

# Global Photoelectric Detectors Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Photoelectric Detectors market size was valued at USD 1569.6 million in 2023 and is forecast to a readjusted size of USD 3012.5 million by 2030 with a CAGR of 9.8% during review period.

A photodetector is a sensor that can sense light or other electromagnetic energy. It can convert photons into electric current, and the absorbed photons form electron-hole pairs. Photodetectors include photodiodes and phototransistors. Quantum efficiency is used to define the percentage of photons received by photodetectors on the light-receiving surface that are converted into electron-hole pairs. That is, the quantum efficiency is equal to the number of photogenerated electrons divided by the number of incident photons.

Photoelectric detectors are mainly divided into three types: photodiodes, phototransistors and others. Among them, photoelectric detectors are the main types of photodetectors. The Photoelectric detectors is used to detect continuous light or continuous light. Other types of photodetectors can be used to detect pulsed light as opposed to continuous light. This photodetector can also be used to assist in calculating the number of photons, etc., and has been widely used in many fields. From a global perspective, Japan is the largest production area, and the main production companies Hamamatsu and ROHM are concentrated in this area. The output value of Japan in 2019 is accounting for 33.12% of the world's total, followed by Europe, with major manufacturers such as Osram Opto Semiconductors and First Sensor.

The Global Info Research report includes an overview of the development of the Photoelectric Detectors industry chain, the market status of Automobile Industry

(Photodiode, Phototransistor), Consumer Electronics Industry (Photodiode, Phototransistor), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Photoelectric Detectors.

Regionally, the report analyzes the Photoelectric Detectors markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Photoelectric Detectors market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Photoelectric Detectors market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Photoelectric Detectors industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (M Units), revenue generated, and market share of different by Type (e.g., Photodiode, Phototransistor).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Photoelectric Detectors market.

**Regional Analysis:** The report involves examining the Photoelectric Detectors market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Photoelectric Detectors market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Photoelectric Detectors:

**Company Analysis:** Report covers individual Photoelectric Detectors manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Photoelectric Detectors. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automobile Industry, Consumer Electronics Industry).

**Technology Analysis:** Report covers specific technologies relevant to Photoelectric Detectors. It assesses the current state, advancements, and potential future developments in Photoelectric Detectors areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Photoelectric Detectors market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Photoelectric Detectors market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Photodiode

Phototransistor

Others

## Market segment by Application

Automobile Industry

Consumer Electronics Industry

Medical Industry

Communication

Industrial

## Major players covered

OSRAM GmbH

Hamamatsu

ROHM

LITEON Technology

ON Semiconductor

Excelitas Technologies Corp

First Sensor

EVERLIGHT ELECTRONICS CO., LTD.

Stanley Electric

Vishay

Honeywell

Sharp

NJR

TTE(OPTEK)

Phoetek

ShenZhen WDYJ DZSC

Kingbright

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Photoelectric Detectors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Photoelectric Detectors, with price, sales, revenue and global market share of Photoelectric Detectors from 2019 to 2024.

Chapter 3, the Photoelectric Detectors competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Photoelectric Detectors breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to

2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Photoelectric Detectors market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Photoelectric Detectors.

Chapter 14 and 15, to describe Photoelectric Detectors sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope of Photoelectric Detectors

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Photoelectric Detectors Consumption Value by Type: 2019 Versus 2023 Versus 2030

1.3.2 Photodiode

1.3.3 Phototransistor

1.3.4 Others

1.4 Market Analysis by Application

1.4.1 Overview: Global Photoelectric Detectors Consumption Value by Application: 2019 Versus 2023 Versus 2030

1.4.2 Automobile Industry

1.4.3 Consumer Electronics Industry

1.4.4 Medical Industry

1.4.5 Communication

1.4.6 Industrial

1.5 Global Photoelectric Detectors Market Size & Forecast

1.5.1 Global Photoelectric Detectors Consumption Value (2019 & 2023 & 2030)

1.5.2 Global Photoelectric Detectors Sales Quantity (2019-2030)

1.5.3 Global Photoelectric Detectors Average Price (2019-2030)

### 2 MANUFACTURERS PROFILES

2.1 OSRAM GmbH

2.1.1 OSRAM GmbH Details

2.1.2 OSRAM GmbH Major Business

2.1.3 OSRAM GmbH Photoelectric Detectors Product and Services

2.1.4 OSRAM GmbH Photoelectric Detectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.1.5 OSRAM GmbH Recent Developments/Updates

2.2 Hamamatsu

2.2.1 Hamamatsu Details

2.2.2 Hamamatsu Major Business

2.2.3 Hamamatsu Photoelectric Detectors Product and Services

2.2.4 Hamamatsu Photoelectric Detectors Sales Quantity, Average Price, Revenue,

## Gross Margin and Market Share (2019-2024)

### 2.2.5 Hamamatsu Recent Developments/Updates

## 2.3 ROHM

### 2.3.1 ROHM Details

### 2.3.2 ROHM Major Business

### 2.3.3 ROHM Photoelectric Detectors Product and Services

### 2.3.4 ROHM Photoelectric Detectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.3.5 ROHM Recent Developments/Updates

## 2.4 LITEON Technology

### 2.4.1 LITEON Technology Details

### 2.4.2 LITEON Technology Major Business

### 2.4.3 LITEON Technology Photoelectric Detectors Product and Services

### 2.4.4 LITEON Technology Photoelectric Detectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.4.5 LITEON Technology Recent Developments/Updates

## 2.5 ON Semiconductor

### 2.5.1 ON Semiconductor Details

### 2.5.2 ON Semiconductor Major Business

### 2.5.3 ON Semiconductor Photoelectric Detectors Product and Services

### 2.5.4 ON Semiconductor Photoelectric Detectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.5.5 ON Semiconductor Recent Developments/Updates

## 2.6 Excelitas Technologies Corp

### 2.6.1 Excelitas Technologies Corp Details

### 2.6.2 Excelitas Technologies Corp Major Business

### 2.6.3 Excelitas Technologies Corp Photoelectric Detectors Product and Services

### 2.6.4 Excelitas Technologies Corp Photoelectric Detectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.6.5 Excelitas Technologies Corp Recent Developments/Updates

## 2.7 First Sensor

### 2.7.1 First Sensor Details

### 2.7.2 First Sensor Major Business

### 2.7.3 First Sensor Photoelectric Detectors Product and Services

### 2.7.4 First Sensor Photoelectric Detectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.7.5 First Sensor Recent Developments/Updates

## 2.8 EVERLIGHT ELECTRONICS CO., LTD.

### 2.8.1 EVERLIGHT ELECTRONICS CO., LTD. Details



2.8.2 EVERLIGHT ELECTRONICS CO., LTD. Major Business

2.8.3 EVERLIGHT ELECTRONICS CO., LTD. Photoelectric Detectors Product and Services

2.8.4 EVERLIGHT ELECTRONICS CO., LTD. Photoelectric Detectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.8.5 EVERLIGHT ELECTRONICS CO., LTD. Recent Developments/Updates

2.9 Stanley Electric

2.9.1 Stanley Electric Details

2.9.2 Stanley Electric Major Business

2.9.3 Stanley Electric Photoelectric Detectors Product and Services

2.9.4 Stanley Electric Photoelectric Detectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.9.5 Stanley Electric Recent Developments/Updates

2.10 Vishay

2.10.1 Vishay Details

2.10.2 Vishay Major Business

2.10.3 Vishay Photoelectric Detectors Product and Services

2.10.4 Vishay Photoelectric Detectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.10.5 Vishay Recent Developments/Updates

2.11 Honeywell

2.11.1 Honeywell Details

2.11.2 Honeywell Major Business

2.11.3 Honeywell Photoelectric Detectors Product and Services

2.11.4 Honeywell Photoelectric Detectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.11.5 Honeywell Recent Developments/Updates

2.12 Sharp

2.12.1 Sharp Details

2.12.2 Sharp Major Business

2.12.3 Sharp Photoelectric Detectors Product and Services

2.12.4 Sharp Photoelectric Detectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.12.5 Sharp Recent Developments/Updates

2.13 NJR

2.13.1 NJR Details

2.13.2 NJR Major Business

2.13.3 NJR Photoelectric Detectors Product and Services

2.13.4 NJR Photoelectric Detectors Sales Quantity, Average Price, Revenue, Gross

## Margin and Market Share (2019-2024)

### 2.13.5 NJR Recent Developments/Updates

## 2.14 TTE(OPTEK)

### 2.14.1 TTE(OPTEK) Details

### 2.14.2 TTE(OPTEK) Major Business

### 2.14.3 TTE(OPTEK) Photoelectric Detectors Product and Services

### 2.14.4 TTE(OPTEK) Photoelectric Detectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.14.5 TTE(OPTEK) Recent Developments/Updates

## 2.15 Phoetek

### 2.15.1 Phoetek Details

### 2.15.2 Phoetek Major Business

### 2.15.3 Phoetek Photoelectric Detectors Product and Services

### 2.15.4 Phoetek Photoelectric Detectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.15.5 Phoetek Recent Developments/Updates

## 2.16 ShenZhen WDYJ DZSC

### 2.16.1 ShenZhen WDYJ DZSC Details

### 2.16.2 ShenZhen WDYJ DZSC Major Business

### 2.16.3 ShenZhen WDYJ DZSC Photoelectric Detectors Product and Services

### 2.16.4 ShenZhen WDYJ DZSC Photoelectric Detectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.16.5 ShenZhen WDYJ DZSC Recent Developments/Updates

## 2.17 Kingbright

### 2.17.1 Kingbright Details

### 2.17.2 Kingbright Major Business

### 2.17.3 Kingbright Photoelectric Detectors Product and Services

### 2.17.4 Kingbright Photoelectric Detectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.17.5 Kingbright Recent Developments/Updates

## **3 COMPETITIVE ENVIRONMENT: PHOTOELECTRIC DETECTORS BY MANUFACTURER**

### 3.1 Global Photoelectric Detectors Sales Quantity by Manufacturer (2019-2024)

### 3.2 Global Photoelectric Detectors Revenue by Manufacturer (2019-2024)

### 3.3 Global Photoelectric Detectors Average Price by Manufacturer (2019-2024)

### 3.4 Market Share Analysis (2023)

#### 3.4.1 Producer Shipments of Photoelectric Detectors by Manufacturer Revenue (\$MM)

and Market Share (%): 2023

3.4.2 Top 3 Photoelectric Detectors Manufacturer Market Share in 2023

3.4.2 Top 6 Photoelectric Detectors Manufacturer Market Share in 2023

3.5 Photoelectric Detectors Market: Overall Company Footprint Analysis

3.5.1 Photoelectric Detectors Market: Region Footprint

3.5.2 Photoelectric Detectors Market: Company Product Type Footprint

3.5.3 Photoelectric Detectors Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

## **4 CONSUMPTION ANALYSIS BY REGION**

4.1 Global Photoelectric Detectors Market Size by Region

4.1.1 Global Photoelectric Detectors Sales Quantity by Region (2019-2030)

4.1.2 Global Photoelectric Detectors Consumption Value by Region (2019-2030)

4.1.3 Global Photoelectric Detectors Average Price by Region (2019-2030)

4.2 North America Photoelectric Detectors Consumption Value (2019-2030)

4.3 Europe Photoelectric Detectors Consumption Value (2019-2030)

4.4 Asia-Pacific Photoelectric Detectors Consumption Value (2019-2030)

4.5 South America Photoelectric Detectors Consumption Value (2019-2030)

4.6 Middle East and Africa Photoelectric Detectors Consumption Value (2019-2030)

## **5 MARKET SEGMENT BY TYPE**

5.1 Global Photoelectric Detectors Sales Quantity by Type (2019-2030)

5.2 Global Photoelectric Detectors Consumption Value by Type (2019-2030)

5.3 Global Photoelectric Detectors Average Price by Type (2019-2030)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global Photoelectric Detectors Sales Quantity by Application (2019-2030)

6.2 Global Photoelectric Detectors Consumption Value by Application (2019-2030)

6.3 Global Photoelectric Detectors Average Price by Application (2019-2030)

## **7 NORTH AMERICA**

7.1 North America Photoelectric Detectors Sales Quantity by Type (2019-2030)

7.2 North America Photoelectric Detectors Sales Quantity by Application (2019-2030)

7.3 North America Photoelectric Detectors Market Size by Country

- 7.3.1 North America Photoelectric Detectors Sales Quantity by Country (2019-2030)
- 7.3.2 North America Photoelectric Detectors Consumption Value by Country (2019-2030)
- 7.3.3 United States Market Size and Forecast (2019-2030)
- 7.3.4 Canada Market Size and Forecast (2019-2030)
- 7.3.5 Mexico Market Size and Forecast (2019-2030)

## **8 EUROPE**

- 8.1 Europe Photoelectric Detectors Sales Quantity by Type (2019-2030)
- 8.2 Europe Photoelectric Detectors Sales Quantity by Application (2019-2030)
- 8.3 Europe Photoelectric Detectors Market Size by Country
  - 8.3.1 Europe Photoelectric Detectors Sales Quantity by Country (2019-2030)
  - 8.3.2 Europe Photoelectric Detectors Consumption Value by Country (2019-2030)
  - 8.3.3 Germany Market Size and Forecast (2019-2030)
  - 8.3.4 France Market Size and Forecast (2019-2030)
  - 8.3.5 United Kingdom Market Size and Forecast (2019-2030)
  - 8.3.6 Russia Market Size and Forecast (2019-2030)
  - 8.3.7 Italy Market Size and Forecast (2019-2030)

## **9 ASIA-PACIFIC**

- 9.1 Asia-Pacific Photoelectric Detectors Sales Quantity by Type (2019-2030)
- 9.2 Asia-Pacific Photoelectric Detectors Sales Quantity by Application (2019-2030)
- 9.3 Asia-Pacific Photoelectric Detectors Market Size by Region
  - 9.3.1 Asia-Pacific Photoelectric Detectors Sales Quantity by Region (2019-2030)
  - 9.3.2 Asia-Pacific Photoelectric Detectors Consumption Value by Region (2019-2030)
  - 9.3.3 China Market Size and Forecast (2019-2030)
  - 9.3.4 Japan Market Size and Forecast (2019-2030)
  - 9.3.5 Korea Market Size and Forecast (2019-2030)
  - 9.3.6 India Market Size and Forecast (2019-2030)
  - 9.3.7 Southeast Asia Market Size and Forecast (2019-2030)
  - 9.3.8 Australia Market Size and Forecast (2019-2030)

## **10 SOUTH AMERICA**

- 10.1 South America Photoelectric Detectors Sales Quantity by Type (2019-2030)
- 10.2 South America Photoelectric Detectors Sales Quantity by Application (2019-2030)
- 10.3 South America Photoelectric Detectors Market Size by Country

- 10.3.1 South America Photoelectric Detectors Sales Quantity by Country (2019-2030)
- 10.3.2 South America Photoelectric Detectors Consumption Value by Country (2019-2030)
- 10.3.3 Brazil Market Size and Forecast (2019-2030)
- 10.3.4 Argentina Market Size and Forecast (2019-2030)

## **11 MIDDLE EAST & AFRICA**

- 11.1 Middle East & Africa Photoelectric Detectors Sales Quantity by Type (2019-2030)
- 11.2 Middle East & Africa Photoelectric Detectors Sales Quantity by Application (2019-2030)
- 11.3 Middle East & Africa Photoelectric Detectors Market Size by Country
  - 11.3.1 Middle East & Africa Photoelectric Detectors Sales Quantity by Country (2019-2030)
  - 11.3.2 Middle East & Africa Photoelectric Detectors Consumption Value by Country (2019-2030)
  - 11.3.3 Turkey Market Size and Forecast (2019-2030)
  - 11.3.4 Egypt Market Size and Forecast (2019-2030)
  - 11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)
  - 11.3.6 South Africa Market Size and Forecast (2019-2030)

## **12 MARKET DYNAMICS**

- 12.1 Photoelectric Detectors Market Drivers
- 12.2 Photoelectric Detectors Market Restraints
- 12.3 Photoelectric Detectors Trends Analysis
- 12.4 Porters Five Forces Analysis
  - 12.4.1 Threat of New Entrants
  - 12.4.2 Bargaining Power of Suppliers
  - 12.4.3 Bargaining Power of Buyers
  - 12.4.4 Threat of Substitutes
  - 12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

- 13.1 Raw Material of Photoelectric Detectors and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Photoelectric Detectors
- 13.3 Photoelectric Detectors Production Process
- 13.4 Photoelectric Detectors Industrial Chain

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

### 14.1 Sales Channel

#### 14.1.1 Direct to End-User

#### 14.1.2 Distributors

### 14.2 Photoelectric Detectors Typical Distributors

### 14.3 Photoelectric Detectors Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

### 16.1 Methodology

### 16.2 Research Process and Data Source

### 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Photoelectric Detectors Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Photoelectric Detectors Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. OSRAM GmbH Basic Information, Manufacturing Base and Competitors

Table 4. OSRAM GmbH Major Business

Table 5. OSRAM GmbH Photoelectric Detectors Product and Services

Table 6. OSRAM GmbH Photoelectric Detectors Sales Quantity (M Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. OSRAM GmbH Recent Developments/Updates

Table 8. Hamamatsu Basic Information, Manufacturing Base and Competitors

Table 9. Hamamatsu Major Business

Table 10. Hamamatsu Photoelectric Detectors Product and Services

Table 11. Hamamatsu Photoelectric Detectors Sales Quantity (M Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Hamamatsu Recent Developments/Updates

Table 13. ROHM Basic Information, Manufacturing Base and Competitors

Table 14. ROHM Major Business

Table 15. ROHM Photoelectric Detectors Product and Services

Table 16. ROHM Photoelectric Detectors Sales Quantity (M Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. ROHM Recent Developments/Updates

Table 18. LITEON Technology Basic Information, Manufacturing Base and Competitors

Table 19. LITEON Technology Major Business

Table 20. LITEON Technology Photoelectric Detectors Product and Services

Table 21. LITEON Technology Photoelectric Detectors Sales Quantity (M Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. LITEON Technology Recent Developments/Updates

Table 23. ON Semiconductor Basic Information, Manufacturing Base and Competitors

Table 24. ON Semiconductor Major Business

Table 25. ON Semiconductor Photoelectric Detectors Product and Services

Table 26. ON Semiconductor Photoelectric Detectors Sales Quantity (M Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. ON Semiconductor Recent Developments/Updates

Table 28. Excelitas Technologies Corp Basic Information, Manufacturing Base and Competitors

Table 29. Excelitas Technologies Corp Major Business

Table 30. Excelitas Technologies Corp Photoelectric Detectors Product and Services

Table 31. Excelitas Technologies Corp Photoelectric Detectors Sales Quantity (M Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. Excelitas Technologies Corp Recent Developments/Updates

Table 33. First Sensor Basic Information, Manufacturing Base and Competitors

Table 34. First Sensor Major Business

Table 35. First Sensor Photoelectric Detectors Product and Services

Table 36. First Sensor Photoelectric Detectors Sales Quantity (M Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 37. First Sensor Recent Developments/Updates

Table 38. EVERLIGHT ELECTRONICS CO., LTD. Basic Information, Manufacturing Base and Competitors

Table 39. EVERLIGHT ELECTRONICS CO., LTD. Major Business

Table 40. EVERLIGHT ELECTRONICS CO., LTD. Photoelectric Detectors Product and Services

Table 41. EVERLIGHT ELECTRONICS CO., LTD. Photoelectric Detectors Sales Quantity (M Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 42. EVERLIGHT ELECTRONICS CO., LTD. Recent Developments/Updates

Table 43. Stanley Electric Basic Information, Manufacturing Base and Competitors

Table 44. Stanley Electric Major Business

Table 45. Stanley Electric Photoelectric Detectors Product and Services

Table 46. Stanley Electric Photoelectric Detectors Sales Quantity (M Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 47. Stanley Electric Recent Developments/Updates

Table 48. Vishay Basic Information, Manufacturing Base and Competitors

Table 49. Vishay Major Business

Table 50. Vishay Photoelectric Detectors Product and Services

Table 51. Vishay Photoelectric Detectors Sales Quantity (M Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 52. Vishay Recent Developments/Updates

Table 53. Honeywell Basic Information, Manufacturing Base and Competitors

Table 54. Honeywell Major Business

Table 55. Honeywell Photoelectric Detectors Product and Services

Table 56. Honeywell Photoelectric Detectors Sales Quantity (M Units), Average Price



(US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 57. Honeywell Recent Developments/Updates

Table 58. Sharp Basic Information, Manufacturing Base and Competitors

Table 59. Sharp Major Business

Table 60. Sharp Photoelectric Detectors Product and Services

Table 61. Sharp Photoelectric Detectors Sales Quantity (M Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 62. Sharp Recent Developments/Updates

Table 63. NJR Basic Information, Manufacturing Base and Competitors

Table 64. NJR Major Business

Table 65. NJR Photoelectric Detectors Product and Services

Table 66. NJR Photoelectric Detectors Sales Quantity (M Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 67. NJR Recent Developments/Updates

Table 68. TTE(OPTEK) Basic Information, Manufacturing Base and Competitors

Table 69. TTE(OPTEK) Major Business

Table 70. TTE(OPTEK) Photoelectric Detectors Product and Services

Table 71. TTE(OPTEK) Photoelectric Detectors Sales Quantity (M Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 72. TTE(OPTEK) Recent Developments/Updates

Table 73. Phoetek Basic Information, Manufacturing Base and Competitors

Table 74. Phoetek Major Business

Table 75. Phoetek Photoelectric Detectors Product and Services

Table 76. Phoetek Photoelectric Detectors Sales Quantity (M Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 77. Phoetek Recent Developments/Updates

Table 78. ShenZhen WDYJ DZSC Basic Information, Manufacturing Base and Competitors

Table 79. ShenZhen WDYJ DZSC Major Business

Table 80. ShenZhen WDYJ DZSC Photoelectric Detectors Product and Services

Table 81. ShenZhen WDYJ DZSC Photoelectric Detectors Sales Quantity (M Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 82. ShenZhen WDYJ DZSC Recent Developments/Updates

Table 83. Kingbright Basic Information, Manufacturing Base and Competitors

Table 84. Kingbright Major Business

Table 85. Kingbright Photoelectric Detectors Product and Services

Table 86. Kingbright Photoelectric Detectors Sales Quantity (M Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 87. Kingbright Recent Developments/Updates

Table 88. Global Photoelectric Detectors Sales Quantity by Manufacturer (2019-2024) & (M Units)

Table 89. Global Photoelectric Detectors Revenue by Manufacturer (2019-2024) & (USD Million)

Table 90. Global Photoelectric Detectors Average Price by Manufacturer (2019-2024) & (US\$/Unit)

Table 91. Market Position of Manufacturers in Photoelectric Detectors, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 92. Head Office and Photoelectric Detectors Production Site of Key Manufacturer

Table 93. Photoelectric Detectors Market: Company Product Type Footprint

Table 94. Photoelectric Detectors Market: Company Product Application Footprint

Table 95. Photoelectric Detectors New Market Entrants and Barriers to Market Entry

Table 96. Photoelectric Detectors Mergers, Acquisition, Agreements, and Collaborations

Table 97. Global Photoelectric Detectors Sales Quantity by Region (2019-2024) & (M Units)

Table 98. Global Photoelectric Detectors Sales Quantity by Region (2025-2030) & (M Units)

Table 99. Global Photoelectric Detectors Consumption Value by Region (2019-2024) & (USD Million)

Table 100. Global Photoelectric Detectors Consumption Value by Region (2025-2030) & (USD Million)

Table 101. Global Photoelectric Detectors Average Price by Region (2019-2024) & (US\$/Unit)

Table 102. Global Photoelectric Detectors Average Price by Region (2025-2030) & (US\$/Unit)

Table 103. Global Photoelectric Detectors Sales Quantity by Type (2019-2024) & (M Units)

Table 104. Global Photoelectric Detectors Sales Quantity by Type (2025-2030) & (M Units)

Table 105. Global Photoelectric Detectors Consumption Value by Type (2019-2024) & (USD Million)

Table 106. Global Photoelectric Detectors Consumption Value by Type (2025-2030) & (USD Million)

Table 107. Global Photoelectric Detectors Average Price by Type (2019-2024) & (US\$/Unit)

Table 108. Global Photoelectric Detectors Average Price by Type (2025-2030) & (US\$/Unit)

Table 109. Global Photoelectric Detectors Sales Quantity by Application (2019-2024) &

(M Units)

Table 110. Global Photoelectric Detectors Sales Quantity by Application (2025-2030) & (M Units)

Table 111. Global Photoelectric Detectors Consumption Value by Application (2019-2024) & (USD Million)

Table 112. Global Photoelectric Detectors Consumption Value by Application (2025-2030) & (USD Million)

Table 113. Global Photoelectric Detectors Average Price by Application (2019-2024) & (US\$/Unit)

Table 114. Global Photoelectric Detectors Average Price by Application (2025-2030) & (US\$/Unit)

Table 115. North America Photoelectric Detectors Sales Quantity by Type (2019-2024) & (M Units)

Table 116. North America Photoelectric Detectors Sales Quantity by Type (2025-2030) & (M Units)

Table 117. North America Photoelectric Detectors Sales Quantity by Application (2019-2024) & (M Units)

Table 118. North America Photoelectric Detectors Sales Quantity by Application (2025-2030) & (M Units)

Table 119. North America Photoelectric Detectors Sales Quantity by Country (2019-2024) & (M Units)

Table 120. North America Photoelectric Detectors Sales Quantity by Country (2025-2030) & (M Units)

Table 121. North America Photoelectric Detectors Consumption Value by Country (2019-2024) & (USD Million)

Table 122. North America Photoelectric Detectors Consumption Value by Country (2025-2030) & (USD Million)

Table 123. Europe Photoelectric Detectors Sales Quantity by Type (2019-2024) & (M Units)

Table 124. Europe Photoelectric Detectors Sales Quantity by Type (2025-2030) & (M Units)

Table 125. Europe Photoelectric Detectors Sales Quantity by Application (2019-2024) & (M Units)

Table 126. Europe Photoelectric Detectors Sales Quantity by Application (2025-2030) & (M Units)

Table 127. Europe Photoelectric Detectors Sales Quantity by Country (2019-2024) & (M Units)

Table 128. Europe Photoelectric Detectors Sales Quantity by Country (2025-2030) & (M Units)

Table 129. Europe Photoelectric Detectors Consumption Value by Country (2019-2024) & (USD Million)

Table 130. Europe Photoelectric Detectors Consumption Value by Country (2025-2030) & (USD Million)

Table 131. Asia-Pacific Photoelectric Detectors Sales Quantity by Type (2019-2024) & (M Units)

Table 132. Asia-Pacific Photoelectric Detectors Sales Quantity by Type (2025-2030) & (M Units)

Table 133. Asia-Pacific Photoelectric Detectors Sales Quantity by Application (2019-2024) & (M Units)

Table 134. Asia-Pacific Photoelectric Detectors Sales Quantity by Application (2025-2030) & (M Units)

Table 135. Asia-Pacific Photoelectric Detectors Sales Quantity by Region (2019-2024) & (M Units)

Table 136. Asia-Pacific Photoelectric Detectors Sales Quantity by Region (2025-2030) & (M Units)

Table 137. Asia-Pacific Photoelectric Detectors Consumption Value by Region (2019-2024) & (USD Million)

Table 138. Asia-Pacific Photoelectric Detectors Consumption Value by Region (2025-2030) & (USD Million)

Table 139. South America Photoelectric Detectors Sales Quantity by Type (2019-2024) & (M Units)

Table 140. South America Photoelectric Detectors Sales Quantity by Type (2025-2030) & (M Units)

Table 141. South America Photoelectric Detectors Sales Quantity by Application (2019-2024) & (M Units)

Table 142. South America Photoelectric Detectors Sales Quantity by Application (2025-2030) & (M Units)

Table 143. South America Photoelectric Detectors Sales Quantity by Country (2019-2024) & (M Units)

Table 144. South America Photoelectric Detectors Sales Quantity by Country (2025-2030) & (M Units)

Table 145. South America Photoelectric Detectors Consumption Value by Country (2019-2024) & (USD Million)

Table 146. South America Photoelectric Detectors Consumption Value by Country (2025-2030) & (USD Million)

Table 147. Middle East & Africa Photoelectric Detectors Sales Quantity by Type (2019-2024) & (M Units)

Table 148. Middle East & Africa Photoelectric Detectors Sales Quantity by Type

(2025-2030) & (M Units)

Table 149. Middle East & Africa Photoelectric Detectors Sales Quantity by Application (2019-2024) & (M Units)

Table 150. Middle East & Africa Photoelectric Detectors Sales Quantity by Application (2025-2030) & (M Units)

Table 151. Middle East & Africa Photoelectric Detectors Sales Quantity by Region (2019-2024) & (M Units)

Table 152. Middle East & Africa Photoelectric Detectors Sales Quantity by Region (2025-2030) & (M Units)

Table 153. Middle East & Africa Photoelectric Detectors Consumption Value by Region (2019-2024) & (USD Million)

Table 154. Middle East & Africa Photoelectric Detectors Consumption Value by Region (2025-2030) & (USD Million)

Table 155. Photoelectric Detectors Raw Material

Table 156. Key Manufacturers of Photoelectric Detectors Raw Materials

Table 157. Photoelectric Detectors Typical Distributors

Table 158. Photoelectric Detectors Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Photoelectric Detectors Picture

Figure 2. Global Photoelectric Detectors Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Photoelectric Detectors Consumption Value Market Share by Type in 2023

Figure 4. Photodiode Examples

Figure 5. Phototransistor Examples

Figure 6. Others Examples

Figure 7. Global Photoelectric Detectors Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 8. Global Photoelectric Detectors Consumption Value Market Share by Application in 2023

Figure 9. Automobile Industry Examples

Figure 10. Consumer Electronics Industry Examples

Figure 11. Medical Industry Examples

Figure 12. Communication Examples

Figure 13. Industrial Examples

Figure 14. Global Photoelectric Detectors Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 15. Global Photoelectric Detectors Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 16. Global Photoelectric Detectors Sales Quantity (2019-2030) & (M Units)

Figure 17. Global Photoelectric Detectors Average Price (2019-2030) & (US\$/Unit)

Figure 18. Global Photoelectric Detectors Sales Quantity Market Share by Manufacturer in 2023

Figure 19. Global Photoelectric Detectors Consumption Value Market Share by Manufacturer in 2023

Figure 20. Producer Shipments of Photoelectric Detectors by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 21. Top 3 Photoelectric Detectors Manufacturer (Consumption Value) Market Share in 2023

Figure 22. Top 6 Photoelectric Detectors Manufacturer (Consumption Value) Market Share in 2023

Figure 23. Global Photoelectric Detectors Sales Quantity Market Share by Region (2019-2030)

Figure 24. Global Photoelectric Detectors Consumption Value Market Share by Region (2019-2030)

Figure 25. North America Photoelectric Detectors Consumption Value (2019-2030) & (USD Million)

Figure 26. Europe Photoelectric Detectors Consumption Value (2019-2030) & (USD Million)

Figure 27. Asia-Pacific Photoelectric Detectors Consumption Value (2019-2030) & (USD Million)

Figure 28. South America Photoelectric Detectors Consumption Value (2019-2030) & (USD Million)

Figure 29. Middle East & Africa Photoelectric Detectors Consumption Value (2019-2030) & (USD Million)

Figure 30. Global Photoelectric Detectors Sales Quantity Market Share by Type (2019-2030)

Figure 31. Global Photoelectric Detectors Consumption Value Market Share by Type (2019-2030)

Figure 32. Global Photoelectric Detectors Average Price by Type (2019-2030) & (US\$/Unit)

Figure 33. Global Photoelectric Detectors Sales Quantity Market Share by Application (2019-2030)

Figure 34. Global Photoelectric Detectors Consumption Value Market Share by Application (2019-2030)

Figure 35. Global Photoelectric Detectors Average Price by Application (2019-2030) & (US\$/Unit)

Figure 36. North America Photoelectric Detectors Sales Quantity Market Share by Type (2019-2030)

Figure 37. North America Photoelectric Detectors Sales Quantity Market Share by Application (2019-2030)

Figure 38. North America Photoelectric Detectors Sales Quantity Market Share by Country (2019-2030)

Figure 39. North America Photoelectric Detectors Consumption Value Market Share by Country (2019-2030)

Figure 40. United States Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 41. Canada Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 42. Mexico Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 43. Europe Photoelectric Detectors Sales Quantity Market Share by Type

(2019-2030)

Figure 44. Europe Photoelectric Detectors Sales Quantity Market Share by Application (2019-2030)

Figure 45. Europe Photoelectric Detectors Sales Quantity Market Share by Country (2019-2030)

Figure 46. Europe Photoelectric Detectors Consumption Value Market Share by Country (2019-2030)

Figure 47. Germany Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 48. France Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 49. United Kingdom Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 50. Russia Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 51. Italy Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 52. Asia-Pacific Photoelectric Detectors Sales Quantity Market Share by Type (2019-2030)

Figure 53. Asia-Pacific Photoelectric Detectors Sales Quantity Market Share by Application (2019-2030)

Figure 54. Asia-Pacific Photoelectric Detectors Sales Quantity Market Share by Region (2019-2030)

Figure 55. Asia-Pacific Photoelectric Detectors Consumption Value Market Share by Region (2019-2030)

Figure 56. China Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. Japan Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. Korea Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 59. India Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. Southeast Asia Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 61. Australia Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 62. South America Photoelectric Detectors Sales Quantity Market Share by Type (2019-2030)



Figure 63. South America Photoelectric Detectors Sales Quantity Market Share by Application (2019-2030)

Figure 64. South America Photoelectric Detectors Sales Quantity Market Share by Country (2019-2030)

Figure 65. South America Photoelectric Detectors Consumption Value Market Share by Country (2019-2030)

Figure 66. Brazil Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 67. Argentina Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 68. Middle East & Africa Photoelectric Detectors Sales Quantity Market Share by Type (2019-2030)

Figure 69. Middle East & Africa Photoelectric Detectors Sales Quantity Market Share by Application (2019-2030)

Figure 70. Middle East & Africa Photoelectric Detectors Sales Quantity Market Share by Region (2019-2030)

Figure 71. Middle East & Africa Photoelectric Detectors Consumption Value Market Share by Region (2019-2030)

Figure 72. Turkey Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 73. Egypt Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 74. Saudi Arabia Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 75. South Africa Photoelectric Detectors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 76. Photoelectric Detectors Market Drivers

Figure 77. Photoelectric Detectors Market Restraints

Figure 78. Photoelectric Detectors Market Trends

Figure 79. Porters Five Forces Analysis

Figure 80. Manufacturing Cost Structure Analysis of Photoelectric Detectors in 2023

Figure 81. Manufacturing Process Analysis of Photoelectric Detectors

Figure 82. Photoelectric Detectors Industrial Chain

Figure 83. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 84. Direct Channel Pros & Cons

Figure 85. Indirect Channel Pros & Cons

Figure 86. Methodology

Figure 87. Research Process and Data Source

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