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RIS One & RIS Plus

The versatile ground penetrating radar solution for subsurface profiling

A CONFIGURABLE SYSTEM COMBINING AN UNSURPASSED MULTI-CHANNEL RADAR CONTROLLER WITH A LARGE RANGE OF COMPACT AND LIGHTWEIGHT SINGLE AND DUAL FREQUENCY ANTENNAS

IDS: The leader in multi-frequency and multi-channel Ground Penetrating Radar

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QUALITY SYSTEM CERTIFICATION ISO 9001 DNV

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IDS
INGEGNERIA DEI SISTEMI

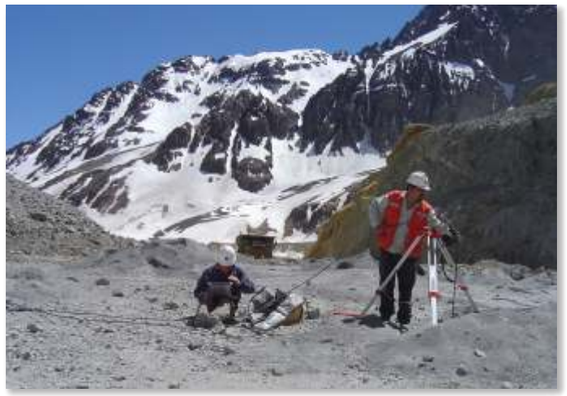
RIS One & RIS Plus

GEORADAR DIVISION

RIS One & RIS Plus

The RIS One & RIS Plus system represents a versatile approach to the professional requirements of subsurface proiling. The system meets a wide range of needs with a large variety of antennas which can be set up in either a single or multi-channel coniguration with a number of single or dual frequency antennas in a chain connection. Applications that RIS One & RIS Plus can be used for, include:

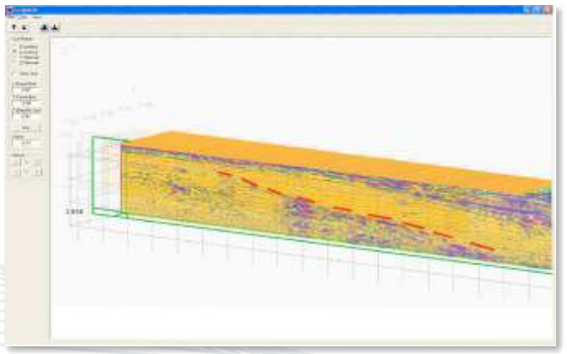
- underground tunnel inspection and condition assessment.
- bedrock and lithological proiling.
- fracture characterization.
- ground water proiling.
- foundation and pile measurements.
- borehole investigations.
- snow and ice thickness measurements.
- river bed proiling.



Borehole antenna survey

RIS One & RIS Plus Beneits

- Compact and lightweight antennas.
- Excellent data quality.
- Highest lexibility in multi-channel chain connection.
- High stacking thereby improving penetration depth.
- Wireless link to keep track of the survey path and the location of buried objects.



100 MHz Shielded antenna results

RIS One & RIS Plus Features

- **The largest range of antennas in the ground penetrating radar arena** IDS have a comprehensive set of antennas from 25 MHz to 2.6 GHz, including multi-frequency, borehole and horn antennas ensuring that the right equipment is available for the right application.
- **More than 8 hours of autonomous use** IDS's radar control unit has the lowest power consumption in the ground penetrating radar market.
- **Flexible**: The multi-channel DAD control unit can drive any IDS antenna and up to 8 antennas in a chain connection simultaneously enabling the use of custom conigurations.

Survey with a low frequency antenna at a mine

RIS One & RIS Plus Coniguration

RIS One & RIS Plus is a conigurable system driven by a single or multi-channel DAD FastWave control unit providing a high stacking factor which enables an increased acquisition speed and improved penetration depth. A large range of antennas is available from 25 MHz to 2.6 GHz including multi-frequency and borehole antennas. Up to 8 antennas or 4 dual frequency antennas can be powered by a single control unit and a cluster of 4 control units can be used to power up to 32 antennas. A variety of survey kits is available, from backpacks to trolleys, for operations in all kinds of environmental conditions.

SINGLE FREQUENCY ANTENNAS

ARRAY ANTENNAS

HORN ANTENNAS

BOREHOLE ANTENNAS

SYSTEM SPECIFICATIONS	
RECOMMENDED LAPTOP	Panasonic CF-19 Tough-Book
MAX. ACQUISITION SPEED	Depends on the number of antennas and scan rate
POWER CONSUMPTION	Depends on the coniguration from 10 W to 40 W
POSITIONING	Survey wheel and/or GPS or total station
NUMBER OF CONTROL UNIT	from 1 to 4
COLLECTION SPEED	Depends on the number of antennas
SCAN INTERVAL	Depends on the number of antennas
POWER SUPPLY	SLA Battery 12VDC 12 AH

ANTENNA SPECIFICATIONS	
ENVIRONMENTAL	IP65
ANTENNA FOOTPRINT	Depends on the antenna
NUMBER OF HARDWARE CHANNELS	8 or 32 with a cluster of 4 DAD MCH
ANTENNA CENTER FREQUENCIES	from 25 MHz to 2.6 GHz
CERTIFICATION	Depends on the antenna

SOFTWARE SPECIFICATIONS

GRED HD BASIC
GRED HD 3D

- Tomographic map view (C-Scan) including radar scan fusion
- 3D data visualization
- Advanced targeting using radarscan and tomographic view
- Radarscan viewer, ilter and advanced iltering macros, multiple radar scan viewer
- Layer picking for automatic analysis of sub-layers
- GPS and map track viewer including X, Y and Z axis and digital map importation
- Video handling (option)

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