

# Global 4D Millimeter Wave Imaging Radar Market Growth 2024-2030

<https://marketpublishers.com/r/G51544CDF3A0EN.html>

Date: May 2024

Pages: 218

Price: US\$ 3,660.00 (Single User License)

ID: G51544CDF3A0EN

## Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The full name of 4D imaging radar is '4D millimeter wave imaging radar'. '4D' is that compared to 3D radar, it only has three dimensions: distance (Range), speed (Velocity), and azimuth (Azimuth). In terms of information, the information perception capability of elevation angle (Elevation) is added, which can identify longitudinal targets with high resolution; 'imaging' is similar to the point cloud imaging effect of lidar. Compared with traditional millimeter wave radar, 4D The number of RF transceiver channels of imaging radar is more than ten times more. With the greatly improved pitch angle resolution, it can present rich point cloud images as well as distance, speed and angle information of targets and environments.

Due to the current lack of a unified definition of 4D imaging radar in the industry, '4D millimeter wave imaging radar' is often confused with '4D millimeter wave radar', but they are actually two millimeter wave radars with completely different properties.

4D millimeter wave radar only adds the measurement of pitch angle to the traditional 3D radar, and its resolution in the pitch direction is low. At this time, the measurement error of the pitch angle information is large, so the accuracy of the altitude information calculated through the angle information is still not high. At the same time, the output measurement points of 4D millimeter wave radar are only slightly increased compared to traditional 3D radar, so 4D millimeter wave radar essentially still belongs to the category of point trace radar. Only 4D millimeter-wave imaging radar has truly completed the evolution from spot radar to imaging radar.

The global 4D Millimeter Wave Imaging Radar market size is projected to grow from

US\$ million in 2024 to US\$ million in 2030; it is expected to grow at a CAGR of % from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the "4D Millimeter Wave Imaging Radar Industry Forecast" looks at past sales and reviews total world 4D Millimeter Wave Imaging Radar sales in 2023, providing a comprehensive analysis by region and market sector of projected 4D Millimeter Wave Imaging Radar sales for 2024 through 2030. With 4D Millimeter Wave Imaging Radar sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 4D Millimeter Wave Imaging Radar industry.

This Insight Report provides a comprehensive analysis of the global 4D Millimeter Wave Imaging Radar landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 4D Millimeter Wave Imaging Radar portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 4D Millimeter Wave Imaging Radar market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 4D Millimeter Wave Imaging Radar and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 4D Millimeter Wave Imaging Radar.

United States market for 4D Millimeter Wave Imaging Radar is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

China market for 4D Millimeter Wave Imaging Radar is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Europe market for 4D Millimeter Wave Imaging Radar is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Global key 4D Millimeter Wave Imaging Radar players cover Robert Bosch, Continental AG, ZF Friedrichshafen, Aptiv, DENSO, etc. In terms of revenue, the global two largest

companies occupied for a share nearly

% in 2023.

This report presents a comprehensive overview, market shares, and growth opportunities of 4D Millimeter Wave Imaging Radar market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

4D Front Radars

4D Corner Radars

Segmentation by Application:

Automotive Factory-installed Products

Automotive Aftermarket-installed Products

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Robert Bosch

Continental AG

ZF Friedrichshafen

Aptiv

DENSO

Renesas Electronics

Hella

Veoneer

Valeo SA

Altos Radar

Zadar Labs

Hitachi

Oculii

Fujitsu

Smartmicro

ANNGIC

Deguroon

Freetech

WHST

Nanoradar

Union Optech

Intibeam

Creatrol

Autoroad Tech

Alpha Networks Inc.

NanJing HawkEye Technology Co., Ltd.

Shenzhen Chengtai Technology Co . Ltd

Huayu Automotive Systems

Shanghai Baolong Automotive Corporation

Motoreye

Electronic Radar (Wuhu) Technology Co., Ltd.

Muniutech

Desay SV

Andartechs

Fusionride

Jingwei Hirain Technologies

Weifu High-technology Group Co., Ltd.

sinPro

Huawei

Zongmu Technology

Weifu High-technology

lotnova

Shanghai Geometric Partner Intelligent Driving Co., Ltd.

Manku Technology

CubTEK

China Design Group Co., Ltd.

Zhejiang Vie Science and Technology Co., Ltd.

OFILM Group

Racodf

Cheng-Tech

Yunshan

## Key Questions Addressed in this Report

What is the 10-year outlook for the global 4D Millimeter Wave Imaging Radar market?

What factors are driving 4D Millimeter Wave Imaging Radar market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 4D Millimeter Wave Imaging Radar market opportunities vary by end market size?

How does 4D Millimeter Wave Imaging Radar break out by Type, by Application?

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