

# Global 3D ToF Image Sensor Supply, Demand and Key Producers, 2023-2029

<https://marketpublishers.com/r/G56C6D1F2574EN.html>

Date: July 2024

Pages: 126

Price: US\$ 4,480.00 (Single User License)

ID: G56C6D1F2574EN

## Abstracts

The global 3D ToF Image Sensor market size is expected to reach \$ 7537.9 million by 2029, rising at a market growth of 16.1% CAGR during the forecast period (2023-2029). A 3D time-of-flight camera (ToF camera) can be described as a range imaging camera system that uses time-of-flight techniques to determine the distance between the subject and the camera or each point of the image. The distance is measured in these cameras by measuring the round trip time of an artificial light signal provided by an LED or laser. Thus, the major use of ToF camera sensors is to measure the volume and distance along with indoor navigation, object scanning, gesture recognition, reactive altimeters, and obstacle avoidance. With the help of the data gathered from the sensor, it can be used in enhancing augmented reality (AR) and 3D imaging experiences. In smartphones, ToF camera sensors will be used for AR, 3D photography and specifically portrait mode. Theoretically, these cameras are thought to have enhanced capacity to blur photo backgrounds in portrait mode. In order to develop this feature in these cameras, the developing of required software is needed. These cameras can also assist in low-light situations with the help of the sensors used in it, which uses infrared light to determine "distance-to-subject". The application of ToF camera sensors in smartphones would also help in focusing in darkness. Apart from various advantages associated with ToF camera sensor, it's increasing demand in various industries would also support the growth of the sector. As an instance, Microsoft had used ToF cameras in the second-generation of Kinect devices. Similarly, drone companies have also adopted it, like the Chouette drone.

Some of the mentionable advantages associated with ToF camera sensors, which are, it can be used in measuring the distances in a complete scene in one shot. These cameras are also able to sense the time that it requires light to return from surrounding objects, integrate it with video data, and form real time 3D images. 3D ToF camera can also be used to track hand or facial movements, overlay 3D objects in an image,

eliminate background from an image or map out a room. The presence of these advantages in these cameras would, in turn, support the growth of the market. Though various advantages of 3D ToF sensors would propel the market growth, restraining factors like depth imaging technologies and various lighting unit designs may negatively impact the growth of the market.

This report studies the global 3D ToF Image Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 3D ToF Image Sensor, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of 3D ToF Image Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 3D ToF Image Sensor total production and demand, 2018-2029, (K Units)

Global 3D ToF Image Sensor total production value, 2018-2029, (USD Million)

Global 3D ToF Image Sensor production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global 3D ToF Image Sensor consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: 3D ToF Image Sensor domestic production, consumption, key domestic manufacturers and share

Global 3D ToF Image Sensor production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global 3D ToF Image Sensor production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global 3D ToF Image Sensor production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units)

This reports profiles key players in the global 3D ToF Image Sensor 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 OMRON, Infineon Technologies, Toppan, Nuvoton, Milesight, Sony, Hamamatsu Photonics, DOMI and ToF Sensors, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence. Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 3D ToF Image Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by

manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global 3D ToF Image Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 3D ToF Image Sensor Market, Segmentation by Type

Short-Range ToF Sensor

Long-Range ToF Sensor

Others

Global 3D ToF Image Sensor Market, Segmentation by Application

Smart Home

Drone

Automated Industry

Others

Companies Profiled:

OMRON

Infineon Technologies

Toppan

Nuvoton

Milesight

Sony

Hamamatsu Photonics

DOMI

ToF Sensors

Panasonic

ams OSRAM

Broadcom

ESPROS Photonics

Sipeed

Melexis

Keyence

Ifm Electronic

STMicroelectronics

Texas Instruments

PMD Technologies

Intel RealSense

#### Key Questions Answered

1. How big is the global 3D ToF Image Sensor market?
2. What is the demand of the global 3D ToF Image Sensor market?
3. What is the year over year growth of the global 3D ToF Image Sensor market?
4. What is the production and production value of the global 3D ToF Image Sensor market?
5. Who are the key producers in the global 3D ToF Image Sensor market?
6. What are the growth factors driving the market demand?

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