

Laser Interferometer Market by Technique (Homodyne, Heterodyne), Type (Michelson, Fabry-Perot, Fizeau, Mach-Zhender, Sagnac, Twyman-Green), Component (Laser Source, Photodetector, Optical Elements, Control System, Software) - Global Forecast to 2029

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Report description:

The global laser interferometer market is expected to be valued at USD 315 million in 2024 and is projected to reach USD 447 million by 2029 and grow at a CAGR of 7.2% from 2024 to 2029. In industries such as aerospace, automotive, and electronics, the need for exact measurements is paramount to ensure the performance, safety, and reliability of products. The trend toward miniaturization and micro/nanotechnologies and increasing complexity in electronic devices amplify the need for precise measurement tools that meet design specifications. As consumers demand miniature and more powerful electronic devices, the importance of precision in manufacturing and quality control will increase, further driving the demand for advanced measurement tools, including laser interferometers.

"Industrial by end-use industry to account highest CAGR in laser interferometer market during the forecast period."

Businesses progressively are embracing laser interferometers in fabricating forms such as semiconductor creation and automotive building. Laser interferometers offer higher precision in measuring surfaces, separations, and positions, which are vital for fabricating forms keeping up quality benchmarks and compliances. As businesses work towards higher benchmarks and least resistances, demand for advanced metrology components is anticipated to rise booting showcase development.

Michelson interferometer by type to account for second highest CAGR in laser interferometer during the forecast period Michelson interferometers are being utilized by a few businesses like aviation, defense, and investigative research facilities. They are highly regarded for measuring little relocations and separations with high accuracy, which is vital to maintaining required levels. Businesses are progressively keeping up with the high benchmarks and quality control. Metrology devices such as

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Michelson interferometers are anticipated to drive market growth.

Engineering to account for second highest market share by application in laser interferometer market

Industries like mechanical and aerospace rely on calculated measurement calibration, alignment, assemblies. With increased manufacturing and varied demands of the market, higher levels of precision are demanded, which can be catered by laser interferometers. These Laser interferometers provide relevant needed capabilities to meet their market requirements. Furthermore, increased automation in manufacturing is further set to fuel growth of laser interferometer market.

North American region growing at second highest CAGR in laser interferometer market

The laser interferometer market in North America is projected to experience second highest CAGR mainly because of substantial investments in cutting edge manufacturing technologies, particularly in aerospace, defense and automotive industries. The active involvement of technology firms and research organizations also plays a role, in promoting the use of precise metrology tools. Moreover the regions emphasis on automation and quality assurance contributes to the growing need for laser interferometers to maintain product precision and effectiveness.

The study contains various industry experts' insights, from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

- By Company Type: Tier 1 - 38%, Tier 2 - 28%, and Tier 3 - 34%

- By Designation: C-level Executives - 40%, Directors - 30%, and Others - 30%

- By Region: North America - 35%, Europe - 35%, Asia Pacific - 20%, and RoW - 10%

The key players operating in the laser interferometer market are Renishaw plc. (UK), Keysight Technologies (US), ZEISS Group (Germany), Zygo Corporation (US), and Bruker Corporation (US), and others.

Research Coverage:

The research reports the laser interferometer market has been segmented based on component type, by type, by technique, by application, by end use industry, and by region. Based on component type, the market has been segmented into lasers, photodetectors, optical elements, control systems and software. Based on type, the market has been segmented into Michelson interferometer, fabry-perot interferometer, Fizeau interferometer, mach-zehnder interferometer, sagnac interferometer, Twyman-green interferometer. Based on technique, the market has been segmented into homodyne and heterodyne. Based on application, the market has been segmented into automotive, aerospace & defense, industrial, healthcare, electronics & semiconductors, telecommunication. The market by region has been segmented into North America, Europe, Asia Pacific, and RoW.

The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the retail automation market. A detailed analysis of the key industry players has been done to provide insights into their business overviews, products, key strategies, contracts, partnerships, and agreements. New product & and service launches, mergers and acquisitions, and recent developments associated with the laser interferometer market. Competitive analysis of upcoming startups in the laser interferometer market ecosystem is covered in this report.

Key Benefits of Buying the Report

- Analysis of key drivers (Growing demand for precision in manufacturing and quality control

, Advancements in semiconductor and electronics industries Increasing adoption in aerospace and automotive sectors), restraints (High initial investment and maintenance costs, Complexity of operation requiring skilled personnel), opportunities (Expansion in emerging markets with growing industrialization, Integration with automation and Industry 4.0 technologies), and challenges (Maintaining accuracy in varying environmental conditions, Ensuring consistent calibration and alignment) influencing the growth of the laser interferometer market.

- Product Development/Innovation: Detailed insights on upcoming technologies, research and development activities, and new product launches in the laser interferometer market.

- Market Development: Comprehensive information about lucrative markets - the report analyses the laser interferometer market

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across varied regions.

-□Market Diversification: Exhaustive information about new products/services, untapped geographies, recent developments, and investments in the laser interferometer market.

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Renishaw plc. (UK), Keysight Technologies (US), ZEISS Group (Germany), Zygo Corporation (US), and Bruker Corporation (US), etc.

Table of Contents:

1□INTRODUCTION□	21
1.1□STUDY OBJECTIVES□	21
1.2□MARKET DEFINITION□	21
1.3□STUDY SCOPE□	22
1.3.1□MARKETS COVERED□	22
1.3.2□INCLUSIONS AND EXCLUSIONS□	22
1.3.3□YEARS CONSIDERED□	23
1.4□CURRENCY CONSIDERED□	24
1.5□UNIT CONSIDERED□	24
1.6□LIMITATIONS□	24
1.7□STAKEHOLDERS□	24
1.8□SUMMARY OF CHANGES□	25
1.9□RECESSION IMPACT□	25
2□RESEARCH METHODOLOGY□	26
2.1□RESEARCH DATA□	26
2.1.1□SECONDARY AND PRIMARY RESEARCH□	28
2.1.2□SECONDARY DATA□	28
2.1.2.1□Major secondary sources□	29
2.1.2.2□Key data from secondary sources□	29
2.1.3□PRIMARY DATA□	29
2.1.3.1□Intended participants in primary interviews□	29
2.1.3.2□Key primary interview participants□	30
2.1.3.3□Breakdown of primaries□	30
2.1.3.4□Key data from primary sources□	30
2.1.3.5□Key industry insights□	31
2.2□MARKET SIZE ESTIMATION METHODOLOGY□	32
2.2.1□BOTTOM-UP APPROACH□	32
2.2.1.1□Approach to arrive at market size using bottom-up analysis (demand side)□	33
2.2.2□TOP-DOWN APPROACH□	33
2.2.2.1□Approach to arrive at market size using top-down analysis (supply side)□	34
2.3□DATA TRIANGULATION□	35
2.4□RESEARCH ASSUMPTIONS□	36
2.5□RESEARCH LIMITATIONS□	36
2.6□RISK ASSESSMENT□	36
2.7□PARAMETERS CONSIDERED TO ANALYZE IMPACT OF RECESSION ON LASER INTERFEROMETER MARKET□	37
3□EXECUTIVE SUMMARY□	38

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4	PREMIUM INSIGHTS	42
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN LASER INTERFEROMETER MARKET	42
4.2	LASER INTERFEROMETER MARKET, BY APPLICATION	42
4.3	LASER INTERFEROMETER MARKET, BY VERTICAL	43
4.4	LASER INTERFEROMETER MARKET, BY TECHNIQUE	43
4.5	LASER INTERFEROMETER MARKET IN ASIA PACIFIC, BY VERTICAL AND COUNTRY	44
4.6	LASER INTERFEROMETER MARKET, BY COUNTRY	44
5	MARKET OVERVIEW	45
5.1	INTRODUCTION	45
5.2	MARKET DYNAMICS	45
5.2.1	DRIVERS	46
5.2.1.1	Surging demand for precision in manufacturing and quality control	46
5.2.1.2	Growing trend of miniaturization of semiconductor devices	47
5.2.1.3	Extremely tight tolerances in aerospace & defense and automotive verticals	47
5.2.2	RESTRAINTS	48
5.2.2.1	High ownership and maintenance costs	48
5.2.2.2	Adverse impact of environmental conditions on measurement accuracy	49
5.2.2.3	Availability of alternative measurement tools	49
5.2.2.4	Risks associated with constant technological upgrades and obsolescence of existing equipment	50
5.2.3	OPPORTUNITIES	51
5.2.3.1	Industrialization in emerging markets	51
5.2.3.2	Integration of laser interferometry with automated production lines, cloud-based platforms, and Industry 4.0 technologies	51
5.2.3.3	Growing emphasis on developing more user-friendly and cost-effective models	52
5.2.3.4	Elevating demand for advanced medical devices	52
5.2.4	CHALLENGES	53
5.2.4.1	Requirement for skilled personnel to handle complex operations	53
5.3	VALUE CHAIN ANALYSIS	54
5.4	ECOSYSTEM ANALYSIS	56
5.5	TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESSES	57
5.6	PRICING ANALYSIS	58
5.6.1	AVERAGE SELLING PRICE OF FABRY-PEROT LASER INTERFEROMETER, BY KEY PLAYER	59
5.6.2	INDICATIVE PRICING TREND OF LASER INTERFEROMETERS, BY TYPE	59
5.6.3	AVERAGE SELLING PRICE TREND, BY REGION	60
?		
5.7	TECHNOLOGY ANALYSIS	60
5.7.1	KEY TECHNOLOGIES	60
5.7.1.1	Laser sources and beam splitters	60
5.7.2	COMPLEMENTARY TECHNOLOGIES	61
5.7.2.1	Coordinate measuring machines and linear encoders	61
5.7.3	ADJACENT TECHNOLOGIES	61
5.7.3.1	Fourier transform infrared spectroscopy and optical coherence tomography	61
5.8	PORTER'S FIVE FORCES ANALYSIS	61
5.8.1	THREAT OF NEW ENTRANTS	63
5.8.2	THREAT OF SUBSTITUTES	63
5.8.3	BARGAINING POWER OF SUPPLIERS	63

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5.8.4	BARGAINING POWER OF BUYERS	63
5.8.5	INTENSITY OF COMPETITIVE RIVALRY	63
5.9	KEY STAKEHOLDERS AND BUYING CRITERIA	64
5.9.1	KEY STAKEHOLDERS IN BUYING PROCESS	64
5.9.2	BUYING CRITERIA	65
5.10	CASE STUDY ANALYSIS	65
5.10.1	US DEPARTMENT OF DEFENSE USES LASER INTERFERENCE STRUCTURING (LIS) SYSTEM TO PREPARE SURFACES FOR PROTECTIVE COATINGS	65
5.10.2	MATERIAL INSPECTION MACHINES USE WHITE-LIGHT INTERFEROMETRY TO ACHIEVE FAST PRECISION MEASUREMENTS	66
5.10.3	SCIENTISTS FROM GERMANY DEMONSTRATE ATOM INTERFEROMETRY IN SPACE TO MEASURE GRAVITATIONAL FORCE	66
5.10.4	MACHINE REPAIR SPECIALIST INVESTS IN MULTI-AXIS CALIBRATORS TO EXPAND ITS SERVICES	66
5.10.5	BOST REDUCES MACHINE SETUP TIME BY 50% WITH DEPLOYMENT OF RENISHAW'S MACHINE CALIBRATION SOLUTIONS	67
5.11	TRADE ANALYSIS	67
5.11.1	IMPORT SCENARIO (HS CODE 903149)	67
5.11.2	EXPORT SCENARIO (HS CODE 903149)	68
5.12	PATENT ANALYSIS	69
5.13	KEY CONFERENCES AND EVENTS, 2024-2025	71
5.14	REGULATORY LANDSCAPE	72
5.14.1	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	72
5.14.2	STANDARDS AND REGULATIONS	75
5.14.2.1	Standards	75
5.14.2.2	Regulations	75
6	COMPONENTS OF LASER INTERFEROMETERS	77
6.1	INTRODUCTION	77
6.2	LASER SOURCES	77
6.3	PHOTODETECTORS	77
6.4	OPTICAL ELEMENTS	77
6.5	CONTROL SYSTEMS	78
6.6	SOFTWARE	78
7	LASER INTERFEROMETER MARKET, BY TYPE	79
7.1	INTRODUCTION	80
7.2	MICHELSON INTERFEROMETER	82
7.2.1	OPTICAL TESTING AND METROLOGY APPLICATIONS TO CONTRIBUTE TO MARKET GROWTH	82
7.3	FABRY-PEROT INTERFEROMETER	83
7.3.1	TELECOMMUNICATIONS AND SPECTROSCOPY APPLICATIONS TO FUEL MARKET GROWTH	83
7.4	FIZEAU INTERFEROMETER	84
7.4.1	OPTICAL MANUFACTURING AND AEROSPACE APPLICATIONS TO SUPPORT MARKET GROWTH	84
7.5	MACH-ZEHNDER INTERFEROMETER	85
7.5.1	RIISING DEMAND FOR FIBER-OPTIC COMMUNICATION SYSTEMS AND ELECTRONIC DEVICES TO BOOST ADOPTION	85
7.6	SAGNAC INTERFEROMETER	86
7.6.1	SURGING DEMAND FOR INERTIAL NAVIGATION SYSTEMS AND GYROSCOPES FROM AIRCRAFT AND AUV MANUFACTURERS TO FOSTER MARKET GROWTH	86
7.7	TWYMAN-GREEN INTERFEROMETER	88
7.7.1	OPTICAL COMPONENT TESTING AND SURFACE QUALITY ASSESSMENT TO FUEL MARKET GROWTH	88
8	LASER INTERFEROMETER MARKET, BY TECHNIQUE	90

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- 8.1 INTRODUCTION 91
- 8.2 HOMODYNE 92
 - 8.2.1 ABILITY TO MEASURE SMALL DISPLACEMENTS AND VIBRATIONS IN INDUSTRIAL APPLICATIONS TO DRIVE MARKET 92
- 8.3 HETERODYNE 92
 - 8.3.1 RISING ADOPTION TO MEASURE HIGH-FREQUENCY VIBRATIONS TO FUEL MARKET GROWTH 92
- 9 LASER INTERFEROMETER MARKET, BY APPLICATION 93
 - 9.1 INTRODUCTION 94
 - 9.2 SURFACE TOPOLOGY 95
 - 9.2.1 NEED TO UNDERSTAND SURFACE FEATURES AT MICROSCOPIC LEVEL TO BOOST DEMAND 95
 - 9.3 ENGINEERING 96
 - 9.3.1 REQUIREMENT FOR HIGH-PRECISION MEASUREMENTS IN QUALITY CONTROL, R&D, AND MANUFACTURING APPLICATIONS TO FUEL MARKET GROWTH 96
 - 9.4 APPLIED SCIENCE 96
 - 9.4.1 DEMAND FOR PRECISE, SENSITIVE, AND SPECIFIC MEASUREMENTS IN APPLIED SCIENCE FIELDS TO STIMULATE MARKET GROWTH 96
 - 9.5 BIOMEDICAL 97
 - 9.5.1 IMAGING AND DIAGNOSTIC TECHNIQUES REQUIRING LASER INTERFEROMETERS TO ACCELERATE MARKET GROWTH 97
 - 9.6 SEMICONDUCTOR DETECTION 97
 - 9.6.1 STRINGENT PRECISION AND QUALITY CONTROL REQUIREMENTS TO DRIVE DEMAND 97
 - 10 LASER INTERFEROMETER MARKET, BY VERTICAL 99
 - 10.1 INTRODUCTION 100
 - 10.2 AUTOMOTIVE 101
 - 10.2.1 FOCUS ON ENHANCING AUTOMOTIVE MANUFACTURING PRECISION TO BOOST DEMAND 101
 - 10.3 AEROSPACE & DEFENSE 104
 - 10.3.1 NECESSITY TO ENSURE OPTIMAL PRECISION AND RELIABILITY OF AIRCRAFT COMPONENTS AND MILITARY SYSTEMS TO FUEL MARKET GROWTH 104
 - 10.4 INDUSTRIAL 107
 - 10.4.1 REQUIREMENT FOR ADVANCED VIBRATION AND DYNAMIC ANALYSIS OF MACHINERY TO FOSTER MARKET GROWTH 107
 - 10.5 HEALTHCARE 109
 - 10.5.1 ESSENTIALITY TO ENSURE SAFETY AND EFFICACY OF MEDICAL DEVICES TO DRIVE MARKET 109
 - 10.6 ELECTRONICS & SEMICONDUCTOR 112
 - 10.6.1 INCREASING DEMAND FOR NANOSCALE ELECTRONICS TO ACCELERATE MARKET GROWTH 112
 - 10.7 TELECOMMUNICATIONS 114
 - 10.7.1 INCREASING DEMAND FOR FASTER AND MORE RELIABLE DATA COMMUNICATION SERVICES TO CREATE OPPORTUNITIES 114
 - 11 LASER INTERFEROMETER MARKET, BY REGION 117
 - 11.1 INTRODUCTION 118
 - 11.2 NORTH AMERICA 119
 - 11.2.1 NORTH AMERICA: IMPACT OF RECESSION 119
 - 11.2.2 US 122
 - 11.2.2.1 Rising demand for high-precision engineering components to drive market 122
 - 11.2.3 CANADA 123
 - 11.2.3.1 Elevating demand for commercial vehicles to create lucrative opportunities 123
 - 11.2.4 MEXICO 123
 - 11.2.4.1 Increasing investments in manufacturing sector to foster market growth 123

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11.3	EUROPE	124
11.3.1	EUROPE: IMPACT OF RECESSION	124
11.3.2	UK	127
11.3.2.1	Automotive and aerospace industries to contribute most to market growth	127
11.3.3	GERMANY	128
11.3.3.1	Prominent presence of automobile companies to spur demand	128
11.3.4	FRANCE	128
11.3.4.1	Elevating use of Industry 4.0 and smart manufacturing to support market growth	128
11.3.5	REST OF EUROPE	128
11.4	ASIA PACIFIC	129
11.4.1	ASIA PACIFIC: IMPACT OF RECESSION	129
11.4.2	CHINA	132
11.4.2.1	Growing industrialization and urbanization to accelerate market growth	132
11.4.3	JAPAN	133
11.4.3.1	Implementation of just-in-time manufacturing approach to augment market growth	133
11.4.4	INDIA	133
11.4.4.1	India's expanding industrial landscape to boost demand	133
11.4.5	REST OF ASIA PACIFIC	134
11.5	ROW	134
11.5.1	ROW: IMPACT OF RECESSION	134
11.5.2	MIDDLE EAST	136
11.5.2.1	Thriving aerospace vertical to drive market	136
11.5.3	AFRICA	137
11.5.3.1	Growing focus on quality control to boost demand	137
11.5.4	SOUTH AMERICA	137
11.5.4.1	Steady rise of industrialization to foster market growth	137
12	COMPETITIVE LANDSCAPE	138
12.1	OVERVIEW	138
12.2	KEY PLAYER STRATEGIES/RIGHT TO WIN, 2020-2023	138
12.3	REVENUE ANALYSIS, 2018-2022	139
12.4	MARKET SHARE ANALYSIS, 2023	141
12.5	COMPANY VALUATION AND FINANCIAL METRICS, 2023	142
12.6	BRAND/PRODUCT COMPARISON	143
?		
12.7	COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023	144
12.7.1	STARS	144
12.7.2	EMERGING LEADERS	144
12.7.3	PERVASIVE PLAYERS	144
12.7.4	PARTICIPANTS	144
12.7.5	COMPANY FOOTPRINT: KEY PLAYERS, 2023	146
12.7.5.1	Company footprint	146
12.7.5.2	Application footprint	147
12.7.5.3	Vertical footprint	148
12.7.5.4	Technique footprint	149
12.7.5.5	Region footprint	150
12.8	COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2023	151
12.8.1	PROGRESSIVE COMPANIES	151

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12.8.2	RESPONSIVE COMPANIES	151
12.8.3	DYNAMIC COMPANIES	151
12.8.4	STARTING BLOCKS	151
12.8.5	COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2023	153
12.8.5.1	Detailed list of key startups/SMEs	153
12.8.5.2	Competitive benchmarking of key startups/SMEs	153
12.9	COMPETITIVE SCENARIO AND TRENDS	154
12.9.1	PRODUCT LAUNCHES	154
12.9.2	DEALS	155
13	COMPANY PROFILES	156
13.1	KEY PLAYERS	156
13.1.1	RENISHAW PLC	156
13.1.1.1	Business overview	156
13.1.1.2	Products/Solutions/Services offered	157
13.1.1.3	MnM view	158
13.1.1.3.1	Key strengths/Right to win	158
13.1.1.3.2	Strategic choices	158
13.1.1.3.3	Weaknesses/Competitive threats	159
13.1.2	KEYSIGHT TECHNOLOGIES	160
13.1.2.1	Business overview	160
13.1.2.2	Products/Solutions/Services offered	162
13.1.2.3	Recent developments	164
13.1.2.3.1	Product launches	164
13.1.2.3.2	Deals	165
13.1.2.4	MnM view	165
13.1.2.4.1	Key strengths/Right to win	165
13.1.2.4.2	Strategic choices	165
13.1.2.4.3	Weaknesses/Competitive threats	165
13.1.3	ZEISS GROUP	166
13.1.3.1	Business overview	166
13.1.3.2	Products/Solutions/Services offered	168
13.1.3.3	MnM view	168
13.1.3.3.1	Key strengths/Right to win	168
13.1.3.3.2	Strategic choices	168
13.1.3.3.3	Weaknesses/Competitive threats	168
13.1.4	ZYGO CORPORATION	169
13.1.4.1	Business overview	169
13.1.4.2	Products/Solutions/Services offered	170
13.1.4.3	Recent developments	172
13.1.4.3.1	Product launches	172
13.1.4.3.2	Deals	172
13.1.4.4	MnM view	173
13.1.4.4.1	Key strengths/Right to win	173
13.1.4.4.2	Strategic choices	173
13.1.4.4.3	Weaknesses/Competitive threats	173
13.1.5	BRUKER	174
13.1.5.1	Business overview	174

13.1.5.2	Products/Solutions/Services offered	175
13.1.5.3	Recent developments	176
13.1.5.3.1	Product launches	176
13.1.5.4	MnM view	176
13.1.5.4.1	Key strengths/Right to win	176
13.1.5.4.2	Strategic choices	177
13.1.5.4.3	Weaknesses/Competitive threats	177
13.1.6	MAHR GMBH	178
13.1.6.1	Business overview	178
13.1.6.2	Products/Solutions/Services offered	178
13.1.7	MOLLER-WEDEL OPTICAL GMBH	179
13.1.7.1	Business overview	179
13.1.7.2	Products/Solutions/Services offered	179
13.1.8	QED TECHNOLOGIES	181
13.1.8.1	Business overview	181
13.1.8.2	Products/Solutions/Services offered	181
13.1.9	SIOS ME?TECHNIK GMBH	182
13.1.9.1	Business overview	182
13.1.9.2	Products/Solutions/Services offered	182
13.1.10	TOSEI ENGINEERING CORP.	184
13.1.10.1	Business overview	184
13.1.10.2	Products/Solutions/Services offered	184
?		
13.2	OTHER PLAYERS	185
13.2.1	PRATT AND WHITNEY MEASUREMENT SYSTEMS, INC.	185
13.2.2	SMARACT GMBH	186
13.2.3	LASERTEX	187
13.2.4	LUNA	188
13.2.5	4D TECHNOLOGY CORP.	189
13.2.6	APRE INSTRUMENTS	190
13.2.7	ADLOPTICA OPTICAL SYSTEMS GMBH	191
13.2.8	LOGITECH	192
13.2.9	HOLMARC OPTO-MECHATRONICS LTD.	193
13.2.10	ATTOCUBE SYSTEMS AG	194
13.2.11	HIGHFINESSE GMBH	195
13.2.12	XONOX TECHNOLOGY GMBH	196
13.2.13	THORLABS, INC.	197
13.2.14	AUTOMATED PRECISION, INC (API)	198
13.2.15	LASERTEC CORPORATION	199
13.2.16	FUJIFILM HOLDINGS CORPORATION	200
13.2.17	OLYMPUS CORPORATION	201
14	APPENDIX	202
14.1	INSIGHTS FROM INDUSTRY EXPERTS	202
14.2	DISCUSSION GUIDE	202
14.3	KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL	206
14.4	CUSTOMIZATION OPTIONS	208
14.5	RELATED REPORTS	208

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