

# Global Vision Language Action Models (VLA) for Autonomous Driving Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Vision Language Action Models (VLA) for Autonomous Driving market size was valued at US\$ 619 million in 2025 and is forecast to a readjusted size of US\$ 2370 million by 2032 with a CAGR of 21.1% during review period.

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.

This report is a detailed and comprehensive analysis for global Vision Language Action Models (VLA) for Autonomous Driving market. Both quantitative and qualitative analyses are presented by company, 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 2025, are provided.

### **Key Features:**

Global Vision Language Action Models (VLA) for Autonomous Driving market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Vision Language Action Models (VLA) for Autonomous Driving market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Vision Language Action Models (VLA) for Autonomous Driving market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Vision Language Action Models (VLA) for Autonomous Driving market shares of main players, in revenue (\$ Million), 2021-2026

### **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 Vision Language Action Models (VLA) for Autonomous Driving

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 Vision Language Action Models (VLA) for Autonomous Driving market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NVIDIA, Alcamayo, Wayve, Waymo EMMA(Google), Nullmax, DeepRoute.ai, Li Auto, XPeng Motors, GWM Group, Zhuoyu Technology, Baidu Apollo, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### Market segmentation

Vision Language Action Models (VLA) for Autonomous Driving market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

- End-to-end VLA

- Hierarchical VLA

### Market segment by Automation Level

- Level 2/L3 Autonomous Driving Systems

- Level 4/L5 Autonomous Driving Systems

### Market segment by Business Model

- Whole Machine + Intelligent Mode (Hardware + Software)

- Embodied Intelligent Model (Software)

### Market segment by Application

Passenger Vehicles

Commercial Vehicles

Market segment by players, this report covers

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

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 13 chapters:**

Chapter 1, to describe Vision Language Action Models (VLA) for Autonomous Driving product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Vision Language Action Models (VLA) for Autonomous Driving, with revenue, gross margin, and global market share of Vision Language Action Models (VLA) for Autonomous Driving from 2021 to 2026.

Chapter 3, the Vision Language Action Models (VLA) for Autonomous Driving competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Vision Language Action Models (VLA) for Autonomous Driving market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Vision Language Action Models (VLA) for Autonomous Driving.

Chapter 13, to describe Vision Language Action Models (VLA) for Autonomous Driving research findings and conclusion.

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