

# **North America 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 North America time-of-flight sensor market is expected to grow from US\$ 757 million in 2022 to US\$ 1,802.85 million by 2028. It is estimated to grow at a CAGR of 15.5% from 2022 to 2028.

### **Continuous Product Innovations and Launches in North America Time-of-Flight Sensor Market**

The stakeholders across industries are continuously investing in R&D to develop robust solutions to simplify industrial operations. The growing demand for Time-of-Flight Sensors in various industries such as automotive, consumer electronics, and healthcare compelled the market players to invest in developing new and innovative products in recent years. A few of the major product developments are mentioned below:

- In March 2022, STMicroelectronics announced the launch of new high-resolution Time-of-Flight Sensors for advanced 3D depth imaging for smartphones and other devices. The VD55H1 sensor maps 3D surfaces by measuring the distance to around half a million points and helps detect objects up to 5 m from the sensor.

Such advancements in Time-of-Flight Sensors, supported by high investments from

manufacturers to develop innovative products as per customer requirements, drive the growth of the North America Time-of-Flight Sensors market.

## North America Time-Of-Flight Sensor Market Overview

The Time-of-Flight Sensor market in North America is segmented into the US, Canada, and Mexico. The market growth in the region is attributed to the increasing demand for time-of-flight (ToF) sensors in automotive and consumer electronics applications. According to the American Automotive Policy Council (AAPC), the automotive industry in the US accounts for about 3% of the country's GDP. The ToF technology provides accurate and robust depth-sensing capabilities for a wide range of automotive applications within and beyond the vehicle. Inside the vehicle, the time-of-flight technology provides safety and comfort to the driver and passengers. A few safety functions provided by the ToF camera are NCAP-mandated driver fatigue detection, hands-on-wheel detection, body pose, eye gaze, head pose, and advanced seat-belt application. The safety function of the Time-of-Flight Sensor helps prevent road accidents. Thus, owing to the rising awareness about safety functions, the demand for vehicles incorporated with the ToF camera is increasing in the North American market.

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

### North America Time-Of-Flight Sensor market Segmentation

The North America Time-Of-Flight Sensor market is segmented on the basis of device type, vertical, and country. Based on device type, the North America 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 North America 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 North America time-of-flight sensor market is segmented into US, Canada, and Mexico. US 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 North America time-of-flight sensor market.

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