ROAD SURFACE WALKING PROFILER TO ASTM E2133

The Walking Profiler (WP) produces outputs from pavement profile, providing International Roughness Index (IRI), MPD texture (as an optional parameter) and distance.
Differing from previous generations, the WP unit utilises a triaxial accelerometer mounted on a rolling platform, to enable measurement of longitudinal profile. This platform is separate to the carriage, which means it is less susceptible to operator input.

Data can be collected at variable speeds up to 5km/hr and is controlled by an Android tablet. Realtime results are displayed on the screen, allowing for on-site decision making.

- Automatic Pavement Roughness Evaluation System (Walking Profilometer) to ASTM E 2133
- Measurable Roughness index IRI (International Roughness Index)
- Standard Deviation of Roughness (S)
- Ride Quality Index (RQI)
- Sensor Measured Texture Depth (SMTD)
- 2 Output result Various roughness indexes
- Road profile curve and height (height difference) data of each sampling point
- 3 Operating characteristics
- Operating speed Normal walking speed (1m/s)
- Calculate the length of the road section Any length above 5m
- System power supply Li-battery
- On-site output Direct analysis on site and result printing
- Operating temperature -40°c ~ 80°c
- Correlation of flatness reference results (reference level)
- Relative coefficient R2> 0.95
- Resolution of measurable profile height difference <0.05 mm
- Distance detection resolution <12.5 cm.
- Supplied complete with 10.1" Tablet.
- Data Acquisition Software
- Portable Printer
- Carry Case