

# Global Visual Inspection System (AOI/AVI) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Visual Inspection System (AOI/AVI) market size is expected to reach \$ 3501 million by 2032, rising at a market growth of 7.5% CAGR during the forecast period (2026-2032).

Visual Inspection Systems (AOI/AVI) are automated equipment designed to inspect semiconductor package substrates (such as BGA, LGA, CSP) and FPC boards for defects. AOI (Automated Optical Inspection) primarily detects surface defects such as solder paste volume, misalignment, bridging, and component absence, while AVI (Automated Visual Inspection) may include 2D/3D optical methods, X-ray (AXI), laser, or hybrid multi-sensor approaches. These systems are critical in modern electronics manufacturing to ensure high yield, reduce rework, and maintain quality standards.

In 2025, global production of Visual Inspection Systems (AOI/AVI) reached approximately 29,580 units, with an average selling price (ASP) of 70,000 USD per unit. The high unit price reflects the advanced optical and AI technologies integrated into these systems, as well as their importance in high-density semiconductor and FPC production lines.

The market can be segmented by type (AOI, AXI, and Others) and by application (Semiconductor Package Substrate, FPC Substrate, and Others). AOI dominates in surface inspection for standard PCBs and semiconductor packages, while AXI and hybrid systems are increasingly used for 3D inspection of BGA/CSP and internal defects. FPC substrates, due to their flexible and delicate nature, are often inspected with high-precision AOI or combined AVI systems. The "Others" segment covers specialty boards, LED modules, and power electronics substrates.

Visual Inspection Systems typically enjoy high gross margins, often in the 30–40% range, due to their capital-intensive development, proprietary optics, AI-based defect recognition software, and limited competition from high-end suppliers. Margins vary by system complexity; 3D AOI or multi-sensor AVI systems have higher margins than basic 2D AOI. Companies also generate recurring revenue from software upgrades, maintenance, and calibration services.

This report studies the global Visual Inspection System (AOI/AVI) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Visual Inspection System (AOI/AVI) 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 Visual Inspection System (AOI/AVI) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Visual Inspection System (AOI/AVI) total production and demand, 2021-2032, (Units)

Global Visual Inspection System (AOI/AVI) total production value, 2021-2032, (USD Million)

Global Visual Inspection System (AOI/AVI) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Visual Inspection System (AOI/AVI) consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Visual Inspection System (AOI/AVI) domestic production, consumption, key domestic manufacturers and share

Global Visual Inspection System (AOI/AVI) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Visual Inspection System (AOI/AVI) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Visual Inspection System (AOI/AVI) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Visual Inspection System (AOI/AVI) 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 Orbotech Ltd. (KLA), Wuhan Jingce Electronic, Nordson YESTECH, Koh Young Technology, Omron Corporation, Test

Research, Inc., Utechzone, Viscom AG, Machvision Inc., Saki Corporation, 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 Visual Inspection System (AOI/AVI) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Visual Inspection System (AOI/AVI) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Visual Inspection System (AOI/AVI) Market, Segmentation by Type:

AOI

AXI

Others

Global Visual Inspection System (AOI/AVI) Market, Segmentation by Integration Mode:

Online

Offline

Global Visual Inspection System (AOI/AVI) Market, Segmentation by Throughput:

Medium Throughput

High Throughput

Others

Global Visual Inspection System (AOI/AVI) Market, Segmentation by Application:

Semiconductor Package Substrate

FPC Substrate

Others

Companies Profiled:

Orbotech Ltd. (KLA)

Wuhan Jingce Electronic

Nordson YESTECH

Koh Young Technology

Omron Corporation

Test Research, Inc.

Utechzone

Viscom AG

Machvision Inc.

Saki Corporation

CIMS

MEK Marantz Electronics Ltd.

JUTZE Intelligence Technology

Cyberoptics Corporation

ViTrox Corporation Berhad

Mycronic

Mirtec Co., Ltd.

Machine Vision Products, Inc.

Shenzhou Vision Technology (ALEADER)

Takano

Parmi Corp

ZhenHuaXing Technology (ShenZhen) Co., Ltd.

G?PEL electronic GmbH

Key Questions Answered:

1. How big is the global Visual Inspection System (AOI/AVI) market?
2. What is the demand of the global Visual Inspection System (AOI/AVI) market?
3. What is the year over year growth of the global Visual Inspection System (AOI/AVI) market?
4. What is the production and production value of the global Visual Inspection System (AOI/AVI) market?
5. Who are the key producers in the global Visual Inspection System (AOI/AVI) market?
6. What are the growth factors driving the market demand?

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