

Global 4G Image Intensifier Tube Market Growth 2026-2032

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Abstracts

The global 4G Image Intensifier Tube market size is predicted to grow from US\$ 73.76 million in 2025 to US\$ 124 million in 2032; it is expected to grow at a CAGR of 7.8% from 2026 to 2032.

4G image intensifier tube is a type of technology grade product of high-performance night vision image enhancement tube, mainly used to convert and amplify weak visible light and near-infrared light at night into observable images. It is the core component of individual night vision devices, helmet night vision systems, weapon sights, vehicle night vision equipment, and border defense photoelectric detection systems. Its working principle is that weak light first enters the photocathode and is converted into electrons. The electrons are multiplied and amplified by the microchannel plate, and then bombard the fluorescent screen to form a visible image, which is then output by the eyepiece or imaging system. 4G image enhancement tubes typically emphasize wide spectral response, high signal-to-noise ratio, high resolution, small halo, fast automatic gating, and strong light protection capabilities. Their performance is higher than that of ordinary second-generation and some third-generation image enhancement tubes, and they can maintain clear image quality in low light, strong weak light switching, complex backgrounds, and rapidly moving scenes. Its main costs are concentrated in the areas of photocathode, microchannel board, vacuum packaging, high-voltage power supply, fluorescent screen, testing and screening, and yield loss. Downstream demand mainly comes from military and police equipment, night vision machines, border monitoring, unmanned reconnaissance, security patrols, and research low light imaging. In 2025, global 4G Image Intensifier Tube production reached approximately 5,200 Units, with an average global market price of around US\$ 14,500 per unit. The annual production capacity of 4G image enhancement tubes is 8,000 unit, with a gross profit margin of about 40%.

The upstream mainly includes photocathode materials, microchannel glass substrates, fluorescent powders, vacuum ceramic packaging components, metal alloy structural components, high-voltage power modules, ion barrier film materials, coating materials, precision machining equipment, vacuum packaging equipment, detection instruments, and clean manufacturing supporting enterprises. Photocathode materials, microchannel plates, and vacuum packaging equipment are key factors determining performance and yield.

The downstream mainly includes individual night vision devices, helmet night vision systems, weapon sights, vehicle mounted night vision observation systems, unmanned aerial vehicle night reconnaissance equipment, border and coastal defense monitoring equipment, police night vision equipment, low light security systems, scientific research imaging equipment, and special optoelectronic detection systems. Our main customers include military and police equipment manufacturers, night vision device manufacturers, optoelectronic system integrators, defense procurement agencies, border security units, and high-end scientific research imaging equipment enterprises.

In the cost structure, photocathodes and microchannel plates account for about 32%, vacuum packaging and shell structures account for about 18%, high-voltage power supplies and automatic gate control modules account for about 14%, fluorescent screens and coating materials account for about 9%, precision manufacturing labor and clean environment costs account for about 10%, testing screening and reliability verification account for about 11%, and manufacturing losses, yield losses, and quality traceability account for about 6%.

4G image intensifier tube belong to high-end optoelectronic devices with high barriers, small batches, and high unit prices. Although the market size is not large, their technological content and strategic value are relatively high. With the increasing demand for night combat, border patrol, counter-terrorism law enforcement, unmanned platform reconnaissance, and complex environmental security, high-performance night vision equipment is upgrading from a single observation function to high-definition, lightweight, low-power, wide spectrum, and digital fusion. This will continue to drive the growth of demand for 4G image enhancement tubes and high-performance chips of the same level. From the supply side, this field is limited by the preparation of photocathodes, microchannel plate consistency, vacuum packaging yield, FOM value screening, and military certification system. The number of enterprises that can stably supply in bulk worldwide is relatively small, the market concentration is high, and the price is not easy to quickly decline. In the medium to long term, pure digital low light

sensors, thermal imaging, and multispectral fusion systems will exert some substitution pressure on traditional image enhancement tubes. However, high-performance image enhancement tubes still have significant advantages in real-time performance, low latency, low power consumption, passive imaging, and individual wearing experience. Therefore, 4G image enhancement tubes are more likely to be integrated with digital night vision, thermal imaging, and augmented reality display modules in the future, rather than being completely replaced by a single technology. The market opportunities mainly focus on high FOM value products, lightweight 16mm tubes, automatic door control tubes, low halo tubes, and overall system upgrades.

LP Information, Inc. (LPI) ' newest research report, the "4G Image Intensifier Tube Industry Forecast" looks at past sales and reviews total world 4G Image Intensifier Tube sales in 2025, providing a comprehensive analysis by region and market sector of projected 4G Image Intensifier Tube sales for 2026 through 2032. With 4G Image Intensifier Tube sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 4G Image Intensifier Tube industry.

This Insight Report provides a comprehensive analysis of the global 4G Image Intensifier Tube landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 4G Image Intensifier Tube portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 4G Image Intensifier Tube market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 4G Image Intensifier Tube and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 4G Image Intensifier Tube.

This report presents a comprehensive overview, market shares, and growth opportunities of 4G Image Intensifier Tube market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

16mm

18mm

Segmentation by Figure of Merit (FOM):

Figure of Merit (FOM) 2200

Figure of Merit (FOM) 2500

Segmentation by Application:

Night Vision Equipment

Weapon Sights

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Exosens(Photonis Defense)

Key Questions Addressed in this Report

What is the 10-year outlook for the global 4G Image Intensifier Tube market?

What factors are driving 4G Image Intensifier Tube market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 4G Image Intensifier Tube market opportunities vary by end market size?

How does 4G Image Intensifier Tube break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global 4G Image Intensifier Tube Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for 4G Image Intensifier Tube by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for 4G Image Intensifier Tube by Country/Region, 2021, 2025 & 2032
- 2.2 4G Image Intensifier Tube Segment by Type
 - 2.2.1 16mm
 - 2.2.2 18mm
 - 2.2.3 4G Image Intensifier Tube Sales by Type
 - 2.2.3.1 Global 4G Image Intensifier Tube Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global 4G Image Intensifier Tube Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global 4G Image Intensifier Tube Sale Price by Type (2021-2026)
- 2.3 4G Image Intensifier Tube Segment by Figure of Merit (FOM)
 - 2.3.1 Figure of Merit (FOM) 2200
 - 2.3.2 Figure of Merit (FOM) 2500
 - 2.3.3 4G Image Intensifier Tube Sales by Figure of Merit (FOM)
 - 2.3.3.1 Global 4G Image Intensifier Tube Sales Market Share by Figure of Merit (FOM) (2021-2026)
 - 2.3.3.2 Global 4G Image Intensifier Tube Revenue and Market Share by Figure of Merit (FOM) (2021-2026)
 - 2.3.3.3 Global 4G Image Intensifier Tube Sale Price by Figure of Merit (FOM) (2021-2026)

2.4 4G Image Intensifier Tube Segment by Application

2.4.1 Night Vision Equipment

2.4.2 Weapon Sights

2.4.3 Other

2.4.4 4G Image Intensifier Tube Sales by Application

2.4.4.1 Global 4G Image Intensifier Tube Sale Market Share by Application
(2021-2026)

2.4.4.2 Global 4G Image Intensifier Tube Revenue and Market Share by Application
(2021-2026)

2.4.4.3 Global 4G Image Intensifier Tube Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global 4G Image Intensifier Tube Breakdown Data by Company

3.1.1 Global 4G Image Intensifier Tube Annual Sales by Company (2021-2026)

3.1.2 Global 4G Image Intensifier Tube Sales Market Share by Company (2021-2026)

3.2 Global 4G Image Intensifier Tube Annual Revenue by Company (2021-2026)

3.2.1 Global 4G Image Intensifier Tube Revenue by Company (2021-2026)

3.2.2 Global 4G Image Intensifier Tube Revenue Market Share by Company
(2021-2026)

3.3 Global 4G Image Intensifier Tube Sale Price by Company

3.4 Key Manufacturers 4G Image Intensifier Tube Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers 4G Image Intensifier Tube Product Location Distribution

3.4.2 Players 4G Image Intensifier Tube Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR 4G IMAGE INTENSIFIER TUBE BY GEOGRAPHIC REGION

4.1 World Historic 4G Image Intensifier Tube Market Size by Geographic Region
(2021-2026)

4.1.1 Global 4G Image Intensifier Tube Annual Sales by Geographic Region
(2021-2026)

4.1.2 Global 4G Image Intensifier Tube Annual Revenue by Geographic Region

(2021-2026)

4.2 World Historic 4G Image Intensifier Tube Market Size by Country/Region

(2021-2026)

4.2.1 Global 4G Image Intensifier Tube Annual Sales by Country/Region (2021-2026)

4.2.2 Global 4G Image Intensifier Tube Annual Revenue by Country/Region

(2021-2026)

4.3 Americas 4G Image Intensifier Tube Sales Growth

4.4 APAC 4G Image Intensifier Tube Sales Growth

4.5 Europe 4G Image Intensifier Tube Sales Growth

4.6 Middle East & Africa 4G Image Intensifier Tube Sales Growth

5 AMERICAS

5.1 Americas 4G Image Intensifier Tube Sales by Country

5.1.1 Americas 4G Image Intensifier Tube Sales by Country (2021-2026)

5.1.2 Americas 4G Image Intensifier Tube Revenue by Country (2021-2026)

5.2 Americas 4G Image Intensifier Tube Sales by Type (2021-2026)

5.3 Americas 4G Image Intensifier Tube Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC 4G Image Intensifier Tube Sales by Region

6.1.1 APAC 4G Image Intensifier Tube Sales by Region (2021-2026)

6.1.2 APAC 4G Image Intensifier Tube Revenue by Region (2021-2026)

6.2 APAC 4G Image Intensifier Tube Sales by Type (2021-2026)

6.3 APAC 4G Image Intensifier Tube Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe 4G Image Intensifier Tube by Country

7.1.1 Europe 4G Image Intensifier Tube Sales by Country (2021-2026)

7.1.2 Europe 4G Image Intensifier Tube Revenue by Country (2021-2026)

7.2 Europe 4G Image Intensifier Tube Sales by Type (2021-2026)

7.3 Europe 4G Image Intensifier Tube Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa 4G Image Intensifier Tube by Country

8.1.1 Middle East & Africa 4G Image Intensifier Tube Sales by Country (2021-2026)

8.1.2 Middle East & Africa 4G Image Intensifier Tube Revenue by Country
(2021-2026)

8.2 Middle East & Africa 4G Image Intensifier Tube Sales by Type (2021-2026)

8.3 Middle East & Africa 4G Image Intensifier Tube Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of 4G Image Intensifier Tube

10.3 Manufacturing Process Analysis of 4G Image Intensifier Tube

10.4 Industry Chain Structure of 4G Image Intensifier Tube

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 4G Image Intensifier Tube Distributors

11.3 4G Image Intensifier Tube Customer

12 WORLD FORECAST REVIEW FOR 4G IMAGE INTENSIFIER TUBE BY GEOGRAPHIC REGION

12.1 Global 4G Image Intensifier Tube Market Size Forecast by Region

12.1.1 Global 4G Image Intensifier Tube Forecast by Region (2027-2032)

12.1.2 Global 4G Image Intensifier Tube Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global 4G Image Intensifier Tube Forecast by Type (2027-2032)

12.7 Global 4G Image Intensifier Tube Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Exosens(Photonis Defense)

13.1.1 Exosens(Photonis Defense) Company Information

13.1.2 Exosens(Photonis Defense) 4G Image Intensifier Tube Product Portfolios and Specifications

13.1.3 Exosens(Photonis Defense) 4G Image Intensifier Tube Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Exosens(Photonis Defense) Main Business Overview

13.1.5 Exosens(Photonis Defense) Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. 4G Image Intensifier Tube Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. 4G Image Intensifier Tube Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of 16mm
- Table 4. Major Players of 18mm
- Table 5. Global 4G Image Intensifier Tube Sales by Type (2021-2026) & (Units)
- Table 6. Global 4G Image Intensifier Tube Sales Market Share by Type (2021-2026)
- Table 7. Global 4G Image Intensifier Tube Revenue by Type (2021-2026) & (\$ million)
- Table 8. Global 4G Image Intensifier Tube Revenue Market Share by Type (2021-2026)
- Table 9. Global 4G Image Intensifier Tube Sale Price by Type (2021-2026) & (US\$/Unit)
- Table 10. Major Players of Figure of Merit (FOM) 2200
- Table 11. Major Players of Figure of Merit (FOM) 2500
- Table 12. Global 4G Image Intensifier Tube Sales by Figure of Merit (FOM) (2021-2026) & (Units)
- Table 13. Global 4G Image Intensifier Tube Sales Market Share by Figure of Merit (FOM) (2021-2026)
- Table 14. Global 4G Image Intensifier Tube Revenue by Figure of Merit (FOM) (2021-2026) & (\$ million)
- Table 15. Global 4G Image Intensifier Tube Revenue Market Share by Figure of Merit (FOM) (2021-2026)
- Table 16. Global 4G Image Intensifier Tube Sale Price by Figure of Merit (FOM) (2021-2026) & (US\$/Unit)
- Table 17. Global 4G Image Intensifier Tube Sale by Application (2021-2026) & (Units)
- Table 18. Global 4G Image Intensifier Tube Sale Market Share by Application (2021-2026)
- Table 19. Global 4G Image Intensifier Tube Revenue by Application (2021-2026) & (\$ million)
- Table 20. Global 4G Image Intensifier Tube Revenue Market Share by Application (2021-2026)
- Table 21. Global 4G Image Intensifier Tube Sale Price by Application (2021-2026) & (US\$/Unit)
- Table 22. Global 4G Image Intensifier Tube Sales by Company (2021-2026) & (Units)
- Table 23. Global 4G Image Intensifier Tube Sales Market Share by Company (2021-2026)

Table 24. Global 4G Image Intensifier Tube Revenue by Company (2021-2026) & (\$ millions)

Table 25. Global 4G Image Intensifier Tube Revenue Market Share by Company (2021-2026)

Table 26. Global 4G Image Intensifier Tube Sale Price by Company (2021-2026) & (US\$/Unit)

Table 27. Key Manufacturers 4G Image Intensifier Tube Producing Area Distribution and Sales Area

Table 28. Players 4G Image Intensifier Tube Products Offered

Table 29. 4G Image Intensifier Tube Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 30. New Products and Potential Entrants

Table 31. Market M&A Activity & Strategy

Table 32. Global 4G Image Intensifier Tube Sales by Geographic Region (2021-2026) & (Units)

Table 33. Global 4G Image Intensifier Tube Sales Market Share Geographic Region (2021-2026)

Table 34. Global 4G Image Intensifier Tube Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 35. Global 4G Image Intensifier Tube Revenue Market Share by Geographic Region (2021-2026)

Table 36. Global 4G Image Intensifier Tube Sales by Country/Region (2021-2026) & (Units)

Table 37. Global 4G Image Intensifier Tube Sales Market Share by Country/Region (2021-2026)

Table 38. Global 4G Image Intensifier Tube Revenue by Country/Region (2021-2026) & (\$ millions)

Table 39. Global 4G Image Intensifier Tube Revenue Market Share by Country/Region (2021-2026)

Table 40. Americas 4G Image Intensifier Tube Sales by Country (2021-2026) & (Units)

Table 41. Americas 4G Image Intensifier Tube Sales Market Share by Country (2021-2026)

Table 42. Americas 4G Image Intensifier Tube Revenue by Country (2021-2026) & (\$ millions)

Table 43. Americas 4G Image Intensifier Tube Sales by Type (2021-2026) & (Units)

Table 44. Americas 4G Image Intensifier Tube Sales by Application (2021-2026) & (Units)

Table 45. APAC 4G Image Intensifier Tube Sales by Region (2021-2026) & (Units)

Table 46. APAC 4G Image Intensifier Tube Sales Market Share by Region (2021-2026)

Table 47. APAC 4G Image Intensifier Tube Revenue by Region (2021-2026) & (\$ millions)

Table 48. APAC 4G Image Intensifier Tube Sales by Type (2021-2026) & (Units)

Table 49. APAC 4G Image Intensifier Tube Sales by Application (2021-2026) & (Units)

Table 50. Europe 4G Image Intensifier Tube Sales by Country (2021-2026) & (Units)

Table 51. Europe 4G Image Intensifier Tube Revenue by Country (2021-2026) & (\$ millions)

Table 52. Europe 4G Image Intensifier Tube Sales by Type (2021-2026) & (Units)

Table 53. Europe 4G Image Intensifier Tube Sales by Application (2021-2026) & (Units)

Table 54. Middle East & Africa 4G Image Intensifier Tube Sales by Country (2021-2026) & (Units)

Table 55. Middle East & Africa 4G Image Intensifier Tube Revenue Market Share by Country (2021-2026)

Table 56. Middle East & Africa 4G Image Intensifier Tube Sales by Type (2021-2026) & (Units)

Table 57. Middle East & Africa 4G Image Intensifier Tube Sales by Application (2021-2026) & (Units)

Table 58. Key Market Drivers & Growth Opportunities of 4G Image Intensifier Tube

Table 59. Key Market Challenges & Risks of 4G Image Intensifier Tube

Table 60. Key Industry Trends of 4G Image Intensifier Tube

Table 61. 4G Image Intensifier Tube Raw Material

Table 62. Key Suppliers of Raw Materials

Table 63. 4G Image Intensifier Tube Distributors List

Table 64. 4G Image Intensifier Tube Customer List

Table 65. Global 4G Image Intensifier Tube Sales Forecast by Region (2027-2032) & (Units)

Table 66. Global 4G Image Intensifier Tube Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 67. Americas 4G Image Intensifier Tube Sales Forecast by Country (2027-2032) & (Units)

Table 68. Americas 4G Image Intensifier Tube Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 69. APAC 4G Image Intensifier Tube Sales Forecast by Region (2027-2032) & (Units)

Table 70. APAC 4G Image Intensifier Tube Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 71. Europe 4G Image Intensifier Tube Sales Forecast by Country (2027-2032) & (Units)

Table 72. Europe 4G Image Intensifier Tube Revenue Forecast by Country (2027-2032)

& (\$ millions)

Table 73. Middle East & Africa 4G Image Intensifier Tube Sales Forecast by Country (2027-2032) & (Units)

Table 74. Middle East & Africa 4G Image Intensifier Tube Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 75. Global 4G Image Intensifier Tube Sales Forecast by Type (2027-2032) & (Units)

Table 76. Global 4G Image Intensifier Tube Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 77. Global 4G Image Intensifier Tube Sales Forecast by Application (2027-2032) & (Units)

Table 78. Global 4G Image Intensifier Tube Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 79. Exosens(Photonis Defense) Basic Information, 4G Image Intensifier Tube Manufacturing Base, Sales Area and Its Competitors

Table 80. Exosens(Photonis Defense) 4G Image Intensifier Tube Product Portfolios and Specifications

Table 81. Exosens(Photonis Defense) 4G Image Intensifier Tube Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 82. Exosens(Photonis Defense) Main Business

Table 83. Exosens(Photonis Defense) Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of 4G Image Intensifier Tube
- Figure 2. 4G Image Intensifier Tube Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global 4G Image Intensifier Tube Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global 4G Image Intensifier Tube Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. 4G Image Intensifier Tube Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. 4G Image Intensifier Tube Sales Market Share by Country/Region (2025)
- Figure 10. 4G Image Intensifier Tube Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 16mm
- Figure 12. Product Picture of 18mm
- Figure 13. Global 4G Image Intensifier Tube Sales Market Share by Type in 2026
- Figure 14. Global 4G Image Intensifier Tube Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Figure of Merit (FOM) 2200
- Figure 16. Product Picture of Figure of Merit (FOM) 2500
- Figure 17. Global 4G Image Intensifier Tube Sales Market Share by Figure of Merit (FOM) in 2026
- Figure 18. Global 4G Image Intensifier Tube Revenue Market Share by Figure of Merit (FOM) (2021-2026)
- Figure 19. 4G Image Intensifier Tube Consumed in Night Vision Equipment
- Figure 20. Global 4G Image Intensifier Tube Market: Night Vision Equipment (2021-2026) & (Units)
- Figure 21. 4G Image Intensifier Tube Consumed in Weapon Sights
- Figure 22. Global 4G Image Intensifier Tube Market: Weapon Sights (2021-2026) & (Units)
- Figure 23. 4G Image Intensifier Tube Consumed in Other
- Figure 24. Global 4G Image Intensifier Tube Market: Other (2021-2026) & (Units)
- Figure 25. Global 4G Image Intensifier Tube Sale Market Share by Application (2025)
- Figure 26. Global 4G Image Intensifier Tube Revenue Market Share by Application in 2025

- Figure 27. 4G Image Intensifier Tube Sales by Company in 2025 (Units)
- Figure 28. Global 4G Image Intensifier Tube Sales Market Share by Company in 2025
- Figure 29. 4G Image Intensifier Tube Revenue by Company in 2025 (\$ millions)
- Figure 30. Global 4G Image Intensifier Tube Revenue Market Share by Company in 2025
- Figure 31. Global 4G Image Intensifier Tube Sales Market Share by Geographic Region (2021-2026)
- Figure 32. Global 4G Image Intensifier Tube Revenue Market Share by Geographic Region in 2025
- Figure 33. Americas 4G Image Intensifier Tube Sales 2021-2026 (Units)
- Figure 34. Americas 4G Image Intensifier Tube Revenue 2021-2026 (\$ millions)
- Figure 35. APAC 4G Image Intensifier Tube Sales 2021-2026 (Units)
- Figure 36. APAC 4G Image Intensifier Tube Revenue 2021-2026 (\$ millions)
- Figure 37. Europe 4G Image Intensifier Tube Sales 2021-2026 (Units)
- Figure 38. Europe 4G Image Intensifier Tube Revenue 2021-2026 (\$ millions)
- Figure 39. Middle East & Africa 4G Image Intensifier Tube Sales 2021-2026 (Units)
- Figure 40. Middle East & Africa 4G Image Intensifier Tube Revenue 2021-2026 (\$ millions)
- Figure 41. Americas 4G Image Intensifier Tube Sales Market Share by Country in 2025
- Figure 42. Americas 4G Image Intensifier Tube Revenue Market Share by Country (2021-2026)
- Figure 43. Americas 4G Image Intensifier Tube Sales Market Share by Type (2021-2026)
- Figure 44. Americas 4G Image Intensifier Tube Sales Market Share by Application (2021-2026)
- Figure 45. United States 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)
- Figure 46. Canada 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)
- Figure 47. Mexico 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)
- Figure 48. Brazil 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)
- Figure 49. APAC 4G Image Intensifier Tube Sales Market Share by Region in 2025
- Figure 50. APAC 4G Image Intensifier Tube Revenue Market Share by Region (2021-2026)
- Figure 51. APAC 4G Image Intensifier Tube Sales Market Share by Type (2021-2026)
- Figure 52. APAC 4G Image Intensifier Tube Sales Market Share by Application (2021-2026)
- Figure 53. China 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)
- Figure 54. Japan 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)
- Figure 55. South Korea 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$

millions)

Figure 56. Southeast Asia 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)

Figure 57. India 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)

Figure 58. Australia 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)

Figure 59. China Taiwan 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)

Figure 60. Europe 4G Image Intensifier Tube Sales Market Share by Country in 2025

Figure 61. Europe 4G Image Intensifier Tube Revenue Market Share by Country (2021-2026)

Figure 62. Europe 4G Image Intensifier Tube Sales Market Share by Type (2021-2026)

Figure 63. Europe 4G Image Intensifier Tube Sales Market Share by Application (2021-2026)

Figure 64. Germany 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)

Figure 65. France 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)

Figure 66. UK 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)

Figure 67. Italy 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)

Figure 68. Russia 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)

Figure 69. Middle East & Africa 4G Image Intensifier Tube Sales Market Share by Country (2021-2026)

Figure 70. Middle East & Africa 4G Image Intensifier Tube Sales Market Share by Type (2021-2026)

Figure 71. Middle East & Africa 4G Image Intensifier Tube Sales Market Share by Application (2021-2026)

Figure 72. Egypt 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)

Figure 73. South Africa 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)

Figure 74. Israel 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)

Figure 75. Turkey 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)

Figure 76. GCC Countries 4G Image Intensifier Tube Revenue Growth 2021-2026 (\$ millions)

Figure 77. Manufacturing Cost Structure Analysis of 4G Image Intensifier Tube in 2026

Figure 78. Manufacturing Process Analysis of 4G Image Intensifier Tube

Figure 79. Industry Chain Structure of 4G Image Intensifier Tube

Figure 80. Channels of Distribution

Figure 81. Global 4G Image Intensifier Tube Sales Market Forecast by Region (2027-2032)

Figure 82. Global 4G Image Intensifier Tube Revenue Market Share Forecast by Region (2027-2032)

Figure 83. Global 4G Image Intensifier Tube Sales Market Share Forecast by Type (2027-2032)

Figure 84. Global 4G Image Intensifier Tube Revenue Market Share Forecast by Type (2027-2032)

Figure 85. Global 4G Image Intensifier Tube Sales Market Share Forecast by Application (2027-2032)

Figure 86. Global 4G Image Intensifier Tube Revenue Market Share Forecast by Application (2027-2032)

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