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Global Vision-Based Tactile Sensor for Robotics Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G5BC0469A60AEN.html
Date: July 2026
Pages: 131
Price: US$ 4,480.00 (Single User License)
ID: G5BC0469A60AEN

Abstracts

The global Vision-Based Tactile Sensor for Robotics market size is expected to reach $ 202 million by 2032, rising at a market growth of 12.2% CAGR during the forecast period (2026-2032).

In 2025, global Vision-Based Tactile Sensor for Robotics production reached approximately 250 k units with an average global market price of around US$350 per unit. The upstream of the visuotactile sensor supply chain for humanoid robots encompasses precision optical components, special elastic materials, and microelectronic modules, concentrated in the fields of high-tech materials and precision instrument manufacturing. The midstream involves the design, integration, and testing of sensors, where an average of 5-8 visuotactile sensors are integrated into each humanoid robot, accounting for 30-40% of the total sensor complement. Downstream, the application of humanoid robots in industries such as manufacturing, medical rehabilitation, and scientific research is reflected, with the annual consumption of visuotactile sensors steadily increasing in line with market demand growth.

Visuotactile Sensor for Humanoid Robot is an advanced perception device that integrates high-precision optical imaging and tactile sensing technologies, enabling the robot to capture and analyze subtle deformations of the contact surface in real-time. This sensor is capable of detecting the hardness and texture of objects, as well as perceiving minute changes in force and sliding tendency, thereby endowing humanoid robots with a touch sensitivity similar to that of humans. This enhances their precision and accuracy when performing complex tasks, improves the quality of interaction with the environment, and increases the flexibility and adaptability of operations.

Vision-based tactile sensors for robotics will become the key for enterprises to break

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through the high-end dexterous hand market, with leading companies like Tesla regarding them as the final piece of the puzzle for achieving delicate manipulation, driving enterprises to transform from single hardware sales to high value-added visual perception solutions. As technology routes have not yet converged, enterprises with the capability for multi-technology route integration hold a greater competitive advantage, able to resolve single-technology bottlenecks by combining optical and tactile perception, thereby establishing pricing power in the industrial chain and obtaining higher profits. The industry will develop towards arrayization, multi-modal fusion, and edge computing; this technological evolution not only enhances the adaptability and accuracy of products in complex environments but also prompts enterprises to utilize software-defined sensors to increase product premium capabilities. Furthermore, with the acceleration of humanoid robot mass production and the expansion of market space to the trillion-yuan level, the demand for vision-based tactile sensors will explode, and by optimizing manufacturing processes and mass production technologies to reduce marginal costs, enterprises will significantly improve their profitability structures while meeting huge market demands.

This report studies the global Vision-Based Tactile Sensor for Robotics production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Vision-Based Tactile Sensor for Robotics 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 Vision-Based Tactile Sensor for Robotics that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Vision-Based Tactile Sensor for Robotics total production and demand, 2021-2032, (K Units)
Global Vision-Based Tactile Sensor for Robotics total production value, 2021-2032, (USD Million)
Global Vision-Based Tactile Sensor for Robotics production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Vision-Based Tactile Sensor for Robotics consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Vision-Based Tactile Sensor for Robotics domestic production,

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consumption, key domestic manufacturers and share
Global Vision-Based Tactile Sensor for Robotics production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Vision-Based Tactile Sensor for Robotics production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Vision-Based Tactile Sensor for Robotics production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Vision-Based Tactile Sensor for Robotics 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 SynTouch, Weiss Robotics, Pressure Profile Systems, GelSight, FUTEK Advanced Sensor Technology, AIDIN ROBOTICS, Daimeng (Shenzhen) Robot Technology, PaXini Technology (Shenzhen), Shanghai ViTai Robotics, Hong Kong Science & Technology Parks, 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 Vision-Based Tactile Sensor for Robotics 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 Vision-Based Tactile Sensor for Robotics Market, By Region:

United States

China

Europe

Japan

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South Korea

ASEAN

India

Rest of World

Global Vision-Based Tactile Sensor for Robotics Market, Segmentation by Type:

Strain Gauge Type

Capacitive Type

Piezoelectric Type

Global Vision-Based Tactile Sensor for Robotics Market, Segmentation by Measurement Dimension:

3D Force Tactile Sensor

3D Force + 3D Torque Tactile Sensor

2D Force + 2D Torque Tactile Sensor

Global Vision-Based Tactile Sensor for Robotics Market, Segmentation by Resolution:

?5 mm/pixel

2?5 mm/pixel

0.5?2 mm/pixel

?0.5 mm/pixel

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Global Vision-Based Tactile Sensor for Robotics Market, Segmentation by Application:

Robotic Gripper

Robotic Dexterous Hand

Companies Profiled:

SynTouch

Weiss Robotics

Pressure Profile Systems

GelSight

FUTEK Advanced Sensor Technology

AIDIN ROBOTICS

Daimeng (Shenzhen) Robot Technology

PaXini Technology (Shenzhen)

Shanghai ViTai Robotics

Hong Kong Science & Technology Parks

Beijing Tashan Technology

Key Questions Answered:
1. How big is the global Vision-Based Tactile Sensor for Robotics market?
2. What is the demand of the global Vision-Based Tactile Sensor for Robotics market?
3. What is the year over year growth of the global Vision-Based Tactile Sensor for Robotics market?
4. What is the production and production value of the global Vision-Based Tactile Sensor for Robotics market?

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5. Who are the key producers in the global Vision-Based Tactile Sensor for Robotics market?
6. What are the growth factors driving the market demand?

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