

Surface Radars Market by Platform (Critical Infrastructure, Vehicle-Mounted, Shipborne, Unmanned Surface Vehicles), Application (Surveillance, Air-Defense, Perimeter Security, Battlefield ISR), Frequency Band, Dimension - Global Forecast to 2029

Market Report | 2024-10-28 | 300 pages | MarketsandMarkets

AVAILABLE LICENSES:

- Single User \$4950.00
- Multi User \$6650.00
- Corporate License \$8150.00
- Enterprise Site License \$10000.00

Report description:

The surface radars market is projected to reach USD 22.49 billion by 2029, from USD 17.26 billion in 2024, at a CAGR of 5.4%. The volume of surface radars is projected to grow from 4690 (in Units) in 2024 to 6113 (in Units) by 2029. The market is driven by key factors, including US defense programs to counter threats, a surge in demand due to ongoing conflicts, and global defense expenditure. The development of missile defense systems and the nature of warfare further fuel market growth. However, the market faces challenges from regulations on arms transfers, operational complexities requiring maintenance, and the development costs of missile systems, which can hinder expansion.

"Based on frequency band, X-Band segment is estimated to capture the largest share in the market during the forecast period" The X-Band frequency segment is likely to capture the largest share in the surface radar market within the forecast period with higher application in both military and commercial domains. X-Band radars are highly accurate and are more sensitive, hence used for missile defense systems, airborne surveillance, and naval radar systems. These are highly used for low-observable objects such as drones, aircraft, and missiles especially in areas with high clutter conditions like urban or coastal regions. The growing geopolitical tensions and the increase in interests in border security also contribute to high demand for X-Band radars in military applications. However, it is pushed further by the latest radar technologies in the offering, such as Active Electronically Scanned Array that, in turn provides greater power of detection along with tracking capabilities of X-Band radars. Civil application is on the rise in weather monitoring and air traffic control, pushing the market share even higher than the present rate.

"Based on waveform, the Frequency Modulated Continuous Wave (FMCW) segment forecasted to grow at highest CAGR during forecast period "

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

The FMCW radar segment is likely to achieve the highest CAGR in the forecast period. Advances made in FMCW radars support real-time target identification with high-resolution imaging, hence igniting their adoption. Consequently, such a type of radar technology is critical for applications where continuous detection and ranging without any interruptions is sought after, including surveillance systems, autonomous vehicles, and air traffic control. FMCW radars are also increasingly used in unmanned systems and anti-drone technology, and for this reason, the role they play is key to modern warfare and counter-terrorist operations. Current interest in more precise tracking and target identification in defense applications gives the demand for FMCW radars a strong boost due to its accuracy advantage and longer range than traditional pulsed radars. Other reasons for this growth relate to the greater incorporation of these products into industrial applications, such as commercial automation and monitoring of safety conditions.

" The Europe region is estimated to be the largest market during the forecast period"

The Europe region is likely to dominate the surface radar market for the forecast period, driven by several key factors. There are several leading defense contractors such as Thales, BAE Systems, and Leonardo S.p.A located in Europe, which has been investing heavily in the development of the radar system for military and civil applications. This is now compelling European countries to improve their air and missile defense systems as rising geopolitical tensions in the region, including border security concerns, get on their nerves due to NATO-Russia relations. France, Germany, and the UK are among the countries increasing defense spending, and demand for such advanced radar technologies that can offer early warning and real-time surveillance will now be seen increasing. Furthermore, increased concern for the development of smart cities and civil infrastructure in Europe is driving the adoption of radar systems in smart city infrastructure, including applications in road traffic management and weather forecasting, for the protection of critical infrastructure. The collaborative defense programs that are ongoing, such as NATO defense initiatives, also promote market growth by expanding the deployment of radar systems across various NATO member countries.

In-depth interviews have been conducted with chief executive officers (CEOs), Directors, and other executives from various key organizations operating in the surface radars marketplace.

-□By Company Type: Tier 1 - 35%, Tier 2 - 45%, and Tier 3 - 20%

-□By Designation: C-level - 35%, Director Level - 25%, and Others - 40%

-□By Region: North America- 35%, Europe - 20%, Asia Pacific- 30%, Middle East - 10% and Rest of the World - 5%

include Lockheed Martin Corporation (US), RTX (US), BAE Systems (UK), Northrop Grumman (US), L3Harris Corporation (US), Leonardo S.p.A (Italy), Israel Aerospace Industries (Israel), Thales (France), Saab AB (Sweden), Elbit Systems Ltd. (Israel), and are some of the leading players operating in the surface radars market.

Research Coverage

This research report categorizes the surface radars market by platform, application, range, frequency, dimension, component, waveform, and by Region. The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the surface radars market. A detailed analysis of the key industry players has been done to provide insights into their business overview, products, and services; key strategies; Contracts, partnerships, agreements, new product launches, and recent developments associated with the surface radars market.

Competitive analysis of upcoming startups in surface radars market ecosystem is covered in this report.

Key benefits of buying this report: This report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall surface radars market and its subsegments. The report covers the entire ecosystem of the surface radars market. It will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report will also help stakeholders understand the pulse of the market and provide them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

- Analysis of key Drivers (Focus on enhancing homeland security and border surveillance capabilities, advancements in radar

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

technologies, emergence of modern warfare , requirement for drone detection systems at airports), restrains (Need for substantial R&D funding), opportunities (Increased advancements in Hardware & Software Integration in Radar Technology, increased Compact Radars for Anti-drones application , increasing preference for phased array solid-state radars, development of low-cost and miniaturized radars) and challenges (Extreme weather conditions, Vulnerability of radars to new jamming techniques) influencing the growth of the market.

- Product Development/Innovation: Detailed Insights on upcoming technologies, R&D activities, and new products/solutions launched in the market.
- Market Development: Comprehensive information about lucrative markets - the report analyses the surface radars market across varied regions
- Market Diversification: Exhaustive information about new solutions, recent developments, and investments in the surface radars market
- Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players including Lockheed Martin Corporation (US), RTX (US), BAE Systems (UK), Northrop Grumman (US), L3Harris Corporation (US), Leonardo S.p.A (Italy) and among others in the surface radars market.

Table of Contents:

1	INTRODUCTION	29
1.1	STUDY OBJECTIVES	29
1.2	MARKET DEFINITION	29
1.3	STUDY SCOPE	30
1.3.1	MARKET SEGMENTATION	30
1.3.2	INCLUSIONS AND EXCLUSIONS	31
1.4	YEARS CONSIDERED	31
1.5	CURRENCY CONSIDERED	32
1.6	STAKEHOLDERS	32
2	RESEARCH METHODOLOGY	33
2.1	RESEARCH DATA	33
2.1.1	SECONDARY DATA	34
2.1.1.1	Key data from secondary sources	35
2.1.2	PRIMARY DATA	35
2.1.2.1	Key data from primary sources	36
2.1.2.2	Insights from industry experts	36
2.1.2.3	Breakdown of primary interviews	37
2.2	FACTOR ANALYSIS	37
2.2.1	INTRODUCTION	37
2.2.2	DEMAND-SIDE ANALYSIS	37
2.2.3	SUPPLY-SIDE ANALYSIS	38
2.3	MARKET SIZE ESTIMATION	38
2.3.1	BOTTOM-UP APPROACH	38
2.3.2	TOP-DOWN APPROACH	39
2.4	DATA TRIANGULATION	40
2.5	RESEARCH ASSUMPTIONS	40
2.6	RESEARCH LIMITATIONS	41
2.7	RISK ASSESSMENT	41
3	EXECUTIVE SUMMARY	42
4	PREMIUM INSIGHTS	45
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN SURFACE RADARS MARKET	45

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

4.2	SURFACE RADARS MARKET, BY APPLICATION	45
4.3	SURFACE RADARS MARKET, BY COMPONENT	46
4.4	SURFACE RADARS MARKET, BY WAVEFORM	46
4.5	SURFACE RADARS MARKET, BY CRITICAL INFRASTRUCTURE	47
4.6	SURFACE RADARS MARKET, BY REGION	47
5	MARKET OVERVIEW	48
5.1	INTRODUCTION	48
5.2	MARKET DYNAMICS	48
5.2.1	DRIVERS	49
5.2.1.1	Focus on enhancing homeland security and border surveillance capabilities	49
5.2.1.2	Advancements in radar technologies	49
5.2.1.3	Emergence of modern warfare	49
5.2.1.4	Requirements for drone detection systems at airports	50
5.2.1.5	Enhanced maritime safety and operational efficiency	50
5.2.2	RESTRAINTS	51
5.2.2.1	Insufficient R&D funding	51
5.2.3	OPPORTUNITIES	51
5.2.3.1	Increased advancements in hardware and software integration in radar technology	51
5.2.3.2	Increased use of compact radars for anti-drone applications	51
5.2.3.3	Preference for phased array solid-state radars	52
5.2.3.4	Development of low-cost, miniaturized radars	52
5.2.4	CHALLENGES	52
5.2.4.1	Extreme weather conditions	52
5.2.4.2	Vulnerability of radars to new jamming techniques	53
5.3	TRENDS AND DISRUPTIONS IMPACTING CUSTOMER BUSINESS	53
5.4	ECOSYSTEM ANALYSIS	53
5.4.1	PROMINENT COMPANIES	53
5.4.2	PRIVATE AND SMALL ENTERPRISES	54
5.4.3	END USERS	54
5.5	VALUE CHAIN ANALYSIS	55
5.6	PRICING ANALYSIS	56
5.6.1	INDICATIVE PRICING ANALYSIS, BY PLATFORM	56
5.7	OPERATIONAL DATA	58
5.8	TECHNOLOGY ANALYSIS	59
5.8.1	KEY TECHNOLOGIES	59
5.8.1.1	Gallium nitride semiconductor	59
5.8.1.2	Active electronically scanned array	59
5.8.2	COMPLEMENTARY TECHNOLOGIES	59
5.8.2.1	Quantum computing	59
5.8.3	ADJACENT TECHNOLOGIES	60
5.8.3.1	Sensor fusion	60
5.8.3.2	Photonics and optical technologies	60
5.8.3.3	Other technologies	60
?		
5.9	TRADE ANALYSIS	61
5.9.1	IMPORT SCENARIO (HS CODE 8526)	61
5.9.2	EXPORT SCENARIO (HS CODE 8526)	62

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

5.10	USE CASE ANALYSIS	63
5.10.1	INTEGRATION OF ADVANCED RADAR SYSTEMS IN INS VIKRANT TO ENHANCE NAVAL DEFENSE AND SURVEILLANCE	63
5.10.2	DEPLOYMENT OF LEONARDO'S TMMR TO MEET DEMAND FOR MOBILE RADARS WITH WORLD-CLASS PERFORMANCE	63
5.10.3	NAVTECH'S RADAR TECHNOLOGY MAINTAINS SAFETY AND EFFICIENCY IN INCREASINGLY COMPLEX AND AUTONOMOUS MARINE ENVIRONMENT	63
5.10.4	US MISSILE DEFENSE AGENCY AND RAYTHEON MISSILES & DEFENSE COLLABORATED TO REPLACE COOLING SYSTEM OF SEA-BASED X-BAND RADAR (SBX) WITH NEW, ENVIRONMENTALLY FRIENDLY COMPONENTS	64
5.11	KEY CONFERENCES & EVENTS, 2024-2025	64
5.12	REGULATORY LANDSCAPE	65
5.13	KEY STAKEHOLDERS & BUYING CRITERIA	67
5.13.1	KEY STAKEHOLDERS IN BUYING PROCESS	67
5.13.2	BUYING CRITERIA	68
5.14	TECHNOLOGY ROADMAP	69
5.15	TOTAL COST OF OWNERSHIP	70
5.16	BILL OF MATERIALS	71
5.17	SURFACE RADARS MARKET: BUSINESS MODELS	73
5.18	INVESTMENT AND FUNDING SCENARIO	75
5.19	MACROECONOMIC OUTLOOK	76
5.19.1	INTRODUCTION	76
5.19.2	NORTH AMERICA	76
5.19.3	EUROPE	77
5.19.4	ASIA PACIFIC	77
5.19.5	MIDDLE EAST	78
5.19.6	ROW	78
6	INDUSTRY TRENDS	79
6.1	INTRODUCTION	79
6.2	TECHNOLOGY TRENDS	79
6.2.1	SOFTWARE-DEFINED RADARS	79
6.2.2	MULTIPLE-INPUT AND MULTIPLE-OUTPUT (MIMO)	80
6.2.3	INVERSE SYNTHETIC APERTURE RADARS	80
6.2.4	QUANTUM RADARS	80
6.3	IMPACT OF MEGATRENDS	81
6.3.1	ADVENT OF INTERNET OF THINGS	81
6.3.2	SHIFT IN GLOBAL ECONOMIC POWER	81
6.3.3	DEVELOPMENT OF ANTENNAS IN RADAR SYSTEMS	81
6.4	SUPPLY CHAIN ANALYSIS	82
6.5	IMPACT OF AI ON SURFACE RADARS MARKET	83
6.5.1	INTRODUCTION	83
6.5.2	ADOPTION OF AI IN MILITARY BY TOP COUNTRIES	83
6.5.3	IMPACT OF AI ON DEFENSE: USE CASES	85
6.5.4	IMPACT OF AI ON SURFACE RADARS MARKET	86
6.6	PATENT ANALYSIS	88
7	SURFACE RADARS MARKET, BY PLATFORM	92
7.1	INTRODUCTION	93
7.2	CRITICAL INFRASTRUCTURE	94
7.2.1	MODERNIZATION OF CRITICAL INFRASTRUCTURE TO LEAD TO INCREASED DEMAND FOR RADAR SYSTEMS	94
7.2.2	AIRPORTS	94

7.2.3	SEAPORTS	95
7.2.4	POWER PLANTS	95
7.2.5	MILITARY BASES & COMMAND CENTRES	95
7.2.6	OIL & GAS PRODUCTION SITES	95
7.3	VEHICLE-MOUNTED	96
7.3.1	NEED FOR WIDE SURVEILLANCE COVERAGE TO DRIVE DEMAND	96
7.3.2	MILITARY	96
7.3.3	COMMERCIAL	96
7.4	SHIPBORNE	96
7.4.1	INCREASE IN ILLEGAL MARITIME ACTIVITIES TO DRIVE DEMAND FOR SHIPBORNE RADAR SYSTEMS	96
7.4.2	MILITARY	97
7.4.3	COMMERCIAL	97
7.5	UNMANNED SURFACE VEHICLES	97
7.5.1	NEED FOR ADVANCED SOLUTIONS TO TRACK SECURITY THREATS TO SPUR GROWTH	97
7.5.2	MILITARY	98
7.5.3	COMMERCIAL	98
7.6	OTHER PLATFORMS	98
8	SURFACE RADARS MARKET, BY COMPONENT	99
8.1	INTRODUCTION	100
8.2	ANTENNAS	101
8.2.1	ADVANCED COMMUNICATION NEEDS AND MODERN WARFARE REQUIREMENTS TO DRIVE DEMAND FOR ANTENNAS	101
8.2.2	PARABOLIC REFLECTOR ANTENNAS	101
8.2.3	SLOTTED WAVEGUIDE ANTENNAS	102
8.2.4	PHASED ARRAY ANTENNAS	102
8.2.5	MULTIPLE-INPUT AND MULTIPLE-OUTPUT (MIMO)	102
8.2.6	ACTIVE SCANNED ARRAY ANTENNAS	102
8.2.7	PASSIVE SCANNED ARRAY ANTENNAS	102
8.3	TRANSMITTERS	103
8.3.1	INCREASED DEMAND FOR COMPLEX MILITARY COMMUNICATION INFRASTRUCTURE TO DRIVE GROWTH	103
8.3.2	MICROWAVE TUBE-BASED TRANSMITTERS	103
8.3.3	SOLID-STATE ELECTRONIC TRANSMITTERS	103
8.4	RECEIVERS	103
8.4.1	RADAR RECEIVERS USE POWER AMPLIFIERS FOR SIGNAL AMPLIFICATION	103
8.4.2	ANALOG	103
8.4.3	DIGITAL	104
8.5	POWER AMPLIFIERS	104
8.5.1	POWER AMPLIFIERS EMPLOY ELECTRONIC SYSTEM DESIGN TO FOCUS ON EFFICIENCY AND LINEARITY	104
8.5.2	TRAVELING WAVE TUBE AMPLIFIERS	104
8.5.3	SOLID-STATE POWER AMPLIFIERS	104
8.5.3.1	Gallium Arsenide (GaAs)	104
8.5.3.2	Gallium Nitride (GaN)	104
8.5.3.3	Silicon carbide	105
8.5.4	GALLIUM NITRIDE POWER AMPLIFIERS	105
8.6	DUPLEXERS	105
8.6.1	DUPLEXERS ARE REQUIRED WHEN SINGLE ANTENNA IS USED TO TRANSMIT AND RECEIVE SIGNALS	105
8.6.2	BRANCH-TYPE DUPLEXERS	105
8.6.3	BALANCED-TYPE DUPLEXERS	105

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

8.6.4	CIRCULATOR DUPLEXERS	105
8.7	DIGITAL SIGNAL PROCESSORS	106
8.7.1	NEED FOR ADVANCED, HIGH-END PROCESSORS TO DRIVE DEMAND FOR DIGITAL SIGNAL PROCESSORS	106
8.8	GRAPHICAL USER INTERFACES	106
8.8.1	GRAPHICAL USER INTERFACES ALLOW USERS TO COMMUNICATE USING GRAPHICAL ICONS AND TEXT-BASED INTERFACES WITH ELECTRONIC DEVICES	106
8.8.2	CONTROL PANELS	106
8.8.3	GRAPHIC PANELS	106
8.8.4	DISPLAYS	107
8.9	STABILIZATION SYSTEMS	107
8.9.1	STABILIZATION SYSTEMS ENHANCE MILITARY MOBILITY AND EFFECTIVENESS OF COMBATS	107
8.10	OTHER COMPONENTS	107
9	SURFACE RADARS MARKET, BY WAVEFORM	108
9.1	INTRODUCTION	109
9.2	FREQUENCY-MODULATED CONTINUOUS WAVE (FMCW)	110
9.2.1	NEED FOR VERSATILITY AND ACCURACY IN COVERT OPERATIONS TO DRIVE DEMAND	110
9.3	DOPPLER	110
9.3.1	DEMAND FOR ADVANCED WEATHER PREDICTION TECHNOLOGIES TO BOOST DEMAND FOR DOPPLER RADARS	110
9.3.2	CONVENTIONAL DOPPLER RADARS	110
9.3.3	PULSE DOPPLER RADARS	111
10	SURFACE RADARS MARKET, BY FREQUENCY BAND	112
10.1	INTRODUCTION	113
10.2	HF/UHF/VHF-BAND	114
10.2.1	HF/UHF/VHF-BAND RADARS FACILITATE LONG-RANGE SURVEILLANCE AND TRACKING	114
10.3	L-BAND	115
10.3.1	L-BAND RADARS ARE WIDELY USED IN SPACE-BASED PLATFORMS	115
10.4	S-BAND	115
10.4.1	S-BAND RADARS ARE USED FOR MODERATE-RANGE SURVEILLANCE	115
10.5	C-BAND	116
10.5.1	S-BAND RADARS PROVIDE ROBUST SURVEILLANCE AND PRECISE TARGET-TRACKING CAPABILITIES	116
10.6	X-BAND	116
10.6.1	X-BAND RADARS CAN DETECT HIDDEN WEAPONS AND EXPLORE SPACE ENVIRONMENT DURING MAPPING	116
10.7	KU-BAND	117
10.7.1	KU-BAND RADARS PROVIDE HIGH-RESOLUTION IMAGING WITH ROBUST SIGNAL	117
10.8	KA-BAND	117
10.8.1	KA-BAND RADARS DELIVER HIGH THROUGHPUT BEAMS AND HIGH BANDWIDTH COMMUNICATION	117
10.9	MULTI-BAND	117
10.9.1	GROWING DEMAND FOR BETTER RADAR SIGNALS TO BOOST ADOPTION OF MULTI-BAND RADARS	117
11	SURFACE RADARS MARKET, BY RANGE	118
11.1	INTRODUCTION	119
11.2	LONG RANGE	120
11.2.1	NEED FOR LONG-DISTANCE TRACKING AND ACCURATE LOCATION TO DRIVE MARKET	120
11.3	MEDIUM RANGE	120
11.3.1	MEDIUM-RANGE RADARS ENHANCE BORDER SECURITY AND WEAPON GUIDANCE	120
11.4	SHORT RANGE	120

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

11.4.1	SHORT-RANGE RADARS ARE USED IN COMMERCIAL APPLICATIONS OR MAN-PORTABLE RECONNAISSANCE MISSIONS	120
11.5	VERY SHORT RANGE	121
11.5.1	VERY SHORT-RANGE RADARS ARE EFFECTIVE IN TRACKING FLYING THREATS	121
12	SURFACE RADARS MARKET, BY APPLICATION	122
12.1	INTRODUCTION	123
12.2	SURVEILLANCE	124
12.2.1	SURVEILLANCE RADARS CAN TRACK AND IDENTIFY AIRCRAFT FLYING LOW AND AT GREAT DISTANCE	124
12.3	AIR DEFENSE	124
12.3.1	GROWING NUMBER AND SOPHISTICATION OF THREATS TO BOOST GROWTH	124
12.4	PERIMETER SECURITY	125
12.4.1	INCREASED INVESTMENTS IN BORDER SECURITY OPERATIONS TO ENCOURAGE MARKET EXPANSION	125
12.5	BATTLEFIELD ISR	125
12.5.1	RADAR SYSTEMS PROVIDE REAL-TIME DATA ON ENEMY MOVEMENTS, ALLOWING MILITARY FORCES TO MAKE INFORMED DECISIONS	125
12.6	OTHER APPLICATIONS	126
13	SURFACE RADARS MARKET, BY DIMENSION	127
13.1	INTRODUCTION	128
13.2	2D	129
13.2.1	2D RADARS ARE WIDELY ACCEPTED FOR TERRESTRIAL, NAVAL, AND AIRBORNE SURVEILLANCE	129
13.3	3D	129
13.3.1	ENHANCED CAPABILITIES OF 3D RADARS TO DRIVE THEIR DEMAND AND ADOPTION	129
13.4	4D	130
13.4.1	4D RADARS ARE USED FOR AUTONOMOUS TACTICAL SURVEILLANCE APPLICATIONS TO GENERATE HIGH-RESOLUTION TARGET SIGNALS	130
14	SURFACE RADARS MARKET, BY TECHNOLOGY	131
14.1	SOFTWARE-DEFINED RADARS	131
14.1.1	SOFTWARE-DEFINED RADARS OFFER ENHANCED DEFENSE AGAINST LIMITED, LOW-ALTITUDE AIR THREATS	131
14.1.2	MULTIPLE-INPUT AND MULTIPLE-OUTPUT	131
14.1.3	PHASED ARRAY RADARS	131
14.1.3.1	Active electronically scanned arrays	131
14.1.3.2	Passive electronically scanned arrays	132
14.2	CONVENTIONAL RADARS	132
14.2.1	CONVENTIONAL RADARS ARE IMMUNE TO JAMMING, DETECTION, AND EXTERNAL INTERFERENCE	132
14.3	QUANTUM RADARS	132
14.3.1	QUANTUM RADARS PERFORM ACCURATE RADAR DETECTION AND STRENGTHEN DEFENSE	132
15	SURFACE RADARS MARKET, BY REGION	133
15.1	INTRODUCTION	134
15.2	NORTH AMERICA	135
15.2.1	PESTLE ANALYSIS	135
15.2.2	US	142
15.2.2.1	Need for strategic advancements in defense technologies to drive market	142
15.2.3	CANADA	143
15.2.3.1	Focus on improving surveillance radar technology to drive market	143
15.3	EUROPE	145
15.3.1	PESTLE ANALYSIS	145
15.3.2	UK	152

15.3.2.1	Rapid growth in military expenditure and increase in special surveillance and missile defense programs to drive market	152
15.3.3	GERMANY	153
15.3.3.1	Advanced technological capabilities and robust defense industry to drive market	153
15.3.4	FRANCE	155
15.3.4.1	Rising demand for surveillance systems to fuel market growth	155
15.3.5	ITALY	156
15.3.5.1	Focus on defense modernization and technological advancements	156
15.3.6	REST OF EUROPE	158
15.4	ASIA PACIFIC	159
15.4.1	PESTLE ANALYSIS	160
15.4.2	INDIA	166
15.4.2.1	Increased procurement of defense systems to drive market	166
15.4.3	JAPAN	167
15.4.3.1	Heightened security concerns to drive popularity of surface radars	167
15.4.4	SOUTH KOREA	169
15.4.4.1	Strategic investments and advancements in radar technology to fuel growth	169
15.4.5	AUSTRALIA	170
15.4.5.1	Emphasis on upgrading 737-based E-7 radar jets to indicate advancements in surface radars market	170
15.4.6	REST OF ASIA PACIFIC	172
15.5	MIDDLE EAST	173
15.5.1	PESTLE ANALYSIS	173
15.5.2	GCC COUNTRIES	180
15.5.2.1	Saudi Arabia	180
15.5.2.1.1	Government initiatives such as 'Vision 2030' to drive market	180
15.5.2.2	UAE	182
15.5.2.2.1	Increasing ballistic missile attacks from neighboring countries to drive market	182
15.5.3	TURKEY	183
15.5.3.1	Increasing focus on modernizing defense capabilities to drive market	183
15.5.4	ISRAEL	185
15.5.4.1	Increasing domestic production capabilities and rise in government investments in defense sector to drive market	185
15.6	REST OF THE WORLD	186
15.6.1	PESTLE ANALYSIS	187
15.6.2	LATIN AMERICA	192
15.6.2.1	Rigorous efforts to strengthen defense forces to drive market	192
15.6.3	AFRICA	194
15.6.3.1	Focus on small CubeSats for space-based surveillance to drive market	194
16	COMPETITIVE LANDSCAPE	196
16.1	INTRODUCTION	196
16.2	KEY PLAYER STRATEGIES/RIGHT TO WIN	196
16.3	MARKET SHARE ANALYSIS	198
16.4	REVENUE ANALYSIS	200
16.5	BRAND COMPARISON	201
16.6	COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023	201
16.6.1	STARS	201
16.6.2	EMERGING LEADERS	202

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

16.6.3	PERVASIVE PLAYERS	202
16.6.4	PARTICIPANTS	202
16.6.5	COMPANY FOOTPRINT: KEY PLAYERS	203
16.7	COMPANY VALUATION AND FINANCIAL METRICS	207
16.8	COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2023	207
16.8.1	PROGRESSIVE COMPANIES	207
16.8.2	RESPONSIVE COMPANIES	208
16.8.3	DYNAMIC COMPANIES	208
16.8.4	STARTING BLOCKS	208
16.8.5	COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2023	209
?		
16.9	COMPETITIVE SCENARIO	210
16.9.1	MARKET EVALUATION FRAMEWORK	210
16.9.2	PRODUCT LAUNCHES/DEVELOPMENTS	210
16.9.3	DEALS	212
16.9.4	OTHER DEVELOPMENTS	214
17	COMPANY PROFILES	221
17.1	KEY PLAYERS	221
17.1.1	RTX	221
17.1.1.1	Business overview	221
17.1.1.2	Products/Solutions/Services offered	222
17.1.1.3	Recent developments	223
17.1.1.3.1	Other developments	223
17.1.1.4	MnM view	225
17.1.1.4.1	Right to win	225
17.1.1.4.2	Strategic choices	225
17.1.1.4.3	Weaknesses and competitive threats	225
17.1.2	LOCKHEED MARTIN CORPORATION	226
17.1.2.1	Business overview	226
17.1.2.2	Products/Solutions/Services offered	227
17.1.2.3	Recent developments	228
17.1.2.3.1	Product launches	228
17.1.2.3.2	Deals	229
17.1.2.3.3	Other developments	229
17.1.2.4	MnM view	230
17.1.2.4.1	Right to win	230
17.1.2.4.2	Strategic choices	230
17.1.2.4.3	Weaknesses and competitive threats	230
17.1.3	L3HARRIS TECHNOLOGIES, INC.	231
17.1.3.1	Business overview	231
17.1.3.2	Products/Solutions/Services offered	232
17.1.3.3	Recent developments	233
17.1.3.3.1	Deals	233
17.1.3.3.2	Other developments	234
17.1.3.4	MnM view	234
17.1.3.4.1	Right to win	234
17.1.3.4.2	Strategic choices	234

17.1.3.4.3	Weaknesses & competitive threats	234
?		
17.1.4	THALES	235
17.1.4.1	Business overview	235
17.1.4.2	Products/Solutions/Services offered	236
17.1.4.3	Recent developments	237
17.1.4.3.1	Product launches	237
17.1.4.3.2	Other developments	238
17.1.4.4	MnM view	239
17.1.4.4.1	Right to win	239
17.1.4.4.2	Strategic choices	239
17.1.4.4.3	Weaknesses and competitive threats	239
17.1.5	ISRAEL AEROSPACE INDUSTRIES	240
17.1.5.1	Business overview	240
17.1.5.2	Products/Solutions/Services offered	241
17.1.5.3	Recent developments	242
17.1.5.3.1	Product launches	242
17.1.5.3.2	Deals	242
17.1.5.3.3	Other developments	243
17.1.5.4	MnM view	243
17.1.5.4.1	Right to win	243
17.1.5.4.2	Strategic choices	243
17.1.5.4.3	Weaknesses and competitive threats	243
17.1.6	LEONARDO S.P.A.	244
17.1.6.1	Business overview	244
17.1.6.2	Products/Solutions/Services offered	245
17.1.6.3	Recent developments	247
17.1.6.3.1	Deals	247
17.1.6.3.2	Other developments	247
17.1.7	BAE SYSTEMS	249
17.1.7.1	Business overview	249
17.1.7.2	Products/Solutions/Services offered	250
17.1.7.3	Recent developments	251
17.1.7.3.1	Product launches	251
17.1.7.3.2	Deals	252
17.1.7.3.3	Other developments	252
17.1.8	NORTHROP GRUMMAN	253
17.1.8.1	Business overview	253
17.1.8.2	Products/Solutions/Services offered	254
17.1.8.3	Recent developments	255
17.1.8.3.1	Product launches	255
17.1.8.3.2	Other developments	255
?		
17.1.9	ELBIT SYSTEMS LTD.	256
17.1.9.1	Business overview	256
17.1.9.2	Products/Solutions/Services offered	257
17.1.9.3	Recent developments	258

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 17.1.9.3.1□Product launches□258
- 17.1.9.3.2□Deals□259
- 17.1.9.3.3□Other developments□259
- 17.1.10□BHARAT ELECTRONICS LIMITED□260
- 17.1.10.1□Business overview□260
- 17.1.10.2□Products/Solutions/Services offered□261
- 17.1.10.3□Recent developments□263
- 17.1.10.3.1□Product launches□263
- 17.1.10.3.2□Other developments□263
- 17.1.11□INDRA□264
- 17.1.11.1□Business overview□264
- 17.1.11.2□Products/Solutions/Services offered□265
- 17.1.11.3□Recent developments□265
- 17.1.11.3.1□Product launches□265
- 17.1.11.3.2□Deals□266
- 17.1.11.3.3□Other developments□266
- 17.1.12□ASELSAN A.S.□267
- 17.1.12.1□Business overview□267
- 17.1.12.2□Products/Solutions/Services offered□268
- 17.1.12.3□Recent developments□270
- 17.1.12.3.1□Product launches□270
- 17.1.12.3.2□Deals□270
- 17.1.12.3.3□Other developments□270
- 17.1.13□SAAB□271
- 17.1.13.1□Business overview□271
- 17.1.13.2□Products/Solutions/Services offered□272
- 17.1.13.3□Recent developments□273
- 17.1.13.3.1□Other developments□273
- 17.1.14□TELEDYNE FLIR LLC□274
- 17.1.14.1□Business overview□274
- 17.1.14.2□Products/Solutions/Services offered□274
- 17.1.14.3□Recent developments□276
- 17.1.14.3.1□Product launches□276
- 17.1.14.3.2□Deals□276
- ?
- 17.1.15□HENSOLDT□277
- 17.1.15.1□Business overview□277
- 17.1.15.2□Products/Solutions/Services offered□277
- 17.1.15.3□Recent developments□278
- 17.1.15.3.1□Product launches□278
- 17.1.15.3.2□Other developments□279
- 17.2□OTHER PLAYERS□280
- 17.2.1□BLIGHTER SURVEILLANCE SYSTEMS LIMITED□280
- 17.2.2□DETECT, INC.□281
- 17.2.3□TERMA□282
- 17.2.4□ACCIPITER RADAR□283
- 17.2.5□PIERSIGHT□283

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

17.2.6	REUTECH RADAR SYSTEMS	284
17.2.7	SRC INC.	284
17.2.8	EASAT RADAR SYSTEMS LIMITED	285
17.2.9	ECHODYNE CORP.	286
17.2.10	MAGOS SYSTEMS	287
18	APPENDIX	288
18.1	DISCUSSION GUIDE	288
18.2	ANNEXURE A: DEFENSE PROGRAM MAPPING	291
18.3	ANNEXURE B: OTHER MAPPED COMPANIES	294
18.4	KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL	296
18.5	CUSTOMIZATION OPTIONS	298
18.6	RELATED REPORTS	298
18.7	AUTHOR DETAILS	299

Surface Radars Market by Platform (Critical Infrastructure, Vehicle-Mounted, Shipborne, Unmanned Surface Vehicles), Application (Surveillance, Air-Defense, Perimeter Security, Battlefield ISR), Frequency Band, Dimension - Global Forecast to 2029

Market Report | 2024-10-28 | 300 pages | MarketsandMarkets

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User	\$4950.00
	Multi User	\$6650.00
	Corporate License	\$8150.00
	Enterprise Site License	\$10000.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Zip Code*

Country*

Date

Signature