

Global 3D Time-of-flight Image Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 3D Time-of-flight Image Sensors market size is expected to reach \$ 8497 million by 2032, rising at a market growth of 19.5% CAGR during the forecast period (2026-2032).

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.

This report studies the global 3D Time-of-flight Image Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 3D Time-of-flight Image Sensors 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 Time-of-flight Image Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 3D Time-of-flight Image Sensors total production and demand, 2021-2032, (K Units)

Global 3D Time-of-flight Image Sensors total production value, 2021-2032, (USD Million)

Global 3D Time-of-flight Image Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 3D Time-of-flight Image Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 3D Time-of-flight Image Sensors domestic production, consumption, key domestic manufacturers and share

Global 3D Time-of-flight Image Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 3D Time-of-flight Image Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 3D Time-of-flight Image Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 3D Time-of-flight Image Sensors 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 Texas Instruments, STMicroelectronics, PMD Technologies, Infineon, PrimeSense (Apple), MESA (Heptagon), Melexis, ifm Electronic, Canesta (Microsoft), Espros Photonics, 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 Time-of-flight Image Sensors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 3D Time-of-flight Image Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 3D Time-of-flight Image Sensors Market, Segmentation by Type:

Half-QVGA ToF Image Sensor

QVGA ToF Image Sensor

Others

Global 3D Time-of-flight Image Sensors Market, Segmentation by Application:

Consumer Electronics

Robotics and Drone

Machine Vision and Industrial Automation

Entertainment

Automobile

Others

Companies Profiled:

Texas Instruments

STMicroelectronics

PMD Technologies

Infineon

PrimeSense (Apple)

MESA (Heptagon)

Melexis

ifm Electronic

Canesta (Microsoft)

Espros Photonics

TriDiCam

Key Questions Answered:

1. How big is the global 3D Time-of-flight Image Sensors market?
2. What is the demand of the global 3D Time-of-flight Image Sensors market?
3. What is the year over year growth of the global 3D Time-of-flight Image Sensors

market?

4. What is the production and production value of the global 3D Time-of-flight Image Sensors market?
5. Who are the key producers in the global 3D Time-of-flight Image Sensors market?
6. What are the growth factors driving the market demand?

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