomous Driving Market Size by Country (2021-2026) & (\$ millions)

Table 42. Europe Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Country (2021-2026)

Table 43. Europe Vision Language Action Models (VLA) for Autonomous Driving Market Size by Type (2021-2026) & (\$ millions)

Table 44. Europe Vision Language Action Models (VLA) for Autonomous Driving Market Size by Application (2021-2026) & (\$ millions)

Table 45. Middle East & Africa Vision Language Action Models (VLA) for Autonomous Driving Market Size by Region (2021-2026) & (\$ millions)

Table 46. Middle East & Africa Vision Language Action Models (VLA) for Autonomous Driving Market Size by Type (2021-2026) & (\$ millions)

Table 47. Middle East & Africa Vision Language Action Models (VLA) for Autonomous Driving Market Size by Application (2021-2026) & (\$ millions)

Table 48. Key Market Drivers & Growth Opportunities of Vision Language Action Models (VLA) for Autonomous Driving

Table 49. Key Market Challenges & Risks of Vision Language Action Models (VLA) for Autonomous Driving

Table 50. Key Industry Trends of Vision Language Action Models (VLA) for Autonomous Driving

Table 51. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Forecast by Region (2027-2032) & (\$ millions)

Table 52. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share Forecast by Region (2027-2032)

Table 53. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Forecast by Type (2027-2032) & (\$ millions)

Table 54. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Forecast by Application (2027-2032) & (\$ millions)

Table 55. NVIDIA Alpamayo Details, Company Type, Vision Language Action Models (VLA) for Autonomous Driving Area Served and Its Competitors

Table 56. NVIDIA Alpamayo Vision Language Action Models (VLA) for Autonomous Driving Product Offered

Table 57. NVIDIA Alpamayo Vision Language Action Models (VLA) for Autonomous Driving Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 58. NVIDIA Alpamayo Main Business

Table 59. NVIDIA Alpamayo Latest Developments

Table 60. Wayve Details, Company Type, Vision Language Action Models (VLA) for Autonomous Driving Area Served and Its Competitors

Table 61. Wayve Vision Language Action Models (VLA) for Autonomous Driving Product Offered

Table 62. Wayve Vision Language Action Models (VLA) for Autonomous Driving

Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 63. Wayve Main Business

Table 64. Wayve Latest Developments

Table 65. Waymo EMMA(Google) Details, Company Type, Vision Language Action Models (VLA) for Autonomous Driving Area Served and Its Competitors

Table 66. Waymo EMMA(Google) Vision Language Action Models (VLA) for Autonomous Driving Product Offered

Table 67. Waymo EMMA(Google) Vision Language Action Models (VLA) for Autonomous Driving Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 68. Waymo EMMA(Google) Main Business

Table 69. Waymo EMMA(Google) Latest Developments

Table 70. Nullmax Details, Company Type, Vision Language Action Models (VLA) for Autonomous Driving Area Served and Its Competitors

Table 71. Nullmax Vision Language Action Models (VLA) for Autonomous Driving Product Offered

Table 72. Nullmax Vision Language Action Models (VLA) for Autonomous Driving Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 73. Nullmax Main Business

Table 74. Nullmax Latest Developments

Table 75. DeepRoute.ai Details, Company Type, Vision Language Action Models (VLA) for Autonomous Driving Area Served and Its Competitors

Table 76. DeepRoute.ai Vision Language Action Models (VLA) for Autonomous Driving Product Offered

Table 77. DeepRoute.ai Vision Language Action Models (VLA) for Autonomous Driving Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 78. DeepRoute.ai Main Business

Table 79. DeepRoute.ai Latest Developments

Table 80. Li Auto Details, Company Type, Vision Language Action Models (VLA) for Autonomous Driving Area Served and Its Competitors

Table 81. Li Auto Vision Language Action Models (VLA) for Autonomous Driving Product Offered

Table 82. Li Auto Vision Language Action Models (VLA) for Autonomous Driving Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 83. Li Auto Main Business

Table 84. Li Auto Latest Developments

Table 85. XPeng Motors Details, Company Type, Vision Language Action Models (VLA) for Autonomous Driving Area Served and Its Competitors

Table 86. XPeng Motors Vision Language Action Models (VLA) for Autonomous Driving Product Offered

Table 87. XPeng Motors Vision Language Action Models (VLA) for Autonomous Driving Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 88. XPeng Motors Main Business

Table 89. XPeng Motors Latest Developments

Table 90. GWM Group Details, Company Type, Vision Language Action Models (VLA) for Autonomous Driving Area Served and Its Competitors

Table 91. GWM Group Vision Language Action Models (VLA) for Autonomous Driving Product Offered

Table 92. GWM Group Vision Language Action Models (VLA) for Autonomous Driving Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 93. GWM Group Main Business

Table 94. GWM Group Latest Developments

Table 95. Zhuoyu Technology Details, Company Type, Vision Language Action Models (VLA) for Autonomous Driving Area Served and Its Competitors

Table 96. Zhuoyu Technology Vision Language Action Models (VLA) for Autonomous Driving Product Offered

Table 97. Zhuoyu Technology Vision Language Action Models (VLA) for Autonomous Driving Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 98. Zhuoyu Technology Main Business

Table 99. Zhuoyu Technology Latest Developments

Table 100. Baidu Apollo Details, Company Type, Vision Language Action Models (VLA) for Autonomous Driving Area Served and Its Competitors

Table 101. Baidu Apollo Vision Language Action Models (VLA) for Autonomous Driving Product Offered

Table 102. Baidu Apollo Vision Language Action Models (VLA) for Autonomous Driving Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 103. Baidu Apollo Main Business

Table 104. Baidu Apollo Latest Developments

Table 105. Geely Global Details, Company Type, Vision Language Action Models (VLA) for Autonomous Driving Area Served and Its Competitors

Table 106. Geely Global Vision Language Action Models (VLA) for Autonomous Driving Product Offered

Table 107. Geely Global Vision Language Action Models (VLA) for Autonomous Driving Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 108. Geely Global Main Business

Table 109. Geely Global Latest Developments

Table 110. Qcraft Details, Company Type, Vision Language Action Models (VLA) for Autonomous Driving Area Served and Its Competitors

Table 111. Qcraft Vision Language Action Models (VLA) for Autonomous Driving

Product Offered

Table 112. Qcraft Vision Language Action Models (VLA) for Autonomous Driving Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 113. Qcraft Main Business

Table 114. Qcraft Latest Developments

Table 115. Xiaomi Auto Details, Company Type, Vision Language Action Models (VLA) for Autonomous Driving Area Served and Its Competitors

Table 116. Xiaomi Auto Vision Language Action Models (VLA) for Autonomous Driving Product Offered

Table 117. Xiaomi Auto Vision Language Action Models (VLA) for Autonomous Driving Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 118. Xiaomi Auto Main Business

Table 119. Xiaomi Auto Latest Developments

Table 120. BYD Details, Company Type, Vision Language Action Models (VLA) for Autonomous Driving Area Served and Its Competitors

Table 121. BYD Vision Language Action Models (VLA) for Autonomous Driving Product Offered

Table 122. BYD Vision Language Action Models (VLA) for Autonomous Driving Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 123. BYD Main Business

Table 124. BYD Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Vision Language Action Models (VLA) for Autonomous Driving Report Years Considered

Figure 2. Research Objectives

Figure 3. Research Methodology

Figure 4. Research Process and Data Source

Figure 5. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Growth Rate (2021-2032) (\$ millions)

Figure 6. Vision Language Action Models (VLA) for Autonomous Driving Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 7. Vision Language Action Models (VLA) for Autonomous Driving Sales Market Share by Country/Region (2025)

Figure 8. Vision Language Action Models (VLA) for Autonomous Driving Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 9. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Type in 2025

Figure 10. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Automation Level in 2025

Figure 11. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Business Model in 2025

Figure 12. Vision Language Action Models (VLA) for Autonomous Driving in Passenger Vehicles

Figure 13. Global Vision Language Action Models (VLA) for Autonomous Driving Market: Passenger Vehicles (2021-2026) & (\$ millions)

Figure 14. Vision Language Action Models (VLA) for Autonomous Driving in Commercial Vehicles

Figure 15. Global Vision Language Action Models (VLA) for Autonomous Driving Market: Commercial Vehicles (2021-2026) & (\$ millions)

Figure 16. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Application in 2025

Figure 17. Global Vision Language Action Models (VLA) for Autonomous Driving Revenue Market Share by Player in 2025

Figure 18. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Region (2021-2026)

Figure 19. Americas Vision Language Action Models (VLA) for Autonomous Driving Market Size 2021-2026 (\$ millions)

Figure 20. APAC Vision Language Action Models (VLA) for Autonomous Driving Market Size 2021-2026 (\$ millions)

Figure 21. Europe Vision Language Action Models (VLA) for Autonomous Driving Market Size 2021-2026 (\$ millions)

Figure 22. Middle East & Africa Vision Language Action Models (VLA) for Autonomous Driving Market Size 2021-2026 (\$ millions)

Figure 23. Americas Vision Language Action Models (VLA) for Autonomous Driving Value Market Share by Country in 2025

Figure 24. United States Vision Language Action Models (VLA) for Autonomous Driving Market Size Growth 2021-2026 (\$ millions)

Figure 25. Canada Vision Language Action Models (VLA) for Autonomous Driving Market Size Growth 2021-2026 (\$ millions)

Figure 26. Mexico Vision Language Action Models (VLA) for Autonomous Driving Market Size Growth 2021-2026 (\$ millions)

Figure 27. Brazil Vision Language Action Models (VLA) for Autonomous Driving Market Size Growth 2021-2026 (\$ millions)

Figure 28. APAC Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Region in 2025

Figure 29. APAC Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Type (2021-2026)

Figure 30. APAC Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Application (2021-2026)

Figure 31. China Vision Language Action Models (VLA) for Autonomous Driving Market Size Growth 2021-2026 (\$ millions)

Figure 32. Japan Vision Language Action Models (VLA) for Autonomous Driving Market Size Growth 2021-2026 (\$ millions)

Figure 33. South Korea Vision Language Action Models (VLA) for Autonomous Driving Market Size Growth 2021-2026 (\$ millions)

Figure 34. Southeast Asia Vision Language Action Models (VLA) for Autonomous Driving Market Size Growth 2021-2026 (\$ millions)

Figure 35. India Vision Language Action Models (VLA) for Autonomous Driving Market Size Growth 2021-2026 (\$ millions)

Figure 36. Australia Vision Language Action Models (VLA) for Autonomous Driving Market Size Growth 2021-2026 (\$ millions)

Figure 37. Europe Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Country in 2025

Figure 38. Europe Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share by Type (2021-2026)

Figure 39. Europe Vision Language Action Models (VLA) for Autonomous Driving

Market Size Market Share by Application (2021-2026)

Figure 40. Germany Vision Language Action Models (VLA) for Autonomous Driving
Market Size Growth 2021-2026 (\$ millions)

Figure 41. France Vision Language Action Models (VLA) for Autonomous Driving
Market Size Growth 2021-2026 (\$ millions)

Figure 42. UK Vision Language Action Models (VLA) for Autonomous Driving Market
Size Growth 2021-2026 (\$ millions)

Figure 43. Italy Vision Language Action Models (VLA) for Autonomous Driving Market
Size Growth 2021-2026 (\$ millions)

Figure 44. Russia Vision Language Action Models (VLA) for Autonomous Driving
Market Size Growth 2021-2026 (\$ millions)

Figure 45. Middle East & Africa Vision Language Action Models (VLA) for Autonomous
Driving Market Size Market Share by Region (2021-2026)

Figure 46. Middle East & Africa Vision Language Action Models (VLA) for Autonomous
Driving Market Size Market Share by Type (2021-2026)

Figure 47. Middle East & Africa Vision Language Action Models (VLA) for Autonomous
Driving Market Size Market Share by Application (2021-2026)

Figure 48. Egypt Vision Language Action Models (VLA) for Autonomous Driving Market
Size Growth 2021-2026 (\$ millions)

Figure 49. South Africa Vision Language Action Models (VLA) for Autonomous Driving
Market Size Growth 2021-2026 (\$ millions)

Figure 50. Israel Vision Language Action Models (VLA) for Autonomous Driving Market
Size Growth 2021-2026 (\$ millions)

Figure 51. Turkey Vision Language Action Models (VLA) for Autonomous Driving
Market Size Growth 2021-2026 (\$ millions)

Figure 52. GCC Countries Vision Language Action Models (VLA) for Autonomous
Driving Market Size Growth 2021-2026 (\$ millions)

Figure 53. Americas Vision Language Action Models (VLA) for Autonomous Driving
Market Size 2027-2032 (\$ millions)

Figure 54. APAC Vision Language Action Models (VLA) for Autonomous Driving Market
Size 2027-2032 (\$ millions)

Figure 55. Europe Vision Language Action Models (VLA) for Autonomous Driving
Market Size 2027-2032 (\$ millions)

Figure 56. Middle East & Africa Vision Language Action Models (VLA) for Autonomous
Driving Market Size 2027-2032 (\$ millions)

Figure 57. United States Vision Language Action Models (VLA) for Autonomous Driving
Market Size 2027-2032 (\$ millions)

Figure 58. Canada Vision Language Action Models (VLA) for Autonomous Driving
Market Size 2027-2032 (\$ millions)

Figure 59. Mexico Vision Language Action Models (VLA) for Autonomous Driving Market Size 2027-2032 (\$ millions)

Figure 60. Brazil Vision Language Action Models (VLA) for Autonomous Driving Market Size 2027-2032 (\$ millions)

Figure 61. China Vision Language Action Models (VLA) for Autonomous Driving Market Size 2027-2032 (\$ millions)

Figure 62. Japan Vision Language Action Models (VLA) for Autonomous Driving Market Size 2027-2032 (\$ millions)

Figure 63. Korea Vision Language Action Models (VLA) for Autonomous Driving Market Size 2027-2032 (\$ millions)

Figure 64. Southeast Asia Vision Language Action Models (VLA) for Autonomous Driving Market Size 2027-2032 (\$ millions)

Figure 65. India Vision Language Action Models (VLA) for Autonomous Driving Market Size 2027-2032 (\$ millions)

Figure 66. Australia Vision Language Action Models (VLA) for Autonomous Driving Market Size 2027-2032 (\$ millions)

Figure 67. Germany Vision Language Action Models (VLA) for Autonomous Driving Market Size 2027-2032 (\$ millions)

Figure 68. France Vision Language Action Models (VLA) for Autonomous Driving Market Size 2027-2032 (\$ millions)

Figure 69. UK Vision Language Action Models (VLA) for Autonomous Driving Market Size 2027-2032 (\$ millions)

Figure 70. Italy Vision Language Action Models (VLA) for Autonomous Driving Market Size 2027-2032 (\$ millions)

Figure 71. Russia Vision Language Action Models (VLA) for Autonomous Driving Market Size 2027-2032 (\$ millions)

Figure 72. Egypt Vision Language Action Models (VLA) for Autonomous Driving Market Size 2027-2032 (\$ millions)

Figure 73. South Africa Vision Language Action Models (VLA) for Autonomous Driving Market Size 2027-2032 (\$ millions)

Figure 74. Israel Vision Language Action Models (VLA) for Autonomous Driving Market Size 2027-2032 (\$ millions)

Figure 75. Turkey Vision Language Action Models (VLA) for Autonomous Driving Market Size 2027-2032 (\$ millions)

Figure 76. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share Forecast by Type (2027-2032)

Figure 77. Global Vision Language Action Models (VLA) for Autonomous Driving Market Size Market Share Forecast by Application (2027-2032)

Figure 78. GCC Countries Vision Language Action Models (VLA) for Autonomous

Driving Market Size 2027-2032 (\$ millions)

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