

# **Asia-Pacific Time-of-Flight Sensor Market Forecast to 2028 – COVID-19 Impact and Regional Analysis – by Device Type (RF-Modulated Light Sources With Phase Detectors, Range-Gated Imagers, and Direct Time-of-Flight Imagers), Vertical (Automotive, Consumer Electronics, Gaming and Entertainment, Industrial, Healthcare, Aerospace & Defense, and Others)**

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## **Abstracts**

The Asia-Pacific time-of-flight sensor market is expected to grow from US\$ 1,564.12 million in 2022 to US\$ 4,313.81 million by 2028. It is estimated to grow at a CAGR of 18.4% from 2022 to 2028.

### **Rising Adoption of Time-of-Flight Technology in Smartphones in Asia-Pacific Time-of-Flight Sensor Market**

Image sensor based on time-of-flight technology uses a laser beam to accurately measure the distance to the target object. Therefore, the demand for technology in mobile devices is increasing tremendously, specifically for photography features such as blurring effects and auto-focus. In addition, the demand for 3D facial mapping for features such as facial unlocking of the smartphone is raising the demand for time-of-flight cameras in the market. Owing to the increasing demand for time-of-flight technologies, the market players are working on incorporating the technology into smartphones. In August 2022, Samsung announced that they are working on the ISOCELL Vizion 3D ToF camera sensor. The company will incorporate this technology in its new Galaxy S21 series, which will be released in 2023. Through this technology, the company claims to provide better facial recognition and depth sensing capabilities with an accurate and immersive augmented reality experience. The application supports

Android and iOS devices. ToF AR uses the back-illuminated ToF 3D image sensor to obtain real-time high-resolution and high-precision 3D depth information. It is also ideal for 3D face recognition, 3D scanning, autofocus assistance, and the bokeh effect for cameras. Thus, the growing adoption of time-of-flight technology in smartphones will fuel the growth of the Asia-Pacific time-of-flight sensor market in the coming years.

## Asia-Pacific Time-Of-Flight Sensor Market Overview

The APAC Time-of-Flight Sensor market is segmented into China, India, Japan, Australia, South Korea, and the Rest of APAC. According to GSMA, the smartphone adoption rate in the region reached 68% in 2020, which is expected to increase to 83% by 2025. Thus, the growing demand for smartphones in the region is raising the requirement for Time-of-Flight Sensors, propelling the growth of the market. The growing demand for other consumer electronic devices such as tablets, PCs, laptops, and others in Asian countries will also boost the growth of the Asia Pacific Time-of-Flight Sensor market in the coming years. In Asia Pacific, China is the largest manufacturer of consumer electronic devices. According to Nikkei Inc., the Chinese government is working on various plans to expand the country's domestic electronic market by investing US\$ 327 billion till 2023. In addition, the Indian government is expanding the electronics market in the country. According to the Ministry of Electronics & IT, initiatives by the Indian government and efforts of the industry have led to the domestic production of electronic goods with revenue of US\$ 74.7 billion in 2020 and a CAGR of 17.9%. A few government policies for electronics manufacturing include the Production Linked Incentive (PLI) Schemes, the Scheme for Promotion of Manufacturing of Electronic Components and Semiconductors (SPECES) , and the Modified Electronics Manufacturing Cluster (EMC 2.0) Scheme. Furthermore, the electronics sector in Asia Pacific accounts for 20–50% of Asia's total value of exports. As Asia Pacific is the largest electronic manufacturer, the demand for Time-of-Flight Sensors will rise across the region during the forecast period. Sony Group Corp, OMRON Corp, Panasonic Holdings Corp, and Keyence Corp are among the market players that manufacture Time-of-Flight Sensors across Asia Pacific.

## Asia-Pacific Time-Of-Flight Sensor market Revenue and Forecast to 2028 (US\$ Million)

### Asia-Pacific Time-Of-Flight Sensor market Segmentation

The Asia-Pacific Time-Of-Flight Sensor market is segmented on the basis of device type, vertical, and country.

Based on device type, the Asia-Pacific time-of-flight sensor market is segmented into RF-modulated light sources with phase detectors, range-gated imagers, and direct time-of-flight imagers. The range-gated imagers segment registered the largest market share in 2022.

Based on vertical, the Asia-Pacific time-of-flight sensor market is segmented into automotive, consumer electronics, gaming and entertainment, industrial, healthcare, aerospace and defense, and others. The consumer electronics segment registered a larger market share in 2022.

Based on country, the Asia-Pacific time-of-flight sensor market is segmented into China, Japan, India, South Korea, Australia, and the Rest of Asia-Pacific. Germany dominated the market share in 2022.

Analog Devices Inc, Infineon Technologies AG, InvenSense Inc, Keyence Corp, OMRON Corp, Panasonic Holdings Corp, Sony Group Corp, STMicroelectronics NV, Teledyne e2v (Overseas) Holdings Ltd, and Texas Instruments Inc are the leading companies operating in the Asia-Pacific time-of-flight sensor market.

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