

U.S. Heavy-duty Commercial Vehicles Advanced Driver Assistance System Market Size, Share & Trends Analysis Report By Solution, By Component Provider, By Vehicle Type And Segment Forecasts, 2025 - 2033

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Abstracts

The U.S. heavy-duty commercial vehicles advanced driver assistance system market size was estimated at USD 446.6 million in 2024 and is projected to reach USD 1,345.5 million by 2033, growing at a CAGR of 13.5% from 2025 to 2033. Growing concerns over road fatalities involving heavy commercial vehicles have accelerated the adoption of ADAS (advanced driver assistance system) technologies across the U.S. market.

Federal and state authorities continue to promote stricter safety norms, compelling fleet operators to integrate systems such as collision avoidance, lane departure warnings, and blind-spot detection. As a result, ADAS has increasingly been viewed as a critical tool to minimize driver errors and reduce liability, thereby strengthening its penetration in heavy-duty truck fleets. This emphasis on safety has positioned ADAS as a fundamental enabler of risk reduction and transportation reliability Market.

Regulatory support has been a key growth factor, with agencies such as NHTSA and FMCSA encouraging the installation of advanced safety systems in commercial vehicles. Emerging mandates on automatic emergency braking (AEB), driver-monitoring systems, and electronic logging devices are creating a compliance-based demand for ADAS integration. Federal incentives and policy alignment with Vision Zero initiatives have further accelerated technology adoption. As regulations tighten, fleet owners are increasingly prioritizing ADAS investments to remain fully compliant and avoid operational penalties.

U.S. Heavy-duty Commercial Vehicles Advanced Driver Assistance System Market Report Segmentation

This report forecasts revenue growth at the country level and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. heavy-duty commercial vehicles advanced driver assistance system (ADAS) market report based on solution, component provider, and vehicle type.

Solution Outlook (Revenue, USD Million, 2021 - 2033)

Adaptive Cruise Control (ACC)

Blind Spot Detection System (BSD)

Park Assistance

Lane Departure Warning (LDWS) System

Tire Pressure Monitoring System (TPMS)

Autonomous Emergency Braking (AEB)

Adaptive Front Lights (AFL)

Others

Component Provider Outlook (Revenue, USD Million, 2021 - 2033)

Processor

Sensors

Software

Others

Vehicle Type Outlook (Revenue, USD Million, 2021 - 2033)

Heavy-duty Trucks

Buses & Coaches

Construction & Mining Vehicles

Trailers & Semi-Trailers

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