

Middle East & Africa 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 Middle East & Africa time-of-flight sensor market is expected to grow from US\$ 107.61 million in 2022 to US\$ 268.00 million by 2028. It is estimated to grow at a CAGR of 16.4% from 2022 to 2028.

Increasing Use of Time-of-Flight Technology in Autonomous Mobile Robots in Middle East & Africa Time-of-Flight Sensor Market

The time-of-flight technology helps provide advanced 3D imaging for mobile robots. The time-of-flight cameras use a sensor, lighting unit, and depth processing unit, which assist mobile robots in calculating depth. Thus, the technology makes it easy to evaluate distance in a full scene with just one laser pulse. Therefore, it is widely adopted in industries requiring information on real-time depth and visuals. In addition, the lighting unit of the camera helps perform its tasks in brightly-lit conditions or complete darkness. Furthermore, in warehouse operations, time-of-flight cameras can provide depth-sensing intelligence for Automated Guided Vehicles (AGVs) and Autonomous Mobile Robots (AMRs). The cameras can be used to perceive the surroundings and capture depth imaging data, which further helps undertake business-

critical functions with accuracy, convenience, and speed. Hence, the demand for time-of-flight cameras is increasing, pushing the market players to develop technologically advanced time-of-flight cameras. In May 2022, e-con Systems announced the launch of DepthVista, a Time-of-flight camera with a ToF depth sensor for depth measurement and the AR0234 color global shutter sensor for object identification. Thus, such innovations by the market players and the rising adoption of Time-of-Flight Sensors in AMRs will create lucrative opportunities for the Time-of-Flight Sensors market during the forecast period.

Middle East & Africa Time-Of-Flight Sensor Market Overview

The Middle East & Africa time-of-flight sensor market is segmented into South Africa, Saudi Arabia, the UAE, and the Rest of the MEA. The Middle East & Africa time-of-flight sensor market growth in the region is attributed to the growing automotive industry. The Gulf region is home to more than 2 million vehicles, consisting of light, medium, and heavy commercial vehicles. The increasing domestic demand for high-end cars with incorporated ToF sensors in Dubai is driving the Time-of-Flight Sensor market growth in the Middle East & Africa. Furthermore, according to the Dubai Chamber of Commerce and Industry, Dubai's value of export and re-export of vehicles surged by 21.8% year-on-year in 2021, reaching US\$ 40.10 billion. Thus, the growing automotive industry in the region is further fueling the market growth. In addition, the ongoing growth in the medical industry in Saudi Arabia has the potential to rise the demand for Time-of-Flight Sensors as it is used in the health monitoring devices, thus fueling the growth of Middle East & Africa time-of-flight sensor market during the forecast period. The country accounts for ~60% of the total healthcare expenditure of the Gulf Cooperation Council (GCC) countries. According to the International Trade Administration of the US Department of Commerce, in 2022, Saudi Arabia announced the spending of US\$ 36.8 billion on healthcare and social development, which is 14.4% of its 2022 budget. In addition, the Saudi Arabian Government is planning to invest ~US\$ 65 billion to have a well-developed healthcare infrastructure by 2030. Thus, the growing investment in healthcare infrastructure will further boost the growth of Middle East & Africa Time-of-Flight Sensor market.

Middle East & Africa Time-Of-Flight Sensor market Revenue and Forecast to 2028 (US\$ Million)

Middle East & Africa Time-Of-Flight Sensor market Segmentation

The Middle East & Africa Time-Of-Flight Sensor market is segmented on the basis of

device type, vertical, and country. Based on device type, the Middle East & Africa 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 Middle East & Africa 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 Middle East & Africa time-of-flight sensor market is segmented into South Africa, Saudi Arabia, UAE, and the Rest of MEA. South Africa 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 Middle East & Africa time-of-flight sensor market.

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