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Global Vision-based Tactile Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Vision-based Tactile Sensor market size was valued at US$ 55.56 million in 2025 and is forecast to a readjusted size of US$ 194 million by 2032 with a CAGR of 19.5% during review period.

Vision-based Tactile Sensor is a sensing method that integrates optical imaging with tactile perception. Its core principle is to capture the microscopic deformation of elastic materials when they contact objects and convert it into high-resolution tactile information. The principle of the vision-based tactile sensor is to use a camera to capture the subtle deformation of the elastic material when it contacts the object, and then convert these changes into a high-definition 'tactile photo', observing the deformation of the soft layer through the camera to 'feel' the force, texture and sliding. Unlike traditional pressure sensors, tactile sensors can simultaneously 'feel' the hardness, texture, and even sliding tendency of objects. This high-fidelity tactile information can help robots more accurately 'understand' the characteristics of objects and perform fine operations like humans. Vision-based tactile sensors use optical principles to perceive multi-dimensional information without electrical interference, but real-time feedback and flexible response are limited, susceptible to temperature effects and have a large volume. In 2025, global Vision-based Tactile Sensor production reached approximately 154 k units with an average global market price of around US$350 per unit. Single-line annual production capacity averages 6k units with a gross margin of approximately 30-35%.

From the perspective of enterprise revenue and profit, the future trajectory of the Vision-based Tactile Sensor industry is shifting from laboratory prototypes to mass-producible, low-cost industrial products. In its 2023 official press release, GelSight announced that it

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has achieved automated film packaging for Vision-based Tactile Sensors, directly changing the previous dilemma of high costs due to reliance on manual assembly. This means that supply chain bottlenecks are being broken, and production ramp-up will determine which company can first gain a profit advantage. Meta, in its publicly disclosed progress on the Digit tactile sensor in 2024, pointed out that the core competitiveness of vision-based tactile solutions has shifted from resolution to durability and data throughput. This forces sensor companies to invest in R&D for material wear resistance and high-speed image processing, or face the risk of losing orders. The Catalogue for Innovative Development of Industrial Foundation issued by the Chinese government has included high-resolution flexible tactile sensors in the list of key basic components. This policy signal means that if domestic vision-based tactile companies can achieve industrial-grade mass production yield rates, they will have the opportunity to enter the state-funded procurement system for core robot components, thereby securing sustained and stable shipment volumes rather than relying solely on venture capital and laboratory orders. Sony disclosed in its 2023 corporate annual report that it has deployed its stacked CMOS image sensor technology down to robot tactile perception modules. This indicates that leading semiconductor companies are redefining the Vision-based Tactile Sensor from an independent sensor into a miniature optical system integrated into fingertips or palms. This modularization trend will squeeze the profit margins of pure-algorithm startups, as they can no longer maintain pricing solely through software differentiation but must partner with manufacturers possessing wafer-level fabrication capabilities. In summary, the major industry trends are that the cost structure is shifting from manual assembly to wafer-level packaging, the core of the supply chain is shifting from algorithm teams to flexible optical materials and chip design capabilities, and the profit source is shifting from customized scientific research projects to scaled industrial supply.

This report is a detailed and comprehensive analysis for global Vision-based Tactile Sensor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Vision-based Tactile Sensor market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

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Global Vision-based Tactile Sensor market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Vision-based Tactile Sensor market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Vision-based Tactile Sensor market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Vision-based Tactile Sensor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Vision-based Tactile Sensor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include GelSight, Daimon (Shenzhen) Robotics Technology, Shanghai Vitai Robotics, Shenzhen Orisys, Shenzhen Ecomo Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Vision-based Tactile Sensor market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

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Market segment by Type

- Consumer-grade
- Industrial-grade

Market segment by Technical Route

- Based on Monochromatic Light
- Based on Trichromatic Light

Market segment by Contact Module

- Simple Marker Based (SMB)
- Morphological Marker-Based (MMB)

Market segment by Application

- Industrial Automation
- Medical
- Embodied AI
- Consumer Electronics
- Others

Major players covered

- GelSight

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Daimon (Shenzhen) Robotics Technology

Shanghai Vitai Robotics

Shenzhen Orisys

Shenzhen Ecomo Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Vision-based Tactile Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Vision-based Tactile Sensor, with price, sales quantity, revenue, and global market share of Vision-based Tactile Sensor from 2021 to 2026.

Chapter 3, the Vision-based Tactile Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Vision-based Tactile Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Vision-based Tactile Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Vision-based Tactile Sensor.

Chapter 14 and 15, to describe Vision-based Tactile Sensor sales channel, distributors, customers, research findings and conclusion.

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