



**The World Leader in
Subsurface Imaging™**

RoadScan



**Complete GPR
System for Road
Inspection and
Analysis**



The affordable, easy-to-use RoadScan™ system provides users with an effective tool for quickly determining pavement layer thickness with data densities not obtainable by other labor-intensive methods.

RoadScan data is acquired at highway speeds, which eliminates the need for lane closures, and provides a safer working environment.

Typical uses include:

- Verifying new asphalt thickness
- Measurement of available asphalt prior to milling operations
- Base and sub-base evaluations.
- The system is also used to evaluate the performance of geo-textiles and to assess railroad track substructure

RoadScan Benefits

- Affordable and easy to use
- Data acquired at highway speeds
- Lane closures not required - safer working environment
- Quickly determine pavement layer thickness
- Provides data densities not obtainable by other methods
- FCC Certified
- Built with pride in the USA

Multi-Channel Data Collection

Multi-channel data collection allows two antennas to be used simultaneously.

- Integrated data collection and post-processing for *quick results*
- Controlled by a ruggedized notebook computer which may be mounted separately from GPR control unit



SIR-20 shown with computer mounted in the front of vehicle and GPR control unit mounted in the back.

Wheel-Mounted Distance Measuring Instrument

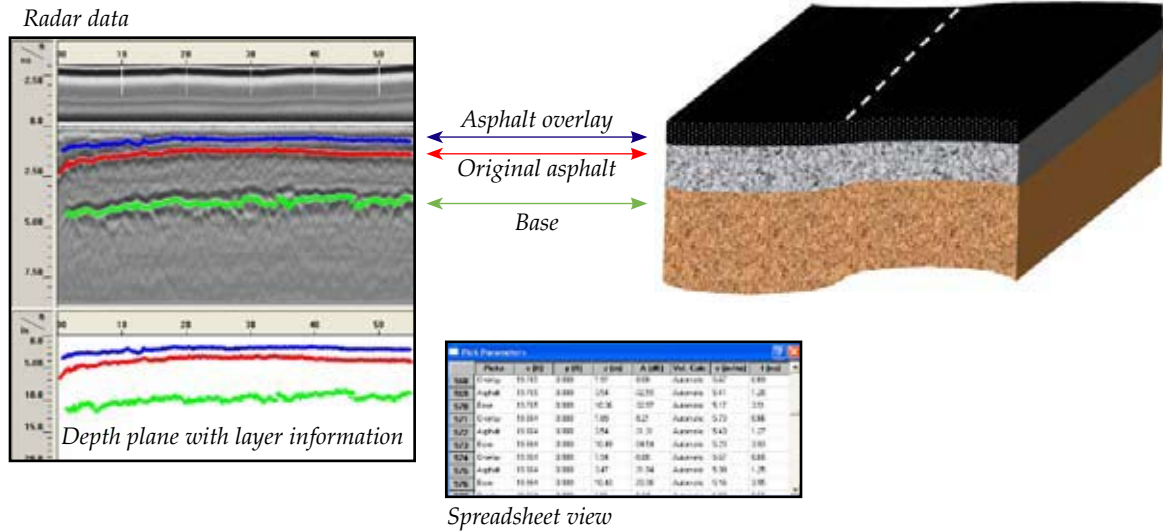


- Allows data to be acquired at user-defined intervals
- Flexible design adapts to multiple vehicles

Collect Pavement Data at Highway Speeds

GSSI's Road Assessment Module Provides:

- Unique calibration feature applies calibration for each individual scan location, eliminating the requirement to enter sporadic core data for calibration
- Automatic layer picking with powerful and flexible editing capabilities
- Convenient spreadsheet view of layer data
- ASCII output files for simple integration with spreadsheets, pavement management databases and other software programs



Optional GPS Integration

The RoadScan system allows GPS information to be collected and stored with GPR data.

RoadScan System Includes:

- SIR-20 dual channel data collection system
- Wheel-mounted Distance Measuring Instrument
- Air-launched horn antenna and cable
- Universal horn antenna vehicle mounting kit
- RADAN Software
- Road Structure Assessment Module
- Training (at GSSI)



FWD and GPR Integrated System

FWD manufacturer Foundation Mechanics has integrated the GSSI RoadScan™ GPR system into their JILS truck-mounted FWD vehicle.

GSSI's 2 GHz air-launched horn antenna is used to resolve thin overlays, providing the highest resolution road data available.

The Benefits

- **Cost Savings** – Coring costs are dramatically reduced. The dual purpose vehicle allows for simultaneous FWD and GPR data collection.
- **Safety** – Less time for personnel operating in dangerous traffic environments.
- **Data Integration** – FWD and pavement thickness data are integrated into a single database.
- **Data Quality** – Pavement thickness at each FWD location provides designers with the data they need to determine accurate design criteria.
- **Flexibility** – The FWD vehicle may be used for independent GPR surveys at highway speeds without the need or expense of traffic control.



*Foundation Mechanics
JILS FWD System*



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