

Optical Satellite Market by Size (Small, Medium, Large), Application (Earth Observation, Communication), Operational Orbit, Component, End User and Region (North America, Europe, Asia Pacific, Rest of the world) - Global Forecast to 2028

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Report description:

The optical satellite market is valued at USD 2.0 billion in 2023 and is projected to reach USD 4.1 billion by 2028, at a CAGR of 15.1% from 2023 to 2028. Over the last few decades, the optical satellite industry has continued to evolve with expanding use cases, better cost efficiencies, and a more significant impact of new technological developments in the satellites. The optical satellite market is experiencing growth driven by increasing communication and demand for high-resolution earth observation and imaging capabilities across multiple sectors, including agriculture, forestry, urban planning, disaster management, and defense. Technological advancements, particularly in cost-effective, compact satellite platforms, are improving market accessibility. Growing involvement of commercial space enterprises and government investments in space infrastructure are stimulating competition and innovation.

Based on application, the earth observation segment is estimated to have the second largest market share in 2023.

The earth observation segment in the optical satellite market is being driven by evolving global security dynamics. The Earth observation segment in the optical satellite market is being propelled by increasing demand for high-precision geospatial data across sectors like agriculture, urban planning, and environmental monitoring. Technological advancements, particularly in cost-effective small satellite platforms, are expanding market accessibility. Growing environmental concerns, along with government and commercial investments in space infrastructure, underscore the need for optical satellites in monitoring and addressing environmental challenges. This competitive landscape is driving innovation and enhancing the market's overall growth prospects.

Based on size, the small segment is estimated to have the second largest market share in 2023.

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The small segment within the optical satellite market is being driven by cost-efficiency and versatility. The advancements in miniaturization and cost-effective satellite technology have lowered entry barriers, fostering heightened competition. The escalating demand for precise Earth observation and imaging services in sectors such as agriculture, logistics, and environmental monitoring is bolstering the requirement for compact, agile satellites capable of delivering targeted data. This competitive landscape is propelling growth in the small satellite segment.

Based on regions, the Asia Pacific region is estimated to have the second largest market share in 2023.

The Asia Pacific region is witnessing robust growth in the optical satellite market driven by key business factors. The region's thriving economies are generating increased demand for high-resolution Earth observation and imaging services across various industries. Governments in the region are making substantial investments in space infrastructure and satellite technology, which is accelerating the development and deployment of optical satellites. Additionally, the presence of a rapidly expanding commercial space sector, particularly in countries like Japan and China, is intensifying competition and driving innovation, contributing to market expansion.

The break-up of the profile of primary participants in the optical satellite market:

- By Company Type: Tier 1 - 35%, Tier 2 - 45%, and Tier 3 - 20%
- By Designation: C Level - 40%, Director Level - 25%, and Others - 35%
- By Region: North America - 40%, Europe - 25%, Asia Pacific - 25%, Rest of the World (RoW) - 10%

Major companies profiled in the report include SpaceX (US), Lockheed Martin Corporation (US), Ball Corporation (US), Airbus Defense & Space (Germany), and L3Harris Technologies, Inc. (US), among others.

Research Coverage:

This market study covers the optical satellite market across various segments and subsegments. It aims to estimate this market's size and growth potential across different parts based on size, operational orbits, application, component, end user, and region. This study also includes an in-depth competitive analysis of the key players in the market, their company profiles, key observations related to their product and business offerings, recent developments, and key market strategies they adopted.

Reasons to buy this report:

The report will help the market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall optical satellite market. This report 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 also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities. The optical satellite market is experiencing substantial growth, primarily driven by the exchange of real-time information. The increasing trend toward international cooperation and joint operations among nations is fostering demand for optical satellites, contributing to regional and global stability. The report provides insights on the following pointers:

- Market Drivers: Market Drivers such as the need for Earth observation imagery and analytics, Technological advancements in optical satellite communication, and other drivers covered in the report.
- Market Penetration: Comprehensive information on optical satellite offered by the top players in the market
- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the optical satellite market
- Market Development: Comprehensive information about lucrative markets - the report analyses the optical satellite market across varied regions.

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-□Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the optical satellite market

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, products, and manufacturing capabilities of leading players in the optical satellite 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□MARKETS COVERED□	30
FIGURE 1□OPTICAL SATELLITE MARKET SEGMENTATION□	30
1.3.2□REGIONS COVERED□	30
1.3.3□YEARS CONSIDERED□	31
1.4□INCLUSIONS AND EXCLUSIONS□	31
TABLE 1□INCLUSIONS AND EXCLUSIONS□	31
1.5□CURRENCY CONSIDERED□	32
TABLE 2□USD EXCHANGE RATES□	32
1.6□STAKEHOLDERS□	32
2□RESEARCH METHODOLOGY□	33
2.1□RESEARCH DATA□	33
FIGURE 2□RESEARCH PROCESS FLOW□	33
FIGURE 3□RESEARCH DESIGN□	34
2.1.1□SECONDARY DATA□	34
2.1.1.1□Secondary sources□	35
2.1.2□PRIMARY DATA□	35
2.1.2.1□Primary sources□	35
2.1.2.2□Key data from primary sources□	36
FIGURE 4□BREAKDOWN OF PRIMARY INTERVIEWS□	36
2.2□FACTOR ANALYSIS□	37
2.2.1□INTRODUCTION□	37
2.2.2□DEMAND-SIDE INDICATORS□	37
2.2.3□SUPPLY-SIDE INDICATORS□	37
2.2.4□RECESSION IMPACT□	38
2.3□MARKET SIZE ESTIMATION□	38
2.3.1□BOTTOM-UP APPROACH□	38
2.3.1.1□Market size estimation and methodology□	38
FIGURE 5□BOTTOM-UP APPROACH□	39
2.3.2□TOP-DOWN APPROACH□	39
FIGURE 6□TOP-DOWN APPROACH□	39
2.4□DATA TRIANGULATION□	40
FIGURE 7□DATA TRIANGULATION□	40
2.5□RESEARCH ASSUMPTIONS□	41
2.6□RESEARCH LIMITATIONS□	41
2.7□RISK ASSESSMENT□	42
3□EXECUTIVE SUMMARY□	43

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FIGURE 8	COMMUNICATION SEGMENT TO HOLD LARGEST MARKET SHARE IN 2023	43
FIGURE 9	LARGE SATELLITES TO SECURE LEADING MARKET POSITION IN 2028	44
FIGURE 10	COMMERCIAL TO SURPASS OTHER SEGMENTS DURING FORECAST PERIOD	44
FIGURE 11	MEO/GEO SEGMENT TO ACCOUNT FOR LARGER MARKET SHARE IN 2023	45
FIGURE 12	EUROPE TO RECORD HIGHEST CAGR DURING FORECAST PERIOD	45
4	PREMIUM INSIGHTS	47
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN OPTICAL SATELLITE MARKET	47
FIGURE 13	INCREASE IN DEMAND FOR EARTH MONITORING AND REAL-TIME INFORMATION	47
4.2	OPTICAL SATELLITE MARKET, BY END USER	47
FIGURE 14	COMMERCIAL SEGMENT TO ACQUIRE MAXIMUM MARKET SHARE IN 2023	47
4.3	OPTICAL SATELLITE MARKET, BY APPLICATION	48
FIGURE 15	COMMUNICATION TO BE LARGEST SEGMENT DURING FORECAST PERIOD	48
4.4	OPTICAL SATELLITE MARKET, BY COUNTRY	48
FIGURE 16	RUSSIA TO BE FASTEST-GROWING COUNTRY DURING FORECAST PERIOD	48
5	MARKET OVERVIEW	49
5.1	INTRODUCTION	49
5.2	MARKET DYNAMICS	50
FIGURE 17	OPTICAL SATELLITE MARKET DYNAMICS	50
5.2.1	DRIVERS	50
5.2.1.1	Technological advancements in optical satellite communication	50
5.2.1.2	Growing demand for multimedia services	51
5.2.1.3	Booming cloud computing market	51
5.2.1.4	Rapid development of new satellite constellations	51
5.2.1.5	Need for Earth observation imagery and analytics	52
5.2.2	RESTRAINTS	52
5.2.2.1	High development cost of optical satellite systems	52
5.2.2.2	Lack of standardized communication protocols	52
5.2.3	OPPORTUNITIES	53
5.2.3.1	Rise in adoption of cloud-based services	53
5.2.3.2	Increased government investments in space-based infrastructure and services	54
5.2.4	CHALLENGES	54
5.2.4.1	Implications of cloud cover	54
5.2.4.2	Operational limitations associated with harsh and remote environments	55
5.3	RECESSION IMPACT ANALYSIS	55
FIGURE 18	RECESSION IMPACT ANALYSIS	55
5.4	PORTER'S FIVE FORCES ANALYSIS	56
FIGURE 19	PORTER'S FIVE FORCES ANALYSIS	56
TABLE 3	IMPACT OF PORTER'S FIVE FORCES	56
5.4.1	THREAT OF NEW ENTRANTS	57
5.4.2	THREAT OF SUBSTITUTES	57
5.4.3	BARGAINING POWER OF SUPPLIERS	57
5.4.4	BARGAINING POWER OF BUYERS	57
5.4.5	INTENSITY OF COMPETITIVE RIVALRY	57
5.5	VALUE CHAIN ANALYSIS	58
FIGURE 20	VALUE CHAIN ANALYSIS	58
5.6	ECOSYSTEM MAPPING	59
FIGURE 21	ECOSYSTEM MAPPING	60

TABLE 4	ROLE OF COMPANIES IN ECOSYSTEM	60
5.7	TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES	61
FIGURE 22	TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES	61
5.8	USE CASE ANALYSIS	62
5.8.1	OPTICAL INTER-SATELLITE DATA RELAY SERVICE	62
5.8.2	OPTICAL INTER-SATELLITE COMMUNICATION	62
5.9	TRADE DATA ANALYSIS	63
TABLE 5	COUNTRY-WISE IMPORT DATA, 2019-2022	63
TABLE 6	COUNTRY-WISE EXPORT DATA, 2019-2022	63
5.10	REGULATORY LANDSCAPE	64
TABLE 7	NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	64
TABLE 8	EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	64
TABLE 9	ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	65
TABLE 10	REST OF THE WORLD: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	66
5.11	OPERATIONAL DATA	66
TABLE 11	OPTICAL SATELLITE LAUNCHES, BY APPLICATION, 2021-2023 (UNITS)	66
5.12	PRICING ANALYSIS	67
TABLE 12	AVERAGE SELLING PRICE OF OPTICAL SATELLITES, BY COMMUNICATION APPLICATION (USD MILLION)	67
TABLE 13	AVERAGE SELLING PRICE OF OPTICAL SATELLITES, BY EARTH OBSERVATION APPLICATION (USD MILLION)	67
5.13	KEY STAKEHOLDERS AND BUYING CRITERIA	67
5.13.1	KEY STAKEHOLDERS IN BUYING PROCESS	67
FIGURE 23	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS OF OPTICAL SATELLITES, BY APPLICATION	67
TABLE 14	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS OF OPTICAL SATELLITES, BY APPLICATION (%)	68
5.13.2	BUYING CRITERIA	68
FIGURE 24	KEY BUYING CRITERIA FOR OPTICAL SATELLITES, BY END USER	68
TABLE 15	KEY BUYING CRITERIA FOR OPTICAL SATELLITES, BY END USER	68
5.14	KEY CONFERENCES AND EVENTS, 2023-2024	69
TABLE 16	KEY CONFERENCES AND EVENTS, 2023-2024	69
6	INDUSTRY TRENDS	70
6.1	INTRODUCTION	70
6.2	TECHNOLOGY TRENDS	70
6.2.1	INTEGRATION OF ADVANCED TECHNOLOGIES	70
6.2.2	LASER COMMUNICATION RELAY SYSTEMS	70
6.2.3	CLOUD COMPUTING	71
6.2.4	5G	71
6.2.5	ATP TECHNOLOGY	71
6.3	IMPACT OF MEGATRENDS	72
6.3.1	SATELLITE INTERNET OF THINGS	72
6.3.2	SATCOM-ON-THE-MOVE	72
6.3.3	INTELLIGENT OPTICAL SATELLITE COMMUNICATION	72
6.3.4	HYBRID SATELLITE-TERRESTRIAL RELAY NETWORK	73
6.4	SUPPLY CHAIN ANALYSIS	73
FIGURE 25	SUPPLY CHAIN ANALYSIS	74
6.5	INNOVATIONS AND PATENT REGISTRATIONS	75
FIGURE 26	TOP PATENT OWNERS	75
TABLE 17	KEY PATENTS	76
6.6	TECHNOLOGICAL ROADMAP TO OPTICAL SATELLITE MARKET	77

FIGURE 27 OPTICAL SATELLITES 77

7 OPTICAL SATELLITE MARKET, BY SIZE 78

7.1 INTRODUCTION 79

FIGURE 28 OPTICAL SATELLITE MARKET, BY SIZE, 2023-2028 79

TABLE 18 OPTICAL SATELLITE MARKET, BY SIZE, 2020-2022 (USD MILLION) 79

TABLE 19 OPTICAL SATELLITE MARKET, BY SIZE, 2023-2028 (USD MILLION) 79

7.2 SMALL 80

7.2.1 COST-EFFECTIVENESS AND ACCESSIBILITY TO DRIVE GROWTH 80

7.3 MEDIUM 80

7.3.1 RAPID ADVANCEMENTS IN TECHNOLOGY TO DRIVE GROWTH 80

7.4 LARGE 81

7.4.1 RISING DEMAND FOR ADVANCED IMAGING CAPABILITIES TO DRIVE GROWTH 81

8 OPTICAL SATELLITE MARKET, BY APPLICATION 82

8.1 INTRODUCTION 83

FIGURE 29 OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 83

TABLE 20 OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION) 83

TABLE 21 OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 83

8.2 COMMUNICATION 84

8.2.1 INCREASING POPULARITY OF STREAMING MEDIA TO DRIVE GROWTH 84

8.2.2 SATELLITE-TO-SATELLITE 84

8.2.3 SATELLITE-TO-GROUND 84

8.3 EARTH OBSERVATION 85

8.3.1 BOOST IN ENVIRONMENTAL MONITORING AND URBAN PLANNING TO DRIVE GROWTH 85

8.3.2 SURVEILLANCE AND MONITORING 85

8.3.3 SCIENTIFIC RESEARCH 85

8.3.4 WEATHER MONITORING 86

8.3.5 DISASTER MANAGEMENT 86

8.3.6 EARLY WARNING SYSTEMS 86

8.3.7 OTHER IMAGING AND VIDEO OPERATIONS 86

9 OPTICAL SATELLITE MARKET, BY OPERATIONAL ORBIT 87

9.1 INTRODUCTION 88

FIGURE 30 OPTICAL SATELLITE MARKET, BY OPERATIONAL ORBIT, 2023-2028 88

TABLE 22 OPTICAL SATELLITE MARKET, BY OPERATIONAL ORBIT, 2020-2022 (USD MILLION) 88

TABLE 23 OPTICAL SATELLITE MARKET, BY OPERATIONAL ORBIT, 2023-2028 (USD MILLION) 88

9.2 LEO 89

9.2.1 NEED FOR INSTANT CONNECTIVITY AND LOW-LATENCY COVERAGE TO DRIVE GROWTH 89

9.3 MEO/GEO 89

9.3.1 RISING PREFERENCE FOR HIGH-SPEED DATA TRANSMISSION TO DRIVE GROWTH 89

10 OPTICAL SATELLITE MARKET, BY END USER 90

10.1 INTRODUCTION 91

FIGURE 31 OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 91

TABLE 24 OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION) 91

TABLE 25 OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION) 91

10.2 GOVERNMENT 92

10.2.1 SURGE IN NATIONAL SECURITY CONCERNS TO DRIVE GROWTH 92

10.3 COMMERCIAL 92

10.3.1 COMMERCIALIZATION OF OPTICAL SATELLITES TO DRIVE GROWTH 92

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10.4	DEFENSE	93
10.4.1	ESCALATING DEMAND FOR REAL-TIME DATA AND IMAGING TO DRIVE GROWTH	93
11	OPTICAL SATELLITE MARKET, BY COMPONENT	94
11.1	INTRODUCTION	94
11.2	IMAGING AND SENSING SYSTEMS	94
11.2.1	VISIBLE SPECTRUM AND PANCHROMATIC	94
11.2.2	ULTRAVIOLET AND INFRARED	94
11.2.3	LASER-BASED	94
11.3	OPTICAL COMMUNICATION SYSTEMS	95
11.3.1	SATELLITE-TO-SATELLITE COMMUNICATION	95
11.3.2	SATELLITE-TO-GROUND COMMUNICATION	95
12	OPTICAL SATELLITE MARKET, BY REGION	96
12.1	INTRODUCTION	97
FIGURE 32	OPTICAL SATELLITE MARKET, BY REGION, 2023-2028	97
12.2	REGIONAL RECESSION IMPACT ANALYSIS	97
TABLE 26	REGIONAL RECESSION IMPACT ANALYSIS	98
TABLE 27	OPTICAL SATELLITE MARKET, BY REGION, 2020-2022 (USD MILLION)	98
TABLE 28	OPTICAL SATELLITE MARKET, BY REGION, 2023-2030 (USD MILLION)	99
12.3	NORTH AMERICA	99
12.3.1	PESTLE ANALYSIS	99
12.3.2	RECESSION IMPACT ANALYSIS	100
FIGURE 33	NORTH AMERICA: OPTICAL SATELLITE MARKET SNAPSHOT	101
TABLE 29	NORTH AMERICA: OPTICAL SATELLITE MARKET, BY COUNTRY, 2020-2022 (USD MILLION)	101
TABLE 30	NORTH AMERICA: OPTICAL SATELLITE MARKET, BY COUNTRY, 2023-2028 (USD MILLION)	102
TABLE 31	NORTH AMERICA: OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION)	102
TABLE 32	NORTH AMERICA: OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	102
TABLE 33	NORTH AMERICA: OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION)	102
TABLE 34	NORTH AMERICA: OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION)	103
12.3.3	US	103
12.3.3.1	Increasing influx of small satellite launches to drive growth	103
TABLE 35	US: OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION)	103
TABLE 36	US: OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	103
TABLE 37	US: OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION)	104
TABLE 38	US: OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION)	104
12.3.4	CANADA	104
12.3.4.1	Rising deployment of optical satellites to drive growth	104
TABLE 39	CANADA: OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION)	104
TABLE 40	CANADA: OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	105
TABLE 41	CANADA: OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION)	105
TABLE 42	CANADA: OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION)	105
12.4	EUROPE	106
12.4.1	PESTLE ANALYSIS	106
12.4.2	RECESSION IMPACT ANALYSIS	107
FIGURE 34	EUROPE: OPTICAL SATELLITE MARKET SNAPSHOT	108
TABLE 43	EUROPE: OPTICAL SATELLITE MARKET, BY COUNTRY, 2020-2022 (USD MILLION)	109
TABLE 44	EUROPE: OPTICAL SATELLITE MARKET, BY COUNTRY, 2023-2028 (USD MILLION)	109
TABLE 45	EUROPE: OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION)	109

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TABLE 46	EUROPE: OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	109
TABLE 47	EUROPE: OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION)	110
TABLE 48	EUROPE: OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION)	110
12.4.3	UK	110
12.4.3.1	Increasing demand for high-speed data transmission to drive growth	110
TABLE 49	UK: OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION)	110
TABLE 50	UK: OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	111
TABLE 51	UK: OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION)	111
TABLE 52	UK: OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION)	111
12.4.4	FRANCE	111
12.4.4.1	New satellite launches by domestic space companies to drive growth	111
TABLE 53	FRANCE: OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION)	112
TABLE 54	FRANCE: OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	112
TABLE 55	FRANCE: OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION)	112
TABLE 56	FRANCE: OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION)	112
12.4.5	GERMANY	113
12.4.5.1	Boost in government investments to drive growth	113
TABLE 57	GERMANY: OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION)	113
TABLE 58	GERMANY: OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	113
TABLE 59	GERMANY: OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION)	113
TABLE 60	GERMANY: OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION)	114
12.4.6	ITALY	114
12.4.6.1	Innovations in satellite technologies to drive growth	114
TABLE 61	ITALY: OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION)	114
TABLE 62	ITALY: OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	114
TABLE 63	ITALY: OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION)	115
TABLE 64	ITALY: OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION)	115
12.4.7	RUSSIA	115
12.4.7.1	Rising development of domestic space systems to drive growth	115
TABLE 65	RUSSIA: OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION)	115
TABLE 66	RUSSIA: OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	116
TABLE 67	RUSSIA: OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION)	116
TABLE 68	RUSSIA: OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION)	116
12.4.8	REST OF EUROPE	116
TABLE 69	REST OF EUROPE: OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION)	116
TABLE 70	REST OF EUROPE: OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	117
TABLE 71	REST OF EUROPE: OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION)	117
TABLE 72	REST OF EUROPE: OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION)	117
12.5	ASIA PACIFIC	118
12.5.1	PESTLE ANALYSIS	118
12.5.2	RECESSION IMPACT ANALYSIS	119
FIGURE 35	ASIA PACIFIC: OPTICAL SATELLITE MARKET SNAPSHOT	120
TABLE 73	ASIA PACIFIC: OPTICAL SATELLITE MARKET, BY COUNTRY, 2020-2022 (USD MILLION)	120
TABLE 74	ASIA PACIFIC: OPTICAL SATELLITE MARKET, BY COUNTRY, 2023-2028 (USD MILLION)	121
TABLE 75	ASIA PACIFIC: OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION)	121
TABLE 76	ASIA PACIFIC: OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	121
TABLE 77	ASIA PACIFIC: OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION)	121

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TABLE 78 ASIA PACIFIC: OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION) 122

12.5.3 CHINA 122

12.5.3.1 Rapid development of new satellites to drive growth 122

TABLE 79 CHINA: OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION) 122

TABLE 80 CHINA: OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 122

TABLE 81 CHINA: OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION) 123

TABLE 82 CHINA: OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION) 123

12.5.4 JAPAN 123

12.5.4.1 Rise in launch of optical satellites to drive growth 123

TABLE 83 JAPAN: OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION) 123

TABLE 84 JAPAN: OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 124

TABLE 85 JAPAN: OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION) 124

TABLE 86 JAPAN: OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION) 124

12.5.5 INDIA 124

12.5.5.1 Domestic emphasis on space-based Earth observation to drive growth 124

TABLE 87 INDIA: OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION) 125

TABLE 88 INDIA: OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 125

TABLE 89 INDIA: OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION) 125

TABLE 90 INDIA: OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION) 125

12.5.6 SOUTH KOREA 126

12.5.6.1 Presence of key space technology companies to drive growth 126

TABLE 91 SOUTH KOREA: OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION) 126

TABLE 92 SOUTH KOREA: OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 126

TABLE 93 SOUTH KOREA: OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION) 126

TABLE 94 SOUTH KOREA: OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION) 127

12.5.7 REST OF ASIA PACIFIC 127

TABLE 95 REST OF ASIA PACIFIC: OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION) 127

TABLE 96 REST OF ASIA PACIFIC: OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 127

TABLE 97 REST OF ASIA PACIFIC: OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION) 128

TABLE 98 REST OF ASIA PACIFIC: OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION) 128

12.6 REST OF THE WORLD 129

FIGURE 36 REST OF THE WORLD: OPTICAL SATELLITE MARKET SNAPSHOT 129

12.6.1 PESTLE ANALYSIS 130

12.6.2 RECESSION IMPACT ANALYSIS 131

TABLE 99 REST OF THE WORLD: OPTICAL SATELLITE MARKET, BY REGION 2020-2022 (USD MILLION) 131

TABLE 100 REST OF THE WORLD: OPTICAL SATELLITE MARKET, BY REGION, 2023-2028 (USD MILLION) 131

TABLE 101 REST OF THE WORLD: OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION) 132

TABLE 102 REST OF THE WORLD: OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 132

TABLE 103 REST OF THE WORLD: OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION) 132

TABLE 104 REST OF THE WORLD: OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION) 132

12.6.3 MIDDLE EAST & AFRICA 133

12.6.3.1 Rising demand for high-definition video streaming and cloud computing applications to drive growth 133

TABLE 105 MIDDLE EAST & AFRICA: OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION) 133

TABLE 106 MIDDLE EAST & AFRICA: OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 133

TABLE 107 MIDDLE EAST & AFRICA: OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION) 133

TABLE 108 MIDDLE EAST & AFRICA: OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION) 134

12.6.4 LATIN AMERICA 134

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12.6.4.1	Increasing focus on space development to drive growth	134
TABLE 109	LATIN AMERICA: OPTICAL SATELLITE MARKET, BY APPLICATION, 2020-2022 (USD MILLION)	134
TABLE 110	LATIN AMERICA: OPTICAL SATELLITE MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	134
TABLE 111	LATIN AMERICA: OPTICAL SATELLITE MARKET, BY END USER, 2020-2022 (USD MILLION)	135
TABLE 112	LATIN AMERICA: OPTICAL SATELLITE MARKET, BY END USER, 2023-2028 (USD MILLION)	135
13	COMPETITIVE LANDSCAPE	136
13.1	INTRODUCTION	136
TABLE 113	STRATEGIES ADOPTED BY KEY PLAYERS IN OPTICAL SATELLITE MARKET	136
13.2	MARKET RANKING ANALYSIS, 2022	139
FIGURE 37	MARKET RANKING OF TOP FIVE PLAYERS, 2022	139
13.3	COMPANY EVALUATION MATRIX, 2022	140
13.3.1	STARS	140
13.3.2	EMERGING LEADERS	140
13.3.3	PERVASIVE PLAYERS	140
13.3.4	PARTICIPANTS	140
FIGURE 38	COMPANY EVALUATION MATRIX, 2022	141
13.3.5	COMPANY FOOTPRINT	142
TABLE 114	COMPANY FOOTPRINT	142
TABLE 115	APPLICATION FOOTPRINT	142
TABLE 116	REGION FOOTPRINT	143
13.4	START-UP/SME EVALUATION MATRIX, 2022	144
13.4.1	PROGRESSIVE COMPANIES	144
13.4.2	RESPONSIVE COMPANIES	144
13.4.3	DYNAMIC COMPANIES	144
13.4.4	STARTING BLOCKS	144
FIGURE 39	START-UP/SME EVALUATION MATRIX, 2022	145
TABLE 117	OPTICAL SATELLITE MARKET: KEY START-UPS/SMES	146
13.4.5	COMPETITIVE BENCHMARKING	146
TABLE 118	COMPETITIVE BENCHMARKING OF KEY START-UPS/SMES	146
13.5	COMPETITIVE SCENARIO	147
13.5.1	PRODUCT LAUNCHES	147
TABLE 119	PRODUCT LAUNCHES, 2020-2023	147
13.5.2	DEALS	148
TABLE 120	DEALS, 2020-2023	148
14	COMPANY PROFILES	161
14.1	KEY PLAYERS	161
(Business Overview, Products/Services/Solutions Offered, MnM View, Key Strengths and Right to Win, Strategic Choices Made, Weaknesses and Competitive Threats, Recent Developments)*		
14.1.1	BALL CORPORATION	161
TABLE 121	BALL CORPORATION: COMPANY OVERVIEW	161
FIGURE 40	BALL CORPORATION: COMPANY SNAPSHOT	162
TABLE 122	BALL CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED	162
TABLE 123	BALL CORPORATION: DEALS	163
14.1.2	LOCKHEED MARTIN CORPORATION	165
TABLE 124	LOCKHEED MARTIN CORPORATION: COMPANY OVERVIEW	165
FIGURE 41	LOCKHEED MARTIN CORPORATION: COMPANY SNAPSHOT	166
TABLE 125	LOCKHEED MARTIN CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED	166

TABLE 126	LOCKHEED MARTIN CORPORATION: DEALS	167
14.1.3	SPACEX	169
TABLE 127	SPACEX: COMPANY OVERVIEW	169
TABLE 128	SPACEX: PRODUCTS/SOLUTIONS/SERVICES OFFERED	169
TABLE 129	SPACEX: DEALS	170
14.1.4	L3HARRIS TECHNOLOGIES, INC.	172
TABLE 130	L3HARRIS TECHNOLOGIES, INC.: COMPANY OVERVIEW	172
FIGURE 42	L3HARRIS TECHNOLOGIES, INC.: COMPANY SNAPSHOT	173
TABLE 131	L3HARRIS TECHNOLOGIES, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED	173
TABLE 132	L3HARRIS TECHNOLOGIES, INC.: DEALS	174
TABLE 133	L3HARRIS TECHNOLOGIES, INC.: OTHERS	175
14.1.5	AIRBUS DEFENCE AND SPACE	176
TABLE 134	AIRBUS DEFENCE AND SPACE: COMPANY OVERVIEW	176
FIGURE 43	AIRBUS DEFENCE AND SPACE: COMPANY SNAPSHOT	177
TABLE 135	AIRBUS DEFENCE AND SPACE: PRODUCTS/SOLUTIONS/SERVICES OFFERED	177
TABLE 136	AIRBUS DEFENCE AND SPACE: DEALS	178
14.1.6	mitsubishi electric corporation	180
TABLE 137	mitsubishi electric corporation: COMPANY OVERVIEW	180
FIGURE 44	mitsubishi electric corporation: COMPANY SNAPSHOT	181
TABLE 138	mitsubishi electric corporation: PRODUCTS/SOLUTIONS/SERVICES OFFERED	181
TABLE 139	mitsubishi electric corporation: PRODUCT LAUNCHES	182
14.1.7	AAC CLYDE SPACE	183
TABLE 140	AAC CLYDE SPACE: COMPANY OVERVIEW	183
FIGURE 45	AAC CLYDE SPACE: COMPANY SNAPSHOT	183
TABLE 141	AAC CLYDE SPACE: PRODUCTS/SOLUTIONS/SERVICES OFFERED	184
TABLE 142	AAC CLYDE SPACE: PRODUCT LAUNCHES	184
TABLE 143	AAC CLYDE SPACE: DEALS	185
14.1.8	honeywell international inc.	186
TABLE 144	honeywell international inc.: COMPANY OVERVIEW	186
FIGURE 46	honeywell international inc.: COMPANY SNAPSHOT	187
TABLE 145	honeywell international inc.: PRODUCTS/SOLUTIONS/SERVICES OFFERED	187
TABLE 146	honeywell international inc: DEALS	188
14.1.9	THALES GROUP	190
TABLE 147	THALES GROUP: COMPANY OVERVIEW	190
FIGURE 47	THALES GROUP: COMPANY SNAPSHOT	191
TABLE 148	THALES GROUP: PRODUCTS/SOLUTIONS/SERVICES OFFERED	191
TABLE 149	THALES GROUP: DEALS	192
14.1.10	PLANET LABS PBC	193
TABLE 150	PLANET LABS PBC: COMPANY OVERVIEW	193
FIGURE 48	PLANET LABS PBC: COMPANY SNAPSHOT	193
TABLE 151	PLANET LABS PBC: PRODUCTS/SOLUTIONS/SERVICES OFFERED	194
TABLE 152	PLANET LABS PBC: PRODUCT LAUNCHES	194
TABLE 153	PLANET LABS PBC: DEALS	195
14.1.11	RAYTHEON TECHNOLOGIES CORPORATION	197
TABLE 154	RAYTHEON TECHNOLOGIES CORPORATION: COMPANY OVERVIEW	197
FIGURE 49	RAYTHEON TECHNOLOGIES CORPORATION: COMPANY SNAPSHOT	198
TABLE 155	RAYTHEON TECHNOLOGIES CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED	198

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TABLE 156	RAYTHEON TECHNOLOGIES CORPORATION: DEALS	199
14.1.12	MAXAR TECHNOLOGIES	200
TABLE 157	MAXAR TECHNOLOGIES: COMPANY OVERVIEW	200
FIGURE 50	MAXAR TECHNOLOGIES: COMPANY SNAPSHOT	201
TABLE 158	MAXAR TECHNOLOGIES: PRODUCTS/SOLUTIONS/SERVICES OFFERED	201
14.1.13	BAE SYSTEMS	202
TABLE 159	BAE SYSTEMS: COMPANY OVERVIEW	202
FIGURE 51	BAE SYSTEMS: COMPANY SNAPSHOT	203
TABLE 160	BAE SYSTEMS: PRODUCTS/SOLUTIONS/SERVICES OFFERED	203
TABLE 161	BAE SYSTEMS: DEALS	204
14.1.14	HENSOLDT	205
TABLE 162	HENSOLDT: COMPANY OVERVIEW	205
FIGURE 52	HENSOLDT: COMPANY SNAPSHOT	206
TABLE 163	HENSOLDT: PRODUCTS/SOLUTIONS/SERVICES OFFERED	206
TABLE 164	HENSOLDT: DEALS	207
14.1.15	IMAGESAT INTERNATIONAL	208
TABLE 165	IMAGESAT INTERNATIONAL: COMPANY OVERVIEW	208
FIGURE 53	IMAGESAT INTERNATIONAL: COMPANY SNAPSHOT	208
TABLE 166	IMAGESAT INTERNATIONAL: PRODUCTS/SOLUTIONS/SERVICES OFFERED	209
TABLE 167	IMAGESAT INTERNATIONAL: DEALS	209
14.1.16	OHB SE	210
TABLE 168	OHB SE: COMPANY OVERVIEW	210
FIGURE 54	OHB SE: COMPANY SNAPSHOT	210
TABLE 169	OHB SE: PRODUCTS/SOLUTIONS/SERVICES OFFERED	211
14.1.17	TERRAN ORBITAL CORPORATION	212
TABLE 170	TERRAN ORBITAL CORPORATION: COMPANY OVERVIEW	212
FIGURE 55	TERRAN ORBITAL CORPORATION: COMPANY SNAPSHOT	212
TABLE 171	TERRAN ORBITAL CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED	213
TABLE 172	TERRAN ORBITAL CORPORATION: PRODUCT LAUNCHES	213
14.1.18	SATELLOGIC	214
TABLE 173	SATELLOGIC: COMPANY OVERVIEW	214
FIGURE 56	SATELLOGIC: COMPANY SNAPSHOT	214
TABLE 174	SATELLOGIC: PRODUCTS/SOLUTIONS/SERVICES OFFERED	215
TABLE 175	SATELLOGIC: DEALS	215
*Business Overview, Products/Services/Solutions Offered, MnM View, Key Strengths and Right to Win, Strategic Choices Made, Weaknesses and Competitive Threats, Recent Developments might not be captured in case of unlisted companies.		
14.2	OTHER PLAYERS	217
14.2.1	PIXCEL	217
TABLE 176	PIXCEL: COMPANY OVERVIEW	217
14.2.2	LASER TECHNOLOGY, INC.	218
TABLE 177	LASER TECHNOLOGY, INC.: COMPANY OVERVIEW	218
14.2.3	SITAEEL S.P.A.	219
TABLE 178	SITAEEL S.P.A.: COMPANY OVERVIEW	219
14.2.4	TRANSCESTIAL	220
TABLE 179	TRANSCESTIAL: COMPANY OVERVIEW	220
14.2.5	ALEN SPACE	221
TABLE 180	ALEN SPACE: COMPANY OVERVIEW	221

14.2.6	NANOAVIONICS	222
TABLE 181	NANOAVIONICS: COMPANY OVERVIEW	222
14.2.7	WARPSPACE INC.	222
TABLE 182	WARPSPACE INC.: COMPANY OVERVIEW	222
14.2.8	GALAXEYE SPACE SOLUTIONS PVT LTD.	223
TABLE 183	GALAXEYE SPACE SOLUTIONS PVT LTD.: COMPANY OVERVIEW	223
15	APPENDIX	224
15.1	DISCUSSION GUIDE	224
15.2	KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL	227
15.3	CUSTOMIZATION OPTIONS	229
15.4	RELATED REPORTS	229
15.5	AUTHOR DETAILS	230

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