

# RoadScan™

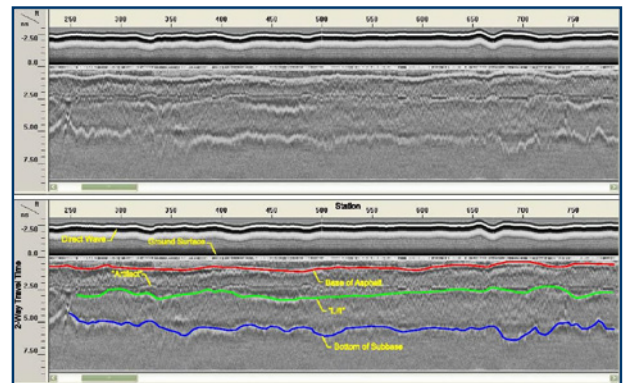
Quantum Geophysics uses RoadScan to quickly determine pavement layer thickness and perform sub-base evaluations with data densities not obtainable by other labor-intensive methods. RoadScan is the most state-of-the-art and cutting-edge pavement analysis system available.

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.



GPR Profile

Station	Depth	Layer Type	Thickness	Material
1001	0.00	Asphalt	4.965	Asphalt
1002	0.00	Asphalt	4.952	Asphalt
1003	0.00	Asphalt	4.970	Asphalt
1004	0.00	Asphalt	4.966	Asphalt
1005	0.00	Asphalt	4.972	Asphalt
1006	0.00	Asphalt	4.966	Asphalt
1007	0.00	Asphalt	4.962	Asphalt
1008	0.00	Asphalt	4.970	Asphalt
1009	0.00	Asphalt	4.966	Asphalt
1010	0.00	Asphalt	4.972	Asphalt
1011	0.00	Asphalt	4.966	Asphalt
1012	0.00	Asphalt	4.970	Asphalt
1013	0.00	Asphalt	4.966	Asphalt
1014	0.00	Asphalt	4.972	Asphalt
1015	0.00	Asphalt	4.966	Asphalt
1016	0.00	Asphalt	4.970	Asphalt
1017	0.00	Asphalt	4.966	Asphalt
1018	0.00	Asphalt	4.972	Asphalt
1019	0.00	Asphalt	4.966	Asphalt
1020	0.00	Asphalt	4.970	Asphalt
1021	0.00	Asphalt	4.966	Asphalt
1022	0.00	Asphalt	4.972	Asphalt
1023	0.00	Asphalt	4.966	Asphalt
1024	0.00	Asphalt	4.970	Asphalt
1025	0.00	Asphalt	4.966	Asphalt
1026	0.00	Asphalt	4.972	Asphalt
1027	0.00	Asphalt	4.966	Asphalt
1028	0.00	Asphalt	4.970	Asphalt
1029	0.00	Asphalt	4.966	Asphalt
1030	0.00	Asphalt	4.972	Asphalt
1031	0.00	Asphalt	4.966	Asphalt
1032	0.00	Asphalt	4.970	Asphalt
1033	0.00	Asphalt	4.966	Asphalt
1034	0.00	Asphalt	4.972	Asphalt
1035	0.00	Asphalt	4.966	Asphalt
1036	0.00	Asphalt	4.970	Asphalt
1037	0.00	Asphalt	4.966	Asphalt
1038	0.00	Asphalt	4.972	Asphalt
1039	0.00	Asphalt	4.966	Asphalt
1040	0.00	Asphalt	4.970	Asphalt
1041	0.00	Asphalt	4.966	Asphalt
1042	0.00	Asphalt	4.972	Asphalt
1043	0.00	Asphalt	4.966	Asphalt
1044	0.00	Asphalt	4.970	Asphalt
1045	0.00	Asphalt	4.966	Asphalt
1046	0.00	Asphalt	4.972	Asphalt
1047	0.00	Asphalt	4.966	Asphalt
1048	0.00	Asphalt	4.970	Asphalt
1049	0.00	Asphalt	4.966	Asphalt
1050	0.00	Asphalt	4.972	Asphalt

Spreadsheet of RoadScan Data

### 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.