

Stream T

Highest quality and best productivity joined together for contactless tunnel inspection



Identify slab thickness, tunnel lining cavities, voids, ribs, map reinforcements and standing water presence

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

www.idsgeoradar.com

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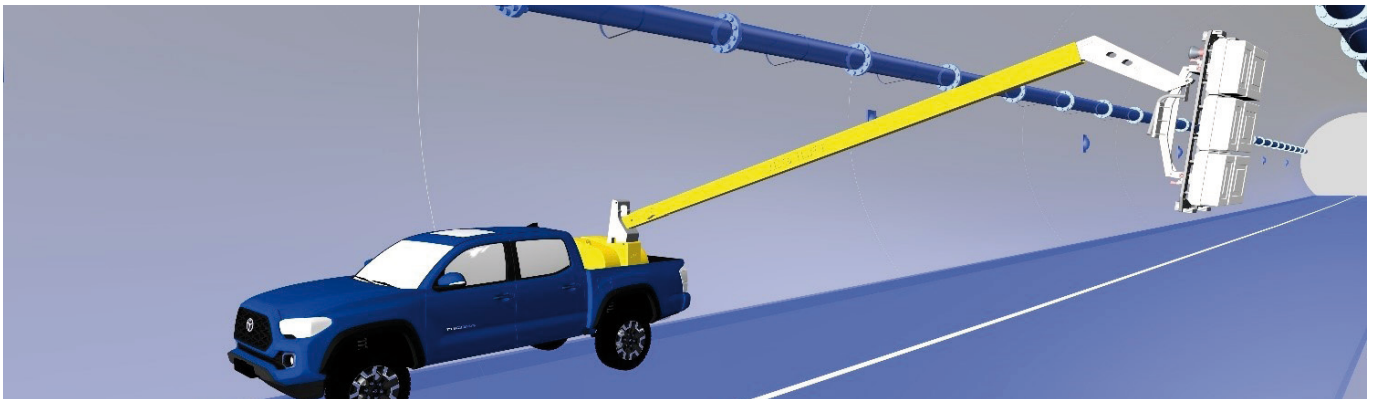
Stream T is the revolutionary contactless GPR for tunnel inspection. This innovative GPR array thanks to the contactless feature and its modular structures allows to easily overcome the obstacles to suit any survey environment. In addition, it boosts productivity and safety on working site (collecting data up to 60 km/h) without traffic stop and it is fully autonomous from working vehicles. Stream T, thanks to array solution, provides an high-density tomography to easily identify tunnel features and critical areas ensuring the best performance for the maintenance of this crucial infrastructure.

THE BEST-IN-CLASS ARRAY SOLUTION

Stream T array configuration permits a larger area coverage that drastically improves the data quality in terms of 3D view and tomography map, helping the operator to distinguish individual anomalies and buried targets previously not visible with a single-antenna configuration.

CONTACTLESS DATA COLLECTION

Stream T contactless antenna solution works up to 20 cm from the tunnel surface enhance 5x productivity compared to a traditional system. The low impact on working site means the closure of just one carriage and it is fully independent by any other working vehicle.



FULL FLEXIBLE CONFIGURATIONS

Stream T is available in 2 different configurations (Full and Mini- Shallow or Deep) offering the best flexibility in tunnel environment that allows to easily overcome the obstacles on the road. Stream T is supplied with a mechanical frame able to easy change the antenna configuration and adaptable with any mechanical interface.

Stream T can be placed on a telescopic arm extendible up the top of the tunnel, able to collect data also in the lateral side*.

CLEAR DATA PROCESSING

The post-processing software GRED HD 3D CAD allows the user to map anomalies in 3D view thanks to the multi-frequency array solution.

The results are automatically exported to 3D CAD.



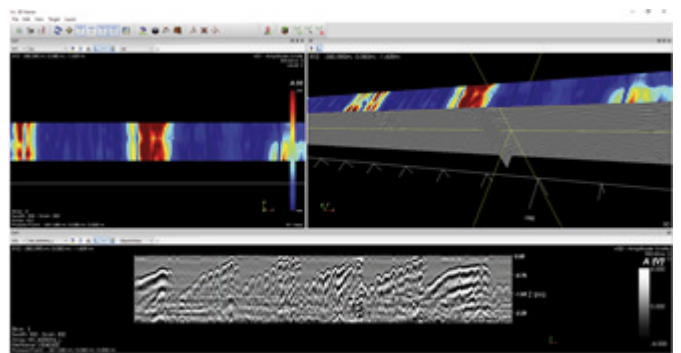
Full Configuration



*solution at customer responsibility



Mini Configuration (Shallow or Mini)



Stream T Configuration:



Mini Supply Control Unit



GPR array modules



PC Data Logger



AM Data Logger Acquisition software

Configuration	# Antennas	# Channels
<p>Full (Shallow+Deeper Configuration)</p>		<p>17</p>
<p>Mini (Shallow or Deeper Configuration)</p>		<p>6</p>

SYSTEM SPECIFICATIONS

- Overall Weight: 35kg (full configuration)
- Recommended Laptop: Panasonic FZ55
- Power Consumption: 65W (During acquisition)
- Antenna Size (T#6 Full Configuration): 700x1120x385 (W, L, H)
- Radar Coverage: 1,12 m (3.2ft)
- Tow Ball: 50 mm ISO Standard
- Positioning: Encoder, TPS
- Maximum Acquisition Speed: 60 km/h (37.3 mph) displacement
- Power supply: 12V external battery
- Waterproofing: IP65
- Scan Rate: 9230 scan/sec @512 sample/scan



HEXAGON



IDS GeoRadar

IDS GeoRadar, part of Hexagon, provides products and solutions, based on radar technology, for mining, civil engineering and monitoring applications. The company is a leading provider of Ground Penetrating Radar (GPR) and Interferometric Radar solutions worldwide.

IDS GeoRadar is committed to delivering best-in-class performance solutions and to the pursuit of product excellence, through the creation of application-specific, innovative and cost-efficient systems for a wide range of applications including mining, utility detection and mapping, civil engineering, geology, archaeology and public safety.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 23,000 employees in 50 countries and net sales of approximately 4.3bn EUR.

Learn more at hexagon.com and follow us @HexagonAB.

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