

Global 3D ToF Image Sensor Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global 3D ToF Image Sensor market size was valued at USD 2654.7 million in 2022 and is forecast to a readjusted size of USD 7537.9 million by 2029 with a CAGR of 16.1% during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

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 secondgeneration 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 is a detailed and comprehensive analysis for global 3D ToF Image Sensor 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 2023, are provided.

Key Features:

Global 3D ToF Image Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029 Global 3D ToF Image Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global 3D ToF Image Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global 3D ToF Image Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2018-2023

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 ToF Image Sensor

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 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 and Milesight, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.



Market Segmentation

Sony

3D ToF Image Sensor market is split by Type and by Application. For the period 2018-2029, 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

	Short-Range ToF Sensor	
	Long-Range ToF Sensor	
	Others	
Market segment by Application		
	Smart Home	
	Drone	
	Automated Industry	
	Others	
Major players covered		
	OMRON	
	Infineon Technologies	
	Toppan	
	Nuvoton	
	Milesight	



Hamamatsu Photonics	
DOMI	
ToF Sensors	
Panasonic	
ams OSRAM	
Broadcom	
ESPROS Photonics	
Sipeed	
Melexies	
Keyence	
Ifm Electronic	
STMicroelectronics	
Texas Instruments	
PMD Technologies	
Intel RealSense	
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 ToF Image Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 3D ToF Image Sensor, with price, sales, revenue and global market share of 3D ToF Image Sensor from 2018 to 2023.

Chapter 3, the 3D ToF Image Sensor competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 3D ToF Image Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022.and 3D ToF Image Sensor market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of 3D ToF Image Sensor.

Chapter 14 and 15, to describe 3D ToF Image Sensor sales channel, distributors, customers, research findings and conclusion.



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