

IR Spectroscopy Market by Technology (FTIR, Dispersive IR), Type (Near-infrared Spectroscopy, Mid-infrared Spectroscopy), Product Type (Benchtop Spectroscopes), End-user Industry (Healthcare & Pharmaceutical, Chemicals) - Global Forecast to 2029

Market Report | 2024-04-03 | 220 pages | MarketsandMarkets

AVAILABLE LICENSES:

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

Report description:

The global IR spectroscopy market was valued at USD 1.2 billion in 2024 and is projected to reach USD 1.6 billion by 2029, it is expected to register a CAGR of 6.5% during the forecast period. Continuous technological advancements in IR spectroscopy is driving the growth of the IR spectroscopy market. Whereas availability of used IR spectroscopy devices is restraining the growth of the IR spectroscopy market.

"The Micro Spectroscopes is expected to grow at the second highest CAGR during the forecast period."

The Micro spectroscopes segment is expected to grow at a second highest CAGR of 6.7% during the forecast period. Micro spectroscopes allows for the analysis of samples at a microscopic level, providing high spatial resolution. This is particularly valuable in fields such as materials science, forensics, and biology, where the distribution of chemical components within a sample is critical. These spectroscopes are applicable across a broad range of industries and scientific disciplines. It can be used to analyze organic and inorganic materials, polymers, pharmaceuticals, biological samples, and more. This versatility makes it an attractive tool for researchers and practitioners in various fields.

The near-infrared spectroscopy segment is likely to grow at the second highest CAGR during the forecast period

The hardware segment is expected to grow at a CAGR of 6.7% during the forecast period. Near-infrared spectroscopy allows for the non-destructive analysis of samples. This means that samples can be analyzed without altering or damaging them, which is particularly advantageous in industries such as pharmaceuticals, food, agriculture, and forensics. NIRS is versatile and can be

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

applied to a wide range of materials and substances, including solids, liquids, and gases. It can be used for qualitative and quantitative analysis, making it applicable in diverse fields such as pharmaceuticals, agriculture, environmental monitoring, and biomedical research.

"The Asia Pacific segment is likely to grow at the second highest CAGR during the forecast period."

The market in Asia Pacific is expected to witness the second highest CAGR of 6.5% during the forecast period. Agriculture is the main occupation for many countries in the region and IR spectroscopy is used to assess soil properties such as organic matter content, pH, nutrient levels (e.g., nitrogen, phosphorus, potassium), and texture. This information is crucial for optimizing fertilizer application, managing soil health, and ensuring crop productivity. IR spectroscopy can be used to analyze the organic matter content, nitrogen content, phosphorus content, and other important fertility parameters of soil. This information can be used to develop targeted fertilizer application programs and to improve soil health.

Breakdown of primaries

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

- By Company Type - Tier 1 - 35%, Tier 2 - 45%, Tier 3 - 20%
- By Designation- C-level Executives - 44%, Directors - 38%, Others - 18%
- By Region-North America - 30%, Europe - 25%, Asia Pacific - 26%, RoW - 19%

The IR spectroscopy market is dominated by a few globally established players such as Shimadzu Corporation (Japan), ZEISS (Germany), PerkinElmer Inc. (US), Agilent Technologies, Inc. (US), Bruker Corporation (US), ABB (Switzerland), Thermo Fisher Scientific Inc. (US), Horiba, Ltd. (Japan), Sartorius AG (Germany), Hitachi High-Tech Corporation (Japan). The study includes an in-depth competitive analysis of these key players in the IR spectroscopy market, with their company profiles, recent developments, and key market strategies.

Research Coverage:

The report segments the IR spectroscopy market and forecasts its size by technology, type, product type, end-user industry, and region. The report also discusses the drivers, restraints, opportunities, and challenges pertaining to the market. It gives a detailed view of the market across four main regions-North America, Europe, Asia Pacific, and RoW. Supply chain analysis has been included in the report, along with the key players and their competitive analysis in the IR spectroscopy ecosystem.

Key Benefits to Buy the Report:

- Analysis of key drivers (Growth in the number of healthcare institutions and clinical research centers, Increase in R&D investments in healthcare and pharmaceuticals industry, Continuous technological advancements in IR spectroscopy). Restraint (Technical limitations of IR spectroscopy, Availability of used IR spectroscopy devices), Opportunity (Rising use of NIR spectroscopy in seed quality detection, Growing Product development for biological Research), Challenges (High Cost of IR spectroscopy products)
- Product Development/Innovation: Detailed insights on upcoming technologies, research and development activities, and new product launches in the IR spectroscopy market.
- Market Development: Comprehensive information about lucrative markets - the report analyses the IR spectroscopy market across varied regions
- Market Diversification: Exhaustive information about new products and services, untapped geographies, recent developments, and investments in the IR spectroscopy market.
- Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

Shimadzu Corporation (Japan), ZEISS (Germany), PerkinElmer Inc. (US), Agilent Technologies, Inc. (US), Bruker Corporation (US), ABB (Switzerland), Thermo Fisher Scientific Inc. (US), Horiba, Ltd. (Japan), Sartorius AG (Germany), Hitachi High-Tech Corporation (Japan) among others in the IR spectroscopy market.

Table of Contents:

1	INTRODUCTION	28
1.1	STUDY OBJECTIVES	28
1.2	MARKET DEFINITION	28
1.3	STUDY SCOPE	29
1.3.1	MARKETS COVERED	29
	FIGURE 1 IR SPECTROSCOPY MARKET SEGMENTATION	29
1.3.2	REGIONAL SCOPE	29
1.3.3	INCLUSIONS AND EXCLUSIONS	30
	TABLE 1 INCLUSIONS AND EXCLUSIONS	30
1.4	YEARS CONSIDERED	30
1.5	CURRENCY CONSIDERED	31
1.6	UNIT CONSIDERED	31
1.7	LIMITATIONS	31
1.8	STAKEHOLDERS	31
1.9	SUMMARY OF CHANGES	32
1.9.1	IMPACT OF RECESSION	32
2	RESEARCH METHODOLOGY	33
2.1	INTRODUCTION	33
	FIGURE 2 RESEARCH DESIGN	33
2.2	RESEARCH DATA	34
	FIGURE 3 RESEARCH APPROACH	34
2.2.1	SECONDARY DATA	35
2.2.1.1	Major secondary sources	35
2.2.1.2	Key data from secondary sources	35
2.2.2	PRIMARY DATA	36
2.2.2.1	Key participants in primary interviews	36
2.2.2.2	Breakdown of primary interviews	36
2.2.2.3	Key data from primary sources	37
2.2.2.4	Key industry insights	37
2.3	FACTOR ANALYSIS	38
2.3.1	SUPPLY-SIDE ANALYSIS	38
	FIGURE 4 REVENUE GENERATED BY IR SPECTROSCOPY SALES, BY KEY PLAYERS	38
	FIGURE 5 REVENUE ANALYSIS OF SHIMADZU CORPORATION	39
2.3.2	DEMAND-SIDE ANALYSIS	39
	FIGURE 6 REVENUE GENERATED BY IR SPECTROSCOPY SALES, BY END USER	39
2.4	MARKET SIZE ESTIMATION METHODOLOGY	40
	FIGURE 7 SUPPLY-SIDE ANALYSIS	40
2.4.1	BOTTOM-UP APPROACH	41
2.4.1.1	Approach to arrive at market size using bottom-up analysis (demand side)	41
	FIGURE 8 BOTTOM-UP APPROACH	41
2.4.2	TOP-DOWN APPROACH	42
2.4.2.1	Approach to arrive at market size using top-down analysis (supply side)	42

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

FIGURE 9	TOP-DOWN APPROACH	42
2.5	MARKET BREAKDOWN AND DATA TRIANGULATION	43
FIGURE 10	DATA TRIANGULATION	43
2.6	RESEARCH ASSUMPTIONS	44
TABLE 2	RESEARCH ASSUMPTIONS	44
TABLE 3	GROWTH FORECAST ASSUMPTIONS	45
2.7	RESEARCH LIMITATIONS	45
2.8	RISK ASSESSMENT	45
TABLE 4	RISK ASSESSMENT	45
2.9	PARAMETERS TO ANALYZE RECESSION IMPACT	46
TABLE 5	PARAMETERS TO ANALYZE RECESSION IMPACT	46
3	EXECUTIVE SUMMARY	47
FIGURE 11	IR SPECTROSCOPY MARKET, 2020-2029 (USD MILLION)	47
FIGURE 12	FAR-INFRARED SPECTROSCOPY SEGMENT TO WITNESS HIGHEST CAGR DURING FORECAST PERIOD	48
FIGURE 13	PORTABLE SPECTROSCOPES SEGMENT TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD	48
FIGURE 14	BIOMEDICAL RESEARCH & BIOMATERIALS SEGMENT TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD	49
FIGURE 15	ASIA PACIFIC TO BE FASTEST-GROWING MARKET DURING FORECAST PERIOD	49
4	PREMIUM INSIGHTS	51
4.1	ATTRACTIVE GROWTH OPPORTUNITIES FOR PLAYERS IN IR SPECTROSCOPY MARKET	51
FIGURE 16	GROWING DEPLOYMENT OF IR SPECTROSCOPY SYSTEMS IN HEALTHCARE & PHARMACEUTICALS INDUSTRY TO DRIVE MARKET	51
4.2	IR SPECTROSCOPY MARKET, BY TYPE	51
FIGURE 17	MID-INFRARED SPECTROSCOPY TO LEAD MARKET DURING FORECAST PERIOD	51
4.3	IR SPECTROSCOPY MARKET FOR HEALTHCARE & PHARMACEUTICALS, BY REGION	52
FIGURE 18	NORTH AMERICA TO ACCOUNT FOR LARGEST MARKET SHARE DURING FORECAST PERIOD	52
4.4	IR SPECTROSCOPY MARKET, BY PRODUCT TYPE	52
FIGURE 19	BENCHTOP SPECTROSCOPES TO BE DOMINANT SEGMENT DURING FORECAST PERIOD	52
4.5	IR SPECTROSCOPY MARKET, BY END USER	53
FIGURE 20	HEALTHCARE & PHARMACEUTICALS SEGMENT TO HAVE LARGEST MARKET SHARE DURING FORECAST PERIOD	53
4.6	IR SPECTROSCOPY MARKET, BY REGION	53
FIGURE 21	NORTH AMERICA TO SHOWCASE LARGEST SHARE OF IR SPECTROSCOPY MARKET IN 2029	53
4.7	IR SPECTROSCOPY MARKET, BY COUNTRY	54
FIGURE 22	CHINA TO RECORD HIGHEST CAGR DURING FORECAST PERIOD	54
5	MARKET OVERVIEW	55
5.1	INTRODUCTION	55
5.2	MARKET DYNAMICS	55
FIGURE 23	IR SPECTROSCOPY MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES	55
5.2.1	DRIVERS	56
FIGURE 24	IMPACT OF DRIVERS	56
5.2.1.1	Growing number of healthcare institutions and clinical research centers	56
5.2.1.2	Increasing R&D investments in healthcare & pharmaceutical industry	56
5.2.1.3	Continuous technological advancements in IR spectroscopy	57
5.2.2	RESTRAINTS	57
FIGURE 25	IMPACT OF RESTRAINTS	57
5.2.2.1	Technical constraints	58
5.2.2.2	Limited lifespan of IR spectroscopy devices	58
5.2.3	OPPORTUNITIES	59

FIGURE 26□IMPACT OF OPPORTUNITIES□59

5.2.3.1□Seed quality detection using NIR spectroscopy□59

5.2.3.2□Focus on drug development and biological research□59

5.2.4□CHALLENGES□60

FIGURE 27□IMPACT OF CHALLENGES□60

5.2.4.1□High cost of IR spectroscopy products□60

5.3□TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS□61

FIGURE 28□TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS□61

5.4□PRICING ANALYSIS□62

5.4.1□AVERAGE SELLING PRICE TREND OF KEY PLAYERS, BY PRODUCT TYPE□62

FIGURE 29□AVERAGE SELLING PRICE TREND OF KEY PLAYERS, BY TOP PRODUCT TYPE□62

TABLE 6□AVERAGE SELLING PRICE TREND, BY TOP PRODUCT TYPE, 2015-2023 (USD)□62

5.4.2□AVERAGE SELLING PRICE TREND, BY REGION□63

TABLE 7□AVERAGE SELLING PRICE TREND, BY REGION, 2019-2023 (USD)□63

5.5□VALUE CHAIN ANALYSIS□63

FIGURE 30□VALUE CHAIN ANALYSIS□63

5.6□ECOSYSTEM ANALYSIS□64

FIGURE 31□ECOSYSTEM MAPPING□64

TABLE 8□ROLE OF COMPANIES IN ECOSYSTEM□65

5.7□INVESTMENT AND FUNDING SCENARIO□66

FIGURE 32□INVESTMENT AND FUNDING SCENARIO□66

5.8□TECHNOLOGY ANALYSIS□66

5.8.1□KEY TECHNOLOGIES□66

5.8.1.1□Micro-FTIR spectroscopy□66

5.8.2□COMPLEMENTARY TECHNOLOGIES□67

5.8.2.1□Raman spectroscopy□67

5.8.2.2□Mass spectrometry□67

5.8.3□ADJACENT TECHNOLOGIES□67

5.8.3.1□Miniaturization and portability□67

5.8.3.2□Data analysis software□68

5.9□PATENT ANALYSIS□68

TABLE 9□INNOVATIONS AND PATENT REGISTRATIONS, 2021-2023□69

FIGURE 33□PATENT ANALYSIS, 2013-2023□71

FIGURE 34□REGIONAL ANALYSIS OF PATENTS, 2023□71

5.10□TRADE DATA ANALYSIS□72

5.10.1□IMPORT DATA□72

FIGURE 35□IMPORT DATA FOR HS CODE 902730-COMPLIANT PRODUCTS, BY COUNTRY, 2018-2022 (USD MILLION)□72

TABLE 10□IMPORT SCENARIO FOR HS CODE 902730-COMPLIANT PRODUCTS, BY COUNTRY, 2018-2022 (USD MILLION)□73

5.10.2□EXPORT DATA□74

FIGURE 36□EXPORT DATA FOR HS CODE 902730-COMPLIANT PRODUCTS, BY COUNTRY, 2018-2022 (USD MILLION)□74

TABLE 11□EXPORT SCENARIO FOR HS CODE 902730-COMPLIANT PRODUCTS, BY COUNTRY, 2018-2022 (USD MILLION)□74

5.11□KEY CONFERENCES AND EVENTS□75

TABLE 12□KEY CONFERENCES AND EVENTS, 2024-2025□75

5.12□CASE STUDY ANALYSIS□76

5.12.1□NIR METHODS OPTIMIZED USING ANTARIS FT-NIR AND CHEMOMETRIC MODELING□76

5.12.2□USE OF FTIR SPECTROSCOPY FOR ENVIRONMENTAL PLASTICS RESEARCH□77

5.12.3□IMPROVED STONE DETECTION WITH MULTIVARIATE ANALYSIS SOFTWARE□77

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

5.12.4	ENHANCED CHEMICAL COMPOUND DETECTION USING DIAMOND-TURNED MIRRORS AND BEAMSPLITTERS	77
5.13	TARIFF AND REGULATORY LANDSCAPE	78
5.13.1	COUNTRY-WISE TARIFFS FOR HS CODE 902730-COMPLIANT PRODUCTS	78
TABLE 13	MFN TARIFF FOR HS CODE 902730-COMPLIANT PRODUCTS EXPORTED BY US, 2023	78
5.13.2	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	78
TABLE 14	NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	78
TABLE 15	EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	79
TABLE 16	ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	79
TABLE 17	REST OF THE WORLD: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	80
5.13.3	REGULATORY STANDARDS	80
5.14	PORTER'S FIVE FORCES ANALYSIS	81
TABLE 18	IMPACT OF PORTER'S FIVE FORCES	81
FIGURE 37	PORTER'S FIVE FORCES ANALYSIS	81
5.14.1	THREAT OF NEW ENTRANTS	82
5.14.2	THREAT OF SUBSTITUTES	82
5.14.3	BARGAINING POWER OF SUPPLIERS	82
5.14.4	BARGAINING POWER OF BUYERS	82
5.14.5	INTENSITY OF COMPETITIVE RIVALRY	83
5.15	KEY STAKEHOLDERS AND BUYING CRITERIA	83
5.15.1	KEY STAKEHOLDERS IN BUYING PROCESS	83
FIGURE 38	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS, BY TECHNOLOGY	83
TABLE 19	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS, BY TECHNOLOGY (%)	83
5.15.2	BUYING CRITERIA	84
FIGURE 39	KEY BUYING CRITERIA, BY PRODUCT TYPE	84
TABLE 20	KEY BUYING CRITERIA, BY PRODUCT TYPE	84
6	IR SPECTROSCOPY MARKET, BY TECHNOLOGY	85
6.1	INTRODUCTION	86
FIGURE 40	IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2024-2029 (USD MILLION)	86
TABLE 21	IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2020-2023 (USD MILLION)	86
TABLE 22	IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2024-2029 (USD MILLION)	86
6.2	FOURIER TRANSFORM INFRARED SPECTROSCOPY	87
6.2.1	INCREASING ADOPTION IN FORENSICS AND PHARMACEUTICAL RESEARCH TO DRIVE MARKET	87
TABLE 23	FOURIER TRANSFORM INFRARED SPECTROSCOPY: IR SPECTROSCOPY MARKET, BY PRODUCT TYPE, 2020-2023 (USD MILLION)	88
TABLE 24	FOURIER TRANSFORM INFRARED SPECTROSCOPY: IR SPECTROSCOPY MARKET, BY PRODUCT TYPE, 2024-2029 (USD MILLION)	88
6.3	DISPERSIVE INFRARED SPECTROSCOPY	88
6.3.1	GROWING USE IN CATALYSIS, SURFACE SCIENCE, ENVIRONMENTAL SCIENCE, AND MATERIALS CHARACTERIZATION TO DRIVE MARKET	88
TABLE 25	DISPERSIVE INFRARED SPECTROSCOPY: IR SPECTROSCOPY MARKET, BY PRODUCT TYPE, 2020-2023 (USD MILLION)	89
TABLE 26	DISPERSIVE INFRARED SPECTROSCOPY: IR SPECTROSCOPY MARKET, BY PRODUCT TYPE, 2024-2029 (USD MILLION)	89
7	IR SPECTROSCOPY MARKET, BY TYPE	90
7.1	INTRODUCTION	91
FIGURE 41	IR SPECTROSCOPY MARKET, BY TYPE, 2024-2029 (USD MILLION)	91
TABLE 27	IR SPECTROSCOPY MARKET, BY TYPE, 2020-2023 (USD MILLION)	91
TABLE 28	IR SPECTROSCOPY MARKET, BY TYPE, 2024-2029 (USD MILLION)	91
7.2	NEAR-INFRARED SPECTROSCOPY	92

7.2.1	RISING FOCUS ON DELIVERING HIGH-QUALITY PRODUCTS TO DAIRY AND AGRICULTURE INDUSTRIES TO DRIVE MARKET	92
FIGURE 42	NEAR-INFRARED SPECTROSCOPY MARKET, BY PRODUCT TYPE, 2024-2029 (USD MILLION)	93
TABLE 29	NEAR-INFRARED SPECTROSCOPY: IR SPECTROSCOPY MARKET, BY PRODUCT TYPE, 2020-2023 (USD MILLION)	93
TABLE 30	NEAR-INFRARED SPECTROSCOPY: IR SPECTROSCOPY MARKET, BY PRODUCT TYPE, 2024-2029 (USD MILLION)	93
TABLE 31	NEAR-INFRARED SPECTROSCOPY: IR SPECTROSCOPY MARKET, BY END USER, 2020-2023 (USD MILLION)	94
TABLE 32	NEAR-INFRARED SPECTROSCOPY: IR SPECTROSCOPY MARKET, BY END USER, 2024-2029 (USD MILLION)	94
7.3	MID-INFRARED SPECTROSCOPY (MIR)	94
7.3.1	INCREASING DEMAND FOR REAL-TIME MONITORING OF FOOD QUALITY TO DRIVE MARKET	94
FIGURE 43	MID-INFRARED SPECTROSCOPY MARKET, BY PRODUCT TYPE, 2024-2029 (USD MILLION)	95
TABLE 33	MID-INFRARED SPECTROSCOPY: IR SPECTROSCOPY MARKET, BY PRODUCT TYPE, 2020-2023 (USD MILLION)	95
TABLE 34	MID-INFRARED SPECTROSCOPY: IR SPECTROSCOPY MARKET, BY PRODUCT TYPE, 2024-2029 (USD MILLION)	96
TABLE 35	MID-INFRARED SPECTROSCOPY: IR SPECTROSCOPY MARKET, BY END USER, 2020-2023 (USD MILLION)	96
TABLE 36	MID-INFRARED SPECTROSCOPY: IR SPECTROSCOPY MARKET, BY END USER, 2024-2029 (USD MILLION)	96
7.4	FAR-INFRARED SPECTROSCOPY	97
7.4.1	SURGE IN DEMAND FOR SAFE HEALTHCARE APPLICATIONS TO DRIVE MARKET	97
FIGURE 44	FAR-INFRARED SPECTROSCOPY MARKET, BY PRODUCT TYPE, 2024-2029 (USD MILLION)	97
TABLE 37	FAR-INFRARED SPECTROSCOPY: IR SPECTROSCOPY MARKET, BY PRODUCT TYPE, 2020-2023 (USD MILLION)	98
TABLE 38	FAR-INFRARED SPECTROSCOPY: IR SPECTROSCOPY MARKET, BY PRODUCT TYPE, 2024-2029 (USD MILLION)	98
TABLE 39	FAR-INFRARED SPECTROSCOPY: IR SPECTROSCOPY MARKET, BY END USER, 2020-2023 (USD MILLION)	98
TABLE 40	FAR-INFRARED SPECTROSCOPY: IR SPECTROSCOPY MARKET, BY END USER, 2024-2029 (USD MILLION)	99
8	INFRARED SPECTROSCOPY MARKET, BY PRODUCT TYPE	100
8.1	INTRODUCTION	101
FIGURE 45	IR SPECTROSCOPY MARKET, BY PRODUCT TYPE, 2024-2029 (USD MILLION)	101
TABLE 41	INFRARED SPECTROSCOPY MARKET, BY PRODUCT TYPE, 2020-2023 (USD MILLION)	101
TABLE 42	INFRARED SPECTROSCOPY MARKET, BY PRODUCT TYPE, 2024-2029 (USD MILLION)	101
TABLE 43	INFRARED SPECTROSCOPY MARKET, BY PRODUCT TYPE, 2020-2023 (THOUSAND UNITS)	102
TABLE 44	INFRARED SPECTROSCOPY MARKET, BY PRODUCT TYPE, 2024-2029 (THOUSAND UNITS)	102
8.2	BENCHTOP SPECTROSCOPES	102
8.2.1	GROWING NEED FOR COST-EFFECTIVE AND COMPACT SYSTEMS TO DRIVE MARKET	102
TABLE 45	BENCHTOP SPECTROSCOPES: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2020-2023 (USD MILLION)	103
TABLE 46	BENCHTOP SPECTROSCOPES: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2024-2029 (USD MILLION)	103
TABLE 47	BENCHTOP SPECTROSCOPES: IR SPECTROSCOPY MARKET, BY TYPE, 2020-2023 (USD MILLION)	104
TABLE 48	BENCHTOP SPECTROSCOPES: IR SPECTROSCOPY MARKET, BY TYPE, 2024-2029 (USD MILLION)	104
8.3	MICRO SPECTROSCOPES	104
8.3.1	FORENSIC SCIENCE AND TISSUE ENGINEERING APPLICATIONS TO DRIVE MARKET	104
TABLE 49	MICRO SPECTROSCOPES: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2020-2023 (USD MILLION)	105
TABLE 50	MICRO SPECTROSCOPES: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2024-2029 (USD MILLION)	105
TABLE 51	MICRO SPECTROSCOPES: IR SPECTROSCOPY MARKET, BY TYPE, 2020-2023 (USD MILLION)	105
TABLE 52	MICRO SPECTROSCOPES: IR SPECTROSCOPY MARKET, BY TYPE, 2024-2029 (USD MILLION)	106
8.4	PORTABLE SPECTROSCOPES	106
8.4.1	EASE OF USE FOR NON-TECHNICAL OPERATORS TO DRIVE MARKET	106
TABLE 53	PORTABLE SPECTROSCOPES: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2020-2023 (USD MILLION)	106
TABLE 54	PORTABLE SPECTROSCOPES: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2024-2029 (USD MILLION)	107
TABLE 55	PORTABLE SPECTROSCOPES: IR SPECTROSCOPY MARKET, BY TYPE, 2020-2023 (USD MILLION)	107
TABLE 56	PORTABLE SPECTROSCOPES: IR SPECTROSCOPY MARKET, BY TYPE, 2024-2029 (USD MILLION)	107
8.5	HYPHENATED SPECTROSCOPES	107
8.5.1	INCREASING NEED FOR HIGH-THROUGHPUT ANALYSIS IN VARIOUS INDUSTRIES TO DRIVE MARKET	107

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

TABLE 57	HYPHENATED SPECTROSCOPES: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2020-2023 (USD MILLION)	108
TABLE 58	HYPHENATED SPECTROSCOPES: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2024-2029 (USD MILLION)	108
TABLE 59	HYPHENATED SPECTROSCOPES: IR SPECTROSCOPY MARKET, BY TYPE, 2020-2023 (USD MILLION)	108
TABLE 60	HYPHENATED SPECTROSCOPES: IR SPECTROSCOPY MARKET, BY TYPE, 2024-2029 (USD MILLION)	109
9	IR SPECTROSCOPY MARKET, BY END USER	110
9.1	INTRODUCTION	111
FIGURE 46	IR SPECTROSCOPY MARKET, BY END USER, 2024-2029 (USD MILLION)	111
TABLE 61	IR SPECTROSCOPY MARKET, BY END USER, 2020-2023 (USD MILLION)	111
TABLE 62	IR SPECTROSCOPY MARKET, BY END USER, 2024-2029 (USD MILLION)	112
9.2	HEALTHCARE & PHARMACEUTICALS	112
9.2.1	RIISING USE IN DIAGNOSTIC AND THERAPEUTIC APPLICATIONS TO DRIVE MARKET	112
TABLE 63	HEALTHCARE & PHARMACEUTICALS: IR SPECTROSCOPY MARKET, BY REGION, 2020-2023 (USD MILLION)	113
TABLE 64	HEALTHCARE & PHARMACEUTICALS: IR SPECTROSCOPY MARKET, BY REGION, 2024-2029 (USD MILLION)	113
TABLE 65	HEALTHCARE & PHARMACEUTICALS: IR SPECTROSCOPY MARKET, BY TYPE, 2020-2023 (USD MILLION)	114
TABLE 66	HEALTHCARE & PHARMACEUTICALS: IR SPECTROSCOPY MARKET, BY TYPE, 2024-2029 (USD MILLION)	114
TABLE 67	HEALTHCARE & PHARMACEUTICALS: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2020-2023 (USD MILLION)	114
TABLE 68	HEALTHCARE & PHARMACEUTICALS: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2024-2029 (USD MILLION)	114
9.3	CHEMICALS	115
9.3.1	INCREASING NEED TO IDENTIFY MOLECULAR CHARACTERISTICS FOR VARIOUS APPLICATIONS TO DRIVE MARKET	115
TABLE 69	CHEMICALS: IR SPECTROSCOPY MARKET, BY REGION, 2020-2023 (USD MILLION)	115
TABLE 70	CHEMICALS: IR SPECTROSCOPY MARKET, BY REGION, 2024-2029 (USD MILLION)	116
TABLE 71	CHEMICALS: IR SPECTROSCOPY MARKET, BY TYPE, 2020-2023 (USD MILLION)	116
TABLE 72	CHEMICALS: IR SPECTROSCOPY MARKET, BY TYPE, 2024-2029 (USD MILLION)	116
TABLE 73	CHEMICALS: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2020-2023 (USD MILLION)	116
TABLE 74	CHEMICALS: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2024-2029 (USD MILLION)	117
9.4	FOOD & BEVERAGES	117
9.4.1	GROWING NEED TO ASSESS QUALITY AND SAFETY OF FOOD & BEVERAGES TO DRIVE MARKET	117
TABLE 75	FOOD & BEVERAGES: IR SPECTROSCOPY MARKET, BY REGION, 2020-2023 (USD MILLION)	118
TABLE 76	FOOD & BEVERAGES: IR SPECTROSCOPY MARKET, BY REGION, 2024-2029 (USD MILLION)	118
TABLE 77	FOOD & BEVERAGES: IR SPECTROSCOPY MARKET, BY TYPE, 2020-2023 (USD MILLION)	118
TABLE 78	FOOD & BEVERAGES: IR SPECTROSCOPY MARKET, BY TYPE, 2024-2029 (USD MILLION)	118
TABLE 79	FOOD & BEVERAGES: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2020-2023 (USD MILLION)	119
TABLE 80	FOOD & BEVERAGES: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2024-2029 (USD MILLION)	119
9.5	ENVIRONMENTAL	119
9.5.1	SURGE IN NEED TO DETECT AND QUANTIFY AIR, WATER, AND SOIL POLLUTANTS TO DRIVE MARKET	119
TABLE 81	ENVIRONMENTAL: IR SPECTROSCOPY MARKET, BY REGION, 2020-2023 (USD MILLION)	120
TABLE 82	ENVIRONMENTAL: IR SPECTROSCOPY MARKET, BY REGION, 2024-2029 (USD MILLION)	120
TABLE 83	ENVIRONMENTAL: IR SPECTROSCOPY MARKET, BY TYPE, 2020-2023 (USD MILLION)	120
TABLE 84	ENVIRONMENTAL: IR SPECTROSCOPY MARKET, BY TYPE, 2024-2029 (USD MILLION)	120
TABLE 85	ENVIRONMENTAL: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2020-2023 (USD MILLION)	121
TABLE 86	ENVIRONMENTAL: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2024-2029 (USD MILLION)	121
9.6	BIOMEDICAL RESEARCH & BIOMATERIALS	121
9.6.1	GROWING TECHNOLOGICAL ADVANCEMENTS IN PROTEOMICS AND GENOMICS TO DRIVE MARKET	121
TABLE 87	BIOMEDICAL RESEARCH & BIOMATERIALS: IR SPECTROSCOPY MARKET, BY REGION, 2020-2023 (USD MILLION)	121
TABLE 88	BIOMEDICAL RESEARCH & BIOMATERIALS: IR SPECTROSCOPY MARKET, BY REGION, 2024-2029 (USD MILLION)	122
TABLE 89	BIOMEDICAL RESEARCH & BIOMATERIALS: IR SPECTROSCOPY MARKET, BY TYPE, 2020-2023 (USD MILLION)	122
TABLE 90	BIOMEDICAL RESEARCH & BIOMATERIALS: IR SPECTROSCOPY MARKET, BY TYPE, 2024-2029 (USD MILLION)	122

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

TABLE 91	BIOMEDICAL RESEARCH & BIOMATERIALS: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2020-2023 (USD MILLION)	122
TABLE 92	BIOMEDICAL RESEARCH & BIOMATERIALS: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2024-2029 (USD MILLION)	123
9.7	CONSUMER ELECTRONICS	123
9.7.1	INCREASING INTEGRATION IN MOBILE DEVICES TO DRIVE MARKET	123
TABLE 93	CONSUMER ELECTRONICS: IR SPECTROSCOPY MARKET, BY REGION, 2020-2023 (USD MILLION)	123
TABLE 94	CONSUMER ELECTRONICS: IR SPECTROSCOPY MARKET, BY REGION, 2024-2029 (USD MILLION)	124
TABLE 95	CONSUMER ELECTRONICS: IR SPECTROSCOPY MARKET, BY TYPE, 2020-2023 (USD MILLION)	124
TABLE 96	CONSUMER ELECTRONICS: IR SPECTROSCOPY MARKET, BY TYPE, 2024-2029 (USD MILLION)	124
TABLE 97	CONSUMER ELECTRONICS: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2020-2023 (USD MILLION)	124
TABLE 98	CONSUMER ELECTRONICS: IR SPECTROSCOPY MARKET, BY TECHNOLOGY, 2024-2029 (USD MILLION)	125
10	IR SPECTROSCOPY MARKET, BY REGION	126
10.1	INTRODUCTION	127
FIGURE 47	IR SPECTROSCOPY MARKET, BY REGION, 2024-2029 (USD MILLION)	127
TABLE 99	IR SPECTROSCOPY MARKET, BY REGION, 2020-2023 (USD MILLION)	127
TABLE 100	IR SPECTROSCOPY MARKET, BY REGION, 2024-2029 (USD MILLION)	128
10.2	NORTH AMERICA	129
FIGURE 48	NORTH AMERICA: IR SPECTROSCOPY MARKET SNAPSHOT	129
10.2.1	RECESSION IMPACT ANALYSIS	129
TABLE 101	NORTH AMERICA: IR SPECTROSCOPY MARKET, BY COUNTRY, 2020-2023 (USD MILLION)	130
TABLE 102	NORTH AMERICA: IR SPECTROSCOPY MARKET, BY COUNTRY, 2024-2029 (USD MILLION)	130
TABLE 103	NORTH AMERICA: IR SPECTROSCOPY MARKET, BY END USER, 2020-2023 (USD MILLION)	130
TABLE 104	NORTH AMERICA: IR SPECTROSCOPY MARKET, BY END USER, 2024-2029 (USD MILLION)	131
10.2.2	US	131
10.2.2.1	Surge in healthcare spending to drive market	131
10.2.3	CANADA	131
10.2.3.1	Growing focus on reviving aircraft manufacturing to drive market	131
10.2.4	MEXICO	132
10.2.4.1	Increasing need to monitor air quality to drive market	132
10.3	EUROPE	132
FIGURE 49	EUROPE: IR SPECTROSCOPY MARKET SNAPSHOT	133
10.3.1	RECESSION IMPACT ANALYSIS	133
TABLE 105	EUROPE: IR SPECTROSCOPY MARKET, BY COUNTRY, 2020-2023 (USD MILLION)	134
TABLE 106	EUROPE: IR SPECTROSCOPY MARKET, BY COUNTRY, 2024-2029 (USD MILLION)	134
TABLE 107	EUROPE: IR SPECTROSCOPY MARKET, BY END USER, 2020-2023 (USD MILLION)	134
TABLE 108	EUROPE: IR SPECTROSCOPY MARKET, BY END USER, 2024-2029 (USD MILLION)	135
10.3.2	UK	135
10.3.2.1	Growing emphasis by government on adopting IR spectroscopy technology to drive market	135
10.3.3	GERMANY	135
10.3.3.1	Increasing shift toward climate-neutral mobility to drive market	135
10.3.4	FRANCE	136
10.3.4.1	Biomedical and food & beverages applications to drive market	136
10.3.5	ITALY	136
10.3.5.1	Surge in presence of laboratories specializing in IR spectroscopy to drive market	136
10.3.6	REST OF EUROPE	136
10.4	ASIA PACIFIC	137
FIGURE 50	ASIA PACIFIC: IR SPECTROSCOPY MARKET SNAPSHOT	137
10.4.1	RECESSION IMPACT ANALYSIS	138

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

TABLE 109	ASIA PACIFIC: IR SPECTROSCOPY MARKET, BY COUNTRY, 2020-2023 (USD MILLION)	138
TABLE 110	ASIA PACIFIC: IR SPECTROSCOPY MARKET, BY COUNTRY, 2024-2029 (USD MILLION)	138
TABLE 111	ASIA PACIFIC: IR SPECTROSCOPY MARKET, BY END USER, 2020-2023 (USD MILLION)	138
TABLE 112	ASIA PACIFIC: IR SPECTROSCOPY MARKET, BY END USER, 2024-2029 (USD MILLION)	139
10.4.2	CHINA	139
10.4.2.1	Growing use in security and surveillance applications to drive market	139
10.4.3	JAPAN	139
10.4.3.1	Growing demand for monitoring manufacturing processes to drive market	139
10.4.4	INDIA	140
10.4.4.1	Increased funding for scientific study to drive market	140
10.4.5	SOUTH KOREA	140
10.4.5.1	Booming semiconductors industry to drive market	140
10.4.6	REST OF ASIA PACIFIC	141
10.5	REST OF THE WORLD	141
10.5.1	RECESSION IMPACT ANALYSIS	141
TABLE 113	REST OF THE WORLD: IR SPECTROSCOPY MARKET, BY REGION, 2020-2023 (USD MILLION)	141
TABLE 114	REST OF THE WORLD: IR SPECTROSCOPY MARKET, BY REGION, 2024-2029 (USD MILLION)	142
TABLE 115	REST OF THE WORLD: IR SPECTROSCOPY MARKET, BY END USER, 2020-2023 (USD MILLION)	142
TABLE 116	REST OF THE WORLD: IR SPECTROSCOPY MARKET, BY END USER, 2024-2029 (USD MILLION)	142
10.5.2	SOUTH AMERICA	143
10.5.2.1	Increasing adoption of IR spectroscopy technology by sportspersons and medical professionals to drive market	143
10.5.3	MIDDLE EAST & AFRICA	143
TABLE 117	MIDDLE EAST & AFRICA: IR SPECTROSCOPY MARKET, BY REGION, 2020-2023 (USD MILLION)	143
TABLE 118	MIDDLE EAST & AFRICA: IR SPECTROSCOPY MARKET, BY REGION, 2024-2029 (USD MILLION)	143
10.5.3.1	GCC	144
10.5.3.1.1	Rising adoption of IR spectrometers by research institutes, distributors, and universities to drive market	144
10.5.3.2	Rest of Middle East & Africa	144
11	COMPETITIVE LANDSCAPE	145
11.1	OVERVIEW	145
11.2	STRATEGIES ADOPTED BY KEY PLAYERS	145
TABLE 119	STRATEGIES ADOPTED BY KEY PLAYERS	145
11.2.1	PRODUCT PORTFOLIO	147
11.2.2	REGIONAL FOCUS	147
11.2.3	MANUFACTURING FOOTPRINT	147
11.2.4	ORGANIC/INORGANIC GROWTH STRATEGIES	147
11.3	MARKET SHARE ANALYSIS	148
FIGURE 51	MARKET SHARE ANALYSIS, 2023	148
TABLE 120	DEGREE OF COMPETITION, 2023	148
11.4	REVENUE ANALYSIS	149
FIGURE 52	REVENUE ANALYSIS, 2019-2023	149
11.5	COMPANY VALUATION AND FINANCIAL METRICS	149
FIGURE 53	COMPANY VALUATION	149
FIGURE 54	FINANCIAL METRICS	150
11.6	BRAND COMPARISON	150
FIGURE 55	BRAND COMPARISON	150
11.7	COMPANY EVALUATION MATRIX: KEY PLAYERS	151
11.7.1	STARS	151

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

11.7.2	EMERGING LEADERS	151
11.7.3	PERVASIVE PLAYERS	151
11.7.4	PARTICIPANTS	151
FIGURE 56	IR SPECTROSCOPY MARKET: COMPANY EVALUATION MATRIX, 2023	152
11.7.5	COMPANY FOOTPRINT	153
FIGURE 57	IR SPECTROSCOPY MARKET: COMPANY FOOTPRINT	153
TABLE 121	IR SPECTROSCOPY MARKET: PRODUCT TYPE FOOTPRINT	154
TABLE 122	IR SPECTROSCOPY MARKET: TYPE FOOTPRINT	155
TABLE 123	IR SPECTROSCOPY MARKET: TECHNOLOGY FOOTPRINT	156
TABLE 124	IR SPECTROSCOPY MARKET: END USER FOOTPRINT	157
TABLE 125	IR SPECTROSCOPY MARKET: REGION FOOTPRINT	158
11.8	COMPANY EVALUATION MATRIX: STARTUPS/SMES	159
11.8.1	PROGRESSIVE COMPANIES	159
11.8.2	RESPONSIVE COMPANIES	159
11.8.3	DYNAMIC COMPANIES	159
11.8.4	STARTING BLOCKS	159
FIGURE 58	IR SPECTROSCOPY MARKET: STARTUP/SME EVALUATION MATRIX, 2023	160
11.8.5	COMPETITIVE BENCHMARKING	161
TABLE 126	IR SPECTROSCOPY MARKET: KEY STARTUPS/SMES	161
TABLE 127	IR SPECTROSCOPY MARKET: COMPETITIVE BENCHMARKING	162
11.9	COMPETITIVE SCENARIOS AND TRENDS	163
11.9.1	PRODUCT LAUNCHES	163
TABLE 128	IR SPECTROSCOPY MARKET: PRODUCT LAUNCHES, JANUARY 2020-FEBRUARY 2024	163
11.9.2	DEALS	164
TABLE 129	IR SPECTROSCOPY MARKET: DEALS, JANUARY 2020-FEBRUARY 2024	164
?		
12	COMPANY PROFILES	166
(Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats))*		
12.1	KEY PLAYERS	166
12.1.1	SHIMADZU CORPORATION	166
TABLE 130	SHIMADZU CORPORATION: COMPANY OVERVIEW	166
FIGURE 59	SHIMADZU CORPORATION: COMPANY SNAPSHOT	167
TABLE 131	SHIMADZU CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED	168
TABLE 132	SHIMADZU CORPORATION: PRODUCT LAUNCHES	170
TABLE 133	SHIMADZU CORPORATION: DEALS	170
12.1.2	AGILENT TECHNOLOGIES, INC.	172
TABLE 134	AGILENT TECHNOLOGIES, INC.: COMPANY OVERVIEW	172
FIGURE 60	AGILENT TECHNOLOGIES, INC.: COMPANY SNAPSHOT	173
TABLE 135	AGILENT TECHNOLOGIES, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED	173
TABLE 136	AGILENT TECHNOLOGIES, INC.: PRODUCT LAUNCHES	175
TABLE 137	AGILENT TECHNOLOGIES, INC.: DEALS	175
12.1.3	BRUKER	177
TABLE 138	BRUKER: COMPANY OVERVIEW	177
FIGURE 61	BRUKER: COMPANY SNAPSHOT	178
TABLE 139	BRUKER: PRODUCTS/SOLUTIONS/SERVICES OFFERED	179
TABLE 140	BRUKER: PRODUCT LAUNCHES	181

12.1.4	HORIBA, LTD.	183
TABLE 141	HORIBA, LTD.: COMPANY OVERVIEW	183
FIGURE 62	HORIBA, LTD.: COMPANY SNAPSHOT	184
TABLE 142	HORIBA, LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED	184
12.1.5	PERKINELMER INC.	187
TABLE 143	PERKINELMER INC.: COMPANY OVERVIEW	187
FIGURE 63	PERKINELMER INC.: COMPANY SNAPSHOT	188
TABLE 144	PERKINELMER INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED	188
TABLE 145	PERKINELMER INC.: PRODUCT LAUNCHES	191
TABLE 146	PERKINELMER INC.: DEALS	191
12.1.6	ZEISS	193
TABLE 147	ZEISS: COMPANY OVERVIEW	193
FIGURE 64	ZEISS: COMPANY SNAPSHOT	194
TABLE 148	ZEISS: PRODUCTS/SOLUTIONS/SERVICES OFFERED	195
TABLE 149	ZEISS: PRODUCT LAUNCHES	196
12.1.7	ABB	197
TABLE 150	ABB: COMPANY OVERVIEW	197
FIGURE 65	ABB: COMPANY SNAPSHOT	198
TABLE 151	ABB: PRODUCTS/SOLUTIONS/SERVICES OFFERED	198
12.1.8	THERMO FISHER SCIENTIFIC INC.	200
TABLE 152	THERMO FISHER SCIENTIFIC INC.: COMPANY OVERVIEW	200
FIGURE 66	THERMO FISHER SCIENTIFIC INC.: COMPANY SNAPSHOT	201
TABLE 153	THERMO FISHER SCIENTIFIC INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED	202
12.1.9	SARTORIUS AG	203
TABLE 154	SARTORIUS AG: COMPANY OVERVIEW	203
FIGURE 67	SARTORIUS AG: COMPANY SNAPSHOT	204
TABLE 155	SARTORIUS AG: PRODUCTS/SOLUTIONS/SERVICES OFFERED	205
TABLE 156	SARTORIUS AG: DEALS	206
12.1.10	HITACHI HIGH-TECH CORPORATION	207
TABLE 157	HITACHI HIGH-TECH CORPORATION: COMPANY OVERVIEW	207
TABLE 158	HITACHI HIGH-TECH CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED	207
12.2	OTHER PLAYERS	210
12.2.1	OXFORD INSTRUMENTS	210
TABLE 159	OXFORD INSTRUMENTS: COMPANY OVERVIEW	210
12.2.2	JASCO	211
TABLE 160	JASCO: COMPANY OVERVIEW	211
12.2.3	TELEDYNE PRINCETON INSTRUMENTS	212
TABLE 161	TELEDYNE PRINCETON INSTRUMENTS: COMPANY OVERVIEW	212
12.2.4	FOSS	213
TABLE 162	FOSS: COMPANY OVERVIEW	213
12.2.5	LUMEX INSTRUMENTS	214
TABLE 163	LUMEX INSTRUMENTS: COMPANY OVERVIEW	214
12.2.6	SPECTRA ANALYSIS INSTRUMENTS, INC.	214
TABLE 164	SPECTRA ANALYSIS INSTRUMENTS, INC.: COMPANY OVERVIEW	214
12.2.7	GALAXY SCIENTIFIC	215
TABLE 165	GALAXY SCIENTIFIC: COMPANY OVERVIEW	215
12.2.8	MICROPTIK	216

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

TABLE 166	MICROPTIK: COMPANY OVERVIEW	216
12.2.9	ISBEN PHOTONICS	217
TABLE 167	ISBEN PHOTONICS: COMPANY OVERVIEW	217
12.2.10	BAYSPEC	217
TABLE 168	BAYSPEC: COMPANY OVERVIEW	217
12.2.11	METROHM AG	218
TABLE 169	METROHM AG: COMPANY OVERVIEW	218
12.2.12	BRISTOL INSTRUMENTS	218
TABLE 170	BRISTOL INSTRUMENTS: COMPANY OVERVIEW	218
12.2.13	COLE-PARMER INSTRUMENT COMPANY, LLC	219
TABLE 171	COLE-PARMER INSTRUMENT COMPANY, LLC: COMPANY OVERVIEW	219
12.2.14	SCIEX	219
TABLE 172	SCIEX: COMPANY OVERVIEW	219
12.2.15	BRAINBOX LTD.	220
TABLE 173	BRAINBOX LTD.: COMPANY OVERVIEW	220
*Details on Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.		
13	APPENDIX	221
13.1	INSIGHTS FROM INDUSTRY EXPERTS	221
13.2	DISCUSSION GUIDE	221
13.3	KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL	224
13.4	CUSTOMIZATION OPTIONS	226
13.5	RELATED REPORTS	226
13.6	AUTHOR DETAILS	227

IR Spectroscopy Market by Technology (FTIR, Dispersive IR), Type (Near-infrared Spectroscopy, Mid-infrared Spectroscopy), Product Type (Benchtop Spectroscopes), End-user Industry (Healthcare & Pharmaceutical, Chemicals) - Global Forecast to 2029

Market Report | 2024-04-03 | 220 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