

RoadScan™

Quantum Geophysics uses RoadScan to quickly determine pavement layer thickness and perform sub-base evaluations with data densities not obtainable by other labor-intensive methods. RoadScan is the most state-of-the-art and cutting-edge pavement analysis system available.

RoadScan is a non-destructive, high-speed ground penetrating radar (GPR) system that can continuously profile pavement and sub-base layer thicknesses at highway speeds. This eliminates the need for lane closures, providing a safe working environment.



Two GHz "Horn" Antenna

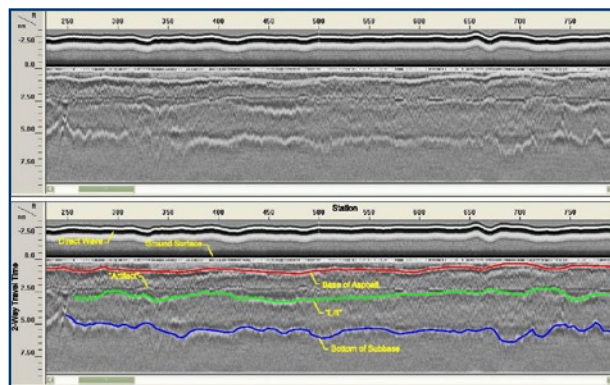
The new two GHz horn antenna provides superior resolution allowing measurement of layers as thin as one inch. RoadScan can be integrated with commercially available truck-mounted Falling Weight Deflectometer (FWD) systems to collect and store pavement thickness at each FWD test location.

RoadScan Benefits:

- Highway speed data collection eliminates the need or expense of traffic control
- GPR provides an effective tool for quickly determining pavement layer thickness
- Multi-channel data collection allows multiple antennas to be used simultaneously
- ASCII output files allow simple data transfer to other software programs
- Two GHz antenna provides superior data resolution for measuring lifts as thin as one inch.

Other Applications:

- Pavement thickness measurements
- Base and sub-base evaluations
- Bridge condition assessment
- Asphalt measurement available prior to milling operations
- Geo-textile performance testing
- Railroad substructure assessment
- Concrete cover assessment on new structures
- Concrete condition assessment, including asphalt overlaid concrete
- Balcony and parking structure assessment.



GPR Profile

Station	Depth	Layer	Value
1001	0.00	Asphalt	4.100
1001	0.10	Asphalt	4.100
1001	0.20	Asphalt	4.100
1001	0.30	Asphalt	4.100
1001	0.40	Asphalt	4.100
1001	0.50	Asphalt	4.100
1001	0.60	Asphalt	4.100
1001	0.70	Asphalt	4.100
1001	0.80	Asphalt	4.100
1001	0.90	Asphalt	4.100
1001	1.00	Asphalt	4.100
1001	1.10	Asphalt	4.100
1001	1.20	Asphalt	4.100
1001	1.30	Asphalt	4.100
1001	1.40	Asphalt	4.100
1001	1.50	Asphalt	4.100
1001	1.60	Asphalt	4.100
1001	1.70	Asphalt	4.100
1001	1.80	Asphalt	4.100
1001	1.90	Asphalt	4.100
1001	2.00	Asphalt	4.100
1001	2.10	Asphalt	4.100
1001	2.20	Asphalt	4.100
1001	2.30	Asphalt	4.100
1001	2.40	Asphalt	4.100
1001	2.50	Asphalt	4.100
1001	2.60	Asphalt	4.100
1001	2.70	Asphalt	4.100
1001	2.80	Asphalt	4.100
1001	2.90	Asphalt	4.100
1001	3.00	Asphalt	4.100
1001	3.10	Asphalt	4.100
1001	3.20	Asphalt	4.100
1001	3.30	Asphalt	4.100
1001	3.40	Asphalt	4.100
1001	3.50	Asphalt	4.100
1001	3.60	Asphalt	4.100
1001	3.70	Asphalt	4.100
1001	3.80	Asphalt	4.100
1001	3.90	Asphalt	4.100
1001	4.00	Asphalt	4.100
1001	4.10	Asphalt	4.100
1001	4.20	Asphalt	4.100
1001	4.30	Asphalt	4.100
1001	4.40	Asphalt	4.100
1001	4.50	Asphalt	4.100
1001	4.60	Asphalt	4.100
1001	4.70	Asphalt	4.100
1001	4.80	Asphalt	4.100
1001	4.90	Asphalt	4.100
1001	5.00	Asphalt	4.100
1001	5.10	Asphalt	4.100
1001	5.20	Asphalt	4.100
1001	5.30	Asphalt	4.100
1001	5.40	Asphalt	4.100
1001	5.50	Asphalt	4.100
1001	5.60	Asphalt	4.100
1001	5.70	Asphalt	4.100
1001	5.80	Asphalt	4.100
1001	5.90	Asphalt	4.100
1001	6.00	Asphalt	4.100
1001	6.10	Asphalt	4.100
1001	6.20	Asphalt	4.100
1001	6.30	Asphalt	4.100
1001	6.40	Asphalt	4.100
1001	6.50	Asphalt	4.100
1001	6.60	Asphalt	4.100
1001	6.70	Asphalt	4.100
1001	6.80	Asphalt	4.100
1001	6.90	Asphalt	4.100
1001	7.00	Asphalt	4.100
1001	7.10	Asphalt	4.100
1001	7.20	Asphalt	4.100
1001	7.30	Asphalt	4.100
1001	7.40	Asphalt	4.100
1001	7.50	Asphalt	4.100
1001	7.60	Asphalt	4.100
1001	7.70	Asphalt	4.100
1001	7.80	Asphalt	4.100
1001	7.90	Asphalt	4.100
1001	8.00	Asphalt	4.100
1001	8.10	Asphalt	4.100
1001	8.20	Asphalt	4.100
1001	8.30	Asphalt	4.100
1001	8.40	Asphalt	4.100
1001	8.50	Asphalt	4.100
1001	8.60	Asphalt	4.100
1001	8.70	Asphalt	4.100
1001	8.80	Asphalt	4.100
1001	8.90	Asphalt	4.100
1001	9.00	Asphalt	4.100
1001	9.10	Asphalt	4.100
1001	9.20	Asphalt	4.100
1001	9.30	Asphalt	4.100
1001	9.40	Asphalt	4.100
1001	9.50	Asphalt	4.100
1001	9.60	Asphalt	4.100
1001	9.70	Asphalt	4.100
1001	9.80	Asphalt	4.100
1001	9.90	Asphalt	4.100
1001	10.00	Asphalt	4.100

Spreadsheet of RoadScan Data