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Global Microwave Vehicle Detector Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G896F0512207EN.html
Date: July 2026
Pages: 114
Price: US$ 4,480.00 (Single User License)
ID: G896F0512207EN

Abstracts

The global Microwave Vehicle Detector market size is expected to reach $ 251 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

The microwave vehicle detector?also known as a microwave traffic flow detector or traffic radar detector?is a device that utilizes microwave radar technology to sense road traffic conditions in real time. By emitting microwaves toward the road surface and receiving the returning echoes, it precisely measures vehicle volume, speed, vehicle type, and lane occupancy rates. It serves as an indispensable core sensing component within modern Intelligent Transportation Systems (ITS).

The upstream segment primarily comprises millimeter-wave/microwave RF chips, antenna arrays, radar transceiver modules, power supply modules, and communication modules; specifically, the RF front-end, antenna design, and target recognition algorithms determine the detection range, angular resolution, and multi-target tracking capabilities. The midstream segment involves traffic sensing equipment manufacturers engaging in radar hardware design, signal processing algorithm development, and complete device packaging. The downstream segment is primarily applied in areas such as traffic light control, traffic flow statistics, speed detection, queue monitoring, blind spot warning systems, and traffic guidance.

In 2025, global sales volume for microwave vehicle detectors is projected to reach approximately 90,000 units, with an average market price of approximately $1,800 per unit; the gross profit margins for major manufacturers in the industry are expected to range between 35% and 50%.

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Demand within the microwave vehicle detector industry is primarily driven by the development of intelligent transportation systems, the refined management of urban intersections, highway operational monitoring, and traffic incident detection. As non-contact devices, microwave vehicle detectors typically do not require road excavation or prolonged lane closures for installation and maintenance; furthermore, they maintain excellent detection stability across most outdoor environments?including rain, fog, snow, and wind?making them well-suited for monitoring traffic volume, vehicle speed, lane occupancy, queue length, and multi-lane conditions. This inherent suitability ensures continued potential for market penetration and the replacement of existing technologies across various scenarios, such as intersection signal optimization, highway surveillance, tunnels and bridges, toll stations, and urban expressways. Microwave vehicle detectors serve as a relatively stable foundational component within the ?perception layer? of intelligent transportation systems. Future growth in this sector is expected to stem largely from the intelligent upgrading of existing intersections, highway digitalization, the construction of vehicle-to-road (V2R) collaborative infrastructure, and multi-sensor fusion applications. Consequently, the focal point of product competition is shifting away from mere detection range and lane coverage toward detection accuracy, anti-interference algorithms, low-maintenance deployment, platform integration capabilities, and adaptability to complex traffic scenarios.

This report studies the global Microwave Vehicle Detector production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Microwave Vehicle Detector 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 Microwave Vehicle Detector that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Microwave Vehicle Detector total production and demand, 2021-2032, (Units)
Global Microwave Vehicle Detector total production value, 2021-2032, (USD Million)
Global Microwave Vehicle Detector production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Microwave Vehicle Detector consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Microwave Vehicle Detector domestic production, consumption, key domestic manufacturers and share

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Global Microwave Vehicle Detector production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Microwave Vehicle Detector production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Microwave Vehicle Detector production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Microwave Vehicle Detector 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 Wavetronix, smartmicro, Sensys Networks, AGD Systems, Houston Radar, Nanoradar, Hawkeye Technology, TransMicrowave, HURYS, Huawei, 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 Microwave Vehicle Detector market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (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 Microwave Vehicle Detector Market, By Region:

United States

China

Europe

Japan

South Korea

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ASEAN

India

Rest of World

Global Microwave Vehicle Detector Market, Segmentation by Type:

Short Range (?50 m)

Medium Range (50?150 m)

Long Range (150?300 m)

Extended Range (>300 m)

Global Microwave Vehicle Detector Market, Segmentation by Detection Channels:

Single Lane

Multi-lane

Global Microwave Vehicle Detector Market, Segmentation by Operating Frequency Band:

24 GHz

77 GHz

Other

Global Microwave Vehicle Detector Market, Segmentation by Application:

Highway

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City ??Road

Bridge

Other

Companies Profiled:

Wavetronix

smartmicro

Sensys Networks

AGD Systems

Houston Radar

Nanoradar

Hawkeye Technology

TransMicrowave

HURYS

Huawei

Key Questions Answered:
1. How big is the global Microwave Vehicle Detector market?
2. What is the demand of the global Microwave Vehicle Detector market?
3. What is the year over year growth of the global Microwave Vehicle Detector market?
4. What is the production and production value of the global Microwave Vehicle Detector market?
5. Who are the key producers in the global Microwave Vehicle Detector market?
6. What are the growth factors driving the market demand?

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