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Yashu Systems : Vehicle Inertia Monitor supports Dennis-Eagle Prototype Hybrid EV Energy Research Study



The [Yashu Systems Vehicle Inertia Monitor \(VIM\)](#) is an advanced vehicle inertial measurement and vibration monitoring sensor with integrated J1939 CAN bus interface. The VIM formulates dynamic vehicle pitch and roll estimates in real time. A more common description for this device is termed a dynamic inclinometer.

The VIM implements a proprietary Extended Kalman Filter (EKF) model with adaptive covariance using an onboard high speed digital signal processor (DSP). Integrated high resolution 3D MEMS accelerometer and gyroscope information is fused with existing vehicle onboard sensor parameters to achieve unsurpassed consistency, repeatability and accuracy of attitude estimates.

[Yashu VIM vs. Competitor Device - Test Data](#)

Reference the above exemplary road gradient pitch data logged by the Yashu VIM on a moving Class 8 vehicle compared to a competing device mounted on the same vehicle. The test data shows the height change along an 11 kilometer loop. The identical loop was performed four times from the same starting position in order to assess the consistency of the results from each device.

George Avery, Engineer at [Dennis-Eagle](#), stated "The VIM is performing very consistently compared [to] the competitor device". John Yaron, CEO of [Yashu Systems](#), has stated "We are happy to see Dennis-Eagle using the superior performance of the VIM to evaluate and optimize their hybrid EV power research and development".

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