

Global 4D Millimeter Wave Imaging Radar Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

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.

According to our (Global Info Research) latest study, the global 4D Millimeter Wave Imaging Radar market size was valued at US\$ million in 2023 and is forecast to a

readjusted size of USD million by 2030 with a CAGR of %during review period.

This report is a detailed and comprehensive analysis for global 4D Millimeter Wave Imaging Radar market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2024, are provided.

Key Features:

Global 4D Millimeter Wave Imaging Radar market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global 4D Millimeter Wave Imaging Radar market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global 4D Millimeter Wave Imaging Radar market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global 4D Millimeter Wave Imaging Radar market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2019-2024

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 4D Millimeter Wave Imaging Radar

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 4D Millimeter Wave Imaging Radar market based on the following parameters - company overview, sales quantity, revenue, price,

gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Robert Bosch, Continental AG, ZF Friedrichshafen, Aptiv, DENSO, Renesas Electronics, Hella, Veoneer, Valeo SA, Altos Radar, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

4D Millimeter Wave Imaging Radar market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

4D Front Radars

4D Corner Radars

Market segment by Application

Automotive Factory-installed Products

Automotive Aftermarket-installed Products

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 4D Millimeter Wave Imaging Radar product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 4D Millimeter Wave Imaging Radar, with price, sales quantity, revenue, and global market share of 4D Millimeter Wave Imaging Radar from 2019 to 2024.

Chapter 3, the 4D Millimeter Wave Imaging Radar competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 4D Millimeter Wave Imaging Radar breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2019 to 2024. and 4D Millimeter Wave Imaging Radar market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 4D Millimeter Wave Imaging Radar.

Chapter 14 and 15, to describe 4D Millimeter Wave Imaging Radar sales channel, distributors, customers, research findings and conclusion.

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