IDS GeoRadar

Stream C

The compact array solution for accurate 3D utility mapping



High quality, High productivity and Simple to Use compact radar system for real time underground surveys

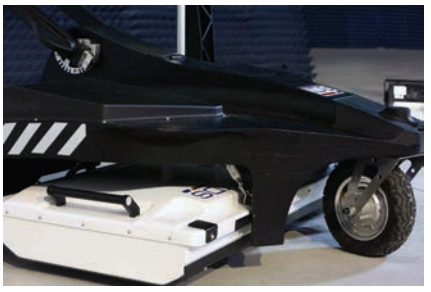
PART OF HEXAGON

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

www.idsgeoradar.com

Stream C

Stream C is the compact array solution for real-time 3D mapping of underground utilities and features. Thanks to increased level of accuracy provided by a massive antenna array, Stream C is able to automatically detect pipes and cables.
Daily use of Stream C is aided by ergonomic features including electronic ride height adjustment, options to tow manually or with a small vehicle and a motor assisted drive wheel.
Stream C is available in both Basic and Advanced configurations.



Stream C antenna array



Stream C pivoting and motorized front wheel



Stream C with vehicle towing kit



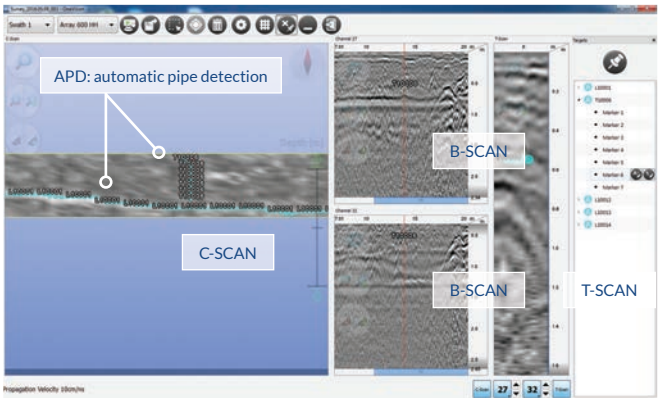
Stream C adjustable handle

STREAM C BENEFITS

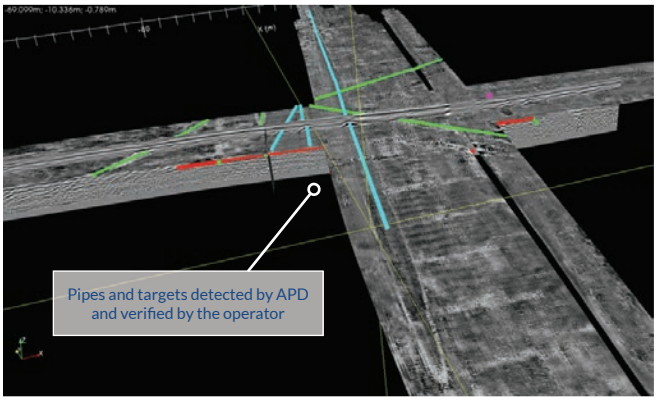
- High Productivity: surveys only need to be performed in one direction to ensure optimal detection for both longitudinal and transversal pipes.
- No advanced training needed: the system automatically detects and locates the position of pipes in real time and displays them on screen.
- Reduced user fatigue: thanks to electronic ride height adjustment and a motor assisted drive wheel.
- Facilitates large surveys: the system can be towed manually or with a small vehicle, increasing the acquisition speed (up to 6 km/h).

STREAM C FEATURES

- Massive array of 34 antennas in two polarizations: this enables an accurate 3D reconstruction of the underground utility network to be created in a single scan.
- Automatic Pipe Detection (APD): real-time automatic detection of buried pipes and cables
- Compact size: Stream C's small dimensions enable it to survey areas inaccessible to larger array systems while maintaining the same accuracy.
- Robust construction: built to the highest standards and with hardwearing materials so that it can be used in harsh, demanding environments.
- 3D radar tomography: real-time tomography on a GPS or total station assisted cartographic background.
- Professional subsurface survey: pipes, cables and buried objects can be automatically transferred to CAD and GIS formats allowing a complete subsurface GIS based digital map to be quickly produced.



OneVision: real-time acquisition software with APD (Automatic Pipe Detection)



GRED HD 3D CAD: post processing software with pipe results

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Stream C configurations:

Basic or Advanced



Electronic ride height adjustment of the antenna

Adjustable handle always gives you a perfect grip

Pivoting wheel working in vehicle towed version

Motorized front wheel for assisted surveys (available in the advanced configuration)

Dense antenna array for accurate 3D mapping

No exposed cables provides protection against ruptures in the field

Dedicated GPS Pole mounting kit

SYSTEM SPECIFICATIONS		
BASIC Configuration	OVERALL WEIGHT (PC not included):	75 kg (165 lbs)
ADVANCED Configuration	OVERALL WEIGHT (PC not included):	95 kg (209 lbs)
RECOMMENDED LAPTOP:		Panasonic FZ G1
MAX ACQUISTION SPEED:		6 km/h (3,7 mph)
RADAR POWER CONSUMPTION:		60 W
POSITIONING:		Integrated encoder and/or GPS / Total station
RADAR POWER SUPPLY:		SLA Battery 12VDC 24 Ah
ENVIRONMENTAL:		IP65
ANTENNA FOOTPRINT:		120x57 cm
NUMBER OF CHANNELS:		32 (23VV-9HH)
ANTENNA CENTRAL FREQUENCY:		600 MHz
ANTENNA POLARIZATION:		HH and VV
SCAN WIDTH:		96 cm
CERTIFICATION:		EC, FCC, IC

SOFTWARE SPECIFICATIONS	
OneVision Acquisition Software	• Automatic calibration for an easy and quick start-up • Visualization and storage of antenna array data set (32 channels) • Real-time visualization of radar tomography (time slices) • On site marking via software of targets and pipes • Connection with NMEA positioning device • Export to IDS GeoRadar GeoMap, dxf, shp and kml formats • Multilanguage support • Metric and Imperial units
ADP Tool for OneVision Acquisition Software (optional)	• Automatic Pipe Detection tool
GRED HD 3D CAD Processing Software	• Advanced 3D processing software with a direct export link to AutoCAD

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