Lane Departure Warning (LDWS) and Park Assist Testing

Lane Departure Warning System (LDWS) Testing

Lane Departure Warning (LDWS) and Lane Keep Assist Systems are designed to warn a driver when their vehicle begins to unintendedly move out of its lane.

These systems are designed to minimize accidents by addressing the main causes of collisions: driver error, distractions and drowsiness.

In order to introduce an LDWS, manufacturers' must conform to either NHTSA or ISO regulations. The VBOX 3i package allows ADAS developers to easily verify the effectiveness of their product by providing ±2 cm positional accuracy.

Further details on ADAS LDWS Testing can be found on our website.

Park Assist Testing

Park Assist Systems are an automated parking aid which utilises radar technology, cameras and sensors. It allows the car to do most of the work itself when parking into a parking space located either within a car park or at the side of the road.

The VBOX 3i package is suitable for testing to ISO regulation 204/WG14 ISO 16787 'Assisted Parking Systems (APS) – parking with reference to other parked vehicles', providing ±2 cm positional accuracy.

https://racelogic.support/01VBOX_Automotive/ADAS_Applications/ADAS_Knowledge_Base/
General Information

- ADAS CAN Outputs - Lane Departure Warning
- Curved Lane Testing Overview
- LDWS Process Summary
- LDWS Video
- Parking Bay Testing Overview - Complex Shapes
- Parking Bay Testing Overview - Straight Lines
- Straight Lane Testing Overview
- VBOX Test Suite Park Assist Plugin

- Hardware Connections

  - Hardware Configuration - Lane Departure Warning/ Park Assist (CAN Hub, NTRIP and IMU)
  - Hardware Configuration - Lane Departure Warning/ Park Assist (CAN Hub, Static Base and IMU)
  - Hardware Configuration - Lane Departure Warning/ Park Assist (CAN Hub and NTRIP)
  - Hardware Configuration - Lane Departure Warning/ Park Assist (CAN Hub and Static Base)
  - Hardware Configuration - Lane Departure Warning/ Park Assist (NTRIP)
  - Hardware Configuration - Lane Departure Warning/ Park Assist (NTRIP and IMU)
  - Hardware Configuration - Lane Departure Warning/ Park Assist (Static Base)
  - Hardware Configuration - Lane Departure Warning/ Park Assist (Static Base and IMU)
• **VBOX Configuration**

- Smoothing - Lane Departure Warning
- VBOX Configuration - Lane Departure Warning (NTRIP)
- VBOX Configuration - Lane Departure Warning (Static Base Station)
- VBOX Configuration - Park Assist (NTRIP)
- VBOX Configuration - Park Assist (Static Base Station)

• **Setting Corner Positions and Lines**

- Corner Positions Overview
- Lane Survey - Curved Line
- Lane Survey - Straight Line
- Loading a Lane
- Loading Corner Positions
- Measuring Park Assist Vehicle Points
- Parking Bay Survey - Complex Shapes
- Parking Bay Survey - Straight Lines
- Saving Corner Positions
- Setting Automatic Corner Positions
- Setting Manual Corner Positions

[Link to VBOX Configuration and Setting Corner Positions and Lines](https://racelogic.support/01VBOX_Automotive/ADAS_Applications/ADAS_Knowledge_Base/)
• Base Station Configuration

  ◦ Static Base Station Configuration

• Test Videos

  ◦ Video Overview of LDWS Testing using VBOX