

# Global 3D Vision-Guided Picking Module Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global 3D Vision-Guided Picking Module market size is expected to reach \$ 1694 million by 2032, rising at a market growth of 12.5% CAGR during the forecast period (2026-2032).

In 2025, global 3D Vision-Guided Picking Module production reached approximately 60,000 sets, with an average global market price of around US\$12,000 per set.

The gross profit margin of major companies in the industry is between 35%–55%.

In 2025, the global production capacity of 3D Vision-Guided Picking Module was approximately 80,000 sets.

3D Vision-Guided Picking Module is an intelligent robotic perception and guidance module used to identify, locate, and guide the picking of objects in three-dimensional space. It usually integrates 3D cameras, lighting units, image processing software, artificial intelligence algorithms, calibration tools, and robot communication interfaces to support bin picking, parcel sorting, depalletizing, piece picking, and automated material handling.

The industrial chain of 3D Vision-Guided Picking Module covers upstream components such as 3D cameras, image sensors, lenses, lighting units, processors, industrial computers, calibration boards, cables, and software algorithms. The midstream consists of module design, optical integration, algorithm training, software development, robot interface adaptation, testing, and calibration. Downstream applications mainly include logistics warehouses, e-commerce fulfillment centers, manufacturing lines, automotive parts handling, electronics assembly, food packaging, and industrial automation

systems.

This report studies the global 3D Vision-Guided Picking Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 3D Vision-Guided Picking Module 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 3D Vision-Guided Picking Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 3D Vision-Guided Picking Module total production and demand, 2021-2032, (K Units)

Global 3D Vision-Guided Picking Module total production value, 2021-2032, (USD Million)

Global 3D Vision-Guided Picking Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 3D Vision-Guided Picking Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 3D Vision-Guided Picking Module domestic production, consumption, key domestic manufacturers and share

Global 3D Vision-Guided Picking Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 3D Vision-Guided Picking Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 3D Vision-Guided Picking Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 3D Vision-Guided Picking Module 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 Pick-it, Photoneo, SICK, Cognex, Keyence, Zivid, Scape Technologies, ABB Robotics, FANUC, Yaskawa Electric, 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 3D Vision-Guided Picking Module 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 3D Vision-Guided Picking Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 3D Vision-Guided Picking Module Market, Segmentation by Type:

Structured Light Picking Module

Time-of-Flight Picking Module

Stereo Vision Picking Module

Global 3D Vision-Guided Picking Module Market, Segmentation by System

### Configuration:

Camera-Based Picking Module

Camera and Software Integrated Picking Module

Robot-Mounted Picking Module

### Global 3D Vision-Guided Picking Module Market, Segmentation by Positioning Accuracy:

Standard Accuracy ( $\pm 5\text{mm}$ )

High Accuracy ( $\pm 2-5\text{mm}$ )

Ultra-High Accuracy ( $\pm 2\text{mm}$ )

### Global 3D Vision-Guided Picking Module Market, Segmentation by Application:

E-Commerce and Logistics

Automotive Manufacturing

Electronics Manufacturing

Other

### Companies Profiled:

Pick-it

Photoneo

SICK

Cognex

Keyence

Zivid

Scape Technologies

ABB Robotics

FANUC

Yaskawa Electric

Intel RealSense

Mech-Mind Robotics

XYZ Robotics

Hikrobot

Luster LightTech

Orbbec

Transfer Technology

OPT

Huaray Technology

Goermicro

JAKA Robotics

Aubo Robotics

Dobot Robotics

Elite Robots

Solomon

Key Questions Answered:

1. How big is the global 3D Vision-Guided Picking Module market?
2. What is the demand of the global 3D Vision-Guided Picking Module market?
3. What is the year over year growth of the global 3D Vision-Guided Picking Module market?
4. What is the production and production value of the global 3D Vision-Guided Picking Module market?
5. Who are the key producers in the global 3D Vision-Guided Picking Module market?
6. What are the growth factors driving the market demand?

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