

 **QUAKELOGIC**

QL-RoadScan Trailer

MOUNTED FALLING WEIGHT DEFLECTOMETER SYSTEM



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- The QL-RoadScan is a high-performance trailer-mounted Falling Weight Deflectometer (FWD) system engineered for pavement structural evaluation, roadway deflection analysis, and transportation infrastructure testing applications. The system utilizes a programmable dynamic impulse loading mechanism with software-controlled drop height adjustment to simulate real-world wheel loading conditions in accordance with ASTM D4694-09 and AASHTO methodologies. Equipped with a 120 kN loading system, 9 high-precision geophones, integrated DMI distance measurement, camera-assisted field operation, and advanced data acquisition software, the QL-RoadScan provides accurate pavement deflection basin analysis for highways, airport pavements, and civil engineering applications. The fully integrated trailer-mounted platform is factory calibrated and designed for mobile field deployment, automated testing, and compatibility with AASHTO R32-20 calibration procedures.



Technical Specifications:

- Trailer-mounted fully integrated Falling Weight Deflectometer (FWD) system
- Designed for pavement structural evaluation and roadway deflection analysis
- Compliant with ASTM D4694-09 testing methodology
- Calibration architecture compatible with AASHTO R32-20 procedures
- Maximum dynamic impact load capacity: 120 kN
- Software-programmable drop height adjustment for variable impact loading
- Optional additional loading weights available
- Circular loading plate diameter: 300 mm
- High-precision pavement deflection basin measurement system
- Integrated 9-channel geophone sensor array
- High-accuracy load cell for impact force measurement
- Real-time load and deflection response acquisition
- Advanced DAQ (Data Acquisition) and analysis software included
- Automated testing sequence and programmable test setup capability
- Integrated DMI (Distance Measurement Instrument) for stationing and distance tracking



Technical Specifications:



- Integrated camera system for field monitoring and test documentation
- Real-time graphical test visualization and recording
- Data storage and export capability for engineering analysis
- Portable tow-vehicle interface with transferable field components
- Factory calibrated prior to delivery
- Compatible with field calibration and verification procedures
- WinFWDCal-compatible data workflow support
- Designed for highway, airport, and transportation infrastructure testing
- English-language software interface and documentation included
- Standard warranty included with optional extended support coverage
- Spare parts and technical support available
- Delivered fully operational and field-ready
- On-site commissioning and operator familiarization support available upon delivery

Advanced Pavement Deflection Analysis & Roadway Testing Solutions

Corporate Headquarters

QUAKELOGIC INC.
2008 Opportunity Dr. Suite 130
Roseville, CA 95678, USA

Executive Support Line

+1 (916) 899-0391

Direct support for falling weight deflectometer systems, pavement deflection analysis, and roadway testing applications.

Available Monday - Friday, 9 AM - 5 PM PST

Strategic Inquiries

sales@quakelogic.net

For pavement structural evaluation systems, roadway deflection analysis solutions, and transportation infrastructure testing applications.

Our Commitment to Advanced Material Testing Solutions

High-Precision Deflection Analysis

Delivering accurate and repeatable pavement deflection measurements for highways, airport pavements, and transportation infrastructure applications.

Programmable Dynamic Loading Performance

Providing stable software-controlled dynamic impulse loading with ASTM-compliant testing methodology for reliable field operation.

Dedicated Field Support

Ensuring reliable field operation with technical support, calibration assistance, operator familiarization, and commissioning services for roadway testing environments.

Scan to Explore Pavement Testing & Deflection Analysis Solutions



Explore Pavement Deflection Analysis and Roadway Testing Applications

Discover how QL-RoadScan enhances pavement evaluation accuracy, roadway deflection analysis, and transportation infrastructure testing performance.

www.quakelogic.net