

Global Camera-based Driving-parking Integrated Solution Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Camera-based Driving-parking Integrated Solution market size was valued at US\$ 1338 million in 2025 and is forecast to a readjusted size of US\$ 4278 million by 2032 with a CAGR of 18.1% during review period.

Camera-based Driving-parking Integrated Solution is a LiDAR-free driving and parking integration solution that keeps the product architecture centered on camera perception while using millimeter-wave radar as an auxiliary sensing source to improve distance, speed, and target detection robustness. In 2025, production was 6.5 million units and the average price was USD 200 per unit. The industry's capacity utilization rate in 2025 was about 68%, and the average gross margin was around 23%. Upstream, the key components mainly include computing chips, memory chips, PMIC power management chips, Ethernet switch chips, camera modules, and millimeter-wave radar sensors, with representative suppliers such as Horizon Robotics, SemiDrive, and Micron Technology providing core computing, processing, and storage components. The midstream segment focuses on visual perception algorithm development, radar-camera fusion, sensor interface adaptation, domain controller hardware design, low-compute platform configuration, driving-parking algorithm calibration, in-vehicle communication design, thermal management, functional safety validation, software calibration, system testing, and vehicle-level integration, which together determine perception reliability, cost efficiency, control stability, software scalability, safety performance, and mass-production competitiveness. Downstream, Camera-based Driving-parking Integrated Solution is mainly used in passenger cars and commercial vehicles, helping vehicle platforms integrate basic assisted driving and parking functions through a LiDAR-free camera-centered architecture, with representative customers including Toyota,

Volkswagen, and BYD.

Camera-based Driving-parking Integrated Solution will be adopted where automakers need practical driving-parking integration without the cost pressure of LiDAR. Its key appeal is using cameras as the main perception source, supported by millimeter-wave radar when needed, to cover lane recognition, vehicle detection, pedestrian identification, parking-space recognition, obstacle judgment, and low-speed maneuvering. For ordinary passenger cars, this architecture lowers sensor cost and helps basic assisted driving and parking functions move into higher-volume trims. In commercial vehicles, it can support yard movement, parking assistance, and safety monitoring. Competition will depend on visual perception reliability, radar-camera fusion, calibration efficiency, cost control, and stable mass-production deployment.

This report is a detailed and comprehensive analysis for global Camera-based Driving-parking Integrated Solution 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 2025, are provided.

Key Features:

Global Camera-based Driving-parking Integrated Solution market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Camera-based Driving-parking Integrated Solution market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Camera-based Driving-parking Integrated Solution market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Camera-based Driving-parking Integrated Solution market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Camera-based Driving-parking Integrated Solution

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 Camera-based Driving-parking Integrated Solution 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 Bosch (Germany), Huawei (China), Valeo (France), Desay SV (China), Neusoft Reach (China), Foryou Corporation (China), Jingwei Hiain (China), iMotion Automotive Technology (China), Joyson Electronics (China), etc.

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

Market Segmentation

Camera-based Driving-parking Integrated Solution 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 in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Entry-Level L2 Domain Controller

Highway NOA Domain Controller

Market segment by Computing Power

Computing Power?50TOPS

50TOPS

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