LASER SURFACE PROFILOMETER

Simplifying Pavement Testing

Brought to you by:

PaveTesting
FOR ALL YOUR PAVEMENT TESTING NEEDS

STANLAY TM
The PaveProf system of 3D laser sensors is used in the transportation industry for such application as inspection of highway and runway profiling. PaveProf is capable of real time continuous measurements of longitudinal and transverse profile, rut depth and macro texture. These values can be used to calculate ride comfort, surface friction and surface noise generation.

PaveProf is used during the construction phases to ensure standard quality levels are met and during the lifetime of the pavement to determine maintenance levels for repair and remedial action. This results in improved highway conditions and ultimately reducing accidents due to poor surface conditions.

**Features**
- Full Speed Highway profiler, with simple installation
- Portable, lightweight or Full Scale Profilometers available
- True ASTM Class 1 profiling system at all collection speeds
- Real time graphical display with instant RN, IRI, MPD, SMPT calculations
- Multiple Laser supplier integration
- Oblique sensors with 1000 mm measuring range for full transverse highway measuring
- High precision and accuracy
- Simple one touch operation
- Testing speed range from 7 to 115 kmph
- System ready for immediate delivery (stock inventory of over 100 lasers)
- Optional GPS integration, with realtime display of position

**Laser Design**

PaveTesting understands that our customers have many different measuring and budget requirements, as such we have designed a control system to accept the major Laser manufactures. We have also developed in partnership with a major global supplier of laser measuring sensors, a specific range to meet the demands of international highway testing. The new range includes the following additional features:
- increased laser illumination
- ambient light shielding
- highest sample rate available – 56kHz
- increased environmental protection to IP68 standard
PaveProf Sub Systems

- PaveRough – Highway Roughness Measurement
- PaveTex – Highway Texture Measuring
- PaveRut – Highway Rut Measuring
- PaveGeo – For measurement of Highway Geometry

Applications:

New Pavement

Typically using a single or dual laser system installed on an ATV or portable device, PaveRough will measure the road surface for ride quality smoothness during the construction phase. RN and IRI values can quickly and easily be measured and displayed so immediate repair action can be performed if required.

In Service

When full highway testing is required that will not affect traffic flow, the PaveProf range is your solution. Installed on to a highway vehicle and capable of measuring at speeds of up to 115kmph (70mph) the PaveRough will measure for longitudinal profile degradation and surface roughness used to calculate RN and IRI. PaveTex will measure surface texture and surface cracking for MPD and SMTD measurements.

If transverse highway data is required, adding more sensors is not a problem for PaveProf. The control system will handle up to 21. PaveRut is designed for wheel path rutting measuring and using the extra long range of the oblique laser PaveGeo sensors will measure transverse surface profile data up to 3.5 meters wide.

Measurement Standards

At PaveTesting we have made sure that we cover ALL international standards in our data collecting, including but not limited to the following:

- International Roughness Index (IRI),
- Profilograph Index (PI),
- Ride Quality Index (RQI),
- Half Car Ride Index (HRI),
- Ride Number, (RN)
- Longitudinal Profile
- Transverse Profile
- MPD
- SMPD
- STD – Volumetric Measurement
Company

PaveTesting Ltd. has been producing high quality engineering equipment within the United Kingdom for over 10 years. It has built a reputation of outstanding support and customer satisfaction with its strong technical and after sales support teams.

PaveTesting Ltd has grown by continually developing new products and services to meet customer demands and international standards and regulations. Its range of friction, deflection and profile measuring machines are considered to be the best in the industry.

To learn more about PaveTesting and its products visit us on our web site at: www.pavetesting.com

Other Products

As well as being a leader in surface profile measurements, PaveTesting Ltd also has a range of Friction and Deflection measuring systems.

Falling Weight Deflectometers
- Portable
- Trailer Mounted
- Vehicle Mounted

Surface Friction Measuring
- Portable
- Trailer Mounted
- Vehicle Mounted

Contact PaveTesting Ltd for more information.

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