



# VIATEST RPS

ROAD PROFILE SCANNER

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### VEHICLE FOR ROAD MONITORING

VIATEST RPS is a dedicated road monitoring service that provides automated information on the geometry and surface characteristics of road surfaces. The vehicle belongs to the category of high-performance detection systems. It is in fact a tool that can detect the profile of a road surface in order to quantify the state of irregularity and the general condition.

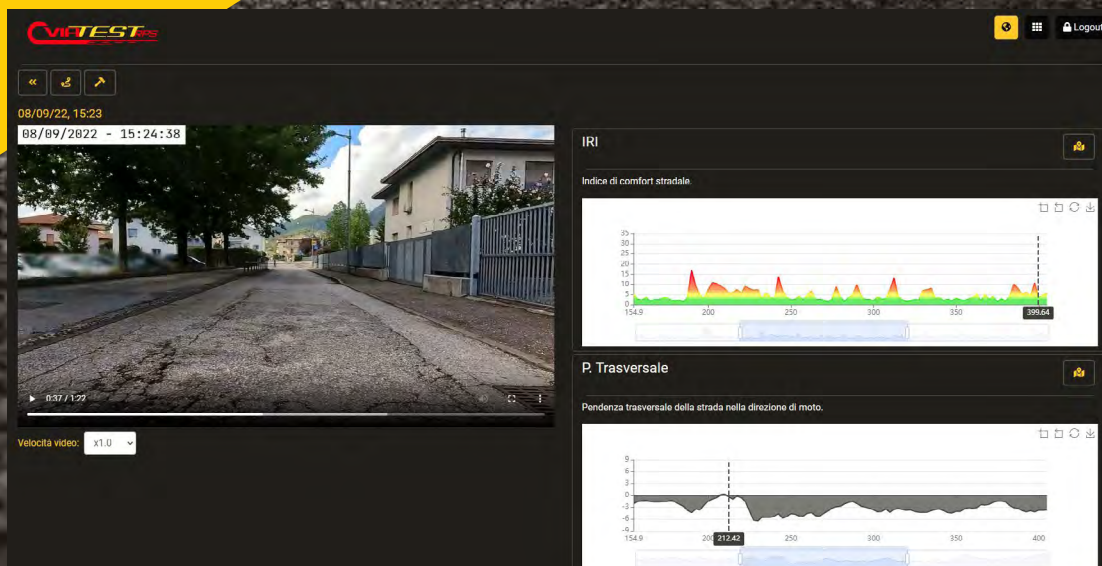
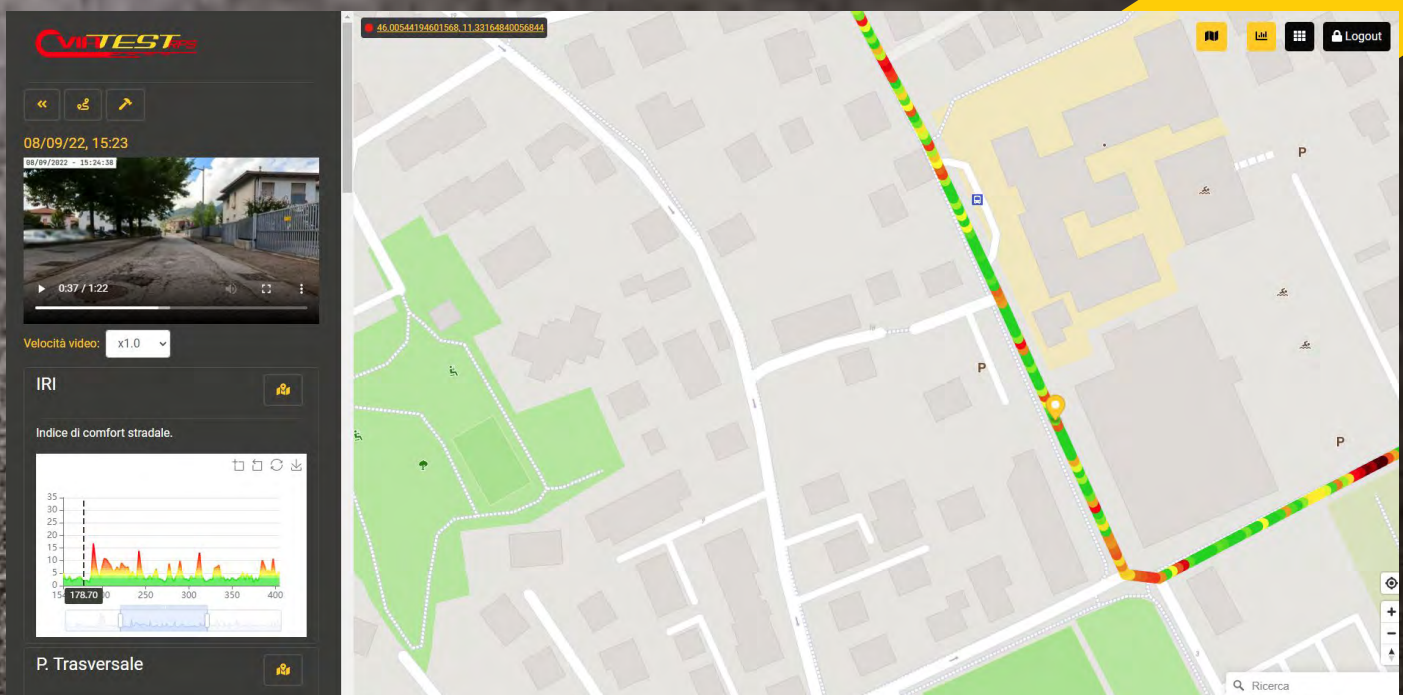
Designed for public administrations, **VIATEST RPS can be used in urban and extra-urban areas, without the intervention of specialized personnel.** Simply follow the instructions in the user manual. The data acquired can be accessed via the Web, where an infrastructure map with various relevant information is available. **The information provided is useful both for routine maintenance and for any work aimed at increasing road safety by reducing hazardous situations.**

The vehicle is equipped with a front bar on the inside, so as to avoid increased overall dimensions. **Inside the bar are five laser triangulation sensors and an inertial navigation system (IMU) with an integrated GNSS (GNSS/INS) system for georeferencing.** The vehicle is also equipped with an odometer, a camera, a computer for data processing and a tablet for interfacing with the system.



# THE STRENGTHS OF VIATEST RPS

- fully automated system;
- no specialised personnel required;
- can be used in urban and extra-urban areas;
- no interruption of traffic necessary;
- no devices on the outside;
- provides solutions to improve road geometry;
- data available via the Web;
- complies with standards ASTM E 950-98 and ASTM E 1926-98.



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# DATA PROVIDED

FROM VIATEST RPS

- IRI (INTERNATIONAL ROUGHNESS INDEX);
- VIDEO OF THE ROAD;
- CROSS SLOPE
- LONGITUDINAL SLOPE
- ALTITUDE;
- LENGTH OF STRAIGHT ROAD STRETCHES;
- PROPERTY OF CURVES (RADIUS OF CURVATURE, ANGLE AT CENTRE, START AND END);
- INFORMATION ON GEOMETRICALLY CRITICAL TRACE POINTS.

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