

Mobile road side unit

VTT has a mobile road side unit equipment, which can be installed in 20 minutes. This equipment can be used for testing road-side sensors and V2X technology. The following technology is installed:

- 2 computer units
- Road state monitoring unit
- Software for gathering information from sensor units
- ITS G5 and cellular communication (LTE/5G) units
- MEC server



Laboratory

A laboratory environment with servers, driving simulator, and software development tools:

- 10 TB hard-disk capacity for vehicle fleet data management
- ITS G5 station for connecting to vehicle fleets
- 10 computer units with latest software development tools
- Driver monitoring facility for pre-testing the equipment
- SeeingMachine FaceLab driver monitoring system



DemoKit – Sensor Kit

Special sensor verification and development tool with latest automated driving sensing tools:

- Software acquiring and storing data
- Continental SRR 20X Short range radar (150°/12°, 50 m)
- FLIR PathFinder thermal camera 320x240 8-14 μm (24°/18°, range ~30 m)
- 3 LiDARs: Velodyne PUCK-16, Ibeo Lux, Hokuyo



The research topics:

- Automated driving and ADAS
- In-vehicle and roadside environmental perception
- Sensor data fusion
- Driver monitoring technologies
- V2X communication technologies
- IoT for vehicles
- Big Data in transport
- Technical validation and impact assessment



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