



ROADSCANNER

*mobile contactless scanning
and measuring of road profiles*



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Device for mobile contactless scanning and measuring of road profiles with high precision. Typical system outputs are international roughness index (IRI), rut detection, rut quantification, road quality assessment. Results are calculated during the measurement and are available for operator immediately on touch panel. Point cloud is stored as well for further analysis.

Suitable for checkup of controlled road sections, road quality control, mapping of road network.

Parameters

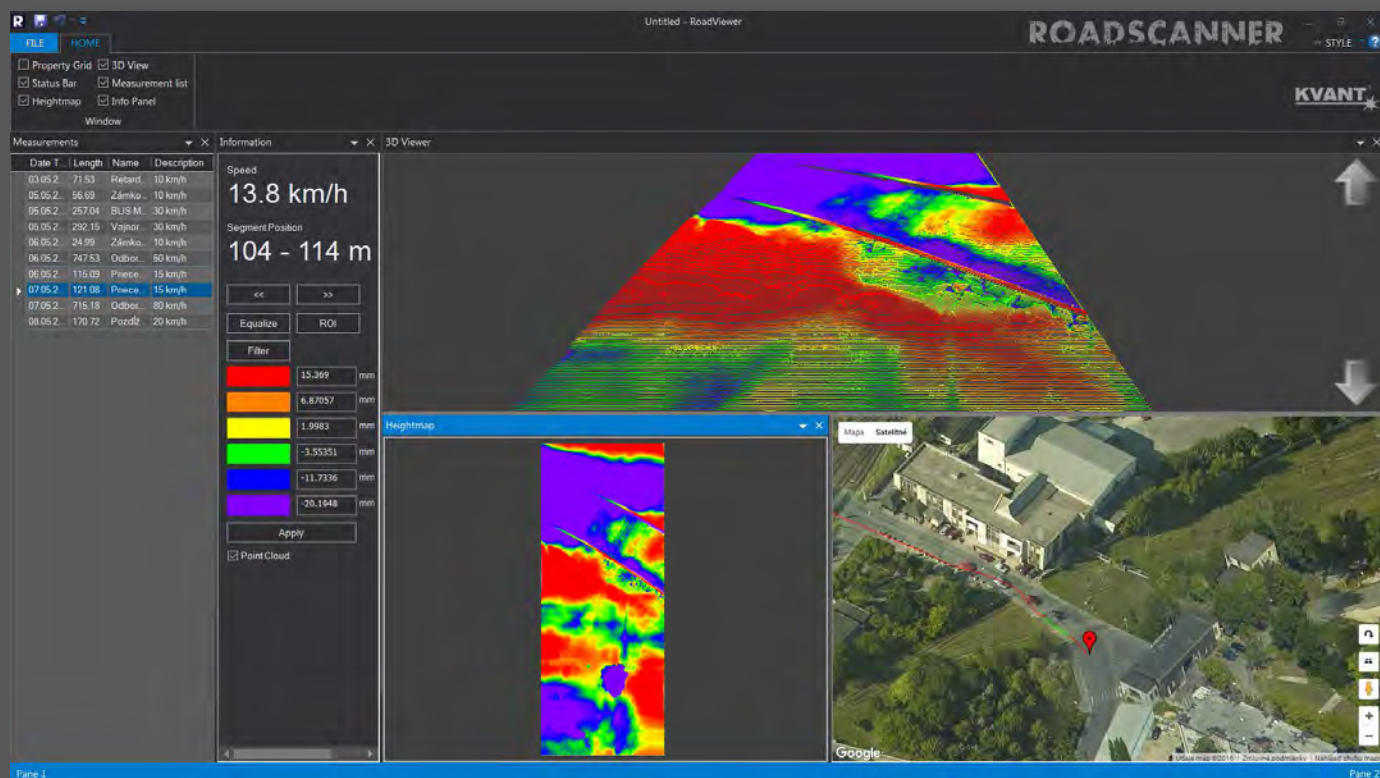
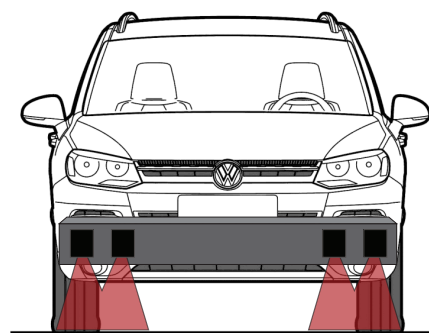
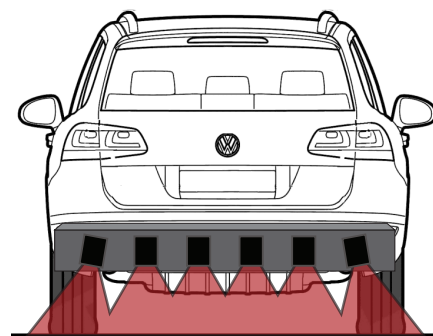
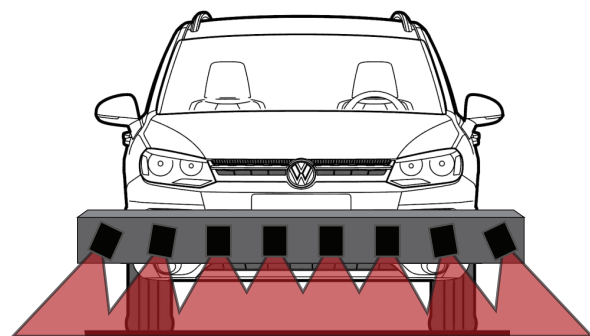
- lasers for rut detection and profile measurement:
- minimum 2 (recommended 8)
- resolution axis X, Y less than 1mm
- resolution axis Z less than 0,5mm
- sampling rate 700-5000 profiles/s
- number of 3D point on one profile up to 9600
- class 3B laser
- measurement width 4,2m
- depth of view 400mm
- measurement speed up to 100km/h
- number of accelerometers 3
- number of gyroscopes 2
- device can be mounted on any car, device is detachable





Software

- raw data of scanned profiles available in 3D
- international roughness index calculation
- operator login, log of all activities
- multi-language user interface: slovak, czech, english, german
- export in various formats e.g. ".stl", ".xyz", ".dat"
- client-server architecture
- MSSQL Server compatible
- record of every scan contains timestamp, route, operator name
- point cloud of data, results of various parameters
- module for viewing profiles, records, 3D visualizer

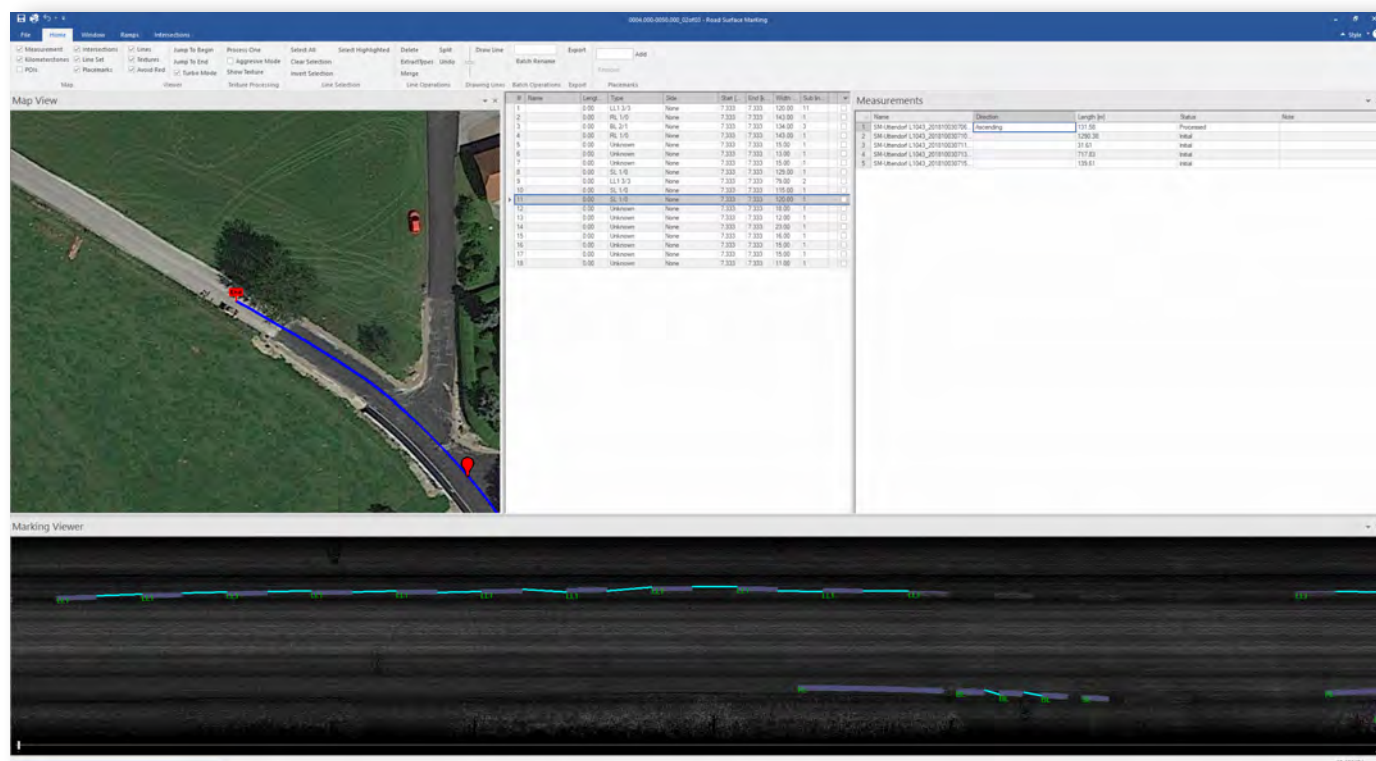
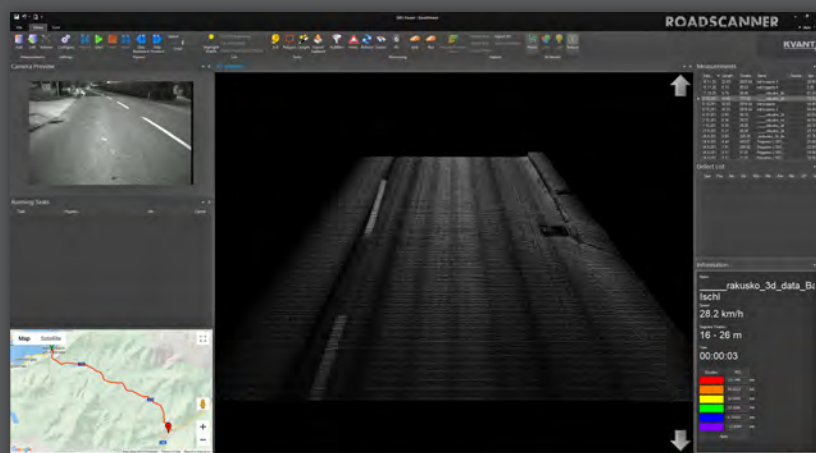




Examples of scanned road markings

LINESCAN

Mobile solution for tracking and checking road markings. The LineScan device scans the road surface while driving with a measuring vehicle without any restrictions in full traffic. It is aimed at distinguishing all types of road marking. Thanks to passporting function our solution can categorise, count and localise the road marking and directional marking. The measured data can be processed into reports for the customer. All measured data provide the type, location with GPS coordinates, length, width of the lane, quality ratio and other customer defined parameters. GPS coordinates allow customer to easily and accurately determine where to place or perform new road marking.



Road Surface Marking - data processing software application



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