

# Global 3D Time-of-flight Image Sensors Market Size, Manufacturers, Opportunities and Forecast to 2030

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## Abstracts

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.

According to APO Research, The global 3D Time-of-flight Image Sensors market was estimated at US\$ million in 2023 and is projected to reach a revised size of US\$ million by 2030, witnessing a CAGR of xx% during the forecast period 2024-2030.

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.

## Report Scope

This report aims to provide a comprehensive presentation of the global market for 3D Time-of-flight Image Sensors, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding 3D Time-of-flight Image Sensors.

The 3D Time-of-flight Image Sensors market size, estimations, and forecasts are provided in terms of sales volume (K Units) and revenue (\$ millions), considering 2023 as the base year, with history and forecast data for the period from 2019 to 2030. This report segments the global 3D Time-of-flight Image Sensors market comprehensively. Regional market sizes, concerning products by Type, by Application, and by players, are also provided. For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

### Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2019-2024. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

Texas Instruments

STMicroelectronics

PMD Technologies

Infineon

PrimeSense (Apple)

MESA (Heptagon)

Melexis

ifm Electronic

Canesta (Microsoft)

Espros Photonics

TriDiCam

### 3D Time-of-flight Image Sensors segment by Type

Half-QVGA ToF Image Sensor

QVGA ToF Image Sensor

Others

### 3D Time-of-flight Image Sensors segment by Application

Consumer Electronics

Robotics and Drone

Machine Vision and Industrial Automation

Entertainment

Automobile

Others

### 3D Time-of-flight Image Sensors Segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

## Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

## Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global 3D Time-of-flight Image Sensors market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of 3D Time-of-flight Image Sensors and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape

section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

4. This report stays updated with novel technology integration, features, and the latest developments in the market

5. This report helps stakeholders to gain insights into which regions to target globally

6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of 3D Time-of-flight Image Sensors.

7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

## Chapter Outline

Chapter 1: Introduces the study scope of this report, executive summary of market segments by type, market size segments for North America, Europe, Asia Pacific, Latin America, Middle East & Africa.

Chapter 2: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 3: Detailed analysis of 3D Time-of-flight Image Sensors manufacturers competitive landscape, price, sales, revenue, market share and ranking, latest development plan, merger, and acquisition information, etc.

Chapter 4: Sales, revenue of 3D Time-of-flight Image Sensors in regional level. It provides a quantitative analysis of the market size and development potential of each region and introduces the future development prospects, and market space in the world.

Chapter 5: Introduces market segments by application, market size segment for North America, Europe, Asia Pacific, Latin America, Middle East & Africa.

Chapter 6: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product sales, revenue, price, gross margin, product introduction, recent development, etc.

Chapter 7, 8, 9, 10 and 11: North America, Europe, Asia Pacific, Latin America, Middle East & Africa, sales and revenue by country.

Chapter 12: Analysis of industrial chain, key raw materials, manufacturing cost, and market dynamics.

Chapter 13: Concluding Insights of the report.

## Contents

### 1 MARKET OVERVIEW

#### 1.1 Product Definition

#### 1.2 Global Market Growth Prospects

1.2.1 Global 3D Time-of-flight Image Sensors Market Size Estimates and Forecasts (2019-2030)

1.2.2 Global 3D Time-of-flight Image Sensors Sales Estimates and Forecasts (2019-2030)

#### 1.3 3D Time-of-flight Image Sensors Market by Type

1.3.1 Half-QVGA ToF Image Sensor

1.3.2 QVGA ToF Image Sensor

1.3.3 Others

#### 1.4 Global 3D Time-of-flight Image Sensors Market Size by Type

1.4.1 Global 3D Time-of-flight Image Sensors Market Size Overview by Type (2019-2030)

1.4.2 Global 3D Time-of-flight Image Sensors Historic Market Size Review by Type (2019-2024)

1.4.3 Global 3D Time-of-flight Image Sensors Forecasted Market Size by Type (2025-2030)

#### 1.5 Key Regions Market Size by Type

1.5.1 North America 3D Time-of-flight Image Sensors Sales Breakdown by Type (2019-2024)

1.5.2 Europe 3D Time-of-flight Image Sensors Sales Breakdown by Type (2019-2024)

1.5.3 Asia-Pacific 3D Time-of-flight Image Sensors Sales Breakdown by Type (2019-2024)

1.5.4 Latin America 3D Time-of-flight Image Sensors Sales Breakdown by Type (2019-2024)

1.5.5 Middle East and Africa 3D Time-of-flight Image Sensors Sales Breakdown by Type (2019-2024)

### 2 GLOBAL MARKET DYNAMICS

2.1 3D Time-of-flight Image Sensors Industry Trends

2.2 3D Time-of-flight Image Sensors Industry Drivers

2.3 3D Time-of-flight Image Sensors Industry Opportunities and Challenges

2.4 3D Time-of-flight Image Sensors Industry Restraints



### **3 MARKET COMPETITIVE LANDSCAPE BY COMPANY**

- 3.1 Global Top Players by 3D Time-of-flight Image Sensors Revenue (2019-2024)
- 3.2 Global Top Players by 3D Time-of-flight Image Sensors Sales (2019-2024)
- 3.3 Global Top Players by 3D Time-of-flight Image Sensors Price (2019-2024)
- 3.4 Global 3D Time-of-flight Image Sensors Industry Company Ranking, 2022 VS 2023 VS 2024
- 3.5 Global 3D Time-of-flight Image Sensors Key Company Manufacturing Sites & Headquarters
- 3.6 Global 3D Time-of-flight Image Sensors Company, Product Type & Application
- 3.7 Global 3D Time-of-flight Image Sensors Company Commercialization Time
- 3.8 Market Competitive Analysis
  - 3.8.1 Global 3D Time-of-flight Image Sensors Market CR5 and HHI
  - 3.8.2 Global Top 5 and 10 3D Time-of-flight Image Sensors Players Market Share by Revenue in 2023
  - 3.8.3 2023 3D Time-of-flight Image Sensors Tier 1, Tier 2, and Tier

### **4 3D TIME-OF-FLIGHT IMAGE SENSORS REGIONAL STATUS AND OUTLOOK**

- 4.1 Global 3D Time-of-flight Image Sensors Market Size and CAGR by Region: 2019 VS 2023 VS 2030
- 4.2 Global 3D Time-of-flight Image Sensors Historic Market Size by Region
  - 4.2.1 Global 3D Time-of-flight Image Sensors Sales in Volume by Region (2019-2024)
  - 4.2.2 Global 3D Time-of-flight Image Sensors Sales in Value by Region (2019-2024)
  - 4.2.3 Global 3D Time-of-flight Image Sensors Sales (Volume & Value), Price and Gross Margin (2019-2024)
- 4.3 Global 3D Time-of-flight Image Sensors Forecasted Market Size by Region
  - 4.3.1 Global 3D Time-of-flight Image Sensors Sales in Volume by Region (2025-2030)
  - 4.3.2 Global 3D Time-of-flight Image Sensors Sales in Value by Region (2025-2030)
  - 4.3.3 Global 3D Time-of-flight Image Sensors Sales (Volume & Value), Price and Gross Margin (2025-2030)

### **5 3D TIME-OF-FLIGHT IMAGE SENSORS BY APPLICATION**

- 5.1 3D Time-of-flight Image Sensors Market by Application
  - 5.1.1 Consumer Electronics
  - 5.1.2 Robotics and Drone
  - 5.1.3 Machine Vision and Industrial Automation
  - 5.1.4 Entertainment

5.1.5 Automobile

5.1.6 Others

5.2 Global 3D Time-of-flight Image Sensors Market Size by Application

5.2.1 Global 3D Time-of-flight Image Sensors Market Size Overview by Application (2019-2030)

5.2.2 Global 3D Time-of-flight Image Sensors Historic Market Size Review by Application (2019-2024)

5.2.3 Global 3D Time-of-flight Image Sensors Forecasted Market Size by Application (2025-2030)

5.3 Key Regions Market Size by Application

5.3.1 North America 3D Time-of-flight Image Sensors Sales Breakdown by Application (2019-2024)

5.3.2 Europe 3D Time-of-flight Image Sensors Sales Breakdown by Application (2019-2024)

5.3.3 Asia-Pacific 3D Time-of-flight Image Sensors Sales Breakdown by Application (2019-2024)

5.3.4 Latin America 3D Time-of-flight Image Sensors Sales Breakdown by Application (2019-2024)

5.3.5 Middle East and Africa 3D Time-of-flight Image Sensors Sales Breakdown by Application (2019-2024)

## **6 COMPANY PROFILES**

6.1 Texas Instruments

6.1.1 Texas Instruments Company Information

6.1.2 Texas Instruments Business Overview

6.1.3 Texas Instruments 3D Time-of-flight Image Sensors Sales, Revenue and Gross Margin (2019-2024)

6.1.4 Texas Instruments 3D Time-of-flight Image Sensors Product Portfolio

6.1.5 Texas Instruments Recent Developments

6.2 STMicroelectronics

6.2.1 STMicroelectronics Company Information

6.2.2 STMicroelectronics Business Overview

6.2.3 STMicroelectronics 3D Time-of-flight Image Sensors Sales, Revenue and Gross Margin (2019-2024)

6.2.4 STMicroelectronics 3D Time-of-flight Image Sensors Product Portfolio

6.2.5 STMicroelectronics Recent Developments

6.3 PMD Technologies

6.3.1 PMD Technologies Company Information

- 6.3.2 PMD Technologies Business Overview
- 6.3.3 PMD Technologies 3D Time-of-flight Image Sensors Sales, Revenue and Gross Margin (2019-2024)
- 6.3.4 PMD Technologies 3D Time-of-flight Image Sensors Product Portfolio
- 6.3.5 PMD Technologies Recent Developments
- 6.4 Infineon
  - 6.4.1 Infineon Company Information
  - 6.4.2 Infineon Business Overview
  - 6.4.3 Infineon 3D Time-of-flight Image Sensors Sales, Revenue and Gross Margin (2019-2024)
  - 6.4.4 Infineon 3D Time-of-flight Image Sensors Product Portfolio
  - 6.4.5 Infineon Recent Developments
- 6.5 PrimeSense (Apple)
  - 6.5.1 PrimeSense (Apple) Company Information
  - 6.5.2 PrimeSense (Apple) Business Overview
  - 6.5.3 PrimeSense (Apple) 3D Time-of-flight Image Sensors Sales, Revenue and Gross Margin (2019-2024)
  - 6.5.4 PrimeSense (Apple) 3D Time-of-flight Image Sensors Product Portfolio
  - 6.5.5 PrimeSense (Apple) Recent Developments
- 6.6 MESA (Heptagon)
  - 6.6.1 MESA (Heptagon) Company Information
  - 6.6.2 MESA (Heptagon) Business Overview
  - 6.6.3 MESA (Heptagon) 3D Time-of-flight Image Sensors Sales, Revenue and Gross Margin (2019-2024)
  - 6.6.4 MESA (Heptagon) 3D Time-of-flight Image Sensors Product Portfolio
  - 6.6.5 MESA (Heptagon) Recent Developments
- 6.7 Melexis
  - 6.7.1 Melexis Company Information
  - 6.7.2 Melexis Business Overview
  - 6.7.3 Melexis 3D Time-of-flight Image Sensors Sales, Revenue and Gross Margin (2019-2024)
  - 6.7.4 Melexis 3D Time-of-flight Image Sensors Product Portfolio
  - 6.7.5 Melexis Recent Developments
- 6.8 ifm Electronic
  - 6.8.1 ifm Electronic Company Information
  - 6.8.2 ifm Electronic Business Overview
  - 6.8.3 ifm Electronic 3D Time-of-flight Image Sensors Sales, Revenue and Gross Margin (2019-2024)
  - 6.8.4 ifm Electronic 3D Time-of-flight Image Sensors Product Portfolio

6.8.5 ifm Electronic Recent Developments

6.9 Canesta (Microsoft)

6.9.1 Canesta (Microsoft) Company Information

6.9.2 Canesta (Microsoft) Business Overview

6.9.3 Canesta (Microsoft) 3D Time-of-flight Image Sensors Sales, Revenue and Gross Margin (2019-2024)

6.9.4 Canesta (Microsoft) 3D Time-of-flight Image Sensors Product Portfolio

6.9.5 Canesta (Microsoft) Recent Developments

6.10 Espros Photonics

6.10.1 Espros Photonics Company Information

6.10.2 Espros Photonics Business Overview

6.10.3 Espros Photonics 3D Time-of-flight Image Sensors Sales, Revenue and Gross Margin (2019-2024)

6.10.4 Espros Photonics 3D Time-of-flight Image Sensors Product Portfolio

6.10.5 Espros Photonics Recent Developments

6.11 TriDiCam

6.11.1 TriDiCam Company Information

6.11.2 TriDiCam Business Overview

6.11.3 TriDiCam 3D Time-of-flight Image Sensors Sales, Revenue and Gross Margin (2019-2024)

6.11.4 TriDiCam 3D Time-of-flight Image Sensors Product Portfolio

6.11.5 TriDiCam Recent Developments

## **7 NORTH AMERICA BY COUNTRY**

7.1 North America 3D Time-of-flight Image Sensors Sales by Country

7.1.1 North America 3D Time-of-flight Image Sensors Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

7.1.2 North America 3D Time-of-flight Image Sensors Sales by Country (2019-2024)

7.1.3 North America 3D Time-of-flight Image Sensors Sales Forecast by Country (2025-2030)

7.2 North America 3D Time-of-flight Image Sensors Market Size by Country

7.2.1 North America 3D Time-of-flight Image Sensors Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

7.2.2 North America 3D Time-of-flight Image Sensors Market Size by Country (2019-2024)

7.2.3 North America 3D Time-of-flight Image Sensors Market Size Forecast by Country (2025-2030)

## **8 EUROPE BY COUNTRY**

### 8.1 Europe 3D Time-of-flight Image Sensors Sales by Country

8.1.1 Europe 3D Time-of-flight Image Sensors Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

8.1.2 Europe 3D Time-of-flight Image Sensors Sales by Country (2019-2024)

8.1.3 Europe 3D Time-of-flight Image Sensors Sales Forecast by Country (2025-2030)

### 8.2 Europe 3D Time-of-flight Image Sensors Market Size by Country

8.2.1 Europe 3D Time-of-flight Image Sensors Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

8.2.2 Europe 3D Time-of-flight Image Sensors Market Size by Country (2019-2024)

8.2.3 Europe 3D Time-of-flight Image Sensors Market Size Forecast by Country (2025-2030)

## **9 ASIA-PACIFIC BY COUNTRY**

### 9.1 Asia-Pacific 3D Time-of-flight Image Sensors Sales by Country

9.1.1 Asia-Pacific 3D Time-of-flight Image Sensors Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

9.1.2 Asia-Pacific 3D Time-of-flight Image Sensors Sales by Country (2019-2024)

9.1.3 Asia-Pacific 3D Time-of-flight Image Sensors Sales Forecast by Country (2025-2030)

### 9.2 Asia-Pacific 3D Time-of-flight Image Sensors Market Size by Country

9.2.1 Asia-Pacific 3D Time-of-flight Image Sensors Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

9.2.2 Asia-Pacific 3D Time-of-flight Image Sensors Market Size by Country (2019-2024)

9.2.3 Asia-Pacific 3D Time-of-flight Image Sensors Market Size Forecast by Country (2025-2030)

## **10 LATIN AMERICA BY COUNTRY**

### 10.1 Latin America 3D Time-of-flight Image Sensors Sales by Country

10.1.1 Latin America 3D Time-of-flight Image Sensors Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

10.1.2 Latin America 3D Time-of-flight Image Sensors Sales by Country (2019-2024)

10.1.3 Latin America 3D Time-of-flight Image Sensors Sales Forecast by Country (2025-2030)

### 10.2 Latin America 3D Time-of-flight Image Sensors Market Size by Country

10.2.1 Latin America 3D Time-of-flight Image Sensors Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

10.2.2 Latin America 3D Time-of-flight Image Sensors Market Size by Country (2019-2024)

10.2.3 Latin America 3D Time-of-flight Image Sensors Market Size Forecast by Country (2025-2030)

## **11 MIDDLE EAST AND AFRICA BY COUNTRY**

11.1 Middle East and Africa 3D Time-of-flight Image Sensors Sales by Country

11.1.1 Middle East and Africa 3D Time-of-flight Image Sensors Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

11.1.2 Middle East and Africa 3D Time-of-flight Image Sensors Sales by Country (2019-2024)

11.1.3 Middle East and Africa 3D Time-of-flight Image Sensors Sales Forecast by Country (2025-2030)

11.2 Middle East and Africa 3D Time-of-flight Image Sensors Market Size by Country

11.2.1 Middle East and Africa 3D Time-of-flight Image Sensors Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

11.2.2 Middle East and Africa 3D Time-of-flight Image Sensors Market Size by Country (2019-2024)

11.2.3 Middle East and Africa 3D Time-of-flight Image Sensors Market Size Forecast by Country (2025-2030)

## **12 VALUE CHAIN AND SALES CHANNELS ANALYSIS**

12.1 3D Time-of-flight Image Sensors Value Chain Analysis

12.1.1 3D Time-of-flight Image Sensors Key Raw Materials

12.1.2 Key Raw Materials Price

12.1.3 Raw Materials Key Suppliers

12.1.4 Manufacturing Cost Structure

12.1.5 3D Time-of-flight Image Sensors Production Mode & Process

12.2 3D Time-of-flight Image Sensors Sales Channels Analysis

12.2.1 Direct Comparison with Distribution Share

12.2.2 3D Time-of-flight Image Sensors Distributors

12.2.3 3D Time-of-flight Image Sensors Customers

## **13 CONCLUDING INSIGHTS**

## **14 APPENDIX**

14.1 Reasons for Doing This Study

14.2 Research Methodology

14.3 Research Process

14.4 Authors List of This Report

14.5 Data Source

14.5.1 Secondary Sources

14.5.2 Primary Sources

14.6 Disclaimer

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