



## **Bosch's Collision Avoidance System for Motorsport featured at Performance Racing Industry Show in Indianapolis**

Dec. 11, 2014

Technology enhances driver awareness of surroundings, safety on the track

- ▶ The Collision Avoidance System (CAS-M) enhances driver performance by providing drivers with a better understanding of their surroundings, helping them navigate the race track faster and more safely
- ▶ CAS-M utilizes a custom LCD display, long-range radar sensor (LRR3) and high-definition machine-vision camera to provide rear-view radar and visual data to the driver
- ▶ CAS-M has earned two awards in 2014: "Most Innovative Motorsport Product of the Year" from *Race Tech* and "Motorsport Technology of the Year" from *Professional Motorsport World*

**FARMINGTON HILLS, Michigan** – Bosch Motorsport, a division of Bosch Engineering Group, announced that its Collision Avoidance System for Motorsport (CAS-M) will be featured at the Performance Racing Industry Trade Show (PRI) on Dec. 11-13 in Indianapolis, Indiana.

The CAS-M is a driver assistance system that overlays radar information onto rear-camera video in real time for improved situational awareness and safety on the track. The system helps to prevent common causes of collisions and provides drivers with important information, requiring a fraction of the necessary attention when compared with traditional rear-view displays.

Keith Andrews, regional president, Bosch Engineering Group, said, "The two major concerns in racing are speed and safety. CAS-M gives drivers a whole new perspective on the race track – regardless of conditions – and enhances their knowledge of surroundings, ultimately helping them drive faster and more safely."

The unit communicates radar and visual data to the driver through a dashboard-mounted, 7-inch LCD display unit that utilizes Bosch's long-range radar sensor (LRR3), and a high-definition machine-vision camera. Having an aperture angle of up to 30 degrees, the sensor can detect up to 32 objects at a distance of 250 meters. With a quick glance, the driver will know how many cars are following, their distance and closing speed, and whether they are a faster class. Additionally, bright red, yellow and green flashing arrows alert the driver when any car attempts a passing maneuver. Red indicates that a car is approaching quickly; yellow indicates the speeds of the two cars are identical; and green shows that the car is falling back. The LRR3 enables the system to function equally well during the day and night as well as in poor conditions when visibility is normally lost.

The technology has received two major awards this year: "Most Innovative Motorsport Product of the Year" from *Race Tech* and "Motorsport Technology of the Year" from *Professional Motorsport World*.

CAS-M will be displayed at the PRI show at Bosch's booth, #2863, in the Yellow Hall of the Indiana Convention Center.

The PRI show is one of the world's largest racing trade shows, highlighting the latest racing trends and technology for buyers and industry suppliers. More than 1,100 exhibiting companies visit Indianapolis annually to present their developments in racing technology to approximately 48,000 attendees from the industry.

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**About Bosch:**

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*The Bosch Group is a leading global supplier of technology and services. In 2013, its roughly 281,000 associates generated sales of 46.1 billion euros (\$61.2 billion). Its operations are divided into four business sectors: Automotive Technology, Industrial Technology, Consumer Goods, and Energy and Building Technology. The Bosch Group comprises Robert Bosch GmbH and its more than 360 subsidiaries and regional companies in some 50 countries. If its sales and service partners are included, then Bosch is represented in roughly 150 countries.*

*This worldwide development, manufacturing, and sales network is the foundation for further growth. In 2013, Bosch invested some 4.5 billion euros (\$6.0 billion) in research and development and applied for some 5,000 patents worldwide. The Bosch Group's products and services are designed to fascinate, and to improve the quality of life by providing solutions which are both innovative and beneficial. In this way, the company offers technology worldwide that is "Invented for life." Additional information on the global organization is available online at [www.bosch.com](http://www.bosch.com), [www.bosch-press.com](http://www.bosch-press.com), and <http://twitter.com/BoschPresse>.*

*\*Due to a change in accounting policies, 2013 figures can only be compared to a limited extent with 2012 figures. The decision to forego the application of proportionate consolidation affects mainly BSH Bosch und Siemens Hausgeräte GmbH and ZF Lenksysteme GmbH (2013 consolidated sales volume of some \$9.7 billion). Exchange rate: 1 EUR = \$1.32812.*

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