Global Passenger Detection Systems Market: Key Research Findings 2015

◆ Research Outline

Yano Research Institute has conducted a study on the global market of passenger detection systems with the following conditions:

1. Research period: From July to November, 2015
2. Research targets: Manufacturers of automobiles, car electronics, and semiconductors
3. Research methodologies: face-to-face interviews by the expert researchers, surveys via telephone/email, and literature research

<What are Passenger Detection Systems?>

The passenger detection systems are those in-vehicle systems that are equipped with various types of sensors detecting the status of passengers sitting on the driving and passenger seats to conduct various functions according to the status. The following systems included in such passenger detection systems have already been in practical use: Advanced Air Bag Systems" that use body-weight sensors embedded within the passenger seats; and "DMS (Driver Monitoring Systems)" that utilize in-vehicle near infrared cameras and steering angle sensors.

This research targets only those passenger detection systems embedded in the passenger cars and commercial vehicles weighing 3.5 tons or less.   However, as for the alcohol detecting systems, this research includes those installed on the large buses and trucks.

◆ Key Findings

■ **Global Market Size of Passenger Detection Systems in 2015 Projected to Rise by 10.5% from Previous Year to Attain 81.942 Billion Yen**

The global passenger detection systems market in 2015, based on the shipment values at manufacturers, is likely to attain 81,942 million yen, up by 10.5% from the previous year. Currently, the global passenger detection systems market is led by the airbag controlling systems known as Advanced Air Bag Systems.

■ **Global Market Size of Passenger Detection Systems Estimated as 262.874 Billion Yen by 2025, Boosted by Automated Driving Systems**

The global passenger detection systems market size, based on the shipment values at manufacturers, is expected to achieve 262,874 million yen by 2025. The CAGR from 2014 to 2025 is likely to be 12.2%, during which the market driver expected to shift from those systems related to air bags to those related to automated driving.

■ **Among Various Passenger Detection Systems, CAGR of Automated Driving Systems from 2014 to 2025 Likely to Attain 21.7%, Market Size to Achieve 138.985 Billion Yen**

Since the vehicles equipped with automated driving systems (level 2 of the vehicle automation) are regarded to be gaining ground by 2020 and beyond, adoption of DMS (driving monitoring systems) is likely to increase more.   CAGR of the automated driving systems from 2014 to 2025 is expected to attain 21.7%.   The global market size of automated driving related passenger detection systems, based on the shipment values at manufacturers, is projected to achieve 138.985 billion yen by 2025.

◆ Report format

■ **Figure & Table 1: Forecast of Global Passenger Detection System Market Size**
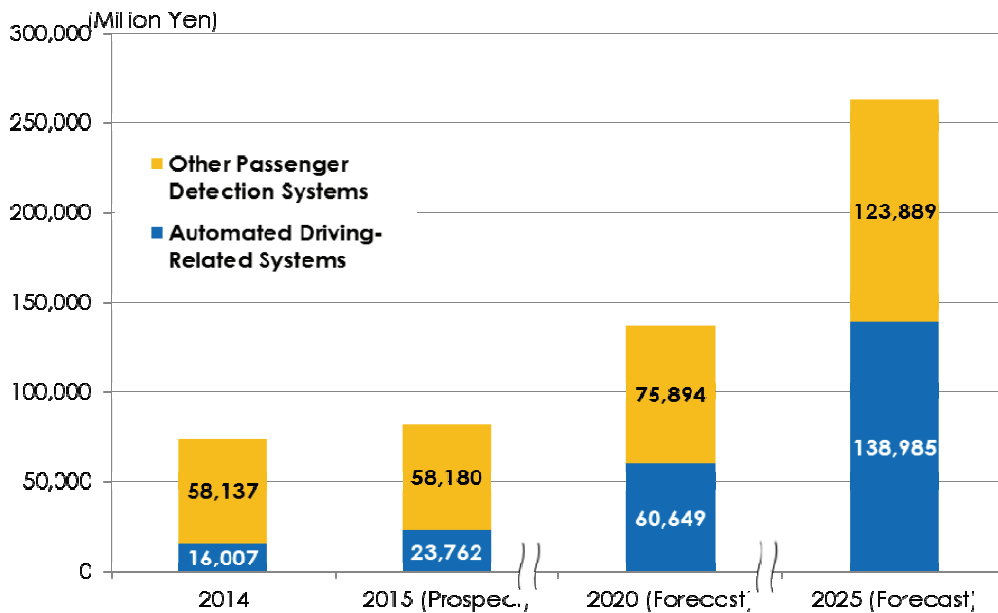
(Million Yen)

	2014	2015 (Prospect)	2020 (Forecast)	2025 (Forecast)
Automated Driving-Related Systems	16,007	23,762	60,649	138,985
Other Passenger Detection Systems	58,137	58,180	75,894	123,889

Estimated by Yano Research Institute

Notes:
1. The market size is based on the shipment values at manufacturers
2. The numeric values of 2014 are actual values and those of 2015 and 2025 are forecast.
3. The passenger detection systems in this research indicate those embedded in the passenger and commercial vehicles weighing 3.5 tons or less. However, as for the alcohol detecting systems, this research includes those installed on the large buses and trucks.
4. "Other Passenger Detection Systems" in the above figure include air-bags controlling and alcohol detection systems, and etc. As for "Automated Driving Related Systems," they include driver monitoring systems, etc.