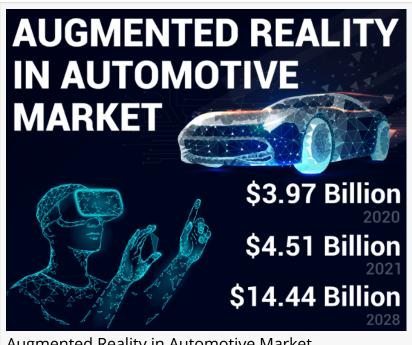


# Augmented Reality In Automotive Market Size Is Projected to Grow to USD 14.44 Billion in 2028 at a CAGR of 18.1%

Augmented reality in automotive market key companies profiled are Continental AG, Volkswagen AG, Daimler AG, Panasonic Corporation, Visteon Corporation

PUNE, MAHARASHTRA, INDIA, October 1, 2025 /EINPresswire.com/ -- The global <u>augmented reality (AR) in</u> automotive market was valued at USD 3.97 billion in 2020. Despite the unprecedented impact of COVID-19 on the automotive sector, the AR segment witnessed a positive demand shock across all regions, growing by 12.5% in 2020 compared to the average growth during 2017-2019. The market is projected to expand from USD 4.51



Augmented Reality in Automotive Market

billion in 2021 to USD 14.44 billion by 2028, at a CAGR of 18.1% during 2021-2028. North America dominated the market in 2020, holding a 38.54% share, owing to technological advancements and early adoption of AR in vehicles.



North America dominated the global market with a share of 38.54% in 2020." Fortune Business Insights Augmented Reality is transforming Human-Machine Interaction (HMI) in vehicles, where virtual components are overlaid on the real-world environment to enhance the driving experience, safety, and infotainment. This technology is increasingly integrated into electric vehicles, connected vehicles, and semi-autonomous or autonomous vehicles, creating innovative solutions across driving,

maintenance, training, and diagnostics.

Market Dynamics

#### **Market Drivers**

The global augmented reality (AR) in automotive market is primarily driven by the growing adoption of connected vehicles and advanced driver assistance systems (ADAS). AR technology enhances vehicle safety by visualizing critical guidance information directly in the driver's line of sight through head-up displays, enabling real-time navigation, speed alerts, and hazard warnings. Rapid technological advancements, including the integration of IoT, 5G connectivity, and electric vehicles, are further accelerating the deployment of AR in the automotive sector. Additionally, consumers are increasingly seeking immersive and interactive driving experiences, prompting OEMs to integrate AR HUDs and infotainment systems into passenger cars. The continuous development of semi-autonomous and autonomous vehicles also fuels demand, as AR systems improve situational awareness and reduce safety concerns for drivers and passengers. Overall, the combination of enhanced safety, convenience, and a superior driving experience is propelling market growth.

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#### Market Restraints

- Cybersecurity Concerns: AR vehicles rely on telematics and internet connectivity, which pose potential risks of data theft and cyberattacks.
- High Costs and Limited Availability: AR systems are predominantly found in premium passenger vehicles, limiting mass adoption and affordability.
   Market Opportunities
- Integration in Electric and Semi-autonomous Vehicles: As EV adoption rises and semiautonomous technology matures, AR can enhance safety, navigation, and infotainment, creating new growth opportunities.
- Expansion into Emerging Markets: Investments in AR-focused startups in APAC and other regions provide opportunities for localized innovation.

## **Latest Industry Trends**

- Development of Semi-autonomous and Autonomous Vehicles: AR reduces passenger safety concerns in semi-autonomous vehicles. By 2040, an estimated 75% of cars on roads will be autonomous, driving AR adoption.
- Integration with HUD and Waveguide Displays: Emerging holographic and waveguide technologies are enhancing AR display quality in vehicles.

# Segmentation Analysis

Based on function, the AR in automotive market is led by Standard AR HUD systems, which held

the largest market share in 2020 due to widespread adoption by OEMs. AR HUD navigation systems are expected to register the fastest CAGR of 19.6%, driven by growing consumer preference for AR-enabled navigation. Other functional applications include HUD-based adaptive cruise control and HUD-based lane departure warning, which are gradually gaining traction as advanced safety features.

In terms of sensor technology, the sensor fusion segment dominates and is projected to maintain the fastest growth at a CAGR of 20.2% by 2028. Sensor fusion combines data from radar, LiDAR, and CMOS image sensors to deliver high accuracy in AR applications. Individual sensor technologies such as radar, LiDAR, and CCD/CMOS image sensors continue to support real-time AR visualization, particularly for ADAS and semi-autonomous vehicles.

Considering display technology, TFT-LCD displays held the largest market share in 2020 due to their high resolution, reliability, and cost-effectiveness, while other advanced displays, including OLED, are expected to grow as OEMs increasingly adopt next-generation display technologies.

By electric vehicle type, battery electric vehicles (BEVs) dominated in 2020 and are expected to continue leading, driven by stringent emission regulations and the rising adoption of EVs globally. Hybrid vehicles form the secondary segment but are also witnessing gradual growth.

## **Regional Insights**

- North America: Largest market in 2020, valued at USD 1.53 billion. Growth driven by EV adoption, technological advancements, and strong OEM presence. U.S. market projected to reach USD 3.34 billion by 2028.
- Europe: Second-largest market (31.20% share in 2020). Germany, U.K., and France lead adoption, supported by OEMs like BMW, Mercedes, and Volkswagen.
- Asia Pacific: Fastest-growing region with CAGR of 20.7%. China, Japan, South Korea, and India drive growth through EV adoption, government initiatives, and AR-focused startups.
- Rest of the World: Gradual growth driven by EV adoption and increasing OEM investments in AR technologies.

If You Want More Insights Into Augmented Reality in Automotive Market, Buy This Exclusive Report: <a href="https://www.fortunebusinessinsights.com/select-license/105593">https://www.fortunebusinessinsights.com/select-license/105593</a>

# Competitive Landscape

The market is consolidated, with key players driving technological innovation and commercial deployment of AR in automotive applications. OEMs integrate AR for infotainment, safety, and maintenance services, while technology providers focus on AR HUD systems and sensor fusion solutions.

# Key Companies Profiled:

- Continental AG (Germany)
- Volkswagen AG (Germany)
- Daimler AG (Germany)
- BMW Group (Germany)
- Panasonic Corporation (Japan)
- Visteon Corporation (U.S.)
- Hyundai Motor Company (South Korea)
- Jaguar Cars (U.K.)
- WayRay (Switzerland)
- Audi AG (Germany)

## Key Industry Developments:

- March 2021: Audi introduced AR HUD in the Q4 e-Tron electric vehicle.
- January 2021: Panasonic launched new AR HUD at CES 2021 with Al-enhanced visualization for speed, pedestrian detection, and route guidance.
- 2017: Hyundai launched AR-based dealership app in Australia to showcase the i30 hatchback.
- 2016: Continental AG partnered with DigiLens Inc. to develop ultra-thin AR HUD displays for passenger vehicles.

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