

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

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Abstracts

The global Automotive Imaging Radar Sensors market size is expected to reach \$ 925 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

In 2025, global Automotive Imaging Radar Sensors production reached approximately 9,420 k units with an average global market price of around US\$ 60 per unit, and a gross profit margin of approximately 10%-30%. Automotive Imaging Radar Sensors are high-resolution 60-81GHz radar modules that provide finer angular resolution and richer target information than conventional radar, enabling imaging-like perception for ADAS and automated driving. They transmit wideband chirps and use multi-channel antenna arrays with advanced signal processing to generate dense point clouds, classify objects, and separate closely spaced targets. Imaging radars support highway pilot, automated lane change, intersection assist, and robust AEB performance, especially under rain, fog, and low light where cameras degrade. Key requirements include long detection range, high angle accuracy, low false alarms, strong interference mitigation, functional safety, and stable calibration over temperature and vibration.

The industrial chain of Automotive Imaging Radar Sensors includes upstream inputs such as mmWave transceiver ICs, multi-channel antenna arrays, high-frequency substrates, passives, EMC shielding, thermal materials, housings, connectors, and RF calibration fixtures. Midstream covers module design, SMT and packaging, RF test, automated calibration, software flashing, end-of-line validation, and safety documentation. Downstream applications include passenger and commercial vehicles adopting higher-level ADAS, with integration into sensor fusion and domain controllers. Services include vehicle-level tuning, interference testing, diagnostics, warranty support, and continuous software updates for perception improvements.

The Automotive Imaging Radar Sensor market is accelerating as OEMs move from basic corner and front radar to higher-resolution sensing for richer perception and redundancy. Imaging radar's ability to resolve closely spaced objects and perform well in adverse weather makes it attractive for highway automation, safer AEB, and complex cut-in scenarios. Suppliers compete on channel count, angular resolution, interference mitigation, and cost-effective calibration because imaging radar requires tighter RF test and alignment than conventional radar. Trends include more antenna-in-package integration, higher computing integration with onboard DSP/MCU, and software-defined features that can be upgraded over the vehicle life. As radar density rises, standards and validation for interference robustness become more important. Constraints include higher ASP, longer qualification cycles, and integration complexity with sensor fusion stacks. Overall, growth is strong, with value concentrating in scalable manufacturing, automated calibration, and consistently low false-alarm performance.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Automotive Imaging Radar 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 Bosch, Continental, Denso, FORVIA HELLA, Baumer, NXP, Infineon, WNC, Smartmicro, IFM, 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 Imaging Radar 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 Imaging Radar Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Imaging Radar Sensors Market, Segmentation by Type:

Front Radar Sensor

Corner Radar Sensor

Others

Global Automotive Imaging Radar Sensors Market, Segmentation by Frequency Band:

60GHz

77GHz

Others

Global Automotive Imaging Radar Sensors Market, Segmentation by Range:

Short-Range Radar (SRR)

Mid-Range Radar (MRR)

Long-Range Radar (LRR)

Global Automotive Imaging Radar Sensors Market, Segmentation by Application:

Commercial Vehicle

Passenger Car

Companies Profiled:

Bosch

Continental

Denso

FORVIA HELLA

Baumer

NXP

Infineon

WNC

Smartmicro

IFM

Texas Instruments

SICK AG

Pepperl+Fuchs

Leuze Electronic

Inxpect

CONTROLWAY

InnoSenT

Banner Engineering Corp

Aumovio

Key Questions Answered:

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

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