

Global Smart Parking Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Smart Parking Sensors market size is expected to reach \$ 3216 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

In 2025, global smart parking sensors production reached approximately 481.24 M Units, average price is about 4.08 US\$ per Unit.

Smart parking sensor (ultrasonic radar, often simply referred to as 'USS' in the industry) is a type of short-range environmental perception sensor installed on vehicle bumpers, side panels, etc. It emits ultrasonic pulses of a certain frequency and receives the reflected echoes from target objects. Using the time-of-flight difference of the sound waves, it calculates the distance and relative orientation to obstacles, and is used for obstacle detection and ranging in low-speed, short-range scenarios. Its typical coverage area is usually in the close-range area around the vehicle body. It can provide stable distance information for targets such as walls, curbs, pillars, vehicles, and pedestrians under conditions such as parking and low-speed crawling. The ranging results are then output to controllers for functions such as parking assistance, automatic parking, low-speed AEB/collision avoidance warning, and blind spot proximity warning, achieving 'distance-level' safety redundancy and comfort control. Compared to cameras and millimeter-wave radar, ultrasonic radar has the advantages of intuitive ranging of close-range static obstacles, lower cost, and insensitivity to light. Its limitations include shorter detection range, weak reflection from soft/sound-absorbing materials (such as shrubs and fabrics), and potential echo attenuation and multipath interference in strong winds, rain, temperature changes, or complex geometric reflection environments. Therefore, vehicle applications typically employ a multi-sensor layout (such as multiple points on the front and rear bumpers) combined with signal processing and calibration strategies to meet the reliability and consistency requirements of parking and near-field protection.

The continued boom in the automotive market provides the most stable and scalable demand foundation for ultrasonic radar. The ongoing ownership and replacement of passenger cars and light commercial vehicles globally has driven 'reversing/parking assistance' from an optional feature to a mainstream configuration. Simultaneously, urban congestion and parking space shortages have increased the risk of low-speed collisions, enhancing consumers' willingness to pay for low-speed safety and parking convenience, thus driving the penetration rate of parking functions from UPA to APA and even higher levels. More importantly, with the evolution of smart cockpits towards larger screens and domain control architectures, ultrasonic radar, as a cost-effective sensor for near-field perception, can complement cameras and millimeter-wave sensors, achieving denser perimeter coverage of the vehicle at a lower cost in low-speed, close-range scenarios, thereby driving simultaneous growth in both the number of vehicles used and the overall value of the vehicle.

National industrial policy support has significantly reduced the uncertainty of industry R&D and adoption, and accelerated product iteration and localization processes. Policy guidance from various countries focusing on new energy vehicles, intelligent connectivity, and road safety is driving OEMs to accelerate the standardization of ADAS and parking functions. Simultaneously, the continuous improvement of standards systems for automotive-grade reliability, functional safety, communication interfaces, and testing and verification enables the supply chain to conduct platform-based development and mass production within clearly defined technical routes and compliance boundaries. For domestic supply chains, industrial policies often support sensor manufacturers in continuously investing in materials, packaging, processes, testing equipment, and quality systems through R&D subsidies, major projects, demonstration applications, industrial cluster construction, and strengthening and supplementing the supply chain for key components. This improves yield and consistency, thereby driving cost reduction and ASP structure optimization, forming a positive cycle of 'performance improvement?mass production?cost reduction?further penetration.'

The increasing pre-installation rate of ultrasonic radar is the primary driver of market expansion. As more consumers become aware of parking safety and the risks of low-speed collisions, reversing/parking assistance is gradually shifting from an 'optional comfort feature' to a 'basic safety and convenience feature.' Driven by cost reductions, platform development, and a mature supply chain, OEMs are making ultrasonic radar standard equipment or offering it as a high-end feature across a wider range of models. Market demand is rapidly penetrating from mid-to-high-end models to mainstream mid-

to-low-end models. Once integrated into mainstream model platforms, ultrasonic radar exhibits a positive cycle of 'mass production ? further cost reduction ? continued increase in penetration rate,' leading to more stable incremental installations and more predictable shipment growth.

The shift in configuration structure from primarily 'front and rear UPA' to 'front and rear + lateral APA' is a key driver of increased per-vehicle value. Traditional UPA (Upper Usage Area Detection) sensors primarily address distance indication during reversing and low-speed edge maneuvers, with a relatively limited number of sensors. However, with the widespread adoption of automatic parking capabilities, vehicles require denser near-field coverage in areas such as the sides and corners. Side/corner APA sensors have become a crucial perception foundation for parking space recognition, parking space boundary constraints, and obstacle avoidance during parking, driving an upgrade in the number of sensors per vehicle from a few points to a multi-point perimeter deployment. Simultaneously, automatic parking places higher demands on interference resistance, refresh rate, blind spot control, functional safety, and communication interfaces, accelerating the adoption of next-generation high-performance ultrasonic solutions. Consequently, market growth stems not only from increased installation volume but also from improved ASP (Average Selling Price) and system value resulting from product generation upgrades.

This report studies the global Smart Parking Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Smart Parking Sensors 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 Smart Parking Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Smart Parking Sensors total production and demand, 2021-2032, (M Units)

Global Smart Parking Sensors total production value, 2021-2032, (USD Million)

Global Smart Parking Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (M Units), (based on production site)

Global Smart Parking Sensors consumption by region & country, CAGR, 2021-2032 & (M Units)

U.S. VS China: Smart Parking Sensors domestic production, consumption, key domestic manufacturers and share

Global Smart Parking Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (M Units)

Global Smart Parking Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (M Units)

Global Smart Parking Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (M Units)

This report profiles key players in the global Smart Parking Sensors market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Valeo, Bosch, Whetron, Tung Thih Electronic, Denso, Hyundai Mobis, Longhorn, Panasonic Automotive Systems, Jingle Electronic, Coligen, 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 Smart Parking Sensors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M Units) and average price (US\$/Unit) by manufacturer, 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 Smart Parking Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Smart Parking Sensors Market, Segmentation by Type:

APA Ultrasonic Radar

UPA Ultrasonic Radar

Global Smart Parking Sensors Market, Segmentation by Technology:

AK1 Ultrasonic Radar

AK2 Ultrasonic Radar

Global Smart Parking Sensors Market, Segmentation by End User:

New Energy Vehicles

ICE Vehicles

Global Smart Parking Sensors Market, Segmentation by Application:

OEM

Aftermarket

Companies Profiled:

Valeo

Bosch

Whetron

Tung Thih Electronic

Denso

Hyundai Mobis

Longhorn

Panasonic Automotive Systems

Jingle Electronic

Coligen

Forvision

Softec

Hikauto

Desay SV

Key Questions Answered:

1. How big is the global Smart Parking Sensors market?
2. What is the demand of the global Smart Parking Sensors market?
3. What is the year over year growth of the global Smart Parking Sensors market?
4. What is the production and production value of the global Smart Parking Sensors market?
5. Who are the key producers in the global Smart Parking Sensors market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Smart Parking Sensors Introduction
- 1.2 World Smart Parking Sensors Supply & Forecast
 - 1.2.1 World Smart Parking Sensors Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Smart Parking Sensors Production (2021-2032)
 - 1.2.3 World Smart Parking Sensors Pricing Trends (2021-2032)
- 1.3 World Smart Parking Sensors Production by Region (Based on Production Site)
 - 1.3.1 World Smart Parking Sensors Production Value by Region (2021-2032)
 - 1.3.2 World Smart Parking Sensors Production by Region (2021-2032)
 - 1.3.3 World Smart Parking Sensors Average Price by Region (2021-2032)
 - 1.3.4 North America Smart Parking Sensors Production (2021-2032)
 - 1.3.5 Europe Smart Parking Sensors Production (2021-2032)
 - 1.3.6 China Smart Parking Sensors Production (2021-2032)
 - 1.3.7 Japan Smart Parking Sensors Production (2021-2032)
 - 1.3.8 South Korea Smart Parking Sensors Production (2021-2032)
 - 1.3.9 India Smart Parking Sensors Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Smart Parking Sensors Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Smart Parking Sensors Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Smart Parking Sensors Demand (2021-2032)
- 2.2 World Smart Parking Sensors Consumption by Region
 - 2.2.1 World Smart Parking Sensors Consumption by Region (2021-2026)
 - 2.2.2 World Smart Parking Sensors Consumption Forecast by Region (2027-2032)
- 2.3 United States Smart Parking Sensors Consumption (2021-2032)
- 2.4 China Smart Parking Sensors Consumption (2021-2032)
- 2.5 Europe Smart Parking Sensors Consumption (2021-2032)
- 2.6 Japan Smart Parking Sensors Consumption (2021-2032)
- 2.7 South Korea Smart Parking Sensors Consumption (2021-2032)
- 2.8 ASEAN Smart Parking Sensors Consumption (2021-2032)
- 2.9 India Smart Parking Sensors Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Smart Parking Sensors Production Value by Manufacturer (2021-2026)
- 3.2 World Smart Parking Sensors Production by Manufacturer (2021-2026)
- 3.3 World Smart Parking Sensors Average Price by Manufacturer (2021-2026)
- 3.4 Smart Parking Sensors Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Smart Parking Sensors Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Smart Parking Sensors in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Smart Parking Sensors in 2025
- 3.6 Smart Parking Sensors Market: Overall Company Footprint Analysis
 - 3.6.1 Smart Parking Sensors Market: Region Footprint
 - 3.6.2 Smart Parking Sensors Market: Company Product Type Footprint
 - 3.6.3 Smart Parking Sensors Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Smart Parking Sensors Production Value Comparison
 - 4.1.1 United States VS China: Smart Parking Sensors Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Smart Parking Sensors Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Smart Parking Sensors Production Comparison
 - 4.2.1 United States VS China: Smart Parking Sensors Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Smart Parking Sensors Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Smart Parking Sensors Consumption Comparison
 - 4.3.1 United States VS China: Smart Parking Sensors Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Smart Parking Sensors Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Smart Parking Sensors Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Smart Parking Sensors Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Smart Parking Sensors Production Value (2021-2026)

4.4.3 United States Based Manufacturers Smart Parking Sensors Production (2021-2026)

4.5 China Based Smart Parking Sensors Manufacturers and Market Share

4.5.1 China Based Smart Parking Sensors Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Smart Parking Sensors Production Value (2021-2026)

4.5.3 China Based Manufacturers Smart Parking Sensors Production (2021-2026)

4.6 Rest of World Based Smart Parking Sensors Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Smart Parking Sensors Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Smart Parking Sensors Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Smart Parking Sensors Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Smart Parking Sensors Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 APA Ultrasonic Radar

5.2.2 UPA Ultrasonic Radar

5.3 Market Segment by Type

5.3.1 World Smart Parking Sensors Production by Type (2021-2032)

5.3.2 World Smart Parking Sensors Production Value by Type (2021-2032)

5.3.3 World Smart Parking Sensors Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY TECHNOLOGY

6.1 World Smart Parking Sensors Market Size Overview by Technology: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Technology

6.2.1 AK1 Ultrasonic Radar

6.2.2 AK2 Ultrasonic Radar

6.3 Market Segment by Technology

6.3.1 World Smart Parking Sensors Production by Technology (2021-2032)

6.3.2 World Smart Parking Sensors Production Value by Technology (2021-2032)

6.3.3 World Smart Parking Sensors Average Price by Technology (2021-2032)

7 MARKET ANALYSIS BY END USER

7.1 World Smart Parking Sensors Market Size Overview by End User: 2021 VS 2025 VS 2032

7.2 Segment Introduction by End User

7.2.1 New Energy Vehicles

7.2.2 ICE Vehicles

7.3 Market Segment by End User

7.3.1 World Smart Parking Sensors Production by End User (2021-2032)

7.3.2 World Smart Parking Sensors Production Value by End User (2021-2032)

7.3.3 World Smart Parking Sensors Average Price by End User (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Smart Parking Sensors Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 OEM

8.2.2 Aftermarket

8.3 Market Segment by Application

8.3.1 World Smart Parking Sensors Production by Application (2021-2032)

8.3.2 World Smart Parking Sensors Production Value by Application (2021-2032)

8.3.3 World Smart Parking Sensors Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Valeo

9.1.1 Valeo Details

9.1.2 Valeo Major Business

9.1.3 Valeo Smart Parking Sensors Product and Services

9.1.4 Valeo Smart Parking Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Valeo Recent Developments/Updates

- 9.1.6 Valeo Competitive Strengths & Weaknesses
- 9.2 Bosch
 - 9.2.1 Bosch Details
 - 9.2.2 Bosch Major Business
 - 9.2.3 Bosch Smart Parking Sensors Product and Services
 - 9.2.4 Bosch Smart Parking Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Bosch Recent Developments/Updates
 - 9.2.6 Bosch Competitive Strengths & Weaknesses
- 9.3 Whetron
 - 9.3.1 Whetron Details
 - 9.3.2 Whetron Major Business
 - 9.3.3 Whetron Smart Parking Sensors Product and Services
 - 9.3.4 Whetron Smart Parking Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Whetron Recent Developments/Updates
 - 9.3.6 Whetron Competitive Strengths & Weaknesses
- 9.4 Tung Thih Electronic
 - 9.4.1 Tung Thih Electronic Details
 - 9.4.2 Tung Thih Electronic Major Business
 - 9.4.3 Tung Thih Electronic Smart Parking Sensors Product and Services
 - 9.4.4 Tung Thih Electronic Smart Parking Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Tung Thih Electronic Recent Developments/Updates
 - 9.4.6 Tung Thih Electronic Competitive Strengths & Weaknesses
- 9.5 Denso
 - 9.5.1 Denso Details
 - 9.5.2 Denso Major Business
 - 9.5.3 Denso Smart Parking Sensors Product and Services
 - 9.5.4 Denso Smart Parking Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Denso Recent Developments/Updates
 - 9.5.6 Denso Competitive Strengths & Weaknesses
- 9.6 Hyundai Mobis
 - 9.6.1 Hyundai Mobis Details
 - 9.6.2 Hyundai Mobis Major Business
 - 9.6.3 Hyundai Mobis Smart Parking Sensors Product and Services
 - 9.6.4 Hyundai Mobis Smart Parking Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.6.5 Hyundai Mobis Recent Developments/Updates
- 9.6.6 Hyundai Mobis Competitive Strengths & Weaknesses
- 9.7 Longhorn
 - 9.7.1 Longhorn Details
 - 9.7.2 Longhorn Major Business
 - 9.7.3 Longhorn Smart Parking Sensors Product and Services
 - 9.7.4 Longhorn Smart Parking Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Longhorn Recent Developments/Updates
 - 9.7.6 Longhorn Competitive Strengths & Weaknesses
- 9.8 Panasonic Automotive Systems
 - 9.8.1 Panasonic Automotive Systems Details
 - 9.8.2 Panasonic Automotive Systems Major Business
 - 9.8.3 Panasonic Automotive Systems Smart Parking Sensors Product and Services
 - 9.8.4 Panasonic Automotive Systems Smart Parking Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Panasonic Automotive Systems Recent Developments/Updates
 - 9.8.6 Panasonic Automotive Systems Competitive Strengths & Weaknesses
- 9.9 Jingle Electronic
 - 9.9.1 Jingle Electronic Details
 - 9.9.2 Jingle Electronic Major Business
 - 9.9.3 Jingle Electronic Smart Parking Sensors Product and Services
 - 9.9.4 Jingle Electronic Smart Parking Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Jingle Electronic Recent Developments/Updates
 - 9.9.6 Jingle Electronic Competitive Strengths & Weaknesses
- 9.10 Coligen
 - 9.10.1 Coligen Details
 - 9.10.2 Coligen Major Business
 - 9.10.3 Coligen Smart Parking Sensors Product and Services
 - 9.10.4 Coligen Smart Parking Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Coligen Recent Developments/Updates
 - 9.10.6 Coligen Competitive Strengths & Weaknesses
- 9.11 Forvision
 - 9.11.1 Forvision Details
 - 9.11.2 Forvision Major Business
 - 9.11.3 Forvision Smart Parking Sensors Product and Services
 - 9.11.4 Forvision Smart Parking Sensors Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.11.5 Forvision Recent Developments/Updates

9.11.6 Forvision Competitive Strengths & Weaknesses

9.12 Softec

9.12.1 Softec Details

9.12.2 Softec Major Business

9.12.3 Softec Smart Parking Sensors Product and Services

9.12.4 Softec Smart Parking Sensors Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.12.5 Softec Recent Developments/Updates

9.12.6 Softec Competitive Strengths & Weaknesses

9.13 Hikauto

9.13.1 Hikauto Details

9.13.2 Hikauto Major Business

9.13.3 Hikauto Smart Parking Sensors Product and Services

9.13.4 Hikauto Smart Parking Sensors Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.13.5 Hikauto Recent Developments/Updates

9.13.6 Hikauto Competitive Strengths & Weaknesses

9.14 Desay SV

9.14.1 Desay SV Details

9.14.2 Desay SV Major Business

9.14.3 Desay SV Smart Parking Sensors Product and Services

9.14.4 Desay SV Smart Parking Sensors Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.14.5 Desay SV Recent Developments/Updates

9.14.6 Desay SV Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Smart Parking Sensors Industry Chain

10.2 Smart Parking Sensors Upstream Analysis

10.2.1 Smart Parking Sensors Core Raw Materials

10.2.2 Main Manufacturers of Smart Parking Sensors Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Smart Parking Sensors Production Mode

10.6 Smart Parking Sensors Procurement Model

10.7 Smart Parking Sensors Industry Sales Model and Sales Channels

10.7.1 Smart Parking Sensors Sales Model

10.7.2 Smart Parking Sensors Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Smart Parking Sensors Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Smart Parking Sensors Production Value by Region (2021-2026) & (USD Million)

Table 3. World Smart Parking Sensors Production Value by Region (2027-2032) & (USD Million)

Table 4. World Smart Parking Sensors Production Value Market Share by Region (2021-2026)

Table 5. World Smart Parking Sensors Production Value Market Share by Region (2027-2032)

Table 6. World Smart Parking Sensors Production by Region (2021-2026) & (M Units)

Table 7. World Smart Parking Sensors Production by Region (2027-2032) & (M Units)

Table 8. World Smart Parking Sensors Production Market Share by Region (2021-2026)

Table 9. World Smart Parking Sensors Production Market Share by Region (2027-2032)

Table 10. World Smart Parking Sensors Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Smart Parking Sensors Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Smart Parking Sensors Major Market Trends

Table 13. World Smart Parking Sensors Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (M Units)

Table 14. World Smart Parking Sensors Consumption by Region (2021-2026) & (M Units)

Table 15. World Smart Parking Sensors Consumption Forecast by Region (2027-2032) & (M Units)

Table 16. World Smart Parking Sensors Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Smart Parking Sensors Producers in 2025

Table 18. World Smart Parking Sensors Production by Manufacturer (2021-2026) & (M Units)

Table 19. Production Market Share of Key Smart Parking Sensors Producers in 2025

Table 20. World Smart Parking Sensors Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Smart Parking Sensors Company Evaluation Quadrant

Table 22. World Smart Parking Sensors Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Smart Parking Sensors Production Site of Key Manufacturer

Table 24. Smart Parking Sensors Market: Company Product Type Footprint

Table 25. Smart Parking Sensors Market: Company Product Application Footprint

Table 26. Smart Parking Sensors Competitive Factors

Table 27. Smart Parking Sensors New Entrant and Capacity Expansion Plans

Table 28. Smart Parking Sensors Mergers & Acquisitions Activity

Table 29. United States VS China Smart Parking Sensors Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Smart Parking Sensors Production Comparison, (2021 & 2025 & 2032) & (M Units)

Table 31. United States VS China Smart Parking Sensors Consumption Comparison, (2021 & 2025 & 2032) & (M Units)

Table 32. United States Based Smart Parking Sensors Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Smart Parking Sensors Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Smart Parking Sensors Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Smart Parking Sensors Production (2021-2026) & (M Units)

Table 36. United States Based Manufacturers Smart Parking Sensors Production Market Share (2021-2026)

Table 37. China Based Smart Parking Sensors Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Smart Parking Sensors Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Smart Parking Sensors Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Smart Parking Sensors Production, (2021-2026) & (M Units)

Table 41. China Based Manufacturers Smart Parking Sensors Production Market Share (2021-2026)

Table 42. Rest of World Based Smart Parking Sensors Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Smart Parking Sensors Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Smart Parking Sensors Production Value

Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Smart Parking Sensors Production, (2021-2026) & (M Units)

Table 46. Rest of World Based Manufacturers Smart Parking Sensors Production Market Share (2021-2026)

Table 47. World Smart Parking Sensors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Smart Parking Sensors Production by Type (2021-2026) & (M Units)

Table 49. World Smart Parking Sensors Production by Type (2027-2032) & (M Units)

Table 50. World Smart Parking Sensors Production Value by Type (2021-2026) & (USD Million)

Table 51. World Smart Parking Sensors Production Value by Type (2027-2032) & (USD Million)

Table 52. World Smart Parking Sensors Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Smart Parking Sensors Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Smart Parking Sensors Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 55. World Smart Parking Sensors Production by Technology (2021-2026) & (M Units)

Table 56. World Smart Parking Sensors Production by Technology (2027-2032) & (M Units)

Table 57. World Smart Parking Sensors Production Value by Technology (2021-2026) & (USD Million)

Table 58. World Smart Parking Sensors Production Value by Technology (2027-2032) & (USD Million)

Table 59. World Smart Parking Sensors Average Price by Technology (2021-2026) & (US\$/Unit)

Table 60. World Smart Parking Sensors Average Price by Technology (2027-2032) & (US\$/Unit)

Table 61. World Smart Parking Sensors Production Value by End User, (USD Million), 2021 & 2025 & 2032

Table 62. World Smart Parking Sensors Production by End User (2021-2026) & (M Units)

Table 63. World Smart Parking Sensors Production by End User (2027-2032) & (M Units)

Table 64. World Smart Parking Sensors Production Value by End User (2021-2026) & (USD Million)

Table 65. World Smart Parking Sensors Production Value by End User (2027-2032) & (USD Million)

Table 66. World Smart Parking Sensors Average Price by End User (2021-2026) & (US\$/Unit)

Table 67. World Smart Parking Sensors Average Price by End User (2027-2032) & (US\$/Unit)

Table 68. World Smart Parking Sensors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Smart Parking Sensors Production by Application (2021-2026) & (M Units)

Table 70. World Smart Parking Sensors Production by Application (2027-2032) & (M Units)

Table 71. World Smart Parking Sensors Production Value by Application (2021-2026) & (USD Million)

Table 72. World Smart Parking Sensors Production Value by Application (2027-2032) & (USD Million)

Table 73. World Smart Parking Sensors Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Smart Parking Sensors Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Valeo Basic Information, Manufacturing Base and Competitors

Table 76. Valeo Major Business

Table 77. Valeo Smart Parking Sensors Product and Services

Table 78. Valeo Smart Parking Sensors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Valeo Recent Developments/Updates

Table 80. Valeo Competitive Strengths & Weaknesses

Table 81. Bosch Basic Information, Manufacturing Base and Competitors

Table 82. Bosch Major Business

Table 83. Bosch Smart Parking Sensors Product and Services

Table 84. Bosch Smart Parking Sensors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Bosch Recent Developments/Updates

Table 86. Bosch Competitive Strengths & Weaknesses

Table 87. Whetron Basic Information, Manufacturing Base and Competitors

Table 88. Whetron Major Business

Table 89. Whetron Smart Parking Sensors Product and Services

Table 90. Whetron Smart Parking Sensors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Whetron Recent Developments/Updates

Table 92. Whetron Competitive Strengths & Weaknesses

Table 93. Tung Thih Electronic Basic Information, Manufacturing Base and Competitors

Table 94. Tung Thih Electronic Major Business

Table 95. Tung Thih Electronic Smart Parking Sensors Product and Services

Table 96. Tung Thih Electronic Smart Parking Sensors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Tung Thih Electronic Recent Developments/Updates

Table 98. Tung Thih Electronic Competitive Strengths & Weaknesses

Table 99. Denso Basic Information, Manufacturing Base and Competitors

Table 100. Denso Major Business

Table 101. Denso Smart Parking Sensors Product and Services

Table 102. Denso Smart Parking Sensors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Denso Recent Developments/Updates

Table 104. Denso Competitive Strengths & Weaknesses

Table 105. Hyundai Mobis Basic Information, Manufacturing Base and Competitors

Table 106. Hyundai Mobis Major Business

Table 107. Hyundai Mobis Smart Parking Sensors Product and Services

Table 108. Hyundai Mobis Smart Parking Sensors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Hyundai Mobis Recent Developments/Updates

Table 110. Hyundai Mobis Competitive Strengths & Weaknesses

Table 111. Longhorn Basic Information, Manufacturing Base and Competitors

Table 112. Longhorn Major Business

Table 113. Longhorn Smart Parking Sensors Product and Services

Table 114. Longhorn Smart Parking Sensors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Longhorn Recent Developments/Updates

Table 116. Longhorn Competitive Strengths & Weaknesses

Table 117. Panasonic Automotive Systems Basic Information, Manufacturing Base and Competitors

Table 118. Panasonic Automotive Systems Major Business

Table 119. Panasonic Automotive Systems Smart Parking Sensors Product and Services

Table 120. Panasonic Automotive Systems Smart Parking Sensors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 121. Panasonic Automotive Systems Recent Developments/Updates

Table 122. Panasonic Automotive Systems Competitive Strengths & Weaknesses

Table 123. Jingle Electronic Basic Information, Manufacturing Base and Competitors

Table 124. Jingle Electronic Major Business

Table 125. Jingle Electronic Smart Parking Sensors Product and Services

Table 126. Jingle Electronic Smart Parking Sensors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Jingle Electronic Recent Developments/Updates

Table 128. Jingle Electronic Competitive Strengths & Weaknesses

Table 129. Coligen Basic Information, Manufacturing Base and Competitors

Table 130. Coligen Major Business

Table 131. Coligen Smart Parking Sensors Product and Services

Table 132. Coligen Smart Parking Sensors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Coligen Recent Developments/Updates

Table 134. Coligen Competitive Strengths & Weaknesses

Table 135. Forvision Basic Information, Manufacturing Base and Competitors

Table 136. Forvision Major Business

Table 137. Forvision Smart Parking Sensors Product and Services

Table 138. Forvision Smart Parking Sensors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Forvision Recent Developments/Updates

Table 140. Forvision Competitive Strengths & Weaknesses

Table 141. Softec Basic Information, Manufacturing Base and Competitors

Table 142. Softec Major Business

Table 143. Softec Smart Parking Sensors Product and Services

Table 144. Softec Smart Parking Sensors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Softec Recent Developments/Updates

Table 146. Softec Competitive Strengths & Weaknesses

Table 147. Hikauto Basic Information, Manufacturing Base and Competitors

Table 148. Hikauto Major Business

Table 149. Hikauto Smart Parking Sensors Product and Services

Table 150. Hikauto Smart Parking Sensors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Hikauto Recent Developments/Updates

Table 152. Hikauto Competitive Strengths & Weaknesses

Table 153. Desay SV Basic Information, Manufacturing Base and Competitors

Table 154. Desay SV Major Business

Table 155. Desay SV Smart Parking Sensors Product and Services

Table 156. Desay SV Smart Parking Sensors Production (M Units), Price (US\$/Unit),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Desay SV Recent Developments/Updates

Table 158. Desay SV Competitive Strengths & Weaknesses

Table 159. Global Key Players of Smart Parking Sensors Upstream (Raw Materials)

Table 160. Global Smart Parking Sensors Typical Customers

Table 161. Smart Parking Sensors Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Smart Parking Sensors Picture

Figure 2. World Smart Parking Sensors Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Smart Parking Sensors Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Smart Parking Sensors Production (2021-2032) & (M Units)

Figure 5. World Smart Parking Sensors Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Smart Parking Sensors Production Value Market Share by Region (2021-2032)

Figure 7. World Smart Parking Sensors Production Market Share by Region (2021-2032)

Figure 8. North America Smart Parking Sensors Production (2021-2032) & (M Units)

Figure 9. Europe Smart Parking Sensors Production (2021-2032) & (M Units)

Figure 10. China Smart Parking Sensors Production (2021-2032) & (M Units)

Figure 11. Japan Smart Parking Sensors Production (2021-2032) & (M Units)

Figure 12. South Korea Smart Parking Sensors Production (2021-2032) & (M Units)

Figure 13. India Smart Parking Sensors Production (2021-2032) & (M Units)

Figure 14. Smart Parking Sensors Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Smart Parking Sensors Consumption (2021-2032) & (M Units)

Figure 17. World Smart Parking Sensors Consumption Market Share by Region (2021-2032)

Figure 18. United States Smart Parking Sensors Consumption (2021-2032) & (M Units)

Figure 19. China Smart Parking Sensors Consumption (2021-2032) & (M Units)

Figure 20. Europe Smart Parking Sensors Consumption (2021-2032) & (M Units)

Figure 21. Japan Smart Parking Sensors Consumption (2021-2032) & (M Units)

Figure 22. South Korea Smart Parking Sensors Consumption (2021-2032) & (M Units)

Figure 23. ASEAN Smart Parking Sensors Consumption (2021-2032) & (M Units)

Figure 24. India Smart Parking Sensors Consumption (2021-2032) & (M Units)

Figure 25. Producer Shipments of Smart Parking Sensors by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Smart Parking Sensors Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Smart Parking Sensors Markets in 2025

Figure 28. United States VS China: Smart Parking Sensors Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Smart Parking Sensors Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Smart Parking Sensors Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Smart Parking Sensors Production Market Share 2025

Figure 32. China Based Manufacturers Smart Parking Sensors Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Smart Parking Sensors Production Market Share 2025

Figure 34. World Smart Parking Sensors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Smart Parking Sensors Production Value Market Share by Type in 2025

Figure 36. APA Ultrasonic Radar

Figure 37. UPA Ultrasonic Radar

Figure 38. World Smart Parking Sensors Production Market Share by Type (2021-2032)

Figure 39. World Smart Parking Sensors Production Value Market Share by Type (2021-2032)

Figure 40. World Smart Parking Sensors Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Smart Parking Sensors Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Figure 42. World Smart Parking Sensors Production Value Market Share by Technology in 2025

Figure 43. AK1 Ultrasonic Radar

Figure 44. AK2 Ultrasonic Radar

Figure 45. World Smart Parking Sensors Production Market Share by Technology (2021-2032)

Figure 46. World Smart Parking Sensors Production Value Market Share by Technology (2021-2032)

Figure 47. World Smart Parking Sensors Average Price by Technology (2021-2032) & (US\$/Unit)

Figure 48. World Smart Parking Sensors Production Value by End User, (USD Million), 2021 & 2025 & 2032

Figure 49. World Smart Parking Sensors Production Value Market Share by End User in 2025

Figure 50. New Energy Vehicles

Figure 51. ICE Vehicles

Figure 52. World Smart Parking Sensors Production Market Share by End User
(2021-2032)

Figure 53. World Smart Parking Sensors Production Value Market Share by End User
(2021-2032)

Figure 54. World Smart Parking Sensors Average Price by End User (2021-2032) &
(US\$/Unit)

Figure 55. World Smart Parking Sensors Production Value by Application, (USD
Million), 2021 & 2025 & 2032

Figure 56. World Smart Parking Sensors Production Value Market Share by Application
in 2025

Figure 57. OEM

Figure 58. Aftermarket

Figure 59. World Smart Parking Sensors Production Market Share by Application
(2021-2032)

Figure 60. World Smart Parking Sensors Production Value Market Share by Application
(2021-2032)

Figure 61. World Smart Parking Sensors Average Price by Application (2021-2032) &
(US\$/Unit)

Figure 62. Smart Parking Sensors Industry Chain

Figure 63. Smart Parking Sensors Procurement Model

Figure 64. Smart Parking Sensors Sales Model

Figure 65. Smart Parking Sensors Sales Channels, Direct Sales, and Distribution

Figure 66. Methodology

Figure 67. Research Process and Data Source

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