

Global Digital Radar Market Size Study, by Type (Active, Passive), by Dimension (2D & 3D, 4D), by Application (Safety, Security & Surveillance, Others), by Vertical (Automotive, Aerospace, Military & Defense, Others) and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/GB9898865AE8EN.html>

Date: August 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GB9898865AE8EN

Abstracts

Global Digital Radar Market is projected to grow significantly, from approximately USD 4.98 billion in 2023, expanding at a compound annual growth rate (CAGR) of 18.36% from 2024 to 2032. Digital radar refers to advanced radar systems that use digital signal processing (DSP) techniques to enhance radar performance. These systems convert received analog signals into digital data, allowing for more sophisticated processing, analysis, and filtering. This enables greater accuracy, resolution, and the ability to distinguish between closely spaced objects. Digital radars are used in various applications, including military, aviation, automotive, and weather monitoring, providing improved target detection, tracking, and classification capabilities. Their ability to process large amounts of data quickly and adapt to changing environments makes them a critical technology in modern surveillance and navigation systems.

The Global Digital Radar Market growth is further propelled by the rising demand for digital radar systems in weather detection and monitoring. These systems' ability to deliver precise weather data significantly contributes to their increasing adoption. Moreover, the market presents lucrative opportunities, particularly with the growth of unmanned aerial vehicles (UAVs), which are increasingly relying on digital radar systems for enhanced operational efficiency and safety. The rapid integration of digital radar technology in defense operations is a primary catalyst driving this market expansion. However, the high development costs associated with digital radar technology pose a considerable restraint to market growth.

The key regions considered for the Global Digital Radar Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, the Asia Pacific digital radar market is anticipated to witness the highest CAGR during the forecast period. This growth is driven by the increasing adoption of Advanced Driver Assistance Systems (ADAS) to enhance vehicle safety in countries such as China and Japan. The robust automotive industry in this region, coupled with a growing focus on vehicle safety features, is boosting the demand for digital radar systems.

The key players included in the report are

Indra

Bharat Electronics Limited

Advanced Micro Devices, Inc.

Magna International Inc.

NXP Semiconductors

Saab AB

Uhnder

Israel Aerospace Industries

BAE Systems

Elbit Systems Ltd.

The detailed segments and sub-segment of the market are explained below:

By Type:

Active

Passive

By Dimension:

2D & 3D

4D

By Application:

Safety

Security & Surveillance

Others

By Vertical:

Automotive

Aerospace

Military & Defense

Others

By Region:**North America**

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

RoLA

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand-side and supply-side analysis of the market

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