MILLBROOK

Advanced Driver Assistance Systems Testing

ADAS features help to increase vehicle safety by assisting drivers in maintaining their desired course, warning of any potential collisions, and interacting to avoid those collisions if the driver has not taken action.

ADAS & autonomous vehicle testing instrumentation and soft targets:

- OxTS RT3003 inertial & navigational measurements with 1cm positional accuracy when linked to OxTS RTK base station
- Time aligned and fully synchronised data acquisition hardware and software
- ABD Torus steering robot with torque measuring and full path following capabilities
- ABD combined brake & accelerator robot
- Moshon EuroNCAP Vehicle Target (EVT) with towing rig

- ABD Guided Soft Target (GST) and DRI Global Vehicle Target
- ABD Launchpad
- ABD SPT pedestrian and cyclist motion rig
  - Dual belt system for crossing scenarios
  - Single belt system for longitudinal scenarios
- 4a articulating adult and child pedestrian dummies
- 4a bicycle and cyclist dummy
- Full synchronisation between test vehicle and targets
- Scope for additional sensors and cameras to record vehicle warnings and other parameters

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Test, development and certification activities can be conducted at Millbrook using high precision instrumentation and soft targets that allow contact without damage.

Test capabilities:

- Autonomous Emergency Braking (AEB)
  - Static and mobile vehicle to vehicle shunt collisions
  - Pedestrian and cyclist crossing in front of a vehicle
  - Vehicle turning across the path of pedestrians and cyclists
- Land Support Systems
  - Lane Departure Warning
  - Lane Keep Assist
  - Emergency Lane Keep
- Active Cruise Control
- Blind Spot Detection
- Autonomous Parking
- Customer Specific Scenarios