

Global OEM Board Cameras Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global OEM Board Cameras market size is expected to reach \$ 1467 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

In 2025, global OEM Board Cameras production reached approximately 7,250 K pcs, with an average global market price of around 120 US\$/pc.

OEM Board Cameras (Original Equipment Manufacturer Board Cameras) are compact, modular imaging devices designed to be integrated as core components into other products or systems, rather than being sold as standalone consumer cameras. Characterized by their small size, lightweight design, and customizable hardware/software configurations, they consist of essential components including image sensors, lenses, PCBs (Printed Circuit Boards), and signal processing modules, tailored to meet the specific technical requirements of the host product. Unlike standalone cameras, they lack external enclosures and user-facing interfaces, focusing instead on providing high-quality imaging functionality that can be seamlessly embedded into a wide range of devices. Engineered for versatility and integration, OEM board cameras support various resolutions, frame rates, and connectivity options (such as USB, MIPI, or Ethernet), enabling manufacturers to incorporate imaging capabilities into their products without developing camera technology from scratch, thus reducing R&D costs and shortening time-to-market.

The demand for OEM Board Cameras is growing rapidly, driven by the widespread adoption of imaging technology across industries, the expansion of the Internet of Things (IoT), the rise of smart devices, and the increasing need for compact, high-performance imaging solutions in embedded systems. Demand is concentrated in regions with robust electronics manufacturing industries, including Asia-Pacific (China,

South Korea, Japan), North America, and Europe?Asia-Pacific dominates due to the large number of consumer electronics, automotive, and IoT device manufacturers. Key users include manufacturers of smart devices (smartphones, tablets), automotive electronics (ADAS systems, dashcams), IoT devices (security cameras, smart home appliances), medical equipment (endoscopes, diagnostic devices), and industrial machinery (machine vision systems). This demand presents substantial business opportunities: manufacturers can invest in R&D to develop high-resolution, low-power OEM board cameras with advanced features (such as night vision, AI-based image processing, and compact form factors), customize solutions to match the unique requirements of different industries (e.g., high-temperature resistance for industrial use, miniaturization for wearable devices), and partner with electronics OEMs to integrate cameras into their product lines. Additionally, providing technical support, flexible customization services, and ensuring compatibility with diverse host systems can unlock further market potential, while the continuous innovation in IoT, automotive, and medical technology will continue to drive long-term demand growth for OEM board cameras.

This report studies the global OEM Board Cameras production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for OEM Board Cameras 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 OEM Board Cameras that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global OEM Board Cameras total production and demand, 2021-2032, (K Pcs)

Global OEM Board Cameras total production value, 2021-2032, (USD Million)

Global OEM Board Cameras production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global OEM Board Cameras consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: OEM Board Cameras domestic production, consumption, key domestic manufacturers and share

Global OEM Board Cameras production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global OEM Board Cameras production by Resolution, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global OEM Board Cameras production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global OEM Board Cameras 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 Hamamatsu, Photonfocus, Unibrain, The Imaging Source, e-con Systems, Vision Components, XIMEA, Arducam, Lumenera, Videology, 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 OEM Board Cameras market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) by manufacturer, by Resolution, 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 OEM Board Cameras Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global OEM Board Cameras Market, Segmentation by Resolution:

Below 1 MP

1-5 MP

Above 5 MP

Global OEM Board Cameras Market, Segmentation by Interface Type:

USB Interface

MIPI CSI Interface

GigE Interface

LVDS Interface

Others

Global OEM Board Cameras Market, Segmentation by Sensor Type:

CMOS Board Cameras

CCD Board Cameras

SWIR / Infrared Board Cameras

Others

Global OEM Board Cameras Market, Segmentation by Application:

Industrial Vision

Medical Devices

Security and Surveillance

Automotive Electronics

Robotics and Embedded Vision

Others

Companies Profiled:

Hamamatsu

Photonfocus

Unibrain

The Imaging Source

e-con Systems

Vision Components

XIMEA

Arducam

Lumenera

Videology

Pixelink

Basler

Allied Vision

IDS Imaging Development Systems

Leopard Imaging

FRAMOS

i-PRO

New Imaging Technologies

Key Questions Answered:

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

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