Complete
Instrumentation Solutions

TM2 Texture Measurement

Portable, high-resolution macrotexture measurements that transition seamlessly from lab to field.
Pavement macrotexture is a key element of functional pavement performance quality and accurate texture measurement is essential for understanding surface and maintaining safe, high-performing road networks.

This Texture meter system is the result of extensive research and development linking surface texture traditionally measured using the sand patch test with high-speed laser texture measurement commonly used in pavement condition assessment. As noted in NCHRP Report 964: Protocols for Network-Level Macrotexture Measurement, which provides pavement engineers and other practitioners with recommended protocols for macrotexture test measures, the TM2 serves as an important cross-link between precise measurements taken in labs and macrotexture data collected on in-service roads to support operational and strategic decision-making.

Practical Applications

- Texture compliance checks for newly surfaced roads
- Monitoring wear or polishing over time
- Verifying surface safety at problem locations
- Supplementing skid resistance surveys
- Replacing sand patch tests with more robust digital data

Key Capabilities

- Accommodates multiple surface types: 100mm transverse profile measurement at 45 or 90deg angles
- Walking-speed operation: data collection at variable speeds up to 6mph
- Precision location: GPS, distance tracking, and 3D mapping to pinpoint and analyse focus areas
- Easy-to-use: lightweight, touch panel controlled with live data preview
- Field-ready: rechargeable Li-ion battery for up to 10 hours of continuous operation

Performance & Data Outputs

- Configurable laser sampling frequency (1–5mm)
- User-selected reporting units (RMS, SMTD, and MPD)
- Local storage and USB data export-enabled
- AG:AM/T014/ISO 13473 certified
- Validation check mat included, optional 3D surface profile mapping