

MULTIFUNCTION DEVICE : HIGH PERFORMANCE ROAD DATA ACQUISITION

Road key indicator measured with high performance



Description

The Multifunction Device is an indispensable tool for efficiently and on a large scale collecting key indicators that should enable road network managers to optimize the management of their infrastructure. On existing networks, as well as on new sections, the data provided will be invaluable to managers in their decision-making regarding the validation of works and maintenance policies.

The system provided is modular and scalable. He is mounted on different vehicles, with different types of sensors, with more or less integration on the bodywork, depending on the needs and context

These systems are designed to measure at the speed of

traffic within the flow of circulation. Typically, acquisition is carried out with a driver and an operator overseeing and piloting the smooth execution of measurements via a simple and intuitive interface.





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Features

POSSIBLES FONCTIONS	
Roughness	IRI, NBO (waveband analysis), DSP (spectral density), SW, CP (flatness coefficient).
Transversal profile	Rutting
Pavement texture	MPD, ETD
Automated pavement crack detection	Cracks, potholes, bleeding, raveling
Geommetrical	Cant, slope, radius of curvature in plan
RoW camera	A visual record of the road corridor for right-of-way
GPR - Groud Pnetrating Radar	Non-destructive solution to mapping the subsurface
LIDAR (Light Detection And Ranging)	Point cloud, precision measurment of roadsides
Distance measurement	Distance travelled, system synchronisation
GPS positioning system	Customizable high performance inertial navigation system depending on positioning accuracy requirement



Road diagram



Rendering in GIS or Google Earth

Deliverables



Point cloud



Exemple of measurement under structures