

# Vehicle indoor positioning system and more

**Racelogic showcases three products at Automotive Testing Expo Europe 2019. They are designed to make vehicle testing more accessible and overcome barriers associated with conventional testing methods while improving data accuracy.**

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The company can be found at stand 8240 (Photo: Automotive Testing Expo / Racelogic)

The Vbox indoor positioning system (VIPS) enables testing to be conducted in GNSS-denied environments and offers seamless switching between indoors and outdoors, allowing testing to continue even when no satellites are visible. VIPS offers positional accuracy down to 2 cm, speed accuracy to within  $\pm 0,15$  km/h, and a 100 Hz update rate.

Also on display, is the data-logger Vbox Touch. Featuring a color touchscreen, 10 Hz GNSS receiver, two CAN interfaces, and the ability to run multiple applications on the same hardware, Vbox Touch is versatile. Applications are written in Python script enabling users to create their own, including custom CAN-based applications to solve specific testing needs.

The third product is the Vbox 3iS, a GNSS / inertial sensor designed to be used with an existing control system or data-logger. Vbox 3iS can fill GNSS gaps for prolonged periods of time and provides accurate acceleration, speed, position, and attitude data. Featuring a 100 Hz RTK GNSS receiver, Vbox 3iS also provides a solution for testing the latest ADAS (advanced driver assistance systems) and autonomous vehicle systems.

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