

Global UAV Photoelectric Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global UAV Photoelectric Sensor market size was valued at US\$ 412 million in 2025 and is forecast to a readjusted size of US\$ 887 million by 2032 with a CAGR of 11.7% during review period.

Photoelectric sensors use the photoelectric effect to convert optical signals into electrical signals, and usually include a light source, a light path and a photoelectric component. Used to detect changes in various non-electrical quantities. In the field of drones, optoelectronic sensors can provide intelligence, surveillance and reconnaissance (ISR) capabilities, enhance the drone's ability to detect, identify and confirm targets, and supplement long-range reconnaissance capabilities.

This report is a detailed and comprehensive analysis for global UAV Photoelectric Sensor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global UAV Photoelectric Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global UAV Photoelectric Sensor market size and forecasts by region and country, in

consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global UAV Photoelectric Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global UAV Photoelectric Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for UAV Photoelectric Sensor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global UAV Photoelectric Sensor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Rafael Advanced Defense Systems Ltd., Raytheon, Headwall, Lockheed Martin, Overwatch Imaging, Controp, Hensoldt, Teledyne FLIR, Jonhon Optron Technology, Thale, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

UAV Photoelectric Sensor market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Hyperspectral

Multispectral

Market segment by Application

Military

Civilian

Major players covered

Rafael Advanced Defense Systems Ltd.

Raytheon

Headwall

Lockheed Martin

Overwatch Imaging

Controp

Hensoldt

Teledyne FLIR

Jonhon Optronic Technology

Thale

Northrop Grumman

IAI

BAE Systems

Elbit Systems

Leonardo

Safran

Aselsan

Elcarim Optronic

Resonon Inc

Headwall Photonics

Wuhan Guide Infrared

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 UAV Photoelectric Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of UAV Photoelectric Sensor, with price, sales quantity, revenue, and global market share of UAV Photoelectric

Sensor from 2021 to 2026.

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

Chapter 4, the UAV Photoelectric Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and UAV Photoelectric Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 UAV Photoelectric Sensor.

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

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global UAV Photoelectric Sensor Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Hyperspectral

1.3.3 Multispectral

1.4 Market Analysis by Application

1.4.1 Overview: Global UAV Photoelectric Sensor Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.4.2 Military

1.4.3 Civilian

1.5 Global UAV Photoelectric Sensor Market Size & Forecast

1.5.1 Global UAV Photoelectric Sensor Consumption Value (2021 & 2025 & 2032)

1.5.2 Global UAV Photoelectric Sensor Sales Quantity (2021-2032)

1.5.3 Global UAV Photoelectric Sensor Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Rafael Advanced Defense Systems Ltd.

2.1.1 Rafael Advanced Defense Systems Ltd. Details

2.1.2 Rafael Advanced Defense Systems Ltd. Major Business

2.1.3 Rafael Advanced Defense Systems Ltd. UAV Photoelectric Sensor Product and Services

2.1.4 Rafael Advanced Defense Systems Ltd. UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Rafael Advanced Defense Systems Ltd. Recent Developments/Updates

2.2 Raytheon

2.2.1 Raytheon Details

2.2.2 Raytheon Major Business

2.2.3 Raytheon UAV Photoelectric Sensor Product and Services

2.2.4 Raytheon UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Raytheon Recent Developments/Updates

2.3 Headwall

- 2.3.1 Headwall Details
- 2.3.2 Headwall Major Business
- 2.3.3 Headwall UAV Photoelectric Sensor Product and Services
- 2.3.4 Headwall UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.3.5 Headwall Recent Developments/Updates
- 2.4 Lockheed Martin
 - 2.4.1 Lockheed Martin Details
 - 2.4.2 Lockheed Martin Major Business
 - 2.4.3 Lockheed Martin UAV Photoelectric Sensor Product and Services
 - 2.4.4 Lockheed Martin UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Lockheed Martin Recent Developments/Updates
- 2.5 Overwatch Imaging
 - 2.5.1 Overwatch Imaging Details
 - 2.5.2 Overwatch Imaging Major Business
 - 2.5.3 Overwatch Imaging UAV Photoelectric Sensor Product and Services
 - 2.5.4 Overwatch Imaging UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Overwatch Imaging Recent Developments/Updates
- 2.6 Controp
 - 2.6.1 Controp Details
 - 2.6.2 Controp Major Business
 - 2.6.3 Controp UAV Photoelectric Sensor Product and Services
 - 2.6.4 Controp UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Controp Recent Developments/Updates
- 2.7 Hensoldt
 - 2.7.1 Hensoldt Details
 - 2.7.2 Hensoldt Major Business
 - 2.7.3 Hensoldt UAV Photoelectric Sensor Product and Services
 - 2.7.4 Hensoldt UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Hensoldt Recent Developments/Updates
- 2.8 Teledyne FLIR
 - 2.8.1 Teledyne FLIR Details
 - 2.8.2 Teledyne FLIR Major Business
 - 2.8.3 Teledyne FLIR UAV Photoelectric Sensor Product and Services
 - 2.8.4 Teledyne FLIR UAV Photoelectric Sensor Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Teledyne FLIR Recent Developments/Updates

2.9 Jonhon Optronic Technology

2.9.1 Jonhon Optronic Technology Details

2.9.2 Jonhon Optronic Technology Major Business

2.9.3 Jonhon Optronic Technology UAV Photoelectric Sensor Product and Services

2.9.4 Jonhon Optronic Technology UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Jonhon Optronic Technology Recent Developments/Updates

2.10 Thale

2.10.1 Thale Details

2.10.2 Thale Major Business

2.10.3 Thale UAV Photoelectric Sensor Product and Services

2.10.4 Thale UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Thale Recent Developments/Updates

2.11 Northrop Grumman

2.11.1 Northrop Grumman Details

2.11.2 Northrop Grumman Major Business

2.11.3 Northrop Grumman UAV Photoelectric Sensor Product and Services

2.11.4 Northrop Grumman UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Northrop Grumman Recent Developments/Updates

2.12 IAI

2.12.1 IAI Details

2.12.2 IAI Major Business

2.12.3 IAI UAV Photoelectric Sensor Product and Services

2.12.4 IAI UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 IAI Recent Developments/Updates

2.13 BAE Systems

2.13.1 BAE Systems Details

2.13.2 BAE Systems Major Business

2.13.3 BAE Systems UAV Photoelectric Sensor Product and Services

2.13.4 BAE Systems UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 BAE Systems Recent Developments/Updates

2.14 Elbit Systems

2.14.1 Elbit Systems Details

- 2.14.2 Elbit Systems Major Business
- 2.14.3 Elbit Systems UAV Photoelectric Sensor Product and Services
- 2.14.4 Elbit Systems UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.14.5 Elbit Systems Recent Developments/Updates
- 2.15 Leonardo
 - 2.15.1 Leonardo Details
 - 2.15.2 Leonardo Major Business
 - 2.15.3 Leonardo UAV Photoelectric Sensor Product and Services
 - 2.15.4 Leonardo UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.15.5 Leonardo Recent Developments/Updates
- 2.16 Safran
 - 2.16.1 Safran Details
 - 2.16.2 Safran Major Business
 - 2.16.3 Safran UAV Photoelectric Sensor Product and Services
 - 2.16.4 Safran UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.16.5 Safran Recent Developments/Updates
- 2.17 Aselsan
 - 2.17.1 Aselsan Details
 - 2.17.2 Aselsan Major Business
 - 2.17.3 Aselsan UAV Photoelectric Sensor Product and Services
 - 2.17.4 Aselsan UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.17.5 Aselsan Recent Developments/Updates
- 2.18 Elcarim Optronics
 - 2.18.1 Elcarim Optronics Details
 - 2.18.2 Elcarim Optronics Major Business
 - 2.18.3 Elcarim Optronics UAV Photoelectric Sensor Product and Services
 - 2.18.4 Elcarim Optronics UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.18.5 Elcarim Optronics Recent Developments/Updates
- 2.19 Resonon Inc
 - 2.19.1 Resonon Inc Details
 - 2.19.2 Resonon Inc Major Business
 - 2.19.3 Resonon Inc UAV Photoelectric Sensor Product and Services
 - 2.19.4 Resonon Inc UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.19.5 Resonon Inc Recent Developments/Updates
- 2.20 Headwall Photonics
 - 2.20.1 Headwall Photonics Details
 - 2.20.2 Headwall Photonics Major Business
 - 2.20.3 Headwall Photonics UAV Photoelectric Sensor Product and Services
 - 2.20.4 Headwall Photonics UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.20.5 Headwall Photonics Recent Developments/Updates
- 2.21 Wuhan Guide Infrared
 - 2.21.1 Wuhan Guide Infrared Details
 - 2.21.2 Wuhan Guide Infrared Major Business
 - 2.21.3 Wuhan Guide Infrared UAV Photoelectric Sensor Product and Services
 - 2.21.4 Wuhan Guide Infrared UAV Photoelectric Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.21.5 Wuhan Guide Infrared Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: UAV PHOTOELECTRIC SENSOR BY MANUFACTURER

- 3.1 Global UAV Photoelectric Sensor Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global UAV Photoelectric Sensor Revenue by Manufacturer (2021-2026)
- 3.3 Global UAV Photoelectric Sensor Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of UAV Photoelectric Sensor by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 UAV Photoelectric Sensor Manufacturer Market Share in 2025
 - 3.4.3 Top 6 UAV Photoelectric Sensor Manufacturer Market Share in 2025
- 3.5 UAV Photoelectric Sensor Market: Overall Company Footprint Analysis
 - 3.5.1 UAV Photoelectric Sensor Market: Region Footprint
 - 3.5.2 UAV Photoelectric Sensor Market: Company Product Type Footprint
 - 3.5.3 UAV Photoelectric Sensor 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 UAV Photoelectric Sensor Market Size by Region
 - 4.1.1 Global UAV Photoelectric Sensor Sales Quantity by Region (2021-2032)
 - 4.1.2 Global UAV Photoelectric Sensor Consumption Value by Region (2021-2032)

- 4.1.3 Global UAV Photoelectric Sensor Average Price by Region (2021-2032)
- 4.2 North America UAV Photoelectric Sensor Consumption Value (2021-2032)
- 4.3 Europe UAV Photoelectric Sensor Consumption Value (2021-2032)
- 4.4 Asia-Pacific UAV Photoelectric Sensor Consumption Value (2021-2032)
- 4.5 South America UAV Photoelectric Sensor Consumption Value (2021-2032)
- 4.6 Middle East & Africa UAV Photoelectric Sensor Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global UAV Photoelectric Sensor Sales Quantity by Type (2021-2032)
- 5.2 Global UAV Photoelectric Sensor Consumption Value by Type (2021-2032)
- 5.3 Global UAV Photoelectric Sensor Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global UAV Photoelectric Sensor Sales Quantity by Application (2021-2032)
- 6.2 Global UAV Photoelectric Sensor Consumption Value by Application (2021-2032)
- 6.3 Global UAV Photoelectric Sensor Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America UAV Photoelectric Sensor Sales Quantity by Type (2021-2032)
- 7.2 North America UAV Photoelectric Sensor Sales Quantity by Application (2021-2032)
- 7.3 North America UAV Photoelectric Sensor Market Size by Country
 - 7.3.1 North America UAV Photoelectric Sensor Sales Quantity by Country (2021-2032)
 - 7.3.2 North America UAV Photoelectric Sensor Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe UAV Photoelectric Sensor Sales Quantity by Type (2021-2032)
- 8.2 Europe UAV Photoelectric Sensor Sales Quantity by Application (2021-2032)
- 8.3 Europe UAV Photoelectric Sensor Market Size by Country
 - 8.3.1 Europe UAV Photoelectric Sensor Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe UAV Photoelectric Sensor Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)

- 8.3.4 France Market Size and Forecast (2021-2032)
- 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
- 8.3.6 Russia Market Size and Forecast (2021-2032)
- 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific UAV Photoelectric Sensor Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific UAV Photoelectric Sensor Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific UAV Photoelectric Sensor Market Size by Region
 - 9.3.1 Asia-Pacific UAV Photoelectric Sensor Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific UAV Photoelectric Sensor Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America UAV Photoelectric Sensor Sales Quantity by Type (2021-2032)
- 10.2 South America UAV Photoelectric Sensor Sales Quantity by Application (2021-2032)
- 10.3 South America UAV Photoelectric Sensor Market Size by Country
 - 10.3.1 South America UAV Photoelectric Sensor Sales Quantity by Country (2021-2032)
 - 10.3.2 South America UAV Photoelectric Sensor Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa UAV Photoelectric Sensor Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa UAV Photoelectric Sensor Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa UAV Photoelectric Sensor Market Size by Country

11.3.1 Middle East & Africa UAV Photoelectric Sensor Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa UAV Photoelectric Sensor Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 UAV Photoelectric Sensor Market Drivers

12.2 UAV Photoelectric Sensor Market Restraints

12.3 UAV Photoelectric Sensor 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 UAV Photoelectric Sensor and Key Manufacturers

13.2 Manufacturing Costs Percentage of UAV Photoelectric Sensor

13.3 UAV Photoelectric Sensor Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 UAV Photoelectric Sensor Typical Distributors

14.3 UAV Photoelectric Sensor 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 UAV Photoelectric Sensor Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global UAV Photoelectric Sensor Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 3. Rafael Advanced Defense Systems Ltd. Basic Information, Manufacturing Base and Competitors

Table 4. Rafael Advanced Defense Systems Ltd. Major Business

Table 5. Rafael Advanced Defense Systems Ltd. UAV Photoelectric Sensor Product and Services

Table 6. Rafael Advanced Defense Systems Ltd. UAV Photoelectric Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 7. Rafael Advanced Defense Systems Ltd. Recent Developments/Updates

Table 8. Raytheon Basic Information, Manufacturing Base and Competitors

Table 9. Raytheon Major Business

Table 10. Raytheon UAV Photoelectric Sensor Product and Services

Table 11. Raytheon UAV Photoelectric Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 12. Raytheon Recent Developments/Updates

Table 13. Headwall Basic Information, Manufacturing Base and Competitors

Table 14. Headwall Major Business

Table 15. Headwall UAV Photoelectric Sensor Product and Services

Table 16. Headwall UAV Photoelectric Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 17. Headwall Recent Developments/Updates

Table 18. Lockheed Martin Basic Information, Manufacturing Base and Competitors

Table 19. Lockheed Martin Major Business

Table 20. Lockheed Martin UAV Photoelectric Sensor Product and Services

Table 21. Lockheed Martin UAV Photoelectric Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 22. Lockheed Martin Recent Developments/Updates

Table 23. Overwatch Imaging Basic Information, Manufacturing Base and Competitors

Table 24. Overwatch Imaging Major Business

Table 25. Overwatch Imaging UAV Photoelectric Sensor Product and Services

Table 26. Overwatch Imaging UAV Photoelectric Sensor Sales Quantity (K Units),

Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 27. Overwatch Imaging Recent Developments/Updates

Table 28. Controp Basic Information, Manufacturing Base and Competitors

Table 29. Controp Major Business

Table 30. Controp UAV Photoelectric Sensor Product and Services

Table 31. Controp UAV Photoelectric Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 32. Controp Recent Developments/Updates

Table 33. Hensoldt Basic Information, Manufacturing Base and Competitors

Table 34. Hensoldt Major Business

Table 35. Hensoldt UAV Photoelectric Sensor Product and Services

Table 36. Hensoldt UAV Photoelectric Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 37. Hensoldt Recent Developments/Updates

Table 38. Teledyne FLIR Basic Information, Manufacturing Base and Competitors

Table 39. Teledyne FLIR Major Business

Table 40. Teledyne FLIR UAV Photoelectric Sensor Product and Services

Table 41. Teledyne FLIR UAV Photoelectric Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 42. Teledyne FLIR Recent Developments/Updates

Table 43. Jonhon Optronic Technology Basic Information, Manufacturing Base and Competitors

Table 44. Jonhon Optronic Technology Major Business

Table 45. Jonhon Optronic Technology UAV Photoelectric Sensor Product and Services

Table 46. Jonhon Optronic Technology UAV Photoelectric Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 47. Jonhon Optronic Technology Recent Developments/Updates

Table 48. Thale Basic Information, Manufacturing Base and Competitors

Table 49. Thale Major Business

Table 50. Thale UAV Photoelectric Sensor Product and Services

Table 51. Thale UAV Photoelectric Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 52. Thale Recent Developments/Updates

Table 53. Northrop Grumman Basic Information, Manufacturing Base and Competitors

Table 54. Northrop Grumman Major Business

Table 55. Northrop Grumman UAV Photoelectric Sensor Product and Services

Table 56. Northrop Grumman UAV Photoelectric Sensor Sales Quantity (K Units),

Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 57. Northrop Grumman Recent Developments/Updates

Table 58. IAI Basic Information, Manufacturing Base and Competitors

Table 59. IAI Major Business

Table 60. IAI UAV Photoelectric Sensor Product and Services

Table 61. IAI UAV Photoelectric Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 62. IAI Recent Developments/Updates

Table 63. BAE Systems Basic Information, Manufacturing Base and Competitors

Table 64. BAE Systems Major Business

Table 65. BAE Systems UAV Photoelectric Sensor Product and Services

Table 66. BAE Systems UAV Photoelectric Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 67. BAE Systems Recent Developments/Updates

Table 68. Elbit Systems Basic Information, Manufacturing Base and Competitors

Table 69. Elbit Systems Major Business

Table 70. Elbit Systems UAV Photoelectric Sensor Product and Services

Table 71. Elbit Systems UAV Photoelectric Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Elbit Systems Recent Developments/Updates

Table 73. Leonardo Basic Information, Manufacturing Base and Competitors

Table 74. Leonardo Major Business

Table 75. Leonardo UAV Photoelectric Sensor Product and Services

Table 76. Leonardo UAV Photoelectric Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 77. Leonardo Recent Developments/Updates

Table 78. Safran Basic Information, Manufacturing Base and Competitors

Table 79. Safran Major Business

Table 80. Safran UAV Photoelectric Sensor Product and Services

Table 81. Safran UAV Photoelectric Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 82. Safran Recent Developments/Updates

Table 83. Aselsan Basic Information, Manufacturing Base and Competitors

Table 84. Aselsan Major Business

Table 85. Aselsan UAV Photoelectric Sensor Product and Services

Table 86. Aselsan UAV Photoelectric Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 87. Aselsan Recent Developments/Updates

Table 88. Elcarim Optronic Basic Information, Manufacturing Base and Competitors
Table 89. Elcarim Optronic Major Business
Table 90. Elcarim Optronic UAV Photoelectric Sensor Product and Services
Table 91. Elcarim Optronic UAV Photoelectric Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 92. Elcarim Optronic Recent Developments/Updates
Table 93. Resonon Inc Basic Information, Manufacturing Base and Competitors
Table 94. Resonon Inc Major Business
Table 95. Resonon Inc UAV Photoelectric Sensor Product and Services
Table 96. Resonon Inc UAV Photoelectric Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Resonon Inc Recent Developments/Updates
Table 98. Headwall Photonics Basic Information, Manufacturing Base and Competitors
Table 99. Headwall Photonics Major Business
Table 100. Headwall Photonics UAV Photoelectric Sensor Product and Services
Table 101. Headwall Photonics UAV Photoelectric Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 102. Headwall Photonics Recent Developments/Updates
Table 103. Wuhan Guide Infrared Basic Information, Manufacturing Base and Competitors
Table 104. Wuhan Guide Infrared Major Business
Table 105. Wuhan Guide Infrared UAV Photoelectric Sensor Product and Services
Table 106. Wuhan Guide Infrared UAV Photoelectric Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 107. Wuhan Guide Infrared Recent Developments/Updates
Table 108. Global UAV Photoelectric Sensor Sales Quantity by Manufacturer (2021-2026) & (K Units)
Table 109. Global UAV Photoelectric Sensor Revenue by Manufacturer (2021-2026) & (USD Million)
Table 110. Global UAV Photoelectric Sensor Average Price by Manufacturer (2021-2026) & (US\$/Unit)
Table 111. Market Position of Manufacturers in UAV Photoelectric Sensor, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 112. Head Office and UAV Photoelectric Sensor Production Site of Key Manufacturer
Table 113. UAV Photoelectric Sensor Market: Company Product Type Footprint
Table 114. UAV Photoelectric Sensor Market: Company Product Application Footprint

Table 115. UAV Photoelectric Sensor New Market Entrants and Barriers to Market Entry

Table 116. UAV Photoelectric Sensor Mergers, Acquisition, Agreements, and Collaborations

Table 117. Global UAV Photoelectric Sensor Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 118. Global UAV Photoelectric Sensor Sales Quantity by Region (2021-2026) & (K Units)

Table 119. Global UAV Photoelectric Sensor Sales Quantity by Region (2027-2032) & (K Units)

Table 120. Global UAV Photoelectric Sensor Consumption Value by Region (2021-2026) & (USD Million)

Table 121. Global UAV Photoelectric Sensor Consumption Value by Region (2027-2032) & (USD Million)

Table 122. Global UAV Photoelectric Sensor Average Price by Region (2021-2026) & (US\$/Unit)

Table 123. Global UAV Photoelectric Sensor Average Price by Region (2027-2032) & (US\$/Unit)

Table 124. Global UAV Photoelectric Sensor Sales Quantity by Type (2021-2026) & (K Units)

Table 125. Global UAV Photoelectric Sensor Sales Quantity by Type (2027-2032) & (K Units)

Table 126. Global UAV Photoelectric Sensor Consumption Value by Type (2021-2026) & (USD Million)

Table 127. Global UAV Photoelectric Sensor Consumption Value by Type (2027-2032) & (USD Million)

Table 128. Global UAV Photoelectric Sensor Average Price by Type (2021-2026) & (US\$/Unit)

Table 129. Global UAV Photoelectric Sensor Average Price by Type (2027-2032) & (US\$/Unit)

Table 130. Global UAV Photoelectric Sensor Sales Quantity by Application (2021-2026) & (K Units)

Table 131. Global UAV Photoelectric Sensor Sales Quantity by Application (2027-2032) & (K Units)

Table 132. Global UAV Photoelectric Sensor Consumption Value by Application (2021-2026) & (USD Million)

Table 133. Global UAV Photoelectric Sensor Consumption Value by Application (2027-2032) & (USD Million)

Table 134. Global UAV Photoelectric Sensor Average Price by Application (2021-2026) & (US\$/Unit)

Table 135. Global UAV Photoelectric Sensor Average Price by Application (2027-2032) & (US\$/Unit)

Table 136. North America UAV Photoelectric Sensor Sales Quantity by Type (2021-2026) & (K Units)

Table 137. North America UAV Photoelectric Sensor Sales Quantity by Type (2027-2032) & (K Units)

Table 138. North America UAV Photoelectric Sensor Sales Quantity by Application (2021-2026) & (K Units)

Table 139. North America UAV Photoelectric Sensor Sales Quantity by Application (2027-2032) & (K Units)

Table 140. North America UAV Photoelectric Sensor Sales Quantity by Country (2021-2026) & (K Units)

Table 141. North America UAV Photoelectric Sensor Sales Quantity by Country (2027-2032) & (K Units)

Table 142. North America UAV Photoelectric Sensor Consumption Value by Country (2021-2026) & (USD Million)

Table 143. North America UAV Photoelectric Sensor Consumption Value by Country (2027-2032) & (USD Million)

Table 144. Europe UAV Photoelectric Sensor Sales Quantity by Type (2021-2026) & (K Units)

Table 145. Europe UAV Photoelectric Sensor Sales Quantity by Type (2027-2032) & (K Units)

Table 146. Europe UAV Photoelectric Sensor Sales Quantity by Application (2021-2026) & (K Units)

Table 147. Europe UAV Photoelectric Sensor Sales Quantity by Application (2027-2032) & (K Units)

Table 148. Europe UAV Photoelectric Sensor Sales Quantity by Country (2021-2026) & (K Units)

Table 149. Europe UAV Photoelectric Sensor Sales Quantity by Country (2027-2032) & (K Units)

Table 150. Europe UAV Photoelectric Sensor Consumption Value by Country (2021-2026) & (USD Million)

Table 151. Europe UAV Photoelectric Sensor Consumption Value by Country (2027-2032) & (USD Million)

Table 152. Asia-Pacific UAV Photoelectric Sensor Sales Quantity by Type (2021-2026) & (K Units)

Table 153. Asia-Pacific UAV Photoelectric Sensor Sales Quantity by Type (2027-2032) & (K Units)

Table 154. Asia-Pacific UAV Photoelectric Sensor Sales Quantity by Application

(2021-2026) & (K Units)

Table 155. Asia-Pacific UAV Photoelectric Sensor Sales Quantity by Application

(2027-2032) & (K Units)

Table 156. Asia-Pacific UAV Photoelectric Sensor Sales Quantity by Region

(2021-2026) & (K Units)

Table 157. Asia-Pacific UAV Photoelectric Sensor Sales Quantity by Region

(2027-2032) & (K Units)

Table 158. Asia-Pacific UAV Photoelectric Sensor Consumption Value by Region

(2021-2026) & (USD Million)

Table 159. Asia-Pacific UAV Photoelectric Sensor Consumption Value by Region

(2027-2032) & (USD Million)

Table 160. South America UAV Photoelectric Sensor Sales Quantity by Type

(2021-2026) & (K Units)

Table 161. South America UAV Photoelectric Sensor Sales Quantity by Type

(2027-2032) & (K Units)

Table 162. South America UAV Photoelectric Sensor Sales Quantity by Application

(2021-2026) & (K Units)

Table 163. South America UAV Photoelectric Sensor Sales Quantity by Application

(2027-2032) & (K Units)

Table 164. South America UAV Photoelectric Sensor Sales Quantity by Country

(2021-2026) & (K Units)

Table 165. South America UAV Photoelectric Sensor Sales Quantity by Country

(2027-2032) & (K Units)

Table 166. South America UAV Photoelectric Sensor Consumption Value by Country

(2021-2026) & (USD Million)

Table 167. South America UAV Photoelectric Sensor Consumption Value by Country

(2027-2032) & (USD Million)

Table 168. Middle East & Africa UAV Photoelectric Sensor Sales Quantity by Type

(2021-2026) & (K Units)

Table 169. Middle East & Africa UAV Photoelectric Sensor Sales Quantity by Type

(2027-2032) & (K Units)

Table 170. Middle East & Africa UAV Photoelectric Sensor Sales Quantity by Application (2021-2026) & (K Units)

Table 171. Middle East & Africa UAV Photoelectric Sensor Sales Quantity by Application (2027-2032) & (K Units)

Table 172. Middle East & Africa UAV Photoelectric Sensor Sales Quantity by Country (2021-2026) & (K Units)

Table 173. Middle East & Africa UAV Photoelectric Sensor Sales Quantity by Country (2027-2032) & (K Units)

Table 174. Middle East & Africa UAV Photoelectric Sensor Consumption Value by Country (2021-2026) & (USD Million)

Table 175. Middle East & Africa UAV Photoelectric Sensor Consumption Value by Country (2027-2032) & (USD Million)

Table 176. UAV Photoelectric Sensor Raw Material

Table 177. Key Manufacturers of UAV Photoelectric Sensor Raw Materials

Table 178. UAV Photoelectric Sensor Typical Distributors

Table 179. UAV Photoelectric Sensor Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. UAV Photoelectric Sensor Picture

Figure 2. Global UAV Photoelectric Sensor Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global UAV Photoelectric Sensor Revenue Market Share by Type in 2025

Figure 4. Hyperspectral Examples

Figure 5. Multispectral Examples

Figure 6. Global UAV Photoelectric Sensor Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 7. Global UAV Photoelectric Sensor Revenue Market Share by Application in 2025

Figure 8. Military Examples

Figure 9. Civilian Examples

Figure 10. Global UAV Photoelectric Sensor Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 11. Global UAV Photoelectric Sensor Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 12. Global UAV Photoelectric Sensor Sales Quantity (2021-2032) & (K Units)

Figure 13. Global UAV Photoelectric Sensor Price (2021-2032) & (US\$/Unit)

Figure 14. Global UAV Photoelectric Sensor Sales Quantity Market Share by Manufacturer in 2025

Figure 15. Global UAV Photoelectric Sensor Revenue Market Share by Manufacturer in 2025

Figure 16. Producer Shipments of UAV Photoelectric Sensor by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 17. Top 3 UAV Photoelectric Sensor Manufacturer (Revenue) Market Share in 2025

Figure 18. Top 6 UAV Photoelectric Sensor Manufacturer (Revenue) Market Share in 2025

Figure 19. Global UAV Photoelectric Sensor Sales Quantity Market Share by Region (2021-2032)

Figure 20. Global UAV Photoelectric Sensor Consumption Value Market Share by Region (2021-2032)

Figure 21. North America UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 22. Europe UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD

Million)

Figure 23. Asia-Pacific UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 24. South America UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 25. Middle East & Africa UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 26. Global UAV Photoelectric Sensor Sales Quantity Market Share by Type (2021-2032)

Figure 27. Global UAV Photoelectric Sensor Consumption Value Market Share by Type (2021-2032)

Figure 28. Global UAV Photoelectric Sensor Average Price by Type (2021-2032) & (US\$/Unit)

Figure 29. Global UAV Photoelectric Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 30. Global UAV Photoelectric Sensor Revenue Market Share by Application (2021-2032)

Figure 31. Global UAV Photoelectric Sensor Average Price by Application (2021-2032) & (US\$/Unit)

Figure 32. North America UAV Photoelectric Sensor Sales Quantity Market Share by Type (2021-2032)

Figure 33. North America UAV Photoelectric Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 34. North America UAV Photoelectric Sensor Sales Quantity Market Share by Country (2021-2032)

Figure 35. North America UAV Photoelectric Sensor Consumption Value Market Share by Country (2021-2032)

Figure 36. United States UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 37. Canada UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 38. Mexico UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 39. Europe UAV Photoelectric Sensor Sales Quantity Market Share by Type (2021-2032)

Figure 40. Europe UAV Photoelectric Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 41. Europe UAV Photoelectric Sensor Sales Quantity Market Share by Country (2021-2032)

Figure 42. Europe UAV Photoelectric Sensor Consumption Value Market Share by Country (2021-2032)

Figure 43. Germany UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 44. France UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 45. United Kingdom UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 46. Russia UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 47. Italy UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 48. Asia-Pacific UAV Photoelectric Sensor Sales Quantity Market Share by Type (2021-2032)

Figure 49. Asia-Pacific UAV Photoelectric Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 50. Asia-Pacific UAV Photoelectric Sensor Sales Quantity Market Share by Region (2021-2032)

Figure 51. Asia-Pacific UAV Photoelectric Sensor Consumption Value Market Share by Region (2021-2032)

Figure 52. China UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 53. Japan UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 54. South Korea UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 55. India UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 56. Southeast Asia UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 57. Australia UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 58. South America UAV Photoelectric Sensor Sales Quantity Market Share by Type (2021-2032)

Figure 59. South America UAV Photoelectric Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 60. South America UAV Photoelectric Sensor Sales Quantity Market Share by Country (2021-2032)

Figure 61. South America UAV Photoelectric Sensor Consumption Value Market Share

by Country (2021-2032)

Figure 62. Brazil UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 63. Argentina UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 64. Middle East & Africa UAV Photoelectric Sensor Sales Quantity Market Share by Type (2021-2032)

Figure 65. Middle East & Africa UAV Photoelectric Sensor Sales Quantity Market Share by Application (2021-2032)

Figure 66. Middle East & Africa UAV Photoelectric Sensor Sales Quantity Market Share by Country (2021-2032)

Figure 67. Middle East & Africa UAV Photoelectric Sensor Consumption Value Market Share by Country (2021-2032)

Figure 68. Turkey UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 69. Egypt UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 70. Saudi Arabia UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 71. South Africa UAV Photoelectric Sensor Consumption Value (2021-2032) & (USD Million)

Figure 72. UAV Photoelectric Sensor Market Drivers

Figure 73. UAV Photoelectric Sensor Market Restraints

Figure 74. UAV Photoelectric Sensor Market Trends

Figure 75. Porters Five Forces Analysis

Figure 76. Manufacturing Cost Structure Analysis of UAV Photoelectric Sensor in 2025

Figure 77. Manufacturing Process Analysis of UAV Photoelectric Sensor

Figure 78. UAV Photoelectric Sensor Industrial Chain

Figure 79. Sales Channel: Direct to End-User vs Distributors

Figure 80. Direct Channel Pros & Cons

Figure 81. Indirect Channel Pros & Cons

Figure 82. Methodology

Figure 83. Research Process and Data Source

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