

Global 3D Time of flight (ToF) Sensors Market Growth 2025-2031

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Abstracts

The global 3D Time of flight (ToF) Sensors market size is predicted to grow from US\$ 2372 million in 2025 to US\$ 7353 million in 2031; it is expected to grow at a CAGR of 20.7% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

3D time-of-flight (ToF) sensor is part of the 3D ToF image sensor family. The device combines ToF sensing with an optimally-designed analog-to-digital converter (ADC) and a versatile, programmable timing generator (TG).

The built-in TG controls the reset, modulation, readout, and digitization sequence. The programmability of the TG offers flexibility to optimize for various depth-sensing performance.

Global 3D Time-of-flight Image Sensors key players include Texas Instruments, STMicroelectronics, PMD Technologies, Infineon, PrimeSense (Apple), etc. Global top five manufacturers hold a share about 70%.

Europe is the largest market, with a share about 40%, followed by Japan and North America, both have a share over 45 percent.

In terms of product, QVGA ToF Image Sensor is the largest segment, with a share about 50%. And in terms of application, the largest application is Consumer Electronics, followed by Robotics and Drone, Machine Vision and Industrial Automation,

Entertainment, Automobile, etc.

LP Information, Inc. (LPI) ' newest research report, the “3D Time of flight (ToF) Sensors Industry Forecast” looks at past sales and reviews total world 3D Time of flight (ToF) Sensors sales in 2024, providing a comprehensive analysis by region and market sector of projected 3D Time of flight (ToF) Sensors sales for 2025 through 2031. With 3D Time of flight (ToF) Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 3D Time of flight (ToF) Sensors industry.

This Insight Report provides a comprehensive analysis of the global 3D Time of flight (ToF) Sensors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 3D Time of flight (ToF) Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 3D Time of flight (ToF) Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 3D Time of flight (ToF) Sensors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 3D Time of flight (ToF) Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of 3D Time of flight (ToF) Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Half-QQVGA ToF Image Sensor

QVGA ToF Image Sensor

Others

Segmentation by Application:

Consumer Electronics

Robotics and Drone

Machine Vision and Industrial Automation

Entertainment

Automobile

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Texas Instruments

STMicroelectronics

PMD Technologies

Infineon

PrimeSense (Apple)

MESA (Heptagon)

Melexis

ifm Electronic

Canesta (Microsoft)

Espros Photonics

TriDiCam

Key Questions Addressed in this Report

What is the 10-year outlook for the global 3D Time of flight (ToF) Sensors market?

What factors are driving 3D Time of flight (ToF) Sensors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 3D Time of flight (ToF) Sensors market opportunities vary by end market size?

How does 3D Time of flight (ToF) Sensors break out by Type, by Application?

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