



## LASER ROAD SURFACE PROFILER

The Laser based Road Surface Profilometer system offered by Intellitest uses a combined 6 axis low noise accelerometer and gyro system to compensate for vehicle pitch and roll. This leads to lower drift in the assessment of vehicle's motion relative to the road and therefore a more accurate laser compensation calculation giving more repeatable results between runs.

### INTELLITEST'S LASER ROAD SURFACE PROFILER FULFILL ALL THE MAJOR STANDARDS

► ASTM E950

► ASTM E1926

► World Bank Class 1 Profiler

## Specifications

Measuring Technique	: High Speed Laser Optical triangulation
No. of Lasers	: As per User requirement from 01 to 41 Laser
Sensors / accessories Optionally user may add	: Right of Way Cameras, 360° Camera, IMU, GPS, DGPS and Non Contact type DMI, Lidar, Laser Crack Measurement Systems (LCMS), Pavement Surface Temperature etc.
Keypad Entry	: User may mark the road defect and inventory during survey
Vehicle Speed	: Test can be performed from 20 to 140 km / h vehicle speed
Measurement Parameter	: Roughness, Rutting, Texture, Longitudinal profile, transverse profile, depend on laser configuration
Laser Class	: Laser Class 3B according to EN 60825-1:2014 and 21 CFR 1040.10 and 1040.11
Laser Sampling Frequency	: 32 kHz
Laser Measuring Range	: 200 mm
System Power Supply	: 10 ... 36 VDC
Display Type	: i-Pad with wireless connection to control unit
Control Unit	: Core xi5 / 8 GB / 256 GB drive and touch screen
Memory	: For more than 15000 km depend on accessories
DMI Type	: Optical Encoder to be fixed on vehicle wheel
Distance Resolution	: 0.001 km
Distance Accuracy	: Better than $\pm 1.0\%$
Elevation Resolution	: 0.01 mm
Elevation Accuracy	: $\pm 0.1$ mm
IRI Resolution	: 0.01 IRI
IRI Accuracy	: $\pm 0.1$ IRI
GPS Accuracy	: Better than 5 meters
Operating Temperature	: 0 to 40 °C
Storage Temperature	: 0 to 60 °C
Data Export	: USB Interface
Export Data Format	: MS-Excel
Protection class	: IP67
Packed Dimensions	: 56 X 43 X 24 cm approx
Packed Weight	: Less than 10 kg
Warranty	: 1 Year (Optional Extended Warranty)

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