

A real-vehicle sized chassis with Level-4 AD sensors and closed-loop control

**Key features:**

- Full-vehicle size: 2.7 m x 1.5 m
  - Similar wheelbase and wheeltrack sizes as popular vehicles (side-by-side views with a Toyota Camry are shown below)
- By-wire control
- Neousys Industrial PC (IPC) with NVIDIA RTX 2080 Ti
- Human-Machine Interface (HMI) screen
- Remote controller

**Sensor configurations:**

- Velodyne HDL-64 LiDAR
- Ouster OS-1 32-line LiDAR
- Multiple Velodyne VLP-16 LiDARs
- Multiple short-range cameras (6mm lens)
- Long-range camera (25mm lens)
- Two continental ARS408-21 mmWave RADARs for front and back mounting
- Ultrasonic sensor suite with 12 sensing probes (40 kHz)
- Dual-antennas GPS with RTK & three-axis high-precision IMU for centimeter-level localization

