



# RanLOS



## RanLOS OTA Test Equipment

Upgrade your existing EMC-chamber for radiation pattern and throughput measurements

### RanLOS OTA test equipment

The Random Line-of-Sight test equipment is used for Over-the-Air (OTA) testing of wireless performance of vehicles and wireless equipment.

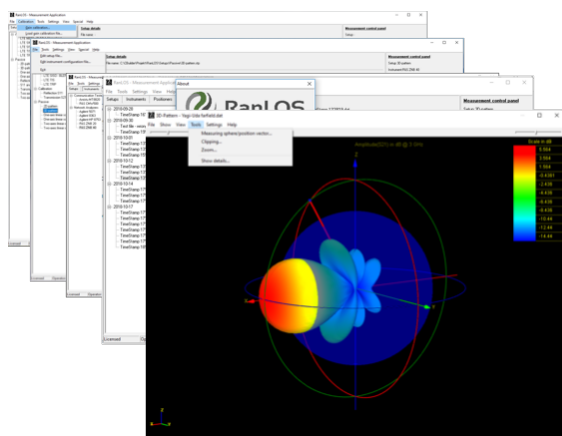
The equipment can be used in two different modes, passive and active. In the passive mode, a standard network analyzer can be used to measure antenna radiation pattern. When using the RanLOS equipment in the active mode, a communication tester is used to measure parameters such as bit error rate and data throughput.

The system supports a variety of measurement setup configurations and can be used during early phases in design projects.

### The company

RanLOS AB is a spin-off company from Chalmers University of Technology and was established in 2016. The company develops measurement technologies for testing and verifying antennas and systems used in connected vehicles and other wireless devices. The foundation is based on research conducted by Professor Per-Simon Kildal and his research team at Chalmers.

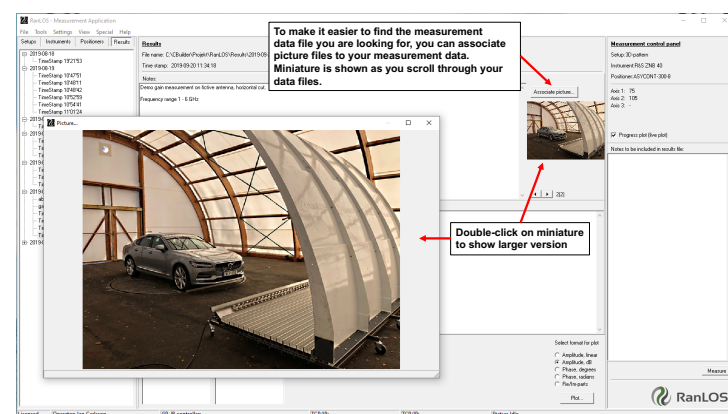
### RanLOS measurement software



RanLOS software interface

The RanLOS software is designed to control the measurements, perform calibration routines, gather test data and to present the results in a preferred way. The software is used for all RanLOS test-equipment and is ready to be used with a number of instruments and tools, such as vector network analyzers, communication testers and positioners, see list below. Drivers for other instruments and positioners can be ordered.

A number of features are supported, and the operator is guided through the set-up via easy-to-use instructions.



Easy-to-use instructions

### The test equipment

#### Network Vector Analyzers:

- HP/Agilent/Keysight E5071C
- HP/Agilent/Keysight E8363B
- HP/Agilent/Keysight 8753ES
- Rohde & Schwarz ZNB20
- Rohde & Schwarz ZNB40
- Anritsu MS46524B

#### Communication testers:

- Rohde & Schwarz CMW500

#### Positioners:

- RanLOS one-axis
- RanLOS two-axes xy-positioner (sub 6 GHz)
- RanLOS two-axes xy-positioner (28 GHz)
- RanLOS two-axes rotating radiation pattern positioner
- RanLOS three-axes positioner
- ASYSOL ASYCONT 300-8 (general positioner controller)