

Global 3D Monocular Structured Light Cameras Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global 3D Monocular Structured Light Cameras market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

A 3D monocular structured light camera is an imaging system that uses structured light technology to obtain three-dimensional information of the object being photographed. It projects a known pattern of light (such as stripes, dots, etc.) onto the target object, and then uses the camera to capture the deformation of these patterns on the surface of the object. By analyzing these deformations, the spatial geometric information of the object surface can be calculated. This technology is widely used in various fields, including but not limited to robot navigation, gesture recognition, virtual reality/augmented reality (VR/AR), industrial inspection, and facial recognition.

This report is a detailed and comprehensive analysis for global 3D Monocular Structured Light Cameras 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 3D Monocular Structured Light Cameras market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 3D Monocular Structured Light Cameras market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 3D Monocular Structured Light Cameras market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 3D Monocular Structured Light Cameras market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 3D Monocular Structured Light Cameras
- 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 3D Monocular Structured Light Cameras 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 Zivid, SmartMore Corporation, LIPS Corporation, Orbbec, Beijing Bopixel Technology, Chongqing THESEUS, Wuxi Tuchuang Intelligent Technology, Henan Alson Intelligent Technology, Shenzhen Litemaze, Mech-Mind Robotics Technologies, etc.

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

Market Segmentation

3D Monocular Structured Light Cameras market is split by Type and by Application. For

the period 2020-2031, 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.

Market segment by Type

Below 200mm

200-600mm

Above 600mm

Market segment by Application

Gesture Facial Recognition

Industrial Inspection

Rail Transportation

Automotive

Others

Major players covered

Zivid

SmartMore Corporation

LIPS Corporation

Orbbec

Beijing Bopixel Technology

Chongqing THESEUS

Wuxi Tuchuang Intelligent Technology

Henan Alson Intelligent Technology

Shenzhen Litemaze

Mech-Mind Robotics Technologies

Berxel Photonics

Mega Phase Technology

Jiangsu Tadisi

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 3D Monocular Structured Light Cameras product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 3D Monocular Structured Light Cameras, with price, sales quantity, revenue, and global market share of 3D Monocular Structured Light Cameras from 2020 to 2025.

Chapter 3, the 3D Monocular Structured Light Cameras competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 3D Monocular Structured Light Cameras breakdown data are shown at

the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and 3D Monocular Structured Light Cameras market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 3D Monocular Structured Light Cameras.

Chapter 14 and 15, to describe 3D Monocular Structured Light Cameras sales channel, distributors, customers, research findings and conclusion.

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