

Global Millimeter-wave Radar Technology Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Millimeter-wave Radar Technology market size will reach 19,636 Million USD in 2025 and is projected to reach 53,356 Million USD by 2032, with a CAGR of 15.35% (2025-2032). Notably, the China Millimeter-wave Radar Technology market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Millimeter-wave radar technology refers to a type of radar system that operates in the millimeter-wave frequency range, typically between 30 GHz and 300 GHz, which corresponds to wavelengths from 1 millimeter to 10 millimeters. This technology is widely used for high-resolution sensing and imaging due to its ability to detect small objects with great accuracy and provide detailed data even in challenging conditions, such as fog, rain, or low visibility. Millimeter-wave radar is increasingly used in applications like automotive safety systems (such as adaptive cruise control, collision avoidance, and lane-keeping assistance), security, and surveillance, as well as in advanced communication systems. Its high-frequency signals allow for fine-grained measurements of distance, speed, and the relative movement of objects, which makes it ideal for detecting and tracking moving objects with precision. Additionally, millimeter-wave radar can penetrate materials like clothing or walls in some cases, providing a non-invasive method of detection. The technology is valued for its robustness, precision, and ability to function in diverse environmental conditions, making it essential for modern, autonomous, and connected systems.

The major global manufacturers of Millimeter-wave Radar Technology include Bosch, Continental, Denso, Hella, Aptiv, Hitachi, Huawei, Nidec, Murata, WHST Co., Ltd, Muniu, Insightica, Halma, Smart Radar System Inc, Beijing Tsingray, Acconeer, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Millimeter-wave Radar Technology. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Millimeter-wave Radar Technology market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Millimeter-wave Radar Technology market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Millimeter-wave Radar Technology industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Millimeter-wave Radar Technology Include:

Bosch

Continental

Denso

Hella

Aptiv

Hitachi

Huawei

Nidec

Murata

WHST Co., Ltd

Muniu

Insightica

Halma

Smart Radar System Inc

Beijing Tsingray

Acconeer

Millimeter-wave Radar Technology Product Segment Include:

77 GHz

24 GHz

60 GHz

Others

Millimeter-wave Radar Technology Product Application Include:

Automotive

Transport Monitoring

Industrial and Manufacturing

Smart Building

Medical

Others

Chapter Scope

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