

## Stream T

Highest quality and best productivity  
merged for contactless tunnel inspection



Measurement of tunnel lining thickness, mapping of reinforcing,  
detection of cavities and location of wet areas

Stream T is the revolutionary contactless GPR for tunnel inspection. The contactless feature and modular structure allows this innovative GPR array to easily overcome obstacles often encountered in tunnel survey environments. In addition, it boosts productivity and safety on the work site by using a vehicle to collect data at up to 60 km/h (37.3 mph), without the need to stop traffic. The high-density array of the Stream T provides a high-quality tomography to easily identify tunnel features and critical areas, enabling proactive maintenance of this crucial infrastructure.

## THE BEST-IN-CLASS ARRAY SOLUTION

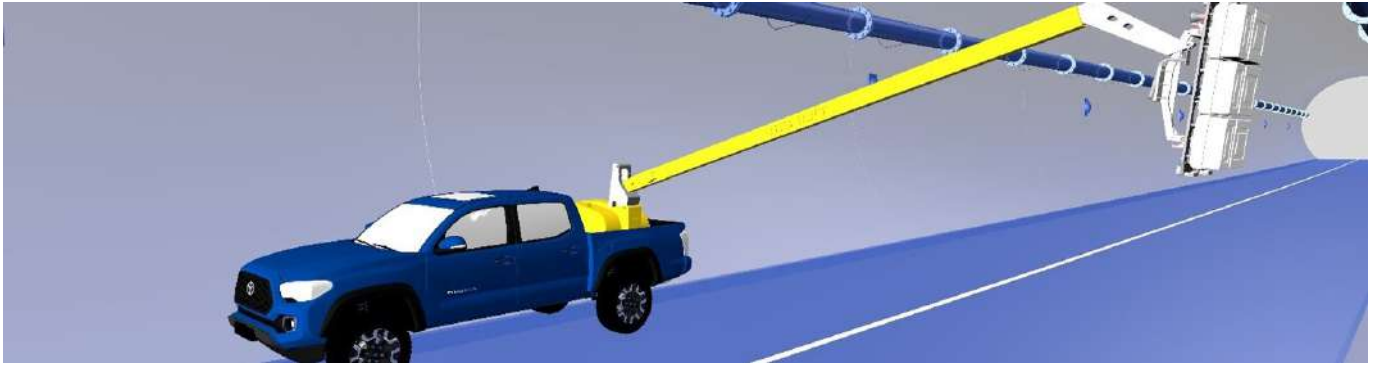


Stream T is the only turnkey solution on the market for tunnel inspection. It offers a unique multi-channel, multi-frequency and double-polarized lightweight GPR system able to map, both Deep and Shallow tunnel features in only one scan with the highest penetration and resolution at the same time.

## CONTACTLESS DATA COLLECTION



Stream T contactless antenna solution works up to 20 cm from the tunnel surface increasing the acquisition speed (up to 60 Km/h-37.3 mph): productivity increases by 5 times compared to a traditional system. The contactless solution also allows the system to be easily installed on a remote-controlled mechanical arm, increasing operator safety and avoiding operator fatigue.



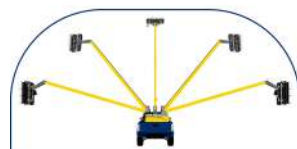
## MULTIPLE CONFIGURATIONS



Stream T is supplied in 2 different configurations to best meet the inspection and construction site requirements. The Full configuration includes both frequencies for Deep and Shallow monitoring at the same time, while the Mini configuration is optimized for Deep or Shallow survey with a smaller size system. All configurations include a dedicated mechanical frame which can be easily mounted on an extendable telescopic arm to enable rapid and safe surveying of the internal tunnel wall\*.



Full Configuration



\*solution at customer responsibility

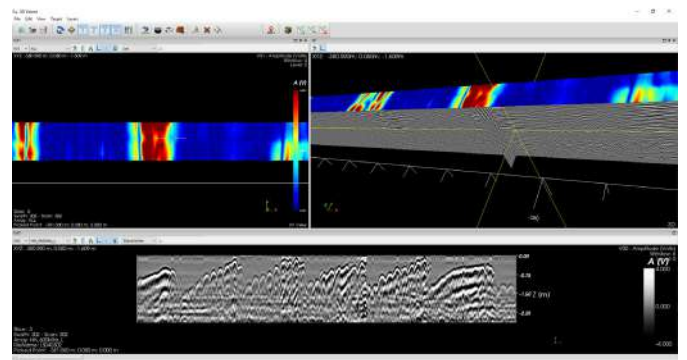


Mini Configuration  
(Shallow or Deep)

## 3D DATA PROCESSING



The post-processing software GRED HD 3D CAD allows the user to simply detect and map anomalies in a 3D view. The tomography developed by the array provides very clear and easily identifiable anomalies, greatly assisting interpretation and analysis with all results automatically exported to 3D CAD.



# Stream T Configuration:



Radar Control Unit



Array Solution



PC Data Logger with Acquisition Software

Configuration	# Antennas	# Channels
<b>Full</b> (Shallow+Deep)		17
<b>Mini</b> (Shallow or Deep)		<b>6 Shallow</b> <b>11 Deep</b>

SYSTEM SPECIFICATIONS			
<b>OVERALL WEIGHT</b>	35 kg (83.7 lb) (Full) 22 Kg (48.5 lb) (Mini Deep) 18 Kg (39.6 lb) (Mini Shallow)	<b>POSITIONING</b>	Encoder, TPS
<b>RECOMMENDED LAPTOP</b>	Panasonic CF20	<b>MAX ACQUISITION SPEED</b>	Up to 60 km/h [37.3 mph]
<b>POWER CONSUMPTION</b>	38 W (during acquisition)	<b>POWER SUPPLY</b>	12V external battery
<b>SYSTEM SIZE</b>	Full: 700X1120x385mm (27.5x44.1x15.2in) (W, L, H) Mini Deep: 430X1120x385mm (16.9x44.1x15.2in) (W, L, H) Mini Shallow: 270X1120x385mm (10.6x44.1x15.2 in) (W, L, H)	<b>WATERPROOFING</b>	IP65
<b>RADAR COVERAGE</b>	960 mm (3.1 ft)	<b>CERTIFICATION</b>	EC, UKCA

SCAN TO  
DISCOVER MORE



**IDS GeoRadar Srl**  
Via Augusto Righi, 6, 6A, 8-56121 Ospedaletto Pisa, Italy  
Tel: +39 050 89 34 100  
[www.idsgeoradar.com](http://www.idsgeoradar.com)  
[info@idsgeoradar.com](mailto:info@idsgeoradar.com)