

Global Live Cell Quantitative Phase Imaging Camera Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Live Cell Quantitative Phase Imaging Camera market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

The quantitative phase imaging camera for living cells is an imaging device used to observe and analyze the phase information and morphological features of living cells. It combines phase imaging technology and quantitative analysis methods to obtain real-time and unlabeled phase information of cells, providing quantitative analysis of intracellular structures and activities. Live cell quantitative phase imaging cameras typically have the following characteristics and functions: phase imaging technology: phase imaging is an imaging technique that obtains phase information of samples by measuring the phase difference of light waves. The phase imaging camera utilizes the principle of optical interference to obtain phase information of cells by measuring the phase change of a beam passing through the sample, thereby achieving live cell imaging without staining and labeling. Real time imaging: The quantitative phase imaging camera for living cells can perform real-time imaging, which means obtaining the phase information of cells in real-time during the observation process and displaying it in the form of video or continuous frames. This allows researchers to observe and analyze the dynamic processes and temporal evolution of cells. Quantitative analysis: Phase imaging cameras can provide quantitative analysis of cells. By measuring the phase information of cells, quantitative measurements of cell morphology, intracellular structure (such as cell thickness, location and morphology of interfering particles, etc.), and quantitative analysis of cell activity (such as cell movement, cell cycle, etc.) can be performed. High resolution and high contrast: Live cell quantitative phase imaging cameras typically have imaging capabilities of high resolution and high contrast. They can provide clear cell images and effectively distinguish phase differences between

different regions within the cell. Data analysis and processing software: In order to further analyze and process the obtained image data, live cell quantitative phase imaging cameras are usually equipped with corresponding data analysis and processing software. These software can perform image reconstruction, phase extraction, Image registration, cell tracking and other operations to help researchers extract quantitative information about cells from phase images. Live cell quantitative phase imaging cameras have wide applications in biomedical research, cell biology, drug screening, tissue engineering, and other fields.

This report studies the global Live Cell Quantitative Phase Imaging Camera production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Live Cell Quantitative Phase Imaging Camera, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Live Cell Quantitative Phase Imaging Camera that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Live Cell Quantitative Phase Imaging Camera total production and demand, 2018-2029, (Units)

Global Live Cell Quantitative Phase Imaging Camera total production value, 2018-2029, (USD Million)

Global Live Cell Quantitative Phase Imaging Camera production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Live Cell Quantitative Phase Imaging Camera consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Live Cell Quantitative Phase Imaging Camera domestic production, consumption, key domestic manufacturers and share

Global Live Cell Quantitative Phase Imaging Camera production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global Live Cell Quantitative Phase Imaging Camera production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Live Cell Quantitative Phase Imaging Camera production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units).

This reports profiles key players in the global Live Cell Quantitative Phase Imaging Camera market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Zeiss, Olympus Corporation, Nikon Corporation, Leica Microsystems, Hamamatsu Photonics K.K., Andor Technology Ltd., PerkinElmer Inc., Thorlabs, Inc. and QImaging, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Live Cell Quantitative Phase Imaging Camera market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Live Cell Quantitative Phase Imaging Camera Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Live Cell Quantitative Phase Imaging Camera Market, Segmentation by Type

Uniform Field Phase Imaging Camera

Differential Interferometric Phase Imaging Camera

Digital Holographic Phase Imaging Camera

Optical Coherence Tomography Camera

Global Live Cell Quantitative Phase Imaging Camera Market, Segmentation by Application

Medical Industry

Life Sciences

Others

Companies Profiled:

Zeiss

Olympus Corporation

Nikon Corporation

Leica Microsystems

Hamamatsu Photonics K.K.

Andor Technology Ltd.

PerkinElmer Inc.

Thorlabs, Inc.

QImaging

PCO AG

Photometrics

Teledyne Photometrics

Princeton Instruments

Bruker Corporation

LaVision BioTec GmbH

Key Questions Answered

1. How big is the global Live Cell Quantitative Phase Imaging Camera market?
2. What is the demand of the global Live Cell Quantitative Phase Imaging Camera market?
3. What is the year over year growth of the global Live Cell Quantitative Phase Imaging Camera market?
4. What is the production and production value of the global Live Cell Quantitative Phase Imaging Camera market?
5. Who are the key producers in the global Live Cell Quantitative Phase Imaging Camera market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Live Cell Quantitative Phase Imaging Camera Introduction
- 1.2 World Live Cell Quantitative Phase Imaging Camera Supply & Forecast
 - 1.2.1 World Live Cell Quantitative Phase Imaging Camera Production Value (2018 & 2022 & 2029)
 - 1.2.2 World Live Cell Quantitative Phase Imaging Camera Production (2018-2029)
 - 1.2.3 World Live Cell Quantitative Phase Imaging Camera Pricing Trends (2018-2029)
- 1.3 World Live Cell Quantitative Phase Imaging Camera Production by Region (Based on Production Site)
 - 1.3.1 World Live Cell Quantitative Phase Imaging Camera Production Value by Region (2018-2029)
 - 1.3.2 World Live Cell Quantitative Phase Imaging Camera Production by Region (2018-2029)
 - 1.3.3 World Live Cell Quantitative Phase Imaging Camera Average Price by Region (2018-2029)
 - 1.3.4 North America Live Cell Quantitative Phase Imaging Camera Production (2018-2029)
 - 1.3.5 Europe Live Cell Quantitative Phase Imaging Camera Production (2018-2029)
 - 1.3.6 China Live Cell Quantitative Phase Imaging Camera Production (2018-2029)
 - 1.3.7 Japan Live Cell Quantitative Phase Imaging Camera Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Live Cell Quantitative Phase Imaging Camera Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Live Cell Quantitative Phase Imaging Camera Major Market Trends
- 1.5 Influence of COVID-19 and Russia-Ukraine War
 - 1.5.1 Influence of COVID-19
 - 1.5.2 Influence of Russia-Ukraine War

2 DEMAND SUMMARY

- 2.1 World Live Cell Quantitative Phase Imaging Camera Demand (2018-2029)
- 2.2 World Live Cell Quantitative Phase Imaging Camera Consumption by Region
 - 2.2.1 World Live Cell Quantitative Phase Imaging Camera Consumption by Region (2018-2023)
 - 2.2.2 World Live Cell Quantitative Phase Imaging Camera Consumption Forecast by Region (2024-2029)

2.3 United States Live Cell Quantitative Phase Imaging Camera Consumption (2018-2029)

2.4 China Live Cell Quantitative Phase Imaging Camera Consumption (2018-2029)

2.5 Europe Live Cell Quantitative Phase Imaging Camera Consumption (2018-2029)

2.6 Japan Live Cell Quantitative Phase Imaging Camera Consumption (2018-2029)

2.7 South Korea Live Cell Quantitative Phase Imaging Camera Consumption (2018-2029)

2.8 ASEAN Live Cell Quantitative Phase Imaging Camera Consumption (2018-2029)

2.9 India Live Cell Quantitative Phase Imaging Camera Consumption (2018-2029)

3 WORLD LIVE CELL QUANTITATIVE PHASE IMAGING CAMERA MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Live Cell Quantitative Phase Imaging Camera Production Value by Manufacturer (2018-2023)

3.2 World Live Cell Quantitative Phase Imaging Camera Production by Manufacturer (2018-2023)

3.3 World Live Cell Quantitative Phase Imaging Camera Average Price by Manufacturer (2018-2023)

3.4 Live Cell Quantitative Phase Imaging Camera Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Live Cell Quantitative Phase Imaging Camera Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Live Cell Quantitative Phase Imaging Camera in 2022

3.5.3 Global Concentration Ratios (CR8) for Live Cell Quantitative Phase Imaging Camera in 2022

3.6 Live Cell Quantitative Phase Imaging Camera Market: Overall Company Footprint Analysis

3.6.1 Live Cell Quantitative Phase Imaging Camera Market: Region Footprint

3.6.2 Live Cell Quantitative Phase Imaging Camera Market: Company Product Type Footprint

3.6.3 Live Cell Quantitative Phase Imaging Camera Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Live Cell Quantitative Phase Imaging Camera Production Value Comparison

4.1.1 United States VS China: Live Cell Quantitative Phase Imaging Camera Production Value Comparison (2018 & 2022 & 2029)

4.1.2 United States VS China: Live Cell Quantitative Phase Imaging Camera Production Value Market Share Comparison (2018 & 2022 & 2029)

4.2 United States VS China: Live Cell Quantitative Phase Imaging Camera Production Comparison

4.2.1 United States VS China: Live Cell Quantitative Phase Imaging Camera Production Comparison (2018 & 2022 & 2029)

4.2.2 United States VS China: Live Cell Quantitative Phase Imaging Camera Production Market Share Comparison (2018 & 2022 & 2029)

4.3 United States VS China: Live Cell Quantitative Phase Imaging Camera Consumption Comparison

4.3.1 United States VS China: Live Cell Quantitative Phase Imaging Camera Consumption Comparison (2018 & 2022 & 2029)

4.3.2 United States VS China: Live Cell Quantitative Phase Imaging Camera Consumption Market Share Comparison (2018 & 2022 & 2029)

4.4 United States Based Live Cell Quantitative Phase Imaging Camera Manufacturers and Market Share, 2018-2023

4.4.1 United States Based Live Cell Quantitative Phase Imaging Camera Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production Value (2018-2023)

4.4.3 United States Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production (2018-2023)

4.5 China Based Live Cell Quantitative Phase Imaging Camera Manufacturers and Market Share

4.5.1 China Based Live Cell Quantitative Phase Imaging Camera Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production Value (2018-2023)

4.5.3 China Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production (2018-2023)

4.6 Rest of World Based Live Cell Quantitative Phase Imaging Camera Manufacturers

and Market Share, 2018-2023

4.6.1 Rest of World Based Live Cell Quantitative Phase Imaging Camera Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production (2018-2023)

5 MARKET ANALYSIS BY TYPE

5.1 World Live Cell Quantitative Phase Imaging Camera Market Size Overview by Type: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Type

5.2.1 Uniform Field Phase Imaging Camera

5.2.2 Differential Interferometric Phase Imaging Camera

5.2.3 Digital Holographic Phase Imaging Camera

5.2.4 Optical Coherence Tomography Camera

5.3 Market Segment by Type

5.3.1 World Live Cell Quantitative Phase Imaging Camera Production by Type (2018-2029)

5.3.2 World Live Cell Quantitative Phase Imaging Camera Production Value by Type (2018-2029)

5.3.3 World Live Cell Quantitative Phase Imaging Camera Average Price by Type (2018-2029)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Live Cell Quantitative Phase Imaging Camera Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Medical Industry

6.2.2 Life Sciences

6.2.3 Others

6.3 Market Segment by Application

6.3.1 World Live Cell Quantitative Phase Imaging Camera Production by Application (2018-2029)

6.3.2 World Live Cell Quantitative Phase Imaging Camera Production Value by Application (2018-2029)

6.3.3 World Live Cell Quantitative Phase Imaging Camera Average Price by

Application (2018-2029)

7 COMPANY PROFILES

7.1 Zeiss

7.1.1 Zeiss Details

7.1.2 Zeiss Major Business

7.1.3 Zeiss Live Cell Quantitative Phase Imaging Camera Product and Services

7.1.4 Zeiss Live Cell Quantitative Phase Imaging Camera Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 Zeiss Recent Developments/Updates

7.1.6 Zeiss Competitive Strengths & Weaknesses

7.2 Olympus Corporation

7.2.1 Olympus Corporation Details

7.2.2 Olympus Corporation Major Business

7.2.3 Olympus Corporation Live Cell Quantitative Phase Imaging Camera Product and Services

7.2.4 Olympus Corporation Live Cell Quantitative Phase Imaging Camera Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 Olympus Corporation Recent Developments/Updates

7.2.6 Olympus Corporation Competitive Strengths & Weaknesses

7.3 Nikon Corporation

7.3.1 Nikon Corporation Details

7.3.2 Nikon Corporation Major Business

7.3.3 Nikon Corporation Live Cell Quantitative Phase Imaging Camera Product and Services

7.3.4 Nikon Corporation Live Cell Quantitative Phase Imaging Camera Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.3.5 Nikon Corporation Recent Developments/Updates

7.3.6 Nikon Corporation Competitive Strengths & Weaknesses

7.4 Leica Microsystems

7.4.1 Leica Microsystems Details

7.4.2 Leica Microsystems Major Business

7.4.3 Leica Microsystems Live Cell Quantitative Phase Imaging Camera Product and Services

7.4.4 Leica Microsystems Live Cell Quantitative Phase Imaging Camera Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.4.5 Leica Microsystems Recent Developments/Updates

7.4.6 Leica Microsystems Competitive Strengths & Weaknesses

7.5 Hamamatsu Photonics K.K.

7.5.1 Hamamatsu Photonics K.K. Details

7.5.2 Hamamatsu Photonics K.K. Major Business

7.5.3 Hamamatsu Photonics K.K. Live Cell Quantitative Phase Imaging Camera Product and Services

7.5.4 Hamamatsu Photonics K.K. Live Cell Quantitative Phase Imaging Camera Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.5.5 Hamamatsu Photonics K.K. Recent Developments/Updates

7.5.6 Hamamatsu Photonics K.K. Competitive Strengths & Weaknesses

7.6 Andor Technology Ltd.

7.6.1 Andor Technology Ltd. Details

7.6.2 Andor Technology Ltd. Major Business

7.6.3 Andor Technology Ltd. Live Cell Quantitative Phase Imaging Camera Product and Services

7.6.4 Andor Technology Ltd. Live Cell Quantitative Phase Imaging Camera Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.6.5 Andor Technology Ltd. Recent Developments/Updates

7.6.6 Andor Technology Ltd. Competitive Strengths & Weaknesses

7.7 PerkinElmer Inc.

7.7.1 PerkinElmer Inc. Details

7.7.2 PerkinElmer Inc. Major Business

7.7.3 PerkinElmer Inc. Live Cell Quantitative Phase Imaging Camera Product and Services

7.7.4 PerkinElmer Inc. Live Cell Quantitative Phase Imaging Camera Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.7.5 PerkinElmer Inc. Recent Developments/Updates

7.7.6 PerkinElmer Inc. Competitive Strengths & Weaknesses

7.8 Thorlabs, Inc.

7.8.1 Thorlabs, Inc. Details

7.8.2 Thorlabs, Inc. Major Business

7.8.3 Thorlabs, Inc. Live Cell Quantitative Phase Imaging Camera Product and Services

7.8.4 Thorlabs, Inc. Live Cell Quantitative Phase Imaging Camera Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.8.5 Thorlabs, Inc. Recent Developments/Updates

7.8.6 Thorlabs, Inc. Competitive Strengths & Weaknesses

7.9 QImaging

7.9.1 QImaging Details

7.9.2 QImaging Major Business

- 7.9.3 QImaging Live Cell Quantitative Phase Imaging Camera Product and Services
- 7.9.4 QImaging Live Cell Quantitative Phase Imaging Camera Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.9.5 QImaging Recent Developments/Updates
- 7.9.6 QImaging Competitive Strengths & Weaknesses
- 7.10 PCO AG
 - 7.10.1 PCO AG Details
 - 7.10.2 PCO AG Major Business
 - 7.10.3 PCO AG Live Cell Quantitative Phase Imaging Camera Product and Services
 - 7.10.4 PCO AG Live Cell Quantitative Phase Imaging Camera Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.10.5 PCO AG Recent Developments/Updates
 - 7.10.6 PCO AG Competitive Strengths & Weaknesses
- 7.11 Photometrics
 - 7.11.1 Photometrics Details
 - 7.11.2 Photometrics Major Business
 - 7.11.3 Photometrics Live Cell Quantitative Phase Imaging Camera Product and Services
 - 7.11.4 Photometrics Live Cell Quantitative Phase Imaging Camera Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.11.5 Photometrics Recent Developments/Updates
 - 7.11.6 Photometrics Competitive Strengths & Weaknesses
- 7.12 Teledyne Photometrics
 - 7.12.1 Teledyne Photometrics Details
 - 7.12.2 Teledyne Photometrics Major Business
 - 7.12.3 Teledyne Photometrics Live Cell Quantitative Phase Imaging Camera Product and Services
 - 7.12.4 Teledyne Photometrics Live Cell Quantitative Phase Imaging Camera Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.12.5 Teledyne Photometrics Recent Developments/Updates
 - 7.12.6 Teledyne Photometrics Competitive Strengths & Weaknesses
- 7.13 Princeton Instruments
 - 7.13.1 Princeton Instruments Details
 - 7.13.2 Princeton Instruments Major Business
 - 7.13.3 Princeton Instruments Live Cell Quantitative Phase Imaging Camera Product and Services
 - 7.13.4 Princeton Instruments Live Cell Quantitative Phase Imaging Camera Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.13.5 Princeton Instruments Recent Developments/Updates

- 7.13.6 Princeton Instruments Competitive Strengths & Weaknesses
- 7.14 Bruker Corporation
 - 7.14.1 Bruker Corporation Details
 - 7.14.2 Bruker Corporation Major Business
 - 7.14.3 Bruker Corporation Live Cell Quantitative Phase Imaging Camera Product and Services
 - 7.14.4 Bruker Corporation Live Cell Quantitative Phase Imaging Camera Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.14.5 Bruker Corporation Recent Developments/Updates
 - 7.14.6 Bruker Corporation Competitive Strengths & Weaknesses
- 7.15 LaVision BioTec GmbH
 - 7.15.1 LaVision BioTec GmbH Details
 - 7.15.2 LaVision BioTec GmbH Major Business
 - 7.15.3 LaVision BioTec GmbH Live Cell Quantitative Phase Imaging Camera Product and Services
 - 7.15.4 LaVision BioTec GmbH Live Cell Quantitative Phase Imaging Camera Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.15.5 LaVision BioTec GmbH Recent Developments/Updates
 - 7.15.6 LaVision BioTec GmbH Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

- 8.1 Live Cell Quantitative Phase Imaging Camera Industry Chain
- 8.2 Live Cell Quantitative Phase Imaging Camera Upstream Analysis
 - 8.2.1 Live Cell Quantitative Phase Imaging Camera Core Raw Materials
 - 8.2.2 Main Manufacturers of Live Cell Quantitative Phase Imaging Camera Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 Live Cell Quantitative Phase Imaging Camera Production Mode
- 8.6 Live Cell Quantitative Phase Imaging Camera Procurement Model
- 8.7 Live Cell Quantitative Phase Imaging Camera Industry Sales Model and Sales Channels
 - 8.7.1 Live Cell Quantitative Phase Imaging Camera Sales Model
 - 8.7.2 Live Cell Quantitative Phase Imaging Camera Typical Customers

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Live Cell Quantitative Phase Imaging Camera Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World Live Cell Quantitative Phase Imaging Camera Production Value by Region (2018-2023) & (USD Million)

Table 3. World Live Cell Quantitative Phase Imaging Camera Production Value by Region (2024-2029) & (USD Million)

Table 4. World Live Cell Quantitative Phase Imaging Camera Production Value Market Share by Region (2018-2023)

Table 5. World Live Cell Quantitative Phase Imaging Camera Production Value Market Share by Region (2024-2029)

Table 6. World Live Cell Quantitative Phase Imaging Camera Production by Region (2018-2023) & (Units)

Table 7. World Live Cell Quantitative Phase Imaging Camera Production by Region (2024-2029) & (Units)

Table 8. World Live Cell Quantitative Phase Imaging Camera Production Market Share by Region (2018-2023)

Table 9. World Live Cell Quantitative Phase Imaging Camera Production Market Share by Region (2024-2029)

Table 10. World Live Cell Quantitative Phase Imaging Camera Average Price by Region (2018-2023) & (US\$/Unit)

Table 11. World Live Cell Quantitative Phase Imaging Camera Average Price by Region (2024-2029) & (US\$/Unit)

Table 12. Live Cell Quantitative Phase Imaging Camera Major Market Trends

Table 13. World Live Cell Quantitative Phase Imaging Camera Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (Units)

Table 14. World Live Cell Quantitative Phase Imaging Camera Consumption by Region (2018-2023) & (Units)

Table 15. World Live Cell Quantitative Phase Imaging Camera Consumption Forecast by Region (2024-2029) & (Units)

Table 16. World Live Cell Quantitative Phase Imaging Camera Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key Live Cell Quantitative Phase Imaging Camera Producers in 2022

Table 18. World Live Cell Quantitative Phase Imaging Camera Production by Manufacturer (2018-2023) & (Units)

Table 19. Production Market Share of Key Live Cell Quantitative Phase Imaging Camera Producers in 2022

Table 20. World Live Cell Quantitative Phase Imaging Camera Average Price by Manufacturer (2018-2023) & (US\$/Unit)

Table 21. Global Live Cell Quantitative Phase Imaging Camera Company Evaluation Quadrant

Table 22. World Live Cell Quantitative Phase Imaging Camera Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and Live Cell Quantitative Phase Imaging Camera Production Site of Key Manufacturer

Table 24. Live Cell Quantitative Phase Imaging Camera Market: Company Product Type Footprint

Table 25. Live Cell Quantitative Phase Imaging Camera Market: Company Product Application Footprint

Table 26. Live Cell Quantitative Phase Imaging Camera Competitive Factors

Table 27. Live Cell Quantitative Phase Imaging Camera New Entrant and Capacity Expansion Plans

Table 28. Live Cell Quantitative Phase Imaging Camera Mergers & Acquisitions Activity

Table 29. United States VS China Live Cell Quantitative Phase Imaging Camera Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China Live Cell Quantitative Phase Imaging Camera Production Comparison, (2018 & 2022 & 2029) & (Units)

Table 31. United States VS China Live Cell Quantitative Phase Imaging Camera Consumption Comparison, (2018 & 2022 & 2029) & (Units)

Table 32. United States Based Live Cell Quantitative Phase Imaging Camera Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production (2018-2023) & (Units)

Table 36. United States Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production Market Share (2018-2023)

Table 37. China Based Live Cell Quantitative Phase Imaging Camera Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers Live Cell Quantitative Phase Imaging Camera

Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production (2018-2023) & (Units)

Table 41. China Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production Market Share (2018-2023)

Table 42. Rest of World Based Live Cell Quantitative Phase Imaging Camera Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production (2018-2023) & (Units)

Table 46. Rest of World Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production Market Share (2018-2023)

Table 47. World Live Cell Quantitative Phase Imaging Camera Production Value by Type, (USD Million), 2018 & 2022 & 2029

Table 48. World Live Cell Quantitative Phase Imaging Camera Production by Type (2018-2023) & (Units)

Table 49. World Live Cell Quantitative Phase Imaging Camera Production by Type (2024-2029) & (Units)

Table 50. World Live Cell Quantitative Phase Imaging Camera Production Value by Type (2018-2023) & (USD Million)

Table 51. World Live Cell Quantitative Phase Imaging Camera Production Value by Type (2024-2029) & (USD Million)

Table 52. World Live Cell Quantitative Phase Imaging Camera Average Price by Type (2018-2023) & (US\$/Unit)

Table 53. World Live Cell Quantitative Phase Imaging Camera Average Price by Type (2024-2029) & (US\$/Unit)

Table 54. World Live Cell Quantitative Phase Imaging Camera Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World Live Cell Quantitative Phase Imaging Camera Production by Application (2018-2023) & (Units)

Table 56. World Live Cell Quantitative Phase Imaging Camera Production by Application (2024-2029) & (Units)

Table 57. World Live Cell Quantitative Phase Imaging Camera Production Value by Application (2018-2023) & (USD Million)

Table 58. World Live Cell Quantitative Phase Imaging Camera Production Value by Application (2024-2029) & (USD Million)

Table 59. World Live Cell Quantitative Phase Imaging Camera Average Price by Application (2018-2023) & (US\$/Unit)

Table 60. World Live Cell Quantitative Phase Imaging Camera Average Price by Application (2024-2029) & (US\$/Unit)

Table 61. Zeiss Basic Information, Manufacturing Base and Competitors

Table 62. Zeiss Major Business

Table 63. Zeiss Live Cell Quantitative Phase Imaging Camera Product and Services

Table 64. Zeiss Live Cell Quantitative Phase Imaging Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. Zeiss Recent Developments/Updates

Table 66. Zeiss Competitive Strengths & Weaknesses

Table 67. Olympus Corporation Basic Information, Manufacturing Base and Competitors

Table 68. Olympus Corporation Major Business

Table 69. Olympus Corporation Live Cell Quantitative Phase Imaging Camera Product and Services

Table 70. Olympus Corporation Live Cell Quantitative Phase Imaging Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. Olympus Corporation Recent Developments/Updates

Table 72. Olympus Corporation Competitive Strengths & Weaknesses

Table 73. Nikon Corporation Basic Information, Manufacturing Base and Competitors

Table 74. Nikon Corporation Major Business

Table 75. Nikon Corporation Live Cell Quantitative Phase Imaging Camera Product and Services

Table 76. Nikon Corporation Live Cell Quantitative Phase Imaging Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Nikon Corporation Recent Developments/Updates

Table 78. Nikon Corporation Competitive Strengths & Weaknesses

Table 79. Leica Microsystems Basic Information, Manufacturing Base and Competitors

Table 80. Leica Microsystems Major Business

Table 81. Leica Microsystems Live Cell Quantitative Phase Imaging Camera Product and Services

Table 82. Leica Microsystems Live Cell Quantitative Phase Imaging Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 83. Leica Microsystems Recent Developments/Updates

Table 84. Leica Microsystems Competitive Strengths & Weaknesses

Table 85. Hamamatsu Photonics K.K. Basic Information, Manufacturing Base and Competitors

Table 86. Hamamatsu Photonics K.K. Major Business

Table 87. Hamamatsu Photonics K.K. Live Cell Quantitative Phase Imaging Camera Product and Services

Table 88. Hamamatsu Photonics K.K. Live Cell Quantitative Phase Imaging Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 89. Hamamatsu Photonics K.K. Recent Developments/Updates

Table 90. Hamamatsu Photonics K.K. Competitive Strengths & Weaknesses

Table 91. Andor Technology Ltd. Basic Information, Manufacturing Base and Competitors

Table 92. Andor Technology Ltd. Major Business

Table 93. Andor Technology Ltd. Live Cell Quantitative Phase Imaging Camera Product and Services

Table 94. Andor Technology Ltd. Live Cell Quantitative Phase Imaging Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 95. Andor Technology Ltd. Recent Developments/Updates

Table 96. Andor Technology Ltd. Competitive Strengths & Weaknesses

Table 97. PerkinElmer Inc. Basic Information, Manufacturing Base and Competitors

Table 98. PerkinElmer Inc. Major Business

Table 99. PerkinElmer Inc. Live Cell Quantitative Phase Imaging Camera Product and Services

Table 100. PerkinElmer Inc. Live Cell Quantitative Phase Imaging Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 101. PerkinElmer Inc. Recent Developments/Updates

Table 102. PerkinElmer Inc. Competitive Strengths & Weaknesses

Table 103. Thorlabs, Inc. Basic Information, Manufacturing Base and Competitors

Table 104. Thorlabs, Inc. Major Business

Table 105. Thorlabs, Inc. Live Cell Quantitative Phase Imaging Camera Product and Services

Table 106. Thorlabs, Inc. Live Cell Quantitative Phase Imaging Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 107. Thorlabs, Inc. Recent Developments/Updates

Table 108. Thorlabs, Inc. Competitive Strengths & Weaknesses

Table 109. QImaging Basic Information, Manufacturing Base and Competitors

Table 110. QImaging Major Business

Table 111. QImaging Live Cell Quantitative Phase Imaging Camera Product and Services

Table 112. QImaging Live Cell Quantitative Phase Imaging Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 113. QImaging Recent Developments/Updates

Table 114. QImaging Competitive Strengths & Weaknesses

Table 115. PCO AG Basic Information, Manufacturing Base and Competitors

Table 116. PCO AG Major Business

Table 117. PCO AG Live Cell Quantitative Phase Imaging Camera Product and Services

Table 118. PCO AG Live Cell Quantitative Phase Imaging Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 119. PCO AG Recent Developments/Updates

Table 120. PCO AG Competitive Strengths & Weaknesses

Table 121. Photometrics Basic Information, Manufacturing Base and Competitors

Table 122. Photometrics Major Business

Table 123. Photometrics Live Cell Quantitative Phase Imaging Camera Product and Services

Table 124. Photometrics Live Cell Quantitative Phase Imaging Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 125. Photometrics Recent Developments/Updates

Table 126. Photometrics Competitive Strengths & Weaknesses

Table 127. Teledyne Photometrics Basic Information, Manufacturing Base and Competitors

Table 128. Teledyne Photometrics Major Business

Table 129. Teledyne Photometrics Live Cell Quantitative Phase Imaging Camera Product and Services

Table 130. Teledyne Photometrics Live Cell Quantitative Phase Imaging Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 131. Teledyne Photometrics Recent Developments/Updates

Table 132. Teledyne Photometrics Competitive Strengths & Weaknesses

Table 133. Princeton Instruments Basic Information, Manufacturing Base and Competitors

Table 134. Princeton Instruments Major Business

Table 135. Princeton Instruments Live Cell Quantitative Phase Imaging Camera Product and Services

Table 136. Princeton Instruments Live Cell Quantitative Phase Imaging Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 137. Princeton Instruments Recent Developments/Updates

Table 138. Princeton Instruments Competitive Strengths & Weaknesses

Table 139. Bruker Corporation Basic Information, Manufacturing Base and Competitors

Table 140. Bruker Corporation Major Business

Table 141. Bruker Corporation Live Cell Quantitative Phase Imaging Camera Product and Services

Table 142. Bruker Corporation Live Cell Quantitative Phase Imaging Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 143. Bruker Corporation Recent Developments/Updates

Table 144. LaVision BioTec GmbH Basic Information, Manufacturing Base and Competitors

Table 145. LaVision BioTec GmbH Major Business

Table 146. LaVision BioTec GmbH Live Cell Quantitative Phase Imaging Camera Product and Services

Table 147. LaVision BioTec GmbH Live Cell Quantitative Phase Imaging Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 148. Global Key Players of Live Cell Quantitative Phase Imaging Camera Upstream (Raw Materials)

Table 149. Live Cell Quantitative Phase Imaging Camera Typical Customers

Table 150. Live Cell Quantitative Phase Imaging Camera Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Live Cell Quantitative Phase Imaging Camera Picture

Figure 2. World Live Cell Quantitative Phase Imaging Camera Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World Live Cell Quantitative Phase Imaging Camera Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World Live Cell Quantitative Phase Imaging Camera Production (2018-2029) & (Units)

Figure 5. World Live Cell Quantitative Phase Imaging Camera Average Price (2018-2029) & (US\$/Unit)

Figure 6. World Live Cell Quantitative Phase Imaging Camera Production Value Market Share by Region (2018-2029)

Figure 7. World Live Cell Quantitative Phase Imaging Camera Production Market Share by Region (2018-2029)

Figure 8. North America Live Cell Quantitative Phase Imaging Camera Production (2018-2029) & (Units)

Figure 9. Europe Live Cell Quantitative Phase Imaging Camera Production (2018-2029) & (Units)

Figure 10. China Live Cell Quantitative Phase Imaging Camera Production (2018-2029) & (Units)

Figure 11. Japan Live Cell Quantitative Phase Imaging Camera Production (2018-2029) & (Units)

Figure 12. Live Cell Quantitative Phase Imaging Camera Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Live Cell Quantitative Phase Imaging Camera Consumption (2018-2029) & (Units)

Figure 15. World Live Cell Quantitative Phase Imaging Camera Consumption Market Share by Region (2018-2029)

Figure 16. United States Live Cell Quantitative Phase Imaging Camera Consumption (2018-2029) & (Units)

Figure 17. China Live Cell Quantitative Phase Imaging Camera Consumption (2018-2029) & (Units)

Figure 18. Europe Live Cell Quantitative Phase Imaging Camera Consumption (2018-2029) & (Units)

Figure 19. Japan Live Cell Quantitative Phase Imaging Camera Consumption (2018-2029) & (Units)

Figure 20. South Korea Live Cell Quantitative Phase Imaging Camera Consumption (2018-2029) & (Units)

Figure 21. ASEAN Live Cell Quantitative Phase Imaging Camera Consumption (2018-2029) & (Units)

Figure 22. India Live Cell Quantitative Phase Imaging Camera Consumption (2018-2029) & (Units)

Figure 23. Producer Shipments of Live Cell Quantitative Phase Imaging Camera by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 24. Global Four-firm Concentration Ratios (CR4) for Live Cell Quantitative Phase Imaging Camera Markets in 2022

Figure 25. Global Four-firm Concentration Ratios (CR8) for Live Cell Quantitative Phase Imaging Camera Markets in 2022

Figure 26. United States VS China: Live Cell Quantitative Phase Imaging Camera Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 27. United States VS China: Live Cell Quantitative Phase Imaging Camera Production Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: Live Cell Quantitative Phase Imaging Camera Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production Market Share 2022

Figure 30. China Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production Market Share 2022

Figure 31. Rest of World Based Manufacturers Live Cell Quantitative Phase Imaging Camera Production Market Share 2022

Figure 32. World Live Cell Quantitative Phase Imaging Camera Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 33. World Live Cell Quantitative Phase Imaging Camera Production Value Market Share by Type in 2022

Figure 34. Uniform Field Phase Imaging Camera

Figure 35. Differential Interferometric Phase Imaging Camera

Figure 36. Digital Holographic Phase Imaging Camera

Figure 37. Optical Coherence Tomography Camera

Figure 38. World Live Cell Quantitative Phase Imaging Camera Production Market Share by Type (2018-2029)

Figure 39. World Live Cell Quantitative Phase Imaging Camera Production Value Market Share by Type (2018-2029)

Figure 40. World Live Cell Quantitative Phase Imaging Camera Average Price by Type (2018-2029) & (US\$/Unit)

Figure 41. World Live Cell Quantitative Phase Imaging Camera Production Value by

Application, (USD Million), 2018 & 2022 & 2029

Figure 42. World Live Cell Quantitative Phase Imaging Camera Production Value Market Share by Application in 2022

Figure 43. Medical Industry

Figure 44. Life Sciences

Figure 45. Others

Figure 46. World Live Cell Quantitative Phase Imaging Camera Production Market Share by Application (2018-2029)

Figure 47. World Live Cell Quantitative Phase Imaging Camera Production Value Market Share by Application (2018-2029)

Figure 48. World Live Cell Quantitative Phase Imaging Camera Average Price by Application (2018-2029) & (US\$/Unit)

Figure 49. Live Cell Quantitative Phase Imaging Camera Industry Chain

Figure 50. Live Cell Quantitative Phase Imaging Camera Procurement Model

Figure 51. Live Cell Quantitative Phase Imaging Camera Sales Model

Figure 52. Live Cell Quantitative Phase Imaging Camera Sales Channels, Direct Sales, and Distribution

Figure 53. Methodology

Figure 54. Research Process and Data Source

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