

Global Automotive Biometric Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Biometric Sensors market size is expected to reach \$ 2536 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

In 2025, global automotive biometric sensor production capacity is approximately 50.0 million units, with actual production reaching about 40.0 million units. The average global market price is around US\$40 per unit. The market gross profit margin mainly ranges from 30% to 45%. Automotive biometric sensors are sensing devices integrated into vehicles to detect and analyze physiological or behavioral characteristics of drivers and passengers. These sensors can capture biometric signals such as heart rate, facial features, fingerprints, eye movement, and respiration patterns, enabling identity verification, driver monitoring, and health status detection. Automotive biometric sensors are increasingly used in advanced driver monitoring systems (DMS), in-cabin sensing platforms, and vehicle access control systems. They support functions such as driver authentication, fatigue detection, distraction monitoring, and personalized vehicle settings. With the rapid development of intelligent vehicles and connected car technologies, biometric sensors are becoming an important component of in-vehicle human-machine interaction systems. The integration of optical sensors, infrared cameras, capacitive sensors, and physiological monitoring technologies is enabling vehicles to better understand and respond to the physical condition and behavior of occupants.

The upstream of the automotive biometric sensor industry chain mainly includes semiconductor components, optical sensors, infrared imaging modules, biometric recognition chips, microcontrollers, and electronic materials. Key technologies involve fingerprint sensing modules, facial recognition cameras, heart rate sensors, and infrared

driver monitoring components. The midstream focuses on sensor design, module integration, and system-level development, including algorithm optimization, signal processing, and hardware-software integration. Automotive suppliers and electronics manufacturers collaborate closely to ensure compliance with automotive-grade standards and reliability requirements. The downstream applications are mainly in passenger vehicles, commercial vehicles, and intelligent mobility platforms. These sensors are integrated into vehicle access systems, driver monitoring systems, health monitoring systems, and personalized infotainment platforms. As the automotive industry shifts toward autonomous driving and intelligent cockpits, biometric sensing technologies are becoming a key enabler of safer and more personalized in-vehicle experiences.

The automotive biometric sensor market is experiencing rapid growth as vehicles become increasingly intelligent and connected. One of the primary drivers is the growing demand for advanced driver monitoring systems aimed at improving road safety. Regulatory bodies in several regions are introducing safety standards that require driver attention monitoring and fatigue detection systems, which rely heavily on biometric sensing technologies.

The shift toward intelligent cockpit systems is another important factor. Modern vehicles are integrating facial recognition, fingerprint authentication, and physiological monitoring features to provide personalized driving experiences and enhanced security. These technologies enable vehicles to automatically adjust seat position, climate settings, and infotainment preferences based on the recognized driver.

Additionally, the development of autonomous driving technologies is expected to further expand the role of biometric sensors. As vehicles transition toward higher levels of automation, monitoring the physical condition and readiness of drivers becomes increasingly important. Biometric sensors help ensure safe human-machine interaction and support new in-cabin health monitoring and safety functions.

This report studies the global Automotive Biometric Sensors production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Automotive Biometric Sensors total production and demand, 2021-2032, (K Units)

Global Automotive Biometric Sensors total production value, 2021-2032, (USD Million)

Global Automotive Biometric Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive Biometric Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Biometric Sensors domestic production, consumption, key domestic manufacturers and share

Global Automotive Biometric Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive Biometric Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Biometric Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Biometric 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 Cognitec Systems, Continental, Denso Corporation, EGiS Technologies, EyeLock, Fingerprint Cards, Flex, Gentex Corporation, HID Global, Honeywell, 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 Automotive Biometric Sensors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Automotive Biometric Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Biometric Sensors Market, Segmentation by Type:

Fingerprint

Facial

Iris

Others

Global Automotive Biometric Sensors Market, Segmentation by Sensor Technology:

Optical

Capacitive

Infrared

Global Automotive Biometric Sensors Market, Segmentation by Integration Location:

Steering Wheel

Seat

Dashboard

Others

Global Automotive Biometric Sensors Market, Segmentation by Application:

Passenger Cars

Commercial Vehicles

Companies Profiled:

Cognitec Systems

Continental

Denso Corporation

EGiS Technologies

EyeLock

Fingerprint Cards

Flex

Gentex Corporation

HID Global

Honeywell

Iritech

NXP Semiconductors

SecuGen Corporation

Synaptics

Valeo

Visteon Corporation

ZF Friedrichshafen

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Automotive Biometric Sensors Production Value by Manufacturer (2021-2026)
- 3.2 World Automotive Biometric Sensors Production by Manufacturer (2021-2026)
- 3.3 World Automotive Biometric Sensors Average Price by Manufacturer (2021-2026)
- 3.4 Automotive Biometric Sensors Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Automotive Biometric Sensors Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Automotive Biometric Sensors in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Automotive Biometric Sensors in 2025
- 3.6 Automotive Biometric Sensors Market: Overall Company Footprint Analysis
 - 3.6.1 Automotive Biometric Sensors Market: Region Footprint
 - 3.6.2 Automotive Biometric Sensors Market: Company Product Type Footprint
 - 3.6.3 Automotive Biometric 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: Automotive Biometric Sensors Production Value Comparison
 - 4.1.1 United States VS China: Automotive Biometric Sensors Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Automotive Biometric Sensors Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Automotive Biometric Sensors Production Comparison
 - 4.2.1 United States VS China: Automotive Biometric Sensors Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Automotive Biometric Sensors Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Automotive Biometric Sensors Consumption Comparison
 - 4.3.1 United States VS China: Automotive Biometric Sensors Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Automotive Biometric Sensors Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Automotive Biometric Sensors Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Automotive Biometric Sensors Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Automotive Biometric Sensors Production Value (2021-2026)

4.4.3 United States Based Manufacturers Automotive Biometric Sensors Production (2021-2026)

4.5 China Based Automotive Biometric Sensors Manufacturers and Market Share

4.5.1 China Based Automotive Biometric Sensors Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Automotive Biometric Sensors Production Value (2021-2026)

4.5.3 China Based Manufacturers Automotive Biometric Sensors Production (2021-2026)

4.6 Rest of World Based Automotive Biometric Sensors Manufacturers and Market Share, 2021-2026

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

4.6.2 Rest of World Based Manufacturers Automotive Biometric Sensors Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Automotive Biometric Sensors Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Automotive Biometric Sensors Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Fingerprint

5.2.2 Facial

5.2.3 Iris

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Automotive Biometric Sensors Production by Type (2021-2032)

5.3.2 World Automotive Biometric Sensors Production Value by Type (2021-2032)

5.3.3 World Automotive Biometric Sensors Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SENSOR TECHNOLOGY

6.1 World Automotive Biometric Sensors Market Size Overview by Sensor Technology: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Sensor Technology

6.2.1 Optical

6.2.2 Capacitive

6.2.3 Infrared

6.3 Market Segment by Sensor Technology

6.3.1 World Automotive Biometric Sensors Production by Sensor Technology (2021-2032)

6.3.2 World Automotive Biometric Sensors Production Value by Sensor Technology (2021-2032)

6.3.3 World Automotive Biometric Sensors Average Price by Sensor Technology (2021-2032)

7 MARKET ANALYSIS BY INTEGRATION LOCATION

7.1 World Automotive Biometric Sensors Market Size Overview by Integration Location: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Integration Location

7.2.1 Steering Wheel

7.2.2 Seat

7.2.3 Dashboard

7.2.4 Others

7.3 Market Segment by Integration Location

7.3.1 World Automotive Biometric Sensors Production by Integration Location (2021-2032)

7.3.2 World Automotive Biometric Sensors Production Value by Integration Location (2021-2032)

7.3.3 World Automotive Biometric Sensors Average Price by Integration Location (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Automotive Biometric Sensors Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

- 8.2.1 Passenger Cars
- 8.2.2 Commercial Vehicles
- 8.3 Market Segment by Application
 - 8.3.1 World Automotive Biometric Sensors Production by Application (2021-2032)
 - 8.3.2 World Automotive Biometric Sensors Production Value by Application (2021-2032)
 - 8.3.3 World Automotive Biometric Sensors Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Cognitec Systems
 - 9.1.1 Cognitec Systems Details
 - 9.1.2 Cognitec Systems Major Business
 - 9.1.3 Cognitec Systems Automotive Biometric Sensors Product and Services
 - 9.1.4 Cognitec Systems Automotive Biometric Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.1.5 Cognitec Systems Recent Developments/Updates
 - 9.1.6 Cognitec Systems Competitive Strengths & Weaknesses
- 9.2 Continental
 - 9.2.1 Continental Details
 - 9.2.2 Continental Major Business
 - 9.2.3 Continental Automotive Biometric Sensors Product and Services
 - 9.2.4 Continental Automotive Biometric Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Continental Recent Developments/Updates
 - 9.2.6 Continental Competitive Strengths & Weaknesses
- 9.3 Denso Corporation
 - 9.3.1 Denso Corporation Details
 - 9.3.2 Denso Corporation Major Business
 - 9.3.3 Denso Corporation Automotive Biometric Sensors Product and Services
 - 9.3.4 Denso Corporation Automotive Biometric Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Denso Corporation Recent Developments/Updates
 - 9.3.6 Denso Corporation Competitive Strengths & Weaknesses
- 9.4 EGiS Technologies
 - 9.4.1 EGiS Technologies Details
 - 9.4.2 EGiS Technologies Major Business
 - 9.4.3 EGiS Technologies Automotive Biometric Sensors Product and Services
 - 9.4.4 EGiS Technologies Automotive Biometric Sensors Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.4.5 EGiS Technologies Recent Developments/Updates

9.4.6 EGiS Technologies Competitive Strengths & Weaknesses

9.5 EyeLock

9.5.1 EyeLock Details

9.5.2 EyeLock Major Business

9.5.3 EyeLock Automotive Biometric Sensors Product and Services

9.5.4 EyeLock Automotive Biometric Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 EyeLock Recent Developments/Updates

9.5.6 EyeLock Competitive Strengths & Weaknesses

9.6 Fingerprint Cards

9.6.1 Fingerprint Cards Details

9.6.2 Fingerprint Cards Major Business

9.6.3 Fingerprint Cards Automotive Biometric Sensors Product and Services

9.6.4 Fingerprint Cards Automotive Biometric Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Fingerprint Cards Recent Developments/Updates

9.6.6 Fingerprint Cards Competitive Strengths & Weaknesses

9.7 Flex

9.7.1 Flex Details

9.7.2 Flex Major Business

9.7.3 Flex Automotive Biometric Sensors Product and Services

9.7.4 Flex Automotive Biometric Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Flex Recent Developments/Updates

9.7.6 Flex Competitive Strengths & Weaknesses

9.8 Gentex Corporation

9.8.1 Gentex Corporation Details

9.8.2 Gentex Corporation Major Business

9.8.3 Gentex Corporation Automotive Biometric Sensors Product and Services

9.8.4 Gentex Corporation Automotive Biometric Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Gentex Corporation Recent Developments/Updates

9.8.6 Gentex Corporation Competitive Strengths & Weaknesses

9.9 HID Global

9.9.1 HID Global Details

9.9.2 HID Global Major Business

9.9.3 HID Global Automotive Biometric Sensors Product and Services

- 9.9.4 HID Global Automotive Biometric Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.9.5 HID Global Recent Developments/Updates
- 9.9.6 HID Global Competitive Strengths & Weaknesses
- 9.10 Honeywell
 - 9.10.1 Honeywell Details
 - 9.10.2 Honeywell Major Business
 - 9.10.3 Honeywell Automotive Biometric Sensors Product and Services
 - 9.10.4 Honeywell Automotive Biometric Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Honeywell Recent Developments/Updates
 - 9.10.6 Honeywell Competitive Strengths & Weaknesses
- 9.11 Iritech
 - 9.11.1 Iritech Details
 - 9.11.2 Iritech Major Business
 - 9.11.3 Iritech Automotive Biometric Sensors Product and Services
 - 9.11.4 Iritech Automotive Biometric Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Iritech Recent Developments/Updates
 - 9.11.6 Iritech Competitive Strengths & Weaknesses
- 9.12 NXP Semiconductors
 - 9.12.1 NXP Semiconductors Details
 - 9.12.2 NXP Semiconductors Major Business
 - 9.12.3 NXP Semiconductors Automotive Biometric Sensors Product and Services
 - 9.12.4 NXP Semiconductors Automotive Biometric Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 NXP Semiconductors Recent Developments/Updates
 - 9.12.6 NXP Semiconductors Competitive Strengths & Weaknesses
- 9.13 SecuGen Corporation
 - 9.13.1 SecuGen Corporation Details
 - 9.13.2 SecuGen Corporation Major Business
 - 9.13.3 SecuGen Corporation Automotive Biometric Sensors Product and Services
 - 9.13.4 SecuGen Corporation Automotive Biometric Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 SecuGen Corporation Recent Developments/Updates
 - 9.13.6 SecuGen Corporation Competitive Strengths & Weaknesses
- 9.14 Synaptics
 - 9.14.1 Synaptics Details
 - 9.14.2 Synaptics Major Business

- 9.14.3 Synaptics Automotive Biometric Sensors Product and Services
- 9.14.4 Synaptics Automotive Biometric Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.14.5 Synaptics Recent Developments/Updates
- 9.14.6 Synaptics Competitive Strengths & Weaknesses
- 9.15 Valeo
 - 9.15.1 Valeo Details
 - 9.15.2 Valeo Major Business
 - 9.15.3 Valeo Automotive Biometric Sensors Product and Services
 - 9.15.4 Valeo Automotive Biometric Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Valeo Recent Developments/Updates
 - 9.15.6 Valeo Competitive Strengths & Weaknesses
- 9.16 Visteon Corporation
 - 9.16.1 Visteon Corporation Details
 - 9.16.2 Visteon Corporation Major Business
 - 9.16.3 Visteon Corporation Automotive Biometric Sensors Product and Services
 - 9.16.4 Visteon Corporation Automotive Biometric Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Visteon Corporation Recent Developments/Updates
 - 9.16.6 Visteon Corporation Competitive Strengths & Weaknesses
- 9.17 ZF Friedrichshafen
 - 9.17.1 ZF Friedrichshafen Details
 - 9.17.2 ZF Friedrichshafen Major Business
 - 9.17.3 ZF Friedrichshafen Automotive Biometric Sensors Product and Services
 - 9.17.4 ZF Friedrichshafen Automotive Biometric Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 ZF Friedrichshafen Recent Developments/Updates
 - 9.17.6 ZF Friedrichshafen Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Automotive Biometric Sensors Industry Chain
- 10.2 Automotive Biometric Sensors Upstream Analysis
 - 10.2.1 Automotive Biometric Sensors Core Raw Materials
 - 10.2.2 Main Manufacturers of Automotive Biometric Sensors Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Automotive Biometric Sensors Production Mode

10.6 Automotive Biometric Sensors Procurement Model

10.7 Automotive Biometric Sensors Industry Sales Model and Sales Channels

10.7.1 Automotive Biometric Sensors Sales Model

10.7.2 Automotive Biometric 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 Automotive Biometric Sensors Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Automotive Biometric Sensors Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Automotive Biometric Sensors Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Automotive Biometric Sensors Production Value Market Share by Region (2021-2026)
- Table 5. World Automotive Biometric Sensors Production Value Market Share by Region (2027-2032)
- Table 6. World Automotive Biometric Sensors Production by Region (2021-2026) & (K Units)
- Table 7. World Automotive Biometric Sensors Production by Region (2027-2032) & (K Units)
- Table 8. World Automotive Biometric Sensors Production Market Share by Region (2021-2026)
- Table 9. World Automotive Biometric Sensors Production Market Share by Region (2027-2032)
- Table 10. World Automotive Biometric Sensors Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Automotive Biometric Sensors Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Automotive Biometric Sensors Major Market Trends
- Table 13. World Automotive Biometric Sensors Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Automotive Biometric Sensors Consumption by Region (2021-2026) & (K Units)
- Table 15. World Automotive Biometric Sensors Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Automotive Biometric Sensors Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Automotive Biometric Sensors Producers in 2025
- Table 18. World Automotive Biometric Sensors Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Automotive Biometric Sensors Producers in 2025

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

Table 21. Global Automotive Biometric Sensors Company Evaluation Quadrant

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

Table 23. Head Office and Automotive Biometric Sensors Production Site of Key Manufacturer

Table 24. Automotive Biometric Sensors Market: Company Product Type Footprint

Table 25. Automotive Biometric Sensors Market: Company Product Application Footprint

Table 26. Automotive Biometric Sensors Competitive Factors

Table 27. Automotive Biometric Sensors New Entrant and Capacity Expansion Plans

Table 28. Automotive Biometric Sensors Mergers & Acquisitions Activity

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

Table 30. United States VS China Automotive Biometric Sensors Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Automotive Biometric Sensors Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

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

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

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

Table 35. United States Based Manufacturers Automotive Biometric Sensors Production (2021-2026) & (K Units)

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

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

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

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

Table 40. China Based Manufacturers Automotive Biometric Sensors Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Automotive Biometric Sensors Production Market Share (2021-2026)

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

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

Table 44. Rest of World Based Manufacturers Automotive Biometric Sensors Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Automotive Biometric Sensors Production, (2021-2026) & (K Units)

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

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

Table 48. World Automotive Biometric Sensors Production by Type (2021-2026) & (K Units)

Table 49. World Automotive Biometric Sensors Production by Type (2027-2032) & (K Units)

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

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

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

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

Table 54. World Automotive Biometric Sensors Production Value by Sensor Technology, (USD Million), 2021 & 2025 & 2032

Table 55. World Automotive Biometric Sensors Production by Sensor Technology (2021-2026) & (K Units)

Table 56. World Automotive Biometric Sensors Production by Sensor Technology (2027-2032) & (K Units)

Table 57. World Automotive Biometric Sensors Production Value by Sensor Technology (2021-2026) & (USD Million)

Table 58. World Automotive Biometric Sensors Production Value by Sensor Technology (2027-2032) & (USD Million)

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

Table 60. World Automotive Biometric Sensors Average Price by Sensor Technology

(2027-2032) & (US\$/Unit)

Table 61. World Automotive Biometric Sensors Production Value by Integration Location, (USD Million), 2021 & 2025 & 2032

Table 62. World Automotive Biometric Sensors Production by Integration Location (2021-2026) & (K Units)

Table 63. World Automotive Biometric Sensors Production by Integration Location (2027-2032) & (K Units)

Table 64. World Automotive Biometric Sensors Production Value by Integration Location (2021-2026) & (USD Million)

Table 65. World Automotive Biometric Sensors Production Value by Integration Location (2027-2032) & (USD Million)

Table 66. World Automotive Biometric Sensors Average Price by Integration Location (2021-2026) & (US\$/Unit)

Table 67. World Automotive Biometric Sensors Average Price by Integration Location (2027-2032) & (US\$/Unit)

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

Table 69. World Automotive Biometric Sensors Production by Application (2021-2026) & (K Units)

Table 70. World Automotive Biometric Sensors Production by Application (2027-2032) & (K Units)

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

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

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

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

Table 75. Cognitec Systems Basic Information, Manufacturing Base and Competitors

Table 76. Cognitec Systems Major Business

Table 77. Cognitec Systems Automotive Biometric Sensors Product and Services

Table 78. Cognitec Systems Automotive Biometric Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Cognitec Systems Recent Developments/Updates

Table 80. Cognitec Systems Competitive Strengths & Weaknesses

Table 81. Continental Basic Information, Manufacturing Base and Competitors

Table 82. Continental Major Business

- Table 83. Continental Automotive Biometric Sensors Product and Services
- Table 84. Continental Automotive Biometric Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Continental Recent Developments/Updates
- Table 86. Continental Competitive Strengths & Weaknesses
- Table 87. Denso Corporation Basic Information, Manufacturing Base and Competitors
- Table 88. Denso Corporation Major Business
- Table 89. Denso Corporation Automotive Biometric Sensors Product and Services
- Table 90. Denso Corporation Automotive Biometric Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Denso Corporation Recent Developments/Updates
- Table 92. Denso Corporation Competitive Strengths & Weaknesses
- Table 93. EGiS Technologies Basic Information, Manufacturing Base and Competitors
- Table 94. EGiS Technologies Major Business
- Table 95. EGiS Technologies Automotive Biometric Sensors Product and Services
- Table 96. EGiS Technologies Automotive Biometric Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. EGiS Technologies Recent Developments/Updates
- Table 98. EGiS Technologies Competitive Strengths & Weaknesses
- Table 99. EyeLock Basic Information, Manufacturing Base and Competitors
- Table 100. EyeLock Major Business
- Table 101. EyeLock Automotive Biometric Sensors Product and Services
- Table 102. EyeLock Automotive Biometric Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. EyeLock Recent Developments/Updates
- Table 104. EyeLock Competitive Strengths & Weaknesses
- Table 105. Fingerprint Cards Basic Information, Manufacturing Base and Competitors
- Table 106. Fingerprint Cards Major Business
- Table 107. Fingerprint Cards Automotive Biometric Sensors Product and Services
- Table 108. Fingerprint Cards Automotive Biometric Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Fingerprint Cards Recent Developments/Updates
- Table 110. Fingerprint Cards Competitive Strengths & Weaknesses
- Table 111. Flex Basic Information, Manufacturing Base and Competitors

Table 112. Flex Major Business

Table 113. Flex Automotive Biometric Sensors Product and Services

Table 114. Flex Automotive Biometric Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Flex Recent Developments/Updates

Table 116. Flex Competitive Strengths & Weaknesses

Table 117. Gentex Corporation Basic Information, Manufacturing Base and Competitors

Table 118. Gentex Corporation Major Business

Table 119. Gentex Corporation Automotive Biometric Sensors Product and Services

Table 120. Gentex Corporation Automotive Biometric Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Gentex Corporation Recent Developments/Updates

Table 122. Gentex Corporation Competitive Strengths & Weaknesses

Table 123. HID Global Basic Information, Manufacturing Base and Competitors

Table 124. HID Global Major Business

Table 125. HID Global Automotive Biometric Sensors Product and Services

Table 126. HID Global Automotive Biometric Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. HID Global Recent Developments/Updates

Table 128. HID Global Competitive Strengths & Weaknesses

Table 129. Honeywell Basic Information, Manufacturing Base and Competitors

Table 130. Honeywell Major Business

Table 131. Honeywell Automotive Biometric Sensors Product and Services

Table 132. Honeywell Automotive Biometric Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Honeywell Recent Developments/Updates

Table 134. Honeywell Competitive Strengths & Weaknesses

Table 135. Iritech Basic Information, Manufacturing Base and Competitors

Table 136. Iritech Major Business

Table 137. Iritech Automotive Biometric Sensors Product and Services

Table 138. Iritech Automotive Biometric Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Iritech Recent Developments/Updates

Table 140. Iritech Competitive Strengths & Weaknesses

Table 141. NXP Semiconductors Basic Information, Manufacturing Base and Competitors

Table 142. NXP Semiconductors Major Business

Table 143. NXP Semiconductors Automotive Biometric Sensors Product and Services

Table 144. NXP Semiconductors Automotive Biometric Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. NXP Semiconductors Recent Developments/Updates

Table 146. NXP Semiconductors Competitive Strengths & Weaknesses

Table 147. SecuGen Corporation Basic Information, Manufacturing Base and Competitors

Table 148. SecuGen Corporation Major Business

Table 149. SecuGen Corporation Automotive Biometric Sensors Product and Services

Table 150. SecuGen Corporation Automotive Biometric Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. SecuGen Corporation Recent Developments/Updates

Table 152. SecuGen Corporation Competitive Strengths & Weaknesses

Table 153. Synaptics Basic Information, Manufacturing Base and Competitors

Table 154. Synaptics Major Business

Table 155. Synaptics Automotive Biometric Sensors Product and Services

Table 156. Synaptics Automotive Biometric Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Synaptics Recent Developments/Updates

Table 158. Synaptics Competitive Strengths & Weaknesses

Table 159. Valeo Basic Information, Manufacturing Base and Competitors

Table 160. Valeo Major Business

Table 161. Valeo Automotive Biometric Sensors Product and Services

Table 162. Valeo Automotive Biometric Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Valeo Recent Developments/Updates

Table 164. Valeo Competitive Strengths & Weaknesses

Table 165. Visteon Corporation Basic Information, Manufacturing Base and Competitors

Table 166. Visteon Corporation Major Business

Table 167. Visteon Corporation Automotive Biometric Sensors Product and Services

Table 168. Visteon Corporation Automotive Biometric Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Visteon Corporation Recent Developments/Updates

Table 170. Visteon Corporation Competitive Strengths & Weaknesses

Table 171. ZF Friedrichshafen Basic Information, Manufacturing Base and Competitors

Table 172. ZF Friedrichshafen Major Business

Table 173. ZF Friedrichshafen Automotive Biometric Sensors Product and Services

Table 174. ZF Friedrichshafen Automotive Biometric Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. ZF Friedrichshafen Recent Developments/Updates

Table 176. ZF Friedrichshafen Competitive Strengths & Weaknesses

Table 177. Global Key Players of Automotive Biometric Sensors Upstream (Raw Materials)

Table 178. Global Automotive Biometric Sensors Typical Customers

Table 179. Automotive Biometric Sensors Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Automotive Biometric Sensors Picture

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

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

Figure 4. World Automotive Biometric Sensors Production (2021-2032) & (K Units)

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

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

Figure 7. World Automotive Biometric Sensors Production Market Share by Region (2021-2032)

Figure 8. North America Automotive Biometric Sensors Production (2021-2032) & (K Units)

Figure 9. Europe Automotive Biometric Sensors Production (2021-2032) & (K Units)

Figure 10. China Automotive Biometric Sensors Production (2021-2032) & (K Units)

Figure 11. Japan Automotive Biometric Sensors Production (2021-2032) & (K Units)

Figure 12. South Korea Automotive Biometric Sensors Production (2021-2032) & (K Units)

Figure 13. India Automotive Biometric Sensors Production (2021-2032) & (K Units)

Figure 14. Automotive Biometric Sensors Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Automotive Biometric Sensors Consumption (2021-2032) & (K Units)

Figure 17. World Automotive Biometric Sensors Consumption Market Share by Region (2021-2032)

Figure 18. United States Automotive Biometric Sensors Consumption (2021-2032) & (K Units)

Figure 19. China Automotive Biometric Sensors Consumption (2021-2032) & (K Units)

Figure 20. Europe Automotive Biometric Sensors Consumption (2021-2032) & (K Units)

Figure 21. Japan Automotive Biometric Sensors Consumption (2021-2032) & (K Units)

Figure 22. South Korea Automotive Biometric Sensors Consumption (2021-2032) & (K Units)

Figure 23. ASEAN Automotive Biometric Sensors Consumption (2021-2032) & (K Units)

Figure 24. India Automotive Biometric Sensors Consumption (2021-2032) & (K Units)

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

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

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

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

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

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

Figure 31. United States Based Manufacturers Automotive Biometric Sensors Production Market Share 2025

Figure 32. China Based Manufacturers Automotive Biometric Sensors Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Automotive Biometric Sensors Production Market Share 2025

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

Figure 35. World Automotive Biometric Sensors Production Value Market Share by Type in 2025

Figure 36. Fingerprint

Figure 37. Facial

Figure 38. Iris

Figure 39. Others

Figure 40. World Automotive Biometric Sensors Production Market Share by Type (2021-2032)

Figure 41. World Automotive Biometric Sensors Production Value Market Share by Type (2021-2032)

Figure 42. World Automotive Biometric Sensors Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. World Automotive Biometric Sensors Production Value by Sensor Technology, (USD Million), 2021 & 2025 & 2032

Figure 44. World Automotive Biometric Sensors Production Value Market Share by Sensor Technology in 2025

Figure 45. Optical

Figure 46. Capacitive

Figure 47. Infrared

Figure 48. World Automotive Biometric Sensors Production Market Share by Sensor Technology (2021-2032)

Figure 49. World Automotive Biometric Sensors Production Value Market Share by Sensor Technology (2021-2032)

Figure 50. World Automotive Biometric Sensors Average Price by Sensor Technology (2021-2032) & (US\$/Unit)

Figure 51. World Automotive Biometric Sensors Production Value by Integration Location, (USD Million), 2021 & 2025 & 2032

Figure 52. World Automotive Biometric Sensors Production Value Market Share by Integration Location in 2025

Figure 53. Steering Wheel

Figure 54. Seat

Figure 55. Dashboard

Figure 56. Others

Figure 57. World Automotive Biometric Sensors Production Market Share by Integration Location (2021-2032)

Figure 58. World Automotive Biometric Sensors Production Value Market Share by Integration Location (2021-2032)

Figure 59. World Automotive Biometric Sensors Average Price by Integration Location (2021-2032) & (US\$/Unit)

Figure 60. World Automotive Biometric Sensors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 61. World Automotive Biometric Sensors Production Value Market Share by Application in 2025

Figure 62. Passenger Cars

Figure 63. Commercial Vehicles

Figure 64. World Automotive Biometric Sensors Production Market Share by Application (2021-2032)

Figure 65. World Automotive Biometric Sensors Production Value Market Share by Application (2021-2032)

Figure 66. World Automotive Biometric Sensors Average Price by Application (2021-2032) & (US\$/Unit)

Figure 67. Automotive Biometric Sensors Industry Chain

Figure 68. Automotive Biometric Sensors Procurement Model

Figure 69. Automotive Biometric Sensors Sales Model

Figure 70. Automotive Biometric Sensors Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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