

Global 4G Image Intensifier Tube Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G34BE6C2BB47EN.html>

Date: August 2026

Pages: 105

Price: US\$ 4,480.00 (Single User License)

ID: G34BE6C2BB47EN

Abstracts

The global 4G Image Intensifier Tube market size is expected to reach \$ 1996 million by 2032, rising at a market growth of 14.9% CAGR during the forecast period (2026-2032).

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 298,762 Units, with an average global market price of around US\$ 2,570 per unit.

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.

This report studies the global 4G Image Intensifier Tube production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 4G Image Intensifier Tube 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 4G Image Intensifier Tube that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 4G Image Intensifier Tube total production and demand, 2021-2032, (Units)

Global 4G Image Intensifier Tube total production value, 2021-2032, (USD Million)

Global 4G Image Intensifier Tube production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global 4G Image Intensifier Tube consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: 4G Image Intensifier Tube domestic production, consumption, key domestic manufacturers and share

Global 4G Image Intensifier Tube production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global 4G Image Intensifier Tube production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global 4G Image Intensifier Tube production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global 4G Image Intensifier Tube market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include L3Harris, Exosens(Photonis Defense), Elbit Systems, Northern Night Vision Technology Group, Katod, Harder Digital, 3E, 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 4G Image Intensifier Tube market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 4G Image Intensifier Tube Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 4G Image Intensifier Tube Market, Segmentation by Type:

16mm

18mm

25mm

Other

Global 4G Image Intensifier Tube Market, Segmentation by Fluorescent Screen Material:

P45

P43

Global 4G Image Intensifier Tube Market, Segmentation by Sales Model:

Direct Selling

Distribution

Global 4G Image Intensifier Tube Market, Segmentation by Application:

Night Vision Equipment

Weapon Sights

Other

Companies Profiled:

L3Harris

Exosens(Photonis Defense)

Elbit Systems

Northern Night Vision Technology Group

Katod

Harder Digital

3E

Key Questions Answered:

1. How big is the global 4G Image Intensifier Tube market?
2. What is the demand of the global 4G Image Intensifier Tube market?
3. What is the year over year growth of the global 4G Image Intensifier Tube market?
4. What is the production and production value of the global 4G Image Intensifier Tube market?
5. Who are the key producers in the global 4G Image Intensifier Tube market?
6. What are the growth factors driving the market demand?

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