

# Global Night Vision Image Intensifier Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Night Vision Image Intensifier market size is expected to reach \$ 1702 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

A night vision image intensifier is a photoelectric vacuum device that enhances weak optical images into bright, visible images, and is the core of low-light night vision equipment. It utilizes the photoelectric effect to convert weak light signals into visible light images; it is also known as an image tube. Core components include a photocathode, an electron lens (electrostatic focusing or magnetic focusing), and a fluorescent screen. The upstream of the night vision image intensifier industry chain involves the supply of raw materials and core components such as optical materials, semiconductor materials, special glass, and vacuum packaging components. The midstream is the manufacturing of image intensifiers, including chip fabrication, component integration, vacuum packaging, and testing, which have extremely high technological barriers. The downstream covers the military (e.g., night vision devices, aiming scopes), healthcare and biotechnology (e.g., high-end microscopic imaging), electronics and semiconductors (e.g., testing equipment), and other industrial applications. The entire industry chain is characterized by high technological barriers in upstream materials, high concentration in midstream manufacturing, and specialized downstream application requirements. Global sales of night vision image intensifiers are projected to reach 305,000 units by 2025, with an average selling price of \$3,300 per unit.

Market drivers primarily include the following:

The continued growth of the night vision image intensifier market stems mainly from the ever-increasing demands in the military and civilian sectors, as well as the intrinsic driving force of the technology itself.

In the military and security sectors, the continuous global demand for defense

modernization constitutes the core driving force of the market. Low-light night vision technology, as a key to enhancing individual soldier combat capabilities and the all-weather combat effectiveness of weaponry, is undeniably important. Armies worldwide are actively procuring and upgrading night vision equipment, from individual helmets and handheld observation devices to vehicle-mounted and airborne targeting systems. These diverse application scenarios create a stable and broad market space for image intensifiers. Furthermore, this technology also plays an indispensable role in security fields such as border patrol and law enforcement surveillance, further expanding its application boundaries.

Technological evolution and performance improvements are the intrinsic driving forces behind market development. From its first to its third and fourth generations, the core goal of low-light image intensifiers has consistently been to pursue higher performance indicators. Manufacturers are committed to continuously improving the signal-to-noise ratio and resolution of their products through material innovation and structural optimization, thereby ensuring clearer and more detailed images even in extremely low light conditions. Simultaneously, extending device lifespan, enhancing reliability and durability in complex environments, and optimizing design to make products smaller, lighter, and consume less power to meet the needs of portable devices are all concrete manifestations of technology driving market progress.

The continued penetration and expansion of the civilian market has injected new vitality into industry growth. With technological maturity and cost optimization, night vision image intensifiers are gradually moving beyond the single military field, demonstrating enormous application potential in multiple civilian industries. In healthcare and biotechnology, it is used in high-end microscopes and bioimaging systems, aiding scientific research and clinical diagnosis. In the electronics and semiconductor fields, it plays a role in precision industrial inspection and automation equipment. In addition, night vision image intensifiers have found new applications in scientific research fields such as astronomical observation and ocean exploration, as well as in professional broadcasting and high-end photography fields that have stringent requirements for image quality, indicating their broad market prospects in the future.

This report studies the global Night Vision Image Intensifier production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Night Vision Image Intensifier total production and demand, 2021-2032, (K Units)

Global Night Vision Image Intensifier total production value, 2021-2032, (USD Million)

Global Night Vision Image Intensifier production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Night Vision Image Intensifier consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Night Vision Image Intensifier domestic production, consumption, key domestic manufacturers and share

Global Night Vision Image Intensifier production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Night Vision Image Intensifier production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Night Vision Image Intensifier production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Night Vision Image Intensifier 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 L3 Harris, Elbit Systems, Exosens, Katod, Northern Night Vision, Hamamatsu Photonics, Intevac Photonics (EOTECH), Newcon Optik, HARDER digital GmbH, Photek, 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 Night Vision Image Intensifier market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Night Vision Image Intensifier Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Night Vision Image Intensifier Market, Segmentation by Type:

2 and 2+ Generation

3 Generation

#### Global Night Vision Image Intensifier Market, Segmentation by Electro-optical Systems:

Electrostatic Focusing System

Electromagnetic Composite Focusing System

#### Global Night Vision Image Intensifier Market, Segmentation by Product Forms:

Image Reversal Tube

Proximity Focusing Tube

#### Global Night Vision Image Intensifier Market, Segmentation by Application:

Military Reconnaissance

Security Monitoring

Industrial Inspection

Other

**Companies Profiled:**

L3 Harris

Elbit Systems

Exosens

Katod

Northern Night Vision

Hamamatsu Photonics

Intevac Photonics (EOTECH)

Newcon Optik

HARDER digital GmbH

Photek

Chenyun Technology

Rongzhe Optoelectronics

Armasight

**Key Questions Answered:**

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

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