

Global Low-light Night Vision Technology Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Low-light Night Vision Technology market size is expected to reach \$ 1585 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

Low-light-level night vision technology uses the principles of photoelectric conversion and electron multiplication to amplify weak light sources such as moonlight and starlight (illuminance below 0.1 lux) by thousands to tens of thousands of times, enabling passive nighttime imaging. Its core component is the image intensifier, which comprises a photocathode, a microchannel plate (MCP), and a phosphor screen. Image visualization is achieved through the 'photon ? electron ? multiplication ? photon' process. Gross profit margins can reach 55%-70%. The upstream industry chain focuses on core materials and equipment: photocathode materials (such as gallium arsenide and polyalkali compounds) determine sensitivity and spectral response, MCP materials (high secondary emission coefficient glass) influence electron multiplication efficiency, and vacuum coating equipment and photolithography machines ensure manufacturing precision. The midstream segment encompasses device manufacturing and integration: Manufacturers focus on image intensifier R&D, facing challenges such as photocathode activation processes and MCP aspect ratio control. Integrators couple image intensifiers with CCD/CMOS sensors, optical lenses, and other components to create end products such as night vision devices and scopes. The downstream segment encompasses military, security, and industrial inspection services.

The main market drivers include:

Defense and Security Needs and Policy Guidance

The market development of low-light night vision technology is primarily driven by defense and security strategies and policies. To enhance nighttime combat, border patrol, and counter-terrorism capabilities, various countries have incorporated low-light night vision equipment into their military modernization plans. For example, the demands of modern warfare for nighttime target identification, covert reconnaissance, and precision strikes have prompted the military to procure high-performance low-light night vision equipment on a large scale; border security policies require the deployment of all-weather surveillance systems to address threats such as illegal border crossings and smuggling. Policy-driven factors are not only reflected in equipment procurement budgets and standard setting but also in the promotion of technology transfer to the civilian sector through military-civilian integration policies, forming a market pattern of coordinated 'military-civilian' development and driving the continuous evolution of technology towards higher sensitivity and lower power consumption.

Technological Innovation and Performance Optimization Breakthroughs

Technological progress is the core engine of the low-light night vision market development. Breakthroughs in optical materials, image sensors, and intelligent algorithms are driving the upgrade of equipment from traditional intensifier tubes to digital and intelligent technologies. For example, new low-light CMOS sensors improve nighttime imaging clarity, AI image processing algorithms achieve real-time noise suppression and target enhancement, and miniaturized design makes devices lighter and easier to integrate. Technological convergence is giving rise to new application scenarios—such as drone nighttime reconnaissance, firefighter nighttime search and rescue, and industrial dark environment detection. Through continuous R&D investment, companies adapt to performance requirements in complex environments, forming a virtuous cycle of 'technology iteration - demand upgrade - technology re-iteration,' driving the market towards higher precision and higher reliability.

Expanding Civilian Demand and Ecosystem Collaboration Drive Market Expansion

The increased security awareness and expanded application scenarios in the civilian sector are key drivers of market expansion. With the upgrading of social security needs, the demand for low-light night vision equipment continues to grow in fields such as security monitoring, fire rescue, outdoor sports, and industrial inspection. For example, community security requires nighttime monitoring to prevent theft, fire departments need nighttime search and rescue to improve rescue efficiency, and the industrial sector needs precision operations in dark environments to ensure production safety. Furthermore, cross-industry ecosystem collaboration—such as integration with drones

and intelligent security systems—is driving the diversification and scaling of demand. This balance between security needs and commercial interests prompts the market to find the optimal path between functional expansion and cost optimization, forming a differentiated competitive landscape and driving technology to evolve towards sustainability and cost-effectiveness, ultimately enhancing the overall value of the industry chain.

This report studies the global Low-light Night Vision Technology demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low-light Night Vision Technology, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Low-light Night Vision Technology that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Low-light Night Vision Technology total market, 2021-2032, (USD Million)

Global Low-light Night Vision Technology total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Low-light Night Vision Technology total market, key domestic companies, and share, (USD Million)

Global Low-light Night Vision Technology revenue by player, revenue and market share 2021-2026, (USD Million)

Global Low-light Night Vision Technology total market by Type, CAGR, 2021-2032, (USD Million)

Global Low-light Night Vision Technology total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Low-light Night Vision Technology market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Exosens, L3Harris, Elbit Systems, Katod, Hamamatsu

Photonics, Photek, ARGUS, FLIR (Armasight), Newcon Optik, HARDER digital GmbH, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Low-light Night Vision Technology market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Low-light Night Vision Technology Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Low-light Night Vision Technology Market, Segmentation by Type:

Second Generation and Super Second Generation

Third Generation

Global Low-light Night Vision Technology Market, Segmentation by Product Form:

Tube-type Image Intensifier Technology

Solid-state Image Intensifier Technology

Global Low-light Night Vision Technology Market, Segmentation by Function:

Specialized Night Vision Devices

Reconnaissance and Surveillance Devices

Special Environment Devices

Global Low-light Night Vision Technology Market, Segmentation by End User:

Military

Civilian

Global Low-light Night Vision Technology Market, Segmentation by Application:

Military Reconnaissance

Security Surveillance

Industrial Inspection

Other

Companies Profiled:

Exosens

L3Harris

Elbit Systems

Katod

Hamamatsu Photonics

Photek

ARGUS

FLIR (Armasight)

Newcon Optik

HARDER digital GmbH

Northern Night Vision

Intevac Photonics?EOTECH?

Key Questions Answered

1. How big is the global Low-light Night Vision Technology market?
2. What is the demand of the global Low-light Night Vision Technology market?
3. What is the year over year growth of the global Low-light Night Vision Technology market?
4. What is the total value of the global Low-light Night Vision Technology market?
5. Who are the Major Players in the global Low-light Night Vision Technology market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Low-light Night Vision Technology Introduction
- 1.2 World Low-light Night Vision Technology Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World Low-light Night Vision Technology Total Market by Region (by Headquarter Location)
 - 1.3.1 World Low-light Night Vision Technology Market Size by Region (2021-2032), (by Headquarter Location)
 - 1.3.2 United States Based Company Low-light Night Vision Technology Revenue (2021-2032)
 - 1.3.3 China Based Company Low-light Night Vision Technology Revenue (2021-2032)
 - 1.3.4 Europe Based Company Low-light Night Vision Technology Revenue (2021-2032)
 - 1.3.5 Japan Based Company Low-light Night Vision Technology Revenue (2021-2032)
 - 1.3.6 South Korea Based Company Low-light Night Vision Technology Revenue (2021-2032)
 - 1.3.7 ASEAN Based Company Low-light Night Vision Technology Revenue (2021-2032)
 - 1.3.8 India Based Company Low-light Night Vision Technology Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Low-light Night Vision Technology Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Low-light Night Vision Technology Consumption Value (2021-2032)
- 2.2 World Low-light Night Vision Technology Consumption Value by Region
 - 2.2.1 World Low-light Night Vision Technology Consumption Value by Region (2021-2026)
 - 2.2.2 World Low-light Night Vision Technology Consumption Value Forecast by Region (2027-2032)
- 2.3 United States Low-light Night Vision Technology Consumption Value (2021-2032)
- 2.4 China Low-light Night Vision Technology Consumption Value (2021-2032)
- 2.5 Europe Low-light Night Vision Technology Consumption Value (2021-2032)
- 2.6 Japan Low-light Night Vision Technology Consumption Value (2021-2032)

- 2.7 South Korea Low-light Night Vision Technology Consumption Value (2021-2032)
- 2.8 ASEAN Low-light Night Vision Technology Consumption Value (2021-2032)
- 2.9 India Low-light Night Vision Technology Consumption Value (2021-2032)

3 WORLD LOW-LIGHT NIGHT VISION TECHNOLOGY COMPANIES COMPETITIVE ANALYSIS

- 3.1 World Low-light Night Vision Technology Revenue by Player (2021-2026)
- 3.2 Industry Rank and Concentration Rate (CR)
 - 3.2.1 Global Low-light Night Vision Technology Industry Rank of Major Players
 - 3.2.2 Global Concentration Ratios (CR4) for Low-light Night Vision Technology in 2025
 - 3.2.3 Global Concentration Ratios (CR8) for Low-light Night Vision Technology in 2025
- 3.3 Low-light Night Vision Technology Company Evaluation Quadrant
- 3.4 Low-light Night Vision Technology Market: Overall Company Footprint Analysis
 - 3.4.1 Low-light Night Vision Technology Market: Region Footprint
 - 3.4.2 Low-light Night Vision Technology Market: Company Product Type Footprint
 - 3.4.3 Low-light Night Vision Technology Market: Company Product Application Footprint
- 3.5 Competitive Environment
 - 3.5.1 Historical Structure of the Industry
 - 3.5.2 Barriers of Market Entry
 - 3.5.3 Factors of Competition
- 3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

- 4.1 United States VS China: Low-light Night Vision Technology Revenue Comparison (by Headquarter Location)
 - 4.1.1 United States VS China: Low-light Night Vision Technology Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)
 - 4.1.2 United States VS China: Low-light Night Vision Technology Revenue Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States Based Companies VS China Based Companies: Low-light Night Vision Technology Consumption Value Comparison
 - 4.2.1 United States VS China: Low-light Night Vision Technology Consumption Value Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Low-light Night Vision Technology Consumption Value Market Share Comparison (2021 & 2025 & 2032)

4.3 United States Based Low-light Night Vision Technology Companies and Market Share, 2021-2026

4.3.1 United States Based Low-light Night Vision Technology Companies, Headquarters (States, Country)

4.3.2 United States Based Companies Low-light Night Vision Technology Revenue, (2021-2026)

4.4 China Based Companies Low-light Night Vision Technology Revenue and Market Share, 2021-2026

4.4.1 China Based Low-light Night Vision Technology Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies Low-light Night Vision Technology Revenue, (2021-2026)

4.5 Rest of World Based Low-light Night Vision Technology Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Low-light Night Vision Technology Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Low-light Night Vision Technology Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Low-light Night Vision Technology Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Second Generation and Super Second Generation

5.2.2 Third Generation

5.3 Market Segment by Type

5.3.1 World Low-light Night Vision Technology Market Size by Type (2021-2026)

5.3.2 World Low-light Night Vision Technology Market Size by Type (2027-2032)

5.3.3 World Low-light Night Vision Technology Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY PRODUCT FORM

6.1 World Low-light Night Vision Technology Market Size Overview by Product Form: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Product Form

6.2.1 Tube-type Image Intensifier Technology

6.2.2 Solid-state Image Intensifier Technology

6.3 Market Segment by Product Form

6.3.1 World Low-light Night Vision Technology Market Size by Product Form (2021-2026)

6.3.2 World Low-light Night Vision Technology Market Size by Product Form (2027-2032)

6.3.3 World Low-light Night Vision Technology Market Size Market Share by Product Form (2027-2032)

7 MARKET ANALYSIS BY FUNCTION

7.1 World Low-light Night Vision Technology Market Size Overview by Function: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Function

7.2.1 Specialized Night Vision Devices

7.2.2 Reconnaissance and Surveillance Devices

7.2.3 Special Environment Devices

7.3 Market Segment by Function

7.3.1 World Low-light Night Vision Technology Market Size by Function (2021-2026)

7.3.2 World Low-light Night Vision Technology Market Size by Function (2027-2032)

7.3.3 World Low-light Night Vision Technology Market Size Market Share by Function (2027-2032)

8 MARKET ANALYSIS BY END USER

8.1 World Low-light Night Vision Technology Market Size Overview by End User: 2021 VS 2025 VS 2032

8.2 Segment Introduction by End User

8.2.1 Military

8.2.2 Civilian

8.3 Market Segment by End User

8.3.1 World Low-light Night Vision Technology Market Size by End User (2021-2026)

8.3.2 World Low-light Night Vision Technology Market Size by End User (2027-2032)

8.3.3 World Low-light Night Vision Technology Market Size Market Share by End User (2027-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Low-light Night Vision Technology Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

- 9.2.1 Military Reconnaissance
- 9.2.2 Security Surveillance
- 9.2.3 Industrial Inspection
- 9.2.4 Other

9.3 Market Segment by Application

- 9.3.1 World Low-light Night Vision Technology Market Size by Application (2021-2026)
- 9.3.2 World Low-light Night Vision Technology Market Size by Application (2027-2032)
- 9.3.3 World Low-light Night Vision Technology Market Size Market Share by Application (2021-2032)

10 COMPANY PROFILES

10.1 Exosens

- 10.1.1 Exosens Details
- 10.1.2 Exosens Major Business
- 10.1.3 Exosens Low-light Night Vision Technology Product and Services
- 10.1.4 Exosens Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026)
- 10.1.5 Exosens Recent Developments/Updates
- 10.1.6 Exosens Competitive Strengths & Weaknesses

10.2 L3Harris

- 10.2.1 L3Harris Details
- 10.2.2 L3Harris Major Business
- 10.2.3 L3Harris Low-light Night Vision Technology Product and Services
- 10.2.4 L3Harris Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026)
- 10.2.5 L3Harris Recent Developments/Updates
- 10.2.6 L3Harris Competitive Strengths & Weaknesses

10.3 Elbit Systems

- 10.3.1 Elbit Systems Details
- 10.3.2 Elbit Systems Major Business
- 10.3.3 Elbit Systems Low-light Night Vision Technology Product and Services
- 10.3.4 Elbit Systems Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026)
- 10.3.5 Elbit Systems Recent Developments/Updates
- 10.3.6 Elbit Systems Competitive Strengths & Weaknesses

10.4 Katod

- 10.4.1 Katod Details

- 10.4.2 Katod Major Business
- 10.4.3 Katod Low-light Night Vision Technology Product and Services
- 10.4.4 Katod Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026)
- 10.4.5 Katod Recent Developments/Updates
- 10.4.6 Katod Competitive Strengths & Weaknesses
- 10.5 Hamamatsu Photonics
 - 10.5.1 Hamamatsu Photonics Details
 - 10.5.2 Hamamatsu Photonics Major Business
 - 10.5.3 Hamamatsu Photonics Low-light Night Vision Technology Product and Services
 - 10.5.4 Hamamatsu Photonics Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 10.5.5 Hamamatsu Photonics Recent Developments/Updates
 - 10.5.6 Hamamatsu Photonics Competitive Strengths & Weaknesses
- 10.6 Photek
 - 10.6.1 Photek Details
 - 10.6.2 Photek Major Business
 - 10.6.3 Photek Low-light Night Vision Technology Product and Services
 - 10.6.4 Photek Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 10.6.5 Photek Recent Developments/Updates
 - 10.6.6 Photek Competitive Strengths & Weaknesses
- 10.7 ARGUS
 - 10.7.1 ARGUS Details
 - 10.7.2 ARGUS Major Business
 - 10.7.3 ARGUS Low-light Night Vision Technology Product and Services
 - 10.7.4 ARGUS Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 10.7.5 ARGUS Recent Developments/Updates
 - 10.7.6 ARGUS Competitive Strengths & Weaknesses
- 10.8 FLIR (Armasight)
 - 10.8.1 FLIR (Armasight) Details
 - 10.8.2 FLIR (Armasight) Major Business
 - 10.8.3 FLIR (Armasight) Low-light Night Vision Technology Product and Services
 - 10.8.4 FLIR (Armasight) Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 10.8.5 FLIR (Armasight) Recent Developments/Updates
 - 10.8.6 FLIR (Armasight) Competitive Strengths & Weaknesses
- 10.9 Newcon Optik

- 10.9.1 Newcon Optik Details
- 10.9.2 Newcon Optik Major Business
- 10.9.3 Newcon Optik Low-light Night Vision Technology Product and Services
- 10.9.4 Newcon Optik Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026)
- 10.9.5 Newcon Optik Recent Developments/Updates
- 10.9.6 Newcon Optik Competitive Strengths & Weaknesses
- 10.10 HARDER digital GmbH
- 10.10.1 HARDER digital GmbH Details
- 10.10.2 HARDER digital GmbH Major Business
- 10.10.3 HARDER digital GmbH Low-light Night Vision Technology Product and Services
- 10.10.4 HARDER digital GmbH Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026)
- 10.10.5 HARDER digital GmbH Recent Developments/Updates
- 10.10.6 HARDER digital GmbH Competitive Strengths & Weaknesses
- 10.11 Northern Night Vision
- 10.11.1 Northern Night Vision Details
- 10.11.2 Northern Night Vision Major Business
- 10.11.3 Northern Night Vision Low-light Night Vision Technology Product and Services
- 10.11.4 Northern Night Vision Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026)
- 10.11.5 Northern Night Vision Recent Developments/Updates
- 10.11.6 Northern Night Vision Competitive Strengths & Weaknesses
- 10.12 Intevac Photonics?EOTECH?
- 10.12.1 Intevac Photonics?EOTECH? Details
- 10.12.2 Intevac Photonics?EOTECH? Major Business
- 10.12.3 Intevac Photonics?EOTECH? Low-light Night Vision Technology Product and Services
- 10.12.4 Intevac Photonics?EOTECH? Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026)
- 10.12.5 Intevac Photonics?EOTECH? Recent Developments/Updates
- 10.12.6 Intevac Photonics?EOTECH? Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

- 11.1 Low-light Night Vision Technology Industry Chain
- 11.2 Low-light Night Vision Technology Upstream Analysis
- 11.3 Low-light Night Vision Technology Midstream Analysis

11.4 Low-light Night Vision Technology Downstream Analysis

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology

13.2 Research Process and Data Source

13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Low-light Night Vision Technology Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World Low-light Night Vision Technology Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World Low-light Night Vision Technology Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World Low-light Night Vision Technology Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World Low-light Night Vision Technology Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World Low-light Night Vision Technology Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World Low-light Night Vision Technology Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World Low-light Night Vision Technology Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World Low-light Night Vision Technology Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key Low-light Night Vision Technology Players in 2025

Table 12. World Low-light Night Vision Technology Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global Low-light Night Vision Technology Company Evaluation Quadrant

Table 14. Head Office of Key Low-light Night Vision Technology Players

Table 15. Low-light Night Vision Technology Market: Company Product Type Footprint

Table 16. Low-light Night Vision Technology Market: Company Product Application Footprint

Table 17. Low-light Night Vision Technology Mergers & Acquisitions Activity

Table 18. United States VS China Low-light Night Vision Technology Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China Low-light Night Vision Technology Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based Low-light Night Vision Technology Companies, Headquarters (States, Country)

Table 21. United States Based Companies Low-light Night Vision Technology Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies Low-light Night Vision Technology Revenue Market Share (2021-2026)

Table 23. China Based Low-light Night Vision Technology Companies, Headquarters (Province, Country)

Table 24. China Based Companies Low-light Night Vision Technology Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies Low-light Night Vision Technology Revenue Market Share (2021-2026)

Table 26. Rest of World Based Low-light Night Vision Technology Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies Low-light Night Vision Technology Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies Low-light Night Vision Technology Revenue Market Share (2021-2026)

Table 29. World Low-light Night Vision Technology Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World Low-light Night Vision Technology Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World Low-light Night Vision Technology Market Size by Type (2027-2032) & (USD Million)

Table 32. World Low-light Night Vision Technology Market Size by Product Form, (USD Million), 2021 & 2025 & 2032

Table 33. World Low-light Night Vision Technology Market Size Value by Product Form (2021-2026) & (USD Million)

Table 34. World Low-light Night Vision Technology Market Size by Product Form (2027-2032) & (USD Million)

Table 35. World Low-light Night Vision Technology Market Size by Function, (USD Million), 2021 & 2025 & 2032

Table 36. World Low-light Night Vision Technology Market Size Value by Function (2021-2026) & (USD Million)

Table 37. World Low-light Night Vision Technology Market Size by Function (2027-2032) & (USD Million)

Table 38. World Low-light Night Vision Technology Market Size by End User, (USD Million), 2021 & 2025 & 2032

Table 39. World Low-light Night Vision Technology Market Size Value by End User (2021-2026) & (USD Million)

Table 40. World Low-light Night Vision Technology Market Size by End User

(2027-2032) & (USD Million)

Table 41. World Low-light Night Vision Technology Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 42. World Low-light Night Vision Technology Market Size by Application (2021-2026) & (USD Million)

Table 43. World Low-light Night Vision Technology Market Size by Application (2027-2032) & (USD Million)

Table 44. Exosens Basic Information, Manufacturing Base and Competitors

Table 45. Exosens Major Business

Table 46. Exosens Low-light Night Vision Technology Product and Services

Table 47. Exosens Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 48. Exosens Recent Developments/Updates

Table 49. Exosens Competitive Strengths & Weaknesses

Table 50. L3Harris Basic Information, Manufacturing Base and Competitors

Table 51. L3Harris Major Business

Table 52. L3Harris Low-light Night Vision Technology Product and Services

Table 53. L3Harris Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 54. L3Harris Recent Developments/Updates

Table 55. L3Harris Competitive Strengths & Weaknesses

Table 56. Elbit Systems Basic Information, Manufacturing Base and Competitors

Table 57. Elbit Systems Major Business

Table 58. Elbit Systems Low-light Night Vision Technology Product and Services

Table 59. Elbit Systems Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 60. Elbit Systems Recent Developments/Updates

Table 61. Elbit Systems Competitive Strengths & Weaknesses

Table 62. Katod Basic Information, Manufacturing Base and Competitors

Table 63. Katod Major Business

Table 64. Katod Low-light Night Vision Technology Product and Services

Table 65. Katod Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 66. Katod Recent Developments/Updates

Table 67. Katod Competitive Strengths & Weaknesses

Table 68. Hamamatsu Photonics Basic Information, Manufacturing Base and Competitors

Table 69. Hamamatsu Photonics Major Business

Table 70. Hamamatsu Photonics Low-light Night Vision Technology Product and

Services

Table 71. Hamamatsu Photonics Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 72. Hamamatsu Photonics Recent Developments/Updates

Table 73. Hamamatsu Photonics Competitive Strengths & Weaknesses

Table 74. Photek Basic Information, Manufacturing Base and Competitors

Table 75. Photek Major Business

Table 76. Photek Low-light Night Vision Technology Product and Services

Table 77. Photek Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 78. Photek Recent Developments/Updates

Table 79. Photek Competitive Strengths & Weaknesses

Table 80. ARGUS Basic Information, Manufacturing Base and Competitors

Table 81. ARGUS Major Business

Table 82. ARGUS Low-light Night Vision Technology Product and Services

Table 83. ARGUS Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 84. ARGUS Recent Developments/Updates

Table 85. ARGUS Competitive Strengths & Weaknesses

Table 86. FLIR (Armasight) Basic Information, Manufacturing Base and Competitors

Table 87. FLIR (Armasight) Major Business

Table 88. FLIR (Armasight) Low-light Night Vision Technology Product and Services

Table 89. FLIR (Armasight) Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 90. FLIR (Armasight) Recent Developments/Updates

Table 91. FLIR (Armasight) Competitive Strengths & Weaknesses

Table 92. Newcon Optik Basic Information, Manufacturing Base and Competitors

Table 93. Newcon Optik Major Business

Table 94. Newcon Optik Low-light Night Vision Technology Product and Services

Table 95. Newcon Optik Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 96. Newcon Optik Recent Developments/Updates

Table 97. Newcon Optik Competitive Strengths & Weaknesses

Table 98. HARDER digital GmbH Basic Information, Manufacturing Base and Competitors

Table 99. HARDER digital GmbH Major Business

Table 100. HARDER digital GmbH Low-light Night Vision Technology Product and Services

Table 101. HARDER digital GmbH Low-light Night Vision Technology Revenue, Gross

Margin and Market Share (2021-2026) & (USD Million)

Table 102. HARDER digital GmbH Recent Developments/Updates

Table 103. HARDER digital GmbH Competitive Strengths & Weaknesses

Table 104. Northern Night Vision Basic Information, Manufacturing Base and Competitors

Table 105. Northern Night Vision Major Business

Table 106. Northern Night Vision Low-light Night Vision Technology Product and Services

Table 107. Northern Night Vision Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 108. Northern Night Vision Recent Developments/Updates

Table 109. Northern Night Vision Competitive Strengths & Weaknesses

Table 110. Intevac Photonics?EOTECH? Basic Information, Manufacturing Base and Competitors

Table 111. Intevac Photonics?EOTECH? Major Business

Table 112. Intevac Photonics?EOTECH? Low-light Night Vision Technology Product and Services

Table 113. Intevac Photonics?EOTECH? Low-light Night Vision Technology Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 114. Intevac Photonics?EOTECH? Recent Developments/Updates

Table 115. Intevac Photonics?EOTECH? Competitive Strengths & Weaknesses

Table 116. Global Key Players of Low-light Night Vision Technology Upstream (Raw Materials)

Table 117. Global Low-light Night Vision Technology Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Low-light Night Vision Technology Picture

Figure 2. World Low-light Night Vision Technology Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Low-light Night Vision Technology Total Revenue (2021-2032) & (USD Million)

Figure 4. World Low-light Night Vision Technology Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World Low-light Night Vision Technology Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company Low-light Night Vision Technology Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company Low-light Night Vision Technology Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company Low-light Night Vision Technology Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company Low-light Night Vision Technology Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company Low-light Night Vision Technology Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company Low-light Night Vision Technology Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company Low-light Night Vision Technology Revenue (2021-2032) & (USD Million)

Figure 13. Low-light Night Vision Technology Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Low-light Night Vision Technology Consumption Value (2021-2032) & (USD Million)

Figure 16. World Low-light Night Vision Technology Consumption Value Market Share by Region (2021-2032)

Figure 17. United States Low-light Night Vision Technology Consumption Value (2021-2032) & (USD Million)

Figure 18. China Low-light Night Vision Technology Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe Low-light Night Vision Technology Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan Low-light Night Vision Technology Consumption Value (2021-2032) & (USD Million)

Figure 21. South Korea Low-light Night Vision Technology Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN Low-light Night Vision Technology Consumption Value (2021-2032) & (USD Million)

Figure 23. India Low-light Night Vision Technology Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of Low-light Night Vision Technology by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Low-light Night Vision Technology Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Low-light Night Vision Technology Markets in 2025

Figure 27. United States VS China: Low-light Night Vision Technology Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Low-light Night Vision Technology Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World Low-light Night Vision Technology Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World Low-light Night Vision Technology Market Size Market Share by Type in 2025

Figure 31. Second Generation and Super Second Generation

Figure 32. Third Generation

Figure 33. World Low-light Night Vision Technology Market Size Market Share by Type (2021-2032)

Figure 34. World Low-light Night Vision Technology Market Size by Product Form, (USD Million), 2021 & 2025 & 2032

Figure 35. World Low-light Night Vision Technology Market Size Market Share by Product Form in 2025

Figure 36. Tube-type Image Intensifier Technology

Figure 37. Solid-state Image Intensifier Technology

Figure 38. World Low-light Night Vision Technology Market Size Market Share by Product Form (2021-2032)

Figure 39. World Low-light Night Vision Technology Market Size by Function, (USD Million), 2021 & 2025 & 2032

Figure 40. World Low-light Night Vision Technology Market Size Market Share by Function in 2025

Figure 41. Specialized Night Vision Devices

- Figure 42. Reconnaissance and Surveillance Devices
- Figure 43. Special Environment Devices
- Figure 44. World Low-light Night Vision Technology Market Size Market Share by Function (2021-2032)
- Figure 45. World Low-light Night Vision Technology Market Size by End User, (USD Million), 2021 & 2025 & 2032
- Figure 46. World Low-light Night Vision Technology Market Size Market Share by End User in 2025
- Figure 47. Military
- Figure 48. Civilian
- Figure 49. World Low-light Night Vision Technology Market Size Market Share by End User (2021-2032)
- Figure 50. World Low-light Night Vision Technology Market Size by Application, (USD Million), 2021 & 2025 & 2032
- Figure 51. World Low-light Night Vision Technology Market Size Market Share by Application in 2025
- Figure 52. Military Reconnaissance
- Figure 53. Security Surveillance
- Figure 54. Industrial Inspection
- Figure 55. Other
- Figure 56. World Low-light Night Vision Technology Market Size Market Share by Application (2021-2032)
- Figure 57. Low-light Night Vision Technology Industrial Chain
- Figure 58. Methodology
- Figure 59. Research Process and Data Source

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