

Global Automotive Night Vision Camera Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Night Vision Camera market size is expected to reach \$ 3162 million by 2032, rising at a market growth of 11.2% CAGR during the forecast period (2026-2032).

An automotive night vision camera is an advanced driver assistance system (ADAS) sensor designed to enhance vehicle visibility in low-light or nighttime driving conditions by detecting pedestrians, animals, and obstacles beyond the range of conventional headlights. These systems typically utilize infrared imaging technologies, including thermal imaging sensors or near-infrared cameras combined with illumination modules, to generate real-time visual information displayed on vehicle dashboards or head-up displays. Compared with standard optical cameras, night vision systems provide enhanced detection capability in darkness, fog, and other low-visibility environments. From a value chain perspective, upstream includes infrared sensors, imaging chips, optical lenses, semiconductor components, and electronic control units; midstream focuses on camera module assembly, thermal imaging integration, image processing software, and ADAS system integration; downstream demand comes from automotive OEM manufacturers, advanced driver assistance system suppliers, and premium vehicle segments. In 2025, the average selling price of automotive night vision cameras is approximately US\$185 per unit, with global sales volume reaching around 8.10 million units. The industry maintains a gross margin of 28%–46%, supported by increasing vehicle safety regulations and ADAS adoption.

The integration of night vision technology into advanced driver assistance systems is becoming increasingly common in premium and luxury vehicles. Thermal imaging cameras are gaining popularity due to their ability to detect pedestrians and animals at longer distances compared with standard optical cameras. Automakers are also

integrating night vision data into driver warning systems and autonomous driving platforms to improve overall safety performance.

This report studies the global Automotive Night Vision Camera production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Automotive Night Vision Camera total production and demand, 2021-2032, (K Units)

Global Automotive Night Vision Camera total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

This report profiles key players in the global Automotive Night Vision Camera 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 FLIR Systems (Teledyne), Bosch, Continental, Denso, Valeo, Autoliv, Magna International, OmniVision, Sony Semiconductor Solutions, Hella, 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 Automotive Night Vision Camera 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 Automotive Night Vision Camera Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Night Vision Camera Market, Segmentation by Type:

Full Color

Non-full Color

Global Automotive Night Vision Camera Market, Segmentation by Technology Type:

Thermal Imaging

Near-Infrared

Far-Infrared

Global Automotive Night Vision Camera Market, Segmentation by Integration Type:

Standalone System

ADAS Integrated

Global Automotive Night Vision Camera Market, Segmentation by Application:

Passenger Car

Commercial Vehicle

Companies Profiled:

FLIR Systems (Teledyne)

Bosch

Continental

Denso

Valeo

Autoliv

Magna International

OmniVision

Sony Semiconductor Solutions

Hella

Sunny Optical

Hikvision Automotive Electronics

Smartsens

Zhejiang Crystal-Optech

Key Questions Answered:

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

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