



## Specialized Ground Penetrating Radar for Railway, Road and Tunnel surveys



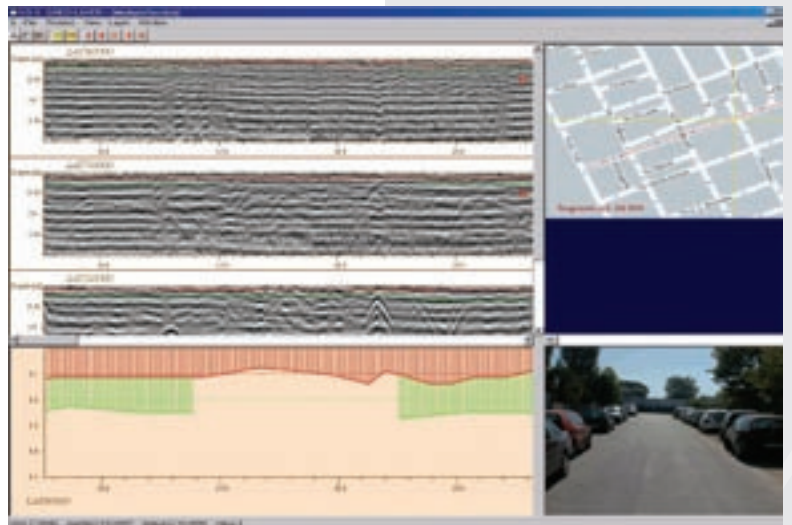
Transport engineering services and construction companies can benefit from our wide range of products for the non-destructive investigation of:

- Railway beds
- Roadbeds
- Airport runway pavement
- Road and Railway Tunnel structures
- Bridges

IDS provides a complete set of products for the non-destructive analysis of roads, railways and tunnels based on its RIS family technology. Solutions range from the RIS-ONE single-channel to the RIS-PLUS multi-channel system capable of supporting the special IDS multi-frequency antennas.

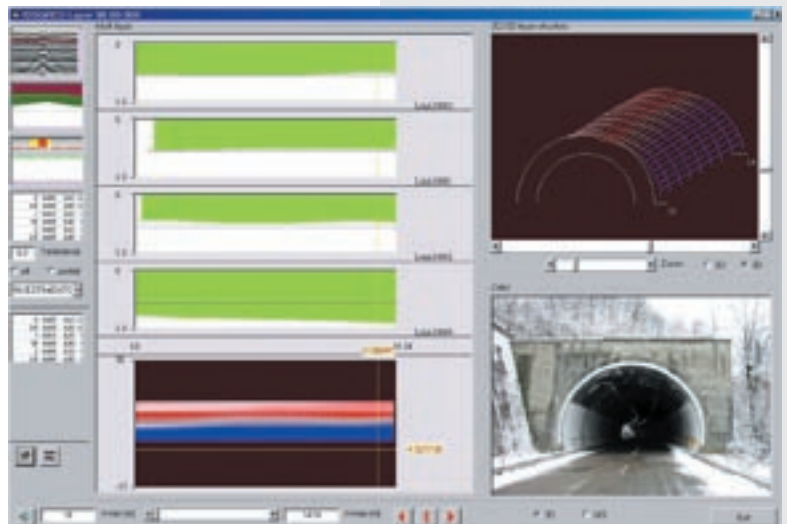
IDS is unique in offering Multi-frequency antennas. Multi-frequency means a single scan can produce a clear view of deeper layers together with detailed resolution of the shallow ones.





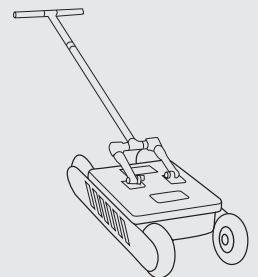
## Features

- Superior data quality and soil penetration
- The most compact and light weight radar on the market
- Special multi-frequency antennas
- Dedicated software for:
  - discriminating and tracking bed layers
  - analyzing road bed data
  - analyzing railway bed data
  - analyzing railway and road tunnel data
  - analyzing bridge data
- GPS Interface
- integration of video camera data



## Specifications

- Operating time: up to 10 hours
- Radar control unit compatible with all IDS antennas
- Multi-channel unit (8 Tx + 8 Rx) can manage up to 8 channels
- 1600 and 2000 MHz antennas for high resolution surveys
- Special antennas with multi-frequency elements (600-1600 MHz) in a single compact box
- High PRF (400 KHz), allowing fast surveys of up to 100 Km/h with antennas suspended above ground level.



**IDS**  
INGEGNERIA DEI SISTEMI

**IDS Ingegneria Dei Sistemi S.p.A.**  
Pisa Branch Office  
via Sterpulino 20, 56121 Pisa, Italy  
tel. +39 050 967111 · fax +39 050 967121

*For further information contact*  
tel +39 050 967123/24  
e-mail: sales.gpr@ids-spa.it  
www.idsgeoradar.com

