Radar Sensor Market by Type (Imaging and Non-Imaging), Technology, Component, Band (HF, VHF, and UHF; L, S, C, and X; Ku, K, Ka, V, and W), Range (Short-Range, Mid-Range, Long-Range), Application, Vertical, and Geography - Global Forecast to 2022

Description: The radar sensor market estimated to grow at a CAGR of 6.94% between 2016 and 2022”
The radar sensor market is expected to grow from USD 19.29 billion in 2015 to USD 30.67 billion by 2022, at a CAGR of 6.94% between 2016 and 2022. The growth of this market is propelled by the increasing territorial conflicts and geopolitical instabilities in regions such as Asia-Pacific, the Middle East, and the Americas and the rising demand for radar systems worldwide since militaries seek to replace their legacy systems. The market is further driven by the increasing focus on the safety, comfort, and assistance features in vehicles.

“The aerospace & defense application to hold a major share of the radar sensor market during the forecast period”
The increasing need of many nations to upgrade their radar technology to safeguard their borders and tackle growing territorial conflicts and geopolitical instabilities are some of the major factors that are driving the growth of the radar sensor market for the aerospace & defense application. Applications for radar systems continue to expand in airborne-based, naval-based, space-based, and ground-based platforms. Other military applications such as electronic countermeasures (ECM) and electronic-warfare (EW) systems are dependent on radar systems for their successful operation. With the increased demand for defense surveillance over porous and attack-prone borders, increased spending on the defense sector by the developing countries, and increased terrorism and ongoing inter-country conflicts, the market for military radars is expanding subsequently.

“Radar sensor market in APAC expected to witness the highest growth during the forecast period”
Increasing military investments in APAC, along with the growing demand for radar sensors and systems in countries such as China, Japan and India, are driving the growth of the market for radar sensors. This region has become a global focal point for large investments and business expansion opportunities. Additionally, in the automobile sector, as of 2015, this region accounted for a share of more than 50% of the world’s passenger car production. As of 2015, countries such as China, Japan, South Korea, and India were among the Top 10 largest automobile manufacturers worldwide. China ranks first (with 12,095,000 units); Japan ranks third (with 4,650,968 units); South Korea ranks fifth (with 2,321,841 units); and India ranks sixth (with 2,049,037 units) (Source: Production Statistics - OICA).

Break-up of the profile of primary participants for the report is as given below:
- By Company Type - Tier 1 – 45%, Tier 2 – 32%, and Tier 3 – 23%
- By Designation – C-Level Executives – 30%, Directors – 45%, and Others – 25%
- By Region – North America - 26%, Europe – 40%, APAC – 22%, and RoW – 12%

The major companies involved in the development of radar sensors include Robert Bosch GmbH (Germany), Continental AG (Germany), ZF Friedrichshafen AG (Germany), Denso Corporation (Japan), Delphi Automotive PLC (U.K.), HELLA KGaA Hueck & Co (Germany), Autoliv Inc. (Sweden), Infineon Technologies AG (Germany), Airbus Group (Netherlands), Lockheed Martin Corporation (U.S.), Raytheon Company (U.S.), NXP Semiconductors N.V. (Netherlands), Smart Microwave Sensors GmbH (Germany), Escort Inc. (U.S.), and Omniradar BV (Netherlands) among others.

Reasons to Buy This Report:
From an insight perspective, this research report has focused on various levels of analysis—industry analysis (industry trends); market ranking analysis of top players; value chain analysis, and company profiles which comprise and discuss the basic views on the competitive landscape; emerging and high-growth segments of the radar sensor market; high-growth regions; and market drivers, restraints, challenges, and opportunities. The report provides insights on the following pointers:
- Market penetration: Comprehensive information on radar sensors offered by the top players in the overall radar sensor market
- Product development/innovation: Detailed insights regarding R&D activities, emerging technologies, and new product launches in the radar sensor market
- Market development: Comprehensive information about lucrative emerging markets—the report analyzes the markets for radar sensors across regions
- Market diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the overall radar sensor market
- Competitive assessment: In-depth assessment of market shares, strategies, products, and manufacturing
capabilities of the leading players in the radar sensor market

Contents:
1 Introduction
1.1 Objectives of the Study
1.2 Market Definition
1.3 Study Scope
1.3.1 Markets Covered
1.3.2 Geographic Scope
1.3.3 Years Considered for the Study
1.4 Currency
1.5 Package Size
1.6 Limitations
1.7 Stakeholders

2 Research Methodology
2.1 Research Data
2.1.1 Secondary Data
2.1.1.1 Key Data From Secondary Sources
2.1.2 Primary Data
2.1.2.1 Key Data From Primary Sources
2.1.2.2 Key Industry Insights
2.1.2.3 Breakdown of Primaries
2.2 Market Size Estimation
2.2.1 Bottom-Up Approach
2.2.2 Top-Down Approach
2.3 Market Breakdown and Data Triangulation
2.4 Research Assumptions

3 Executive Summary

4 Premium Insights
4.1 Attractive Opportunities in the Radar Sensor Market Between 2016 and 2022
4.2 Radar Sensor Market, By Type (2016-2022)
4.3 Market, By Band (2016-2022)
4.4 Market, By Range (2016-2022)
4.5 Radar Sensor Market, By Vertical (2016-2022)
4.6 Market, By Application (2016-2022)
4.7 Radar Sensor Market, By Region and By Application
4.8 Market, By Geography (2016-2022)
4.9 Life Cycle Analysis, By Region

5 Market Overview
5.1 Introduction
5.2 Market Segmentation
5.2.1 Radar Sensor Market, By Technology
5.2.2 Market, By Component
5.2.3 Radar Sensor Market, By Type
5.2.4 Market, By Band
5.2.5 Radar Sensor Market, By Range
5.2.6 Market, By Application
5.2.7 Radar Sensor Market, By Vertical
5.2.8 Market, By Region
5.3 Market Dynamics
5.3.1 Drivers
5.3.1.1 Increasing Territorial Conflicts and Geopolitical Instabilities in Major Regions
5.3.1.2 Rising Demand for Radars Worldwide Since Militaries Seek to Replace Legacy Systems
5.3.1.3 Increasing Focus on Safety, Comfort, and Assistance Features in Vehicles
5.3.2 Restraints
5.3.2.1 Usage of Radar Detectors Considered as Illegal in Some Countries
5.3.2.2 High Development Cost of Radar Sensor and Systems
5.3.3 Opportunities
5.3.3.1 Increase in Military Spending By the Developing Countries
5.3.3.2 High Growth Opportunities in the Automotive Sector
5.3.3.3 Emergence of Driverless Cars
5.3.4 Challenges
5.3.4.1 Electromagnetic Jamming and Noise Interruption

6 Industry Trends
6.1 Introduction
6.2 Value Chain Analysis
6.2.1 Core Industry Segments
6.2.1.1 Chip Designers
6.2.1.2 Component Manufacturers
6.2.1.3 Technology Providers
6.2.1.4 Integrators
6.2.1.5 End-User Industries
6.3 Key Industry Trends in the Radar Sensor Market
6.4 Porter’s Five Forces Analysis
6.4.1 Threat of New Entrants
6.4.2 Threat of Substitutes
6.4.3 Bargaining Power of Suppliers
6.4.4 Bargaining Power of Buyers
6.4.5 Intensity of Competitive Rivalry
6.5 Pest Analysis
6.5.1 Political Factors
6.5.2 Economic Factors
6.5.3 Social Factors
6.5.4 Technological Factors

7 Technologies Used in Radar
7.1 Introduction
7.1.1 Role of Major Manufacturing Technologies in Radar Systems
7.1.1.1 Gallium-Nitride (GAN)
7.1.1.2 Silicon-Germanium (SiGE)
7.1.1.3 Complementary Metal-Oxide Semiconductor (CMOS)
7.2 Time Domain Reflectometry (TDR)
7.3 Ultra-Wideband (UWB)
7.4 Others
7.4.1 RF MEMS-Based Radar Sensors
7.4.2 Millimeter Wave

8 Major Components of Radar
8.1 Introduction
8.2 Antenna
8.3 Diplexer
8.3.1 Role of Duplexer in the Radar System
8.4 Transmitter
8.5 Receiver
8.6 Processing

9 Market, By Type
9.1 Introduction
9.1.1 Major Groups of A Radar System
9.1.1.1 Synthetic Aperture Radar (SAR)
9.1.1.2 Interferometric SAR (INASAR)
9.1.1.3 Pass-To-Pass Coherent SAR
9.1.1.4 Ground Moving Target Indicator (GMTI)
9.1.1.5 Ground Penetrating Radar (GPR)
9.2 Imaging Radar (Primary Type)
9.2.1 Continuous Wave (CW) Radar
9.2.1.1 Modulated CW Radar
9.2.1.2 Unmodulated CW Radar
9.2.2 Pulse Radar
9.2.2.1 MTI Radar
9.2.2.2 Doppler Radar
9.2.2.3 Difference Between Pulse Doppler Radar and MTI Radar
9.3 Non-Imaging Radar (Secondary Type)
9.3.1 Speed Gauge
9.3.2 Radar Altimeter
9.3.2.1 Radar Altimeter Application in Aircraft
9.3.2.2 Radar Altimeter Application in Spacecraft
9.3.2.3 Radar Altimeter Application in Military
9.3.2.4 Radar Altimeter Application in Remote Sensing

10 Market, By Band
10.1 Introduction
10.2 HF, VHF, and UHF Bands
10.2.1 HF and VHF Bands
10.2.2 UHF Bands
10.3 L, S, C, and X Bands
10.3.1 L Band
10.3.2 S Band
10.3.3 C Band
10.3.4 X Band
10.4 Ku, K, Ka, V, and W Bands
10.4.1 Ku Band
10.4.2 K Band
10.4.3 Ka Band
10.4.4 V Band
10.4.5 W Band

11 Market, By Range
11.1 Introduction
11.1.1 Standard Range Specification of Automotive Industry
11.1.1.1 Short-Range Radar Sensor (SRR)
11.1.1.2 Long-Range Radar Sensor (LRR)
11.1.1.2.1 LRR1 and LRR2
11.1.1.2.2 LRR3
11.1.1.2.3 LRR4
11.1.2 Standard Range Specification of the A&D Industry
11.1.2.1 Short-Range
11.1.2.2 Mid-Range
11.1.2.3 Long-Range
11.1.3 Standard Range Specification for Other Sectors
11.1.4 Range Parameter Considered Under the Study
11.2 Short-Range Radar Sensor
11.3 Mid-Range Radar Sensor
11.4 Long-Range Radar Sensor

12 Market, By Application
12.1 Introduction
12.2 Automotive
12.2.1 Collision Avoidance System
12.2.2 Blind Spot Detection
12.2.3 Adaptive Cruise Control
12.2.4 Lane Departure Warning System
12.2.5 Object Detection System
12.2.6 Stop & Go Functionality
12.3 Aerospace & Defense
12.3.1 Ground Based
12.3.2 Naval Based
12.3.3 Airborne Based
12.3.4 Space Based
12.4 Industrial
12.4.1 Machine Safeguarding Area
12.4.2 Collision Protection
12.4.3 Industrial Robot
12.4.4 Measuring Working Environment
12.4.5 Mine Inspection
12.4.6 Tunnel Wall Inspection
12.4.7 Locating Underground Pipes
12.5 Security & Surveillance
12.5.1 Access Control System
12.5.2 Perimeter Security
12.5.3 Transportation
12.5.4 Commercial Facilities
12.6 Traffic Monitoring and Management
12.6.1 Traffic Flow Analysis
12.6.2 Traffic Light Control
12.6.3 Traffic Classification
12.6.4 Distance Measuring Equipment
12.6.5 Air Traffic Control (ATC) Radar
12.6.6 Ground Control Approach (GTC) Radar
12.7 Environmental & Weather Monitoring
12.7.1 Weather Surveillance Radar System
12.7.2 Weather and Planetary Observation
12.8 Other Applications
12.8.1 Healthcare
12.8.2 Agriculture
12.8.3 Construction Machines
12.8.4 Smart Electronics Devices

13 Market, By Vertical
13.1 Introduction
13.2 Commercial
13.3 Government
13.4 Industrial

14 Geographic Analysis
14.1 Introduction
14.2 North America
14.2.1 U.S.
14.2.1.1 U.S. is Home to Some of the Major Radar Sensor and System Manufacturers in the World
14.2.1.2 Current Situation in Syria and Libya Against Isis Resulted in Adoption of Advanced Uavs By the U.S. Forces
14.2.2 Canada
14.2.2.1 Canada to Be the Second-Largest North American Market for Radar Sensors Owing to Increasing Territorial Conflicts and Geopolitical Instabilities
14.2.2.2 Companies Opting New Contracts of Radar Systems
14.2.3 Mexico
14.2.3.1 Mexican Government Upgrading Its Military Infrastructure
14.3 Europe
14.3.1 France
14.3.1.1 France Was the Third-Largest Automobile Manufacturer (2015)
14.3.1.2 Revision in Defense Budget Due to Recent Terrorist Attack in Paris
14.3.2 U.K.
14.3.2.1 Strong Automotive and Consumer Electronics Industries
14.3.2.2 U.K. to Hold A Larger Market Share Compared to Other European Countries
14.3.3 Italy
14.3.3.1 Italy Strengthens Its Defense Solutions to Overcome Concerns Related to Immigrants and Isil Threats
14.3.4 Rest of Europe
14.3.4.1 Spain Ranked Second in the Automobile Manufacturing in 2015
14.4 Asia-Pacific (APAC)
14.4.1 China
14.4.1.1 China is the Largest Economic Power in APAC
14.4.1.2 Upgrading Defense and Military Systems
14.4.2 Japan
14.4.2.1 Japan Ranks Third in Terms of Global Vehicle Production (2015)
14.4.2.2 Japanese Military is Among the Most Powerful Armies in the APAC Region
14.4.3 India
14.4.3.1 Terrorists Attacks and Border Disputes With Neighboring Nations Would Boost the Demand for Radar Sensors and Systems in India
14.4.3.2 Sixth-Largest Automobile Industry in the World in Terms of Vehicle Unit Production (2015)
14.4.4 South Korea
14.4.4.1 Home to Major Automotive Manufacturers
14.4.5 Rest of APAC
14.5 Rest of the World (RoW)
14.5.1 South America
14.5.2 Middle East & Africa

15 Competitive Landscape
15.1 Overview
15.2 Key Players in Radar Sensor Market
15.3 Competitive Situations and Trends
15.3.1 New Product Developments
15.3.2 Partnerships, Agreements, Contracts, and Collaborations
15.3.3 Other Developments
15.3.4 Mergers & Acquisitions
15.3.5 Expansions

16 Company Profiles
(Overview, Products and Services, Financials, Strategy & Development)*
16.1 Introduction
16.2 Robert Bosch GmbH
16.3 Continental AG
16.4 Denso Corporation
16.5 ZF Friedrichshafen AG
16.6 Delphi Automotive PLC
16.7 Hella KGAA Hueck & Co
16.8 Infineon Technologies AG
16.9 Autoliv Inc.
16.10 Airbus Group
16.11 Lockheed Martin Corporation
16.12 Raytheon Company
16.13 NXP Semiconductors N.V.
16.14 Escort Inc.
16.15 Smart Microwave Sensors GmbH
16.16 Omniradar BV

*Details on Overview, Products and Services, Financials, Strategy & Development Might Not Be Captured in Case of Unlisted Companies.

17 Appendix
17.1 Insights of Industry Experts
17.2 Discussion Guide
17.3 Knowledge Store: Marketsandmarkets' Subscription Portal
17.4 Introducing RT: Real-Time Market Intelligence
17.5 Available Customizations
17.5.1 Radar Sensor Market, By Automotive Application (2016-2022)
17.5.2 Market, By Western Europe and Eastern Europe Region (2016-2022)
17.5.3 Market, By Type (For 2017, 2019, and 2021)
17.5.4 Radar Sensor Market, By Band (For 2017, 2019, and 2021)
17.5.5 Market, By Range (For 2017, 2019, and 2021)
17.5.6 Radar Sensor Market, By Application (For 2017, 2019, and 2021)
17.5.7 Market, By Vertical (For 2017, 2019, and 2021)
17.6 Related Reports

List of Tables
Table 1 Currency Table
Table 2 Number of Active Conflicts and Death Casualties Across the Globe: 2008 to 2014
Table 3 Territorial Conflicts & Geopolitical Instabilities Expected to Propel the Growth of the Market
Table 4 Illegality Issues Related To the Use of Radar Detectors in Certain Countries Acts as A Restraining Factor for the Market
Table 5 Military Expenditure, By Developing Country, 2005-2014 (USD Billion)
Table 6 Immense Growth Opportunities in the Automotive Sector is the Key Opportunity for the Market
Table 7 Electromagnetic Jamming of Radars and Noise Interruptions During Satellite Communication is A Major Challenge for the Studied Market
Table 8 Porter's Five Forces Analysis: Bargaining Power of Buyers and Intensity of Competitive Rivalry Likely to Have A High Impact on the market
Table 9 Specifications of Automotive Radar Frequencies Based on Region and Country
Table 10 Radar Sensor Market, By Type, 2013-2022 (USD Million)
Table 11 Market, By Imaging Radar Type, 2013-2022 (USD Million)
Table 12 Imaging Radar Sensor Market, By Application, 2013-2022 (USD Million)
Table 13 Radar Sensor Market, By Non-Imaging Radar Type, 2013-2022 (USD Million)
Table 14 Non-Imaging Radar Sensor Market, By Application, 2013-2022 (USD Million)
Table 15 Radar Sensor Market, By Band, 2013-2022 (USD Million)
Table 16 List of Radar Frequency Bands
Table 17 Radar Sensor Market for HF, VHF, and UHF Bands, By Application, 2013-2022 (USD Million)
Table 18 Market for L, S, C, and X Bands, By Application, 2013-2022 (USD Million)
Table 19 Market for Ku, K, Ka, V, and W Bands, By Application, 2013-2022 (USD Million)
Table 20 Radar Range for Automotive Applications
Table 21 Radar Sensor Range Classification in the Automotive Sector
Table 22 Radar Sensor Market, By Range, 2013-2022 (USD Million)
Table 23 Short-Range Market, By Application, 2013-2022 (USD Million)
Table 24 Mid-Range Market, By Application, 2013-2022 (USD Million)
Table 25 Long-Range Market, By Application, 2013-2022 (USD Million)
Table 26 Market, By Application, 2013-2022 (USD Million)
Table 27 Radar Sensor Market for Aerospace & Defense Application, By Value and Volume, 2013-2022 (USD Million)
Table 28 Market for Automotive Application, By Type, 2013-2022 (USD Million)
Table 29 Market for Automotive Application, By Band, 2013-2022 (USD Million)
Table 30 Market for Automotive Application, By Range, 2013-2022 (USD Million)
Table 31 Market for Automotive Application, By Region, 2013-2022 (USD Million)
Table 32 Radar Sensor Market for Aerospace & Defense Application, By Value and Volume, 2013-2022 (USD Million)
Table 33 Market, By Aerospace & Defense Application, 2013-2022 (USD Million)
Table 34 Market for Aerospace & Defense Application, By Type, 2013-2022 (USD Million)
Table 35 Market for Aerospace & Defense Application, By Band, 2013-2022 (USD Million)
Table 36 Market for Aerospace & Defense Application, By Range, 2013-2022 (USD Million)
Table 37 Market for Aerospace & Defense Application, By Region, 2013-2022 (USD Million)
Table 38 Radar Sensor Market for Industrial Application, By Type, 2013-2022 (USD Million)
Table 39 Market for Industrial Application, By Band, 2013-2022 (USD Million)
Table 40 Market for Industrial Application, By Range, 2013-2022 (USD Million)
Table 41 Market for Industrial Application, By Region, 2013-2022 (USD Million)
Table 42 Radar Sensor Market for Security & Surveillance Application, By Type, 2013-2022 (USD Million)
Table 43 Market for Security & Surveillance Application, By Band, 2013-2022 (USD Million)
Table 44 Market for Security & Surveillance Application, By Range, 2013-2022 (USD Million)
Table 45 Market for Security & Surveillance Application, By Region, 2013-2022 (USD Million)
Table 46 Radar Sensor Market for Traffic Monitoring & Management Application, By Type, 2013-2022 (USD Million)
Table 47 Market for Traffic Monitoring & Management Application, By Band, 2013-2022 (USD Million)
Table 48 Market for Traffic Monitoring & Management Application, By Range, 2013-2022 (USD Million)
Table 49 Market for Traffic Monitoring & Management Application, By Region, 2013-2022 (USD Million)
Table 50 Radar Sensor Market for Environmental & Weather Monitoring Application, By Type, 2013-2022 (USD Million)
Table 51 Market for Environmental & Weather Monitoring Application, By Band, 2013-2022 (USD Million)
Table 52 Market for Environmental & Weather Monitoring Application, By Range, 2013-2022 (USD Million)
Table 53 Market for Environmental & Weather Monitoring Application, By Region, 2013-2022 (USD Million)
Table 54 Radar Sensor Market for Other Applications, By Type, 2013-2022 (USD Million)
Table 55 Market for Other Applications, By Band, 2013-2022 (USD Million)
Table 56 Market for Other Applications, By Range, 2013-2022 (USD Million)
Table 57 Market for Other Applications, By Region, 2013-2022 (USD Million)
Table 58 Market, By Vertical, 2013-2022 (USD Million)
Table 59 Radar Sensor Market for Commercial Vertical, By Region, 2013-2022 (USD Million)
Table 60 Market for Government Vertical, By Region, 2013-2022 (USD Million)
Table 61 Market for Industrial Vertical, By Region, 2013-2022 (USD Million)
Table 62 Market, By Region, 2013-2022 (USD Million)
Table 63 Radar Sensor Market in North America, By Country, 2013-2022 (USD Million)
Table 64 Market in North America, By Application, 2013-2022 (USD Million)
Table 65 Market in North America, By Vertical, 2013-2022 (USD Million)
Table 66 Radar Sensor Market in Europe, By Country, 2013-2022 (USD Million)
Table 67 Market in Europe, By Application, 2013-2022 (USD Million)
Table 68 Market in Europe, By Vertical, 2013-2022 (USD Million)
Table 69 Radar Sensor Market in APAC, By Country, 2013-2022 (USD Million)
Table 70 Market in APAC, By Application, 2013-2022 (USD Million)
Table 71 Market in APAC, By Vertical, 2013-2022 (USD Million)
Table 72 Radar Sensor Market in RoW, By Country, 2013-2022 (USD Million)
Table 73 Market in RoW, By Application, 2013-2022 (USD Million)
Table 74 Market in RoW, By Vertical, 2013-2022 (USD Million)
Table 75 Companies Revenue of Major Players, USD Billion (2013-2015)
Table 76 Top 5 Players in the Radar Sensor Market, 2015
Table 77 New Product Developments, 2012-2016
Table 78 Partnerships, Agreements, Contracts, and Collaborations (2014-2015)
Table 79 Other Developments (2013-2016)
Table 80 Mergers & Acquisitions (2012-2015)
Table 81 Expansions (2015)

List of Figures

Figure 1 Market Segmentation
Figure 2 Radar Sensor Market: Research Design
Figure 3 Data Triangulation
Figure 4 Process Flow of Market Size Estimation
Figure 5 Snapshot of Radar Sensor Market (2013-2022)
Figure 6 Market for Non-Imaging Radar Sensors Estimated to Grow at the Highest Rate Between 2016 and 2022
Figure 7 L, S, C, and X Bands Held the Largest Share of the Overall Market in 2015
Figure 8 Market for Short-Range Radar Sensors Expected to Grow at the Highest Rate between 2016 and 2022
Figure 9 Aerospace & Defense Application Estimated to Hold the Largest Size of the market Between 2016 and 2022
Figure 10 North America Lead the Radar Sensor Market in 2015
Figure 11 A&D Application to Dominate the Overall Radar Sensor Market in 2015
Figure 12 Non-Imaging Radar Sensors Expected to Hold the Largest Market Size Between 2016 and 2022
Figure 13 L, S, C, and X Bands Likely to Dominate the Market between 2016 and 2022
Figure 14 Long-Range Radar Sensors Estimated to Hold the Largest Market Size During the Forecast Period
Figure 15 Government Sector Held the Largest Share of the Market Based on Verticals in 2015
Figure 16 A&D Application to Hold Major Share of the Overall Market, By Application (2016-2022)
Figure 17 North America Expected to Hold the Largest Share of the Market in 2016
Figure 18 U.S. Expected to Hold the Largest Share of the Radar Sensor Market in 2016
Figure 19 APAC Expected to Enter the Maturity Stage in the Market Between 2016 and 2022
Figure 20 Top Five Countries With Highest Military Expenditure (2014)
Figure 21 Increasing Territorial Conflicts & Geopolitical Instabilities in Major Regions Expected to Propel the Growth of the Radar Sensor Market
Figure 22 World Military Expenditure, 2001-2015
Figure 23 Automotive Application Features Related to Safety, Comfort, and Assistance
Figure 24 Road Traffic Death Rates, By Country Income Status, (Per 100,000 Population)
Figure 25 Major Applications of Radar Sensors in the Automotive Sector
Figure 26 Value Chain Analysis of the Radar Sensor Market
Figure 27 Introduction of Lightweight and Dual Band Radar Systems: Leading Trend Among Key Market Players
Figure 28 Overview of Porter's Five Forces Analysis for the Radar Sensor Market (2015)
Figure 29 Radar Sensor Market: Porter's Five Forces Analysis (2015)
Figure 30 Market: Threat of New Entrants
Figure 31 Radar Sensor Market: Threat of Substitutes
Figure 32 Market: Bargaining Power of Suppliers
Figure 33 Radar Sensor Market: Bargaining Power of Buyers
Figure 34 Market: Intensity of Competitive Rivalry
Figure 35 Core Manufacturing Technologies and Operating Principle Involved in the Radar Sensor Market
Figure 36 Radar System Block Diagram
Figure 37 Radar Sensor Market, By Type
Figure 38 Continuous Wave Radar Sensors Expected to Dominate the Market Based on Types Between 2016 and 2022
Figure 39 Aerospace & Defense Application Expected to Hold the Largest Size of the Imaging Market Between 2016 and 2022
Figure 40 Block Diagram of Continuous Wave Radar
Figure 41 Block Diagram of Pulse Radar
Figure 42 Block Diagram of MTI Radar
Figure 43 Block Diagram of Pulse Doppler Radar
Figure 44 Automotive Application Likely to Dominate the Non-Imaging Radar Sensor Market During the Forecast Period
Figure 45 Market for Ku, K, Ka, V, and W Bands Expected to Grow at the Highest Rate Between 2016 and 2022
Figure 46 Aerospace & Defense Application Expected to Dominate the Market for Radar Systems With HF, VHF, & UHF Bands, During the Forecast Period
Figure 47 Market for Automotive Application for Radar Systems With L, S, C, & X Bands Expected to Grow at the Highest Rate During the Forecast Period
Figure 48 Automotive Application Expected to Lead the Radar Sensor Market for Ku, K, Ka, V, and W Bands During 2016-2022
Figure 49 Preference for Radar Over Other Remote Sensing Technologies
Figure 50 Long-Range Radar Sensors Dominated the Radar Sensor Market in 2015
Figure 51 Automotive Applications Would Lead the Short-Range Market During 2016-2022
Figure 52 A&D Application Expected to Hold the Largest Size of the Mid-Range Radar Sensor Market During the Forecast Period
Figure 53 A&D Application Expected to Hold the Largest Size of the Long-Range Radar Sensor Market Between 2016 and 2022
Figure 54 Radar Sensor Market, By Application (2016-2022)
Figure 55 Radar Sensor Applications in the Automotive Sector
Figure 56 Market for Ku, K, Ka, V, and W Bands for Automotive Application Expected to Grow at the Highest Rate During 2016-2022
Figure 57 APAC Expected to Hold the Largest Size of the Market for Automotive Application By 2022
Figure 58 Ground-Based Radar Sensors and Systems to Hold the Largest Market Share for Aerospace & Defense Application in 2015
Figure 59 L, S, C, and X Bands Expected to Hold the Largest Market Size for Aerospace & Defense Application During 2016-2022
Figure 60 North America Held the Largest Share of the Radar Sensor Market for Aerospace & Defense Application in 2015
Figure 61 Non-Imaging Radar Sensors Expected to Dominate the Market for Industrial Application Between 2016 and 2022
Figure 62 Mid-Range Radar Sensors Held the Largest Share of the Market for Industrial Application in 2015
Figure 63 Ku, K, Ka, V, and W Bands Expected to Dominate the Market for Security & Surveillance Application Between 2016 and 2022
Figure 64 APAC Expected to Grow at the Highest Rate in the Market for Security & Surveillance Application During the Forecast Period
Figure 65 Market for L, S, C, and X Bands to Hold A Major Market Share of the Traffic Monitoring & Management Application By 2022
Figure 66 North America Dominated the Market for Traffic Monitoring & Management Application in 2015
Figure 67 Non-Imaging Radar Sensor Market for Environmental & Weather Monitoring Application Expected to Hold Major Share During the Forecast Period
Figure 68 Long-Range Radar Sensors Dominated the Market for Environmental & Weather Monitoring Application in 2015
Figure 69 APAC Market for Environmental & Weather Monitoring Application Expected to Grow at the Highest Rate During the Forecast Period
Figure 70 L, S, C, and X Bands Expected to Hold the Largest Size of the Overall Radar Sensor Market for Other Applications Between 2016 and 2022
Figure 71 Market for Other Applications in APAC Estimated to Grow at the Highest Rate Between 2016 and 2022
Figure 72 Radar Sensor Market, By Vertical (2016-2022)
Figure 73 The Market for Commercial Vertical Expected to Grow at A High Growth Rate Between 2016 and 2022
Figure 74 North America Held A Major Share of the Radar Sensor Market for Government Vertical in 2015
Figure 75 North America Expected to Hold the Largest Size Of the Market for Industrial Vertical During the Forecast Period
Figure 76 Geographic Snapshot of Radar Sensor Market (2016-2022)
Figure 77 APAC: an Attractive Destination for the Market Based on Application and Vertical Between 2016 and 2022
Figure 78 North American Market Snapshot — Supportive Government Plans and Presence of Key Players in the Region are the Major Drivers
Figure 79 Radar Sensor Market for Commercial Vertical Expected to Grow at the Highest Rate Between 2016 and 2022
Figure 80 U.S. to Lead the North American Radar Sensors Market Between 2016 and 2022
Figure 81 European Market Snapshot — U.K. to Hold A Major Market Share Between 2016 and 2022
Figure 82 Government Vertical Held the Largest Share of the European Radar Sensor Market in 2015
Figure 83 U.K. Held A Major Share of the European Market in 2015, Owing to Increasing Investment in the Military Sector
Figure 84 APAC Market Snapshot — China Held A Major Share of the market in APAC in 2015
Figure 85 Aerospace & Defense Expected to Hold the Largest Size of the market in APAC During 2016-2022
Figure 86 China Held the Largest Share of the APAC Radar Sensor Market for the Aerospace & Defense Sector in 2015
Figure 87 RoW Market Snapshot — South America to Lead the Market During the Forecast Period
Figure 88 Companies Adopted New Product Developments as the Key Growth Strategy Between 2012 and 2016
Figure 89 ZF Friedrichshafen AG Registered Highest Growth Rate in Terms of Overall Revenue Between 2013 and 2015
Figure 90 Market Evolution Framework — New Product Developments as the Major Strategy Adopted By Key Players
Figure 91 Battle for Market Ranking: New Product Developments as the Key Growth Strategy
Figure 92 Geographic Revenue Mix of the Major Market Players
Figure 93 Robert Bosch GmbH: Company Snapshot
Figure 94 Robert Bosch GmbH: SWOT Analysis
Figure 95 Continental AG: Company Snapshot
Figure 96 Continental AG: SWOT Analysis
Figure 97 Denso Corporation: Company Snapshot
Figure 98 Denso Corporation: SWOT Analysis
Figure 99 ZF Friedrichshafen AG: Company Snapshot
Figure 100 ZF Friedrichshafen AG: SWOT Analysis
Figure 101 Delphi Automotive PLC: Company Snapshot
Figure 102 Delphi Automotive PLC: SWOT Analysis
Figure 103 Hella KGAA Hueck & Co: Company Snapshot
Figure 104 Infineon Technologies AG: Company Snapshot
Figure 105 Autoliv Inc.: Company Snapshot
Figure 106 Airbus Group: Company Snapshot
Figure 107 Lockheed Martin Corporation: Company Snapshot
Figure 108 Raytheon Company: Company Snapshot
Figure 109 NXP Semiconductors N.V.: Company Snapshot

Ordering:
Order Online - http://www.researchandmarkets.com/reports/3752108/
Order by Fax - using the form below
Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

Product Name: Radar Sensor Market by Type (Imaging and Non-Imaging), Technology, Component, Band (HF, VHF, and UHF; L, S, C, and X; Ku, K, Ka, V, and W), Range (Short-Range, Mid-Range, Long-Range), Application, Vertical, and Geography - Global Forecast to 2022
Web Address: http://www.researchandmarkets.com/reports/3752108/
Office Code: SCBRRNB8

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User:</td>
<td>USD 5650</td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 5 Users:</td>
<td>USD 6650</td>
</tr>
<tr>
<td>Electronic (PDF) - Site License:</td>
<td>USD 8150</td>
</tr>
<tr>
<td>Electronic (PDF) - Enterprisewide:</td>
<td>USD 10000</td>
</tr>
</tbody>
</table>

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: [Mr] [Mrs] [Dr] [Miss] [Ms] [Prof]
First Name: __________________________ Last Name: __________________________
Email Address: * __________________________
Job Title: __________________________
Organisation: __________________________
Address: __________________________
City: __________________________
Postal / Zip Code: __________________________
Country: __________________________
Phone Number: __________________________
Fax Number: __________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:

Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:

Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ________________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp