

Face Mask Detection Market Manifesting a CAGR of 8.1% from 2020-2030

Rising demand for safer workplaces and higher public safety standards is driving growth in the global face mask detection market.

WILMINGTON, DE, UNITED STATES, July 22, 2025 /EINPresswire.com/ -- As per the report, the global [face mask detection market](#) generated \$1.80 billion in 2020, and is estimated to reach \$4.12 billion by 2030, growing at a CAGR of 8.1% from 2021 to 2030.



Face mask detection refers to the use of artificial intelligence (AI), computer vision, and machine learning technologies to automatically identify whether individuals are wearing face masks, typically through video surveillance systems or digital images. It is commonly used in public spaces, workplaces, and transportation hubs to enhance health and safety measures, especially during pandemics like COVID-19.

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Need for safer return to work solutions and increase in public safety standards drive the global face mask detection market. However, users concerns about data privacy and end of face mask compulsion rules in public places hinder the market growth. On the contrary, adoption of face mask detection systems in transportation sectors and deployment in containment zones are expected to open new opportunities for the market players in the future.

Asia-Pacific includes major and developing economies, such as China, Japan, India, Singapore, and South Korea. The growing number of investments in security and surveillance, due to high crime rates and outbreaks of viruse, is leading to increased public awareness. Because of these factors, the market is growing in the region.

The use of face mask detection technology is applied to all specific areas, such as health care,

government, defense and territories, including airports, country, and national borders. Moreover, the government initiatives of mask up and adoption of AI and ML technologies and due to presence of many key players in the region, the face mask detection solutions is widely adopted in the region.

The COVID-19 pandemic significantly increased global focus on healthcare and public safety measures aimed at curbing the spread of the virus. Governments worldwide introduced various precautions, from sanitizing public areas to enforcing strict home quarantines. Among these, wearing face masks emerged as one of the most effective methods to reduce SARS-CoV-2 transmission. As a result, many local authorities implemented strict mask mandates. To support enforcement, face mask detection systems were deployed, which in turn contributed to the growth of the face mask detection market over time.

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Covid-19 scenario:

1. The Covid-19 pandemic increased the demand for face masks. The businesses are instructed to enforce face masks, follow social distancing rules, and maintain hygiene inside the office buildings.
2. However, the sudden increased demand for face masks and lockdown restrictions created challenges in the supply chain.

By technology, the optical segment held the largest share in 2020, accounting for more than four-fifths of the global face mask detection market, due to demand for surveillance systems to improve security and strict government regulations across the world. However, the e-beam segment is projected to manifest the highest CAGR of 10.3% during the forecast period, as it is convenient and more efficient.

By component, the software segment is expected to portray the highest CAGR of 9.5% during the forecast period, due to rapid surge in volume of security and verticals data coupled with ever-increasing automation of business processes across several industries. However, the hardware segment held the largest share in 2020, contributing to more than three-fourths of the global face mask detection industry, owing to rise in need for hardware devices for surveillance and safety and the need for hardware devices.

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By region, the market across North America dominated the market in 2020, accounting for nearly two-fifths of the global face mask detection market, due to growth of infrastructure and

rise in adoption of face mask detection solutions in airports and hospitals. However, the market across Asia-Pacific is anticipated to register the highest CAGR of 10.1% during the forecast period, owing to high crime rates and Covid-19 outbreak along with increase in public awareness.

Major Market Players:

Aerialtronics
Asura Technologies
Canaan Inc.
InData Labs
LeewayHertz
Microsoft Corporation
Mobisoft Infotech LLC
NEC Corporation
Sightcorp
Trident Information Systems Pvt. Ltd.

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