

Visible Light Range Scientific Camera Market Report: Trends, Forecast and Competitive Analysis to 2030

<https://marketpublishers.com/r/V9C9FED16FCCEN.html>

Date: September 2023

Pages: 150

Price: US\$ 4,850.00 (Single User License)

ID: V9C9FED16FCCEN

Abstracts

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Visible Light Range Scientific Camera Trends and Forecast

The future of the global visible light range scientific camera market looks promising with opportunities in the life science, industrial, security and surveillance, and space applications. The global visible light range scientific camera market is expected to reach an estimated \$0.8 billion by 2030 with a CAGR of 8.2% from 2024 to 2030. The major drivers for this market are growing number of surgical operations, escalating need for these cameras to support accurate and detailed imaging in the healthcare and life sciences sector ,and rising preference for hyperspectral imaging.

A more than 150-page report is developed to help in your business decisions. Sample figures with some insights are shown below.

Visible Light Range Scientific Camera by Segment

The study includes a forecast for the global visible light range scientific camera by type, camera resolution, application, technology, and region

Visible Light Range Scientific Camera Market by Type [Shipment Analysis by Value from 2018 to 2030]:

sCMOS

sCMOS

CCD

CCD

EMCCD

Visible Light Range Scientific Camera Market by Camera Resolution [Shipment Analysis by Value from 2018 to 2030]:

Below 4 MP

4 MP to 5MP

6 MP to 9 MP

Above 9 MP

Visible Light Range Scientific Camera Market by Application [Shipment Analysis by Value from 2018 to 2030]:

Life Science

Industrial

Security and Surveillance

Space

Visible Light Range Scientific Camera Market by Region [Shipment Analysis by Value from 2018 to 2030]:

North America

Europe

Asia Pacific

The Rest of the World

List of Visible Light Range Scientific Camera Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies visible light range scientific camera companies cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the visible light range scientific camera companies profiled in this report include-

Atik Cameras

Diffraction

Excelitas PCO

Hamamatsu Photonics Thorlabs

Horiba Scientific

IDEX Health & Science

Meiji Techno

Oxford Instruments

Photonic Science

Raptor Photonics

Visible Light Range Scientific Camera Market Insights

Lucintel forecast that scmos is expected to witness highest growth over the forecast

period due to its various offerings such as quick frame rates, incredibly low noise levels, broaden field of view, and extended dynamic range with high resolution.

Life science will remain the largest segment due to widespread use of vlsrc in this sector for various applications and diagnoses, such as microscopy, imaging, and spectroscopy.

North America is expected to witness highest growth over the forecast period due to favorable funding in the scientific research sector, significant demand for microscopy and x-ray in medicals, and presence of key manufacturers in the region.

Features of the Global Visible Light Range Scientific Camera Market

Market Size Estimates: Visible Light Range Scientific Camera Market size estimation in terms of value (\$B).

Trend and Forecast Analysis: Market trends (2018 to 2023) and forecast (2024 to 2030) by various segments and regions.

Segmentation Analysis: Visible Light Range Scientific Camera Market size by type, camera resolution, application, and region in terms of value (\$B).

Regional Analysis: Visible Light Range Scientific Camera Market breakdown by North America, Europe, Asia Pacific, and Rest of the World.

Growth Opportunities: Analysis of growth opportunities in different type, camera resolution, application, and regions for the visible light range scientific camera market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape of the visible light range scientific camera market.

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

FAQ

Q.1 What is the visible light range scientific camera market size?

Answer: The global visible light range scientific camera market is expected to reach an estimated \$0.8 billion by 2030.

Q.2 What is the growth forecast for visible light range scientific camera market?

Answer: The global visible light range scientific camera market is expected to grow with a CAGR of 8.2% from 2024 to 2030.

Q.3 What are the major drivers influencing the growth of the visible light range scientific camera market?

Answer: The major drivers for this market are growing number of surgical operations, escalating need for these cameras to support accurate and detailed imaging in the healthcare and life sciences sector, and rising preference for hyperspectral imaging .

Q4. What are the major segments for visible light range scientific camera market?

Answer: The future of the visible light range scientific camera market looks promising with opportunities in the life science, industrial, security and surveillance, and space applications.

Q5. Who are the key Visible Light Range Scientific Camera Market companies?

Answer: Some of the key visible light range scientific camera companies are as follows:

Atik Cameras

Diffraction

Excelitas PCO

Hamamatsu Photonics Thorlabs

Horiba Scientific

IDEX Health & Science

Meiji Techno

Oxford Instruments

Photonic Science

Raptor Photonics

Q6. Which visible light range scientific camera market segment will be the largest in future?

Answer: Lucintel forecast that sCMOS is expected to witness highest growth over the forecast period due to its various offerings such as quick frame rates, incredibly low noise levels, broaden field of view, and extended dynamic range with high resolution.

Q7. In visible light range scientific camera market, which region is expected to be the largest in next 5 years?

Answer: North America is expected to witness highest growth over the forecast period due to favorable funding in the scientific research sector, significant demand for microscopy and x-ray in medicals, and presence of key manufacturers in the region.

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Answer: Yes, Lucintel provides 10% customization without any additional cost.

This report answers following 11 key questions:

Q.1. What are some of the most promising, high-growth opportunities for the visible light range scientific camera market by type (sCMOS, CMOS, CCD, CCD, and EMCCD), camera resolution (below 4 MP, 4 MP to 5MP, 6 MP to 9 MP, and above 9 MP), application (life science, industrial, security and surveillance, and space), and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2. Which segments will grow at a faster pace and why?

Q.3. Which region will grow at a faster pace and why?

Q.4. What are the key factors affecting market dynamics? What are the key challenges and business risks in this market?

Q.5. What are the business risks and competitive threats in this market?

Q.6. What are the emerging trends in this market and the reasons behind them?

Q.7. What are some of the changing demands of customers in the market?

Q.8. What are the new developments in the market? Which companies are leading these developments?

Q.9. Who are the major players in this market? What strategic initiatives are key players pursuing for business growth?

Q.10. What are some of the competing products in this market and how big of a threat do they pose for loss of market share by material or product substitution?

Q.11. What M&A activity has occurred in the last 5 years and what has its impact been on the industry?

For any questions related to visible light range scientific camera market or related to visible light range scientific camera companies, visible light range scientific camera market size, visible light range scientific camera market share, visible light range scientific camera market growth, visible light range scientific camera market research, write Lucintel analyst at email: helpdesk@lucintel.com we will be glad to get back to you soon.

Contents

1. EXECUTIVE SUMMARY

2. GLOBAL VISIBLE LIGHT RANGE SCIENTIFIC CAMERA MARKET: MARKET DYNAMICS

2.1: Introduction, Background, and Classifications

2.2: Supply Chain

2.3: Industry Drivers and Challenges

3. MARKET TRENDS AND FORECAST ANALYSIS FROM 2018 TO 2030

3.1. Macroeconomic Trends (2018-2023) and Forecast (2024-2030)

3.2. Global Visible Light Range Scientific Camera Market Trends (2018-2023) and Forecast (2024-2030)

3.3: Global Visible Light Range Scientific Camera Market by Type

3.3.1: sCMOS

3.3.2: sCMOS

3.3.3: CCD

3.3.4: CCD

3.3.5: EMCCD

3.4: Global Visible Light Range Scientific Camera Market by Camera Resolution

3.4.1: Below 4 MP

3.4.2: 4 MP to 5MP

3.4.3: 6 MP to 9 MP

3.4.4: Above 9 MP

3.5: Global Visible Light Range Scientific Camera Market by Application

3.5.1: Life Science

3.5.2: Industrial

3.5.3: Security and Surveillance

3.5.4: Space

4. MARKET TRENDS AND FORECAST ANALYSIS BY REGION FROM 2018 TO 2030

4.1: Global Visible Light Range Scientific Camera Market by Region

4.2: North American Visible Light Range Scientific Camera Market

4.2.1: North American Visible Light Range Scientific Camera Market by Type: sCMOS,

sCMOS, CCD, CCD, and EMCCD

4.2.2: North American Visible Light Range Scientific Camera Market by Application: Life Science, Industrial, Security and Surveillance, and Space

4.3: European Visible Light Range Scientific Camera Market

4.3.1: European Visible Light Range Scientific Camera Market by Type: sCMOS, sCMOS, CCD, CCD, and EMCCD

4.3.2: European Visible Light Range Scientific Camera Market by Application: Life Science, Industrial, Security and Surveillance, and Space

4.4: APAC Visible Light Range Scientific Camera Market

4.4.1: APAC Visible Light Range Scientific Camera Market by Type: sCMOS, sCMOS, CCD, CCD, and EMCCD

4.4.2: APAC Visible Light Range Scientific Camera Market by Application: Life Science, Industrial, Security and Surveillance, and Space

4.5: ROW Visible Light Range Scientific Camera Market

4.5.1: ROW Visible Light Range Scientific Camera Market by Type: sCMOS, sCMOS, CCD, CCD, and EMCCD

4.5.2: ROW Visible Light Range Scientific Camera Market by Application: Life Science, Industrial, Security and Surveillance, and Space

5. COMPETITOR ANALYSIS

5.1: Product Portfolio Analysis

5.2: Operational Integration

5.3: Porter's Five Forces Analysis

6. GROWTH OPPORTUNITIES AND STRATEGIC ANALYSIS

6.1: Growth Opportunity Analysis

6.1.1: Growth Opportunities for the Global Visible Light Range Scientific Camera Market by Type

6.1.2: Growth Opportunities for the Global Visible Light Range Scientific Camera Market by Camera Resolution

6.1.3: Growth Opportunities for the Global Visible Light Range Scientific Camera Market by Application

6.1.4: Growth Opportunities for the Global Visible Light Range Scientific Camera Market Region

6.2: Emerging Trends in the Global Visible Light Range Scientific Camera Market

6.3: Strategic Analysis

6.3.1: New Product Development

6.3.2: Capacity Expansion of the Global Visible Light Range Scientific Camera Market

6.3.3: Mergers, Acquisitions, and Joint Ventures in the Global Visible Light Range Scientific Camera Market

6.3.4: Certification and Licensing

7. COMPANY PROFILES OF LEADING PLAYERS

7.1: Atik Cameras

7.2: Diffraction

7.3: Excelitas PCO

7.4: Hamamatsu Photonics Thorlabs

7.5: Horiba Scientific

7.6: IDEX Health & Science

7.7: Meiji Techno

7.8: Oxford Instruments

7.9: Photonic Science

7.10: Raptor Photonics

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