

# Global Vision Language Action Models (VLA) for Autonomous Driving Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Vision Language Action Models (VLA) for Autonomous Driving market size is expected to reach \$ 2370 million by 2032, rising at a market growth of 21.1% CAGR during the forecast period (2026-2032).

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.

This report studies the global Vision Language Action Models (VLA) for Autonomous Driving demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Vision Language Action Models (VLA) for Autonomous Driving, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Vision Language Action Models (VLA) for Autonomous Driving that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Vision Language Action Models (VLA) for Autonomous Driving total market, 2021-2032, (USD Million)

Global Vision Language Action Models (VLA) for Autonomous Driving total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Vision Language Action Models (VLA) for Autonomous Driving total market, key domestic companies, and share, (USD Million)

Global Vision Language Action Models (VLA) for Autonomous Driving revenue by player, revenue and market share 2021-2026, (USD Million)

Global Vision Language Action Models (VLA) for Autonomous Driving total market by Type, CAGR, 2021-2032, (USD Million)

Global Vision Language Action Models (VLA) for Autonomous Driving total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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, Alamy, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Vision Language Action Models (VLA) for Autonomous

Driving market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Vision Language Action Models (VLA) for Autonomous Driving Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vision Language Action Models (VLA) for Autonomous Driving Market, Segmentation by Type:

End-to-end VLA

Hierarchical VLA

Global Vision Language Action Models (VLA) for Autonomous Driving Market, Segmentation by Automation Level:

Level 2/L3 Autonomous Driving Systems

Level 4/L5 Autonomous Driving Systems

Global Vision Language Action Models (VLA) for Autonomous Driving Market,  
Segmentation by Business Model:

Whole Machine + Intelligent Mode (Hardware + Software)

Embodied Intelligent Model (Software)

Global Vision Language Action Models (VLA) for Autonomous Driving Market,  
Segmentation by Application:

Passenger Vehicles

Commercial Vehicles

Companies Profiled:

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

#### Key Questions Answered

1. How big is the global Vision Language Action Models (VLA) for Autonomous Driving market?
2. What is the demand of the global Vision Language Action Models (VLA) for Autonomous Driving market?
3. What is the year over year growth of the global Vision Language Action Models (VLA) for Autonomous Driving market?
4. What is the total value of the global Vision Language Action Models (VLA) for Autonomous Driving market?
5. Who are the Major Players in the global Vision Language Action Models (VLA) for Autonomous Driving market?
6. What are the growth factors driving the market demand?

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