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Global 3D Vision Sensor for Embodied Intelligent Robots Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 3D Vision Sensor for Embodied Intelligent Robots market size is expected to reach $ 2355 million by 2032, rising at a market growth of 28.3% CAGR during the forecast period (2026-2032).

3D vision sensors mainly obtain the spatial coordinate information of objects through 3D reconstruction technology, so that they can accurately perceive the distance, volume and size of objects, providing embodied intelligent robots with three-dimensional perception capabilities similar to human vision. The current main technologies for 3D reconstruction include structured light, iToF, dToF, stereo vision, Lidar, industrial three-dimensional measurement, etc. Humanoid robot visual sensing technology mainly u ses multi-eye stereo vision and iToF methods. In 2025, Global 3D vision sensor shipments for embodied intelligent robots are estimated at 1,850 k units, with an average ex-works price of 235 US$/unit and global capacity is about 3,100 k units per year, with a gross margin range of 28%?42%.

This market is mainly driven by embodied AI systems? need for richer spatial perception and more autonomous interaction with the physical world. Official robot-vision pages from Orbbec, Mech-Mind, ifm, and RoboSense all emphasize depth sensing, grasp-point calculation, navigation, obstacle detection, and multi-camera perception for robots, showing that 3D sensing is increasingly shifting from optional machine-vision hardware to a core enabling layer for robot intelligence.

This report studies the global 3D Vision Sensor for Embodied Intelligent Robots demand, key companies, and key regions.

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This report is a detailed and comprehensive analysis of the world market for 3D Vision Sensor for Embodied Intelligent Robots, 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 Sensor for Embodied Intelligent Robots that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 3D Vision Sensor for Embodied Intelligent Robots total market, 2021-2032, (USD Million)
Global 3D Vision Sensor for Embodied Intelligent Robots total market by region & country, CAGR, 2021-2032, (USD Million)
U.S. VS China: 3D Vision Sensor for Embodied Intelligent Robots total market, key domestic companies, and share, (USD Million)
Global 3D Vision Sensor for Embodied Intelligent Robots revenue by player, revenue and market share 2021-2026, (USD Million)
Global 3D Vision Sensor for Embodied Intelligent Robots total market by Type, CAGR, 2021-2032, (USD Million)
Global 3D Vision Sensor for Embodied Intelligent Robots total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global 3D Vision Sensor for Embodied Intelligent Robots market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Orbbec, Mech-Mind Robotics, ifm, RoboSense, OMRON, Intel RealSense, Weijing Intelligent, Yuanxing Spacetime Technology, 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 Sensor for Embodied Intelligent Robots market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, 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

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2027-2032 as the forecast year.

Global 3D Vision Sensor for Embodied Intelligent Robots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 3D Vision Sensor for Embodied Intelligent Robots Market, Segmentation by Type:

Based on Multi-Eye Stereo Vision

Based on iToF

Others

Global 3D Vision Sensor for Embodied Intelligent Robots Market, Segmentation by Mounting Position:

Head-mounted

Arm-mounted

Others

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Global 3D Vision Sensor for Embodied Intelligent Robots Market, Segmentation by Function:

- Navigation
- Grasping
- 3D Measurement
- Others

Global 3D Vision Sensor for Embodied Intelligent Robots Market, Segmentation by Application:

- Industrial Robotics
- Service Robotics

Companies Profiled:

- Orbbec
- Mech-Mind Robotics
- ifm
- RoboSense
- OMRON
- Intel RealSense
- Weijing Intelligent
- Yuanxing Spacetime Technology

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Key Questions Answered

1. How big is the global 3D Vision Sensor for Embodied Intelligent Robots market?
2. What is the demand of the global 3D Vision Sensor for Embodied Intelligent Robots market?
3. What is the year over year growth of the global 3D Vision Sensor for Embodied Intelligent Robots market?
4. What is the total value of the global 3D Vision Sensor for Embodied Intelligent Robots market?
5. Who are the Major Players in the global 3D Vision Sensor for Embodied Intelligent Robots market?
6. What are the growth factors driving the market demand?

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