

## 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

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 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.



Stream C antenna array



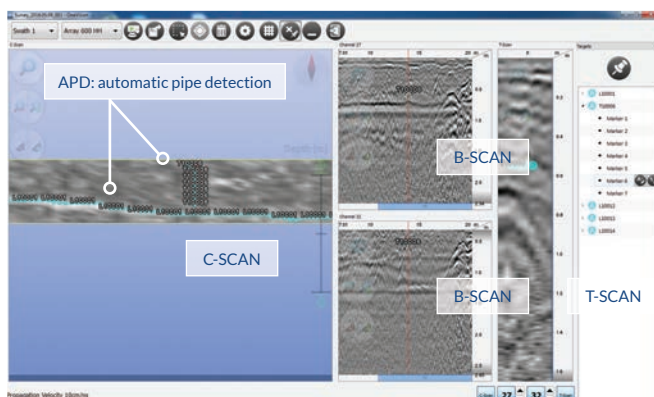
Stream C pivoting and motorized front wheel



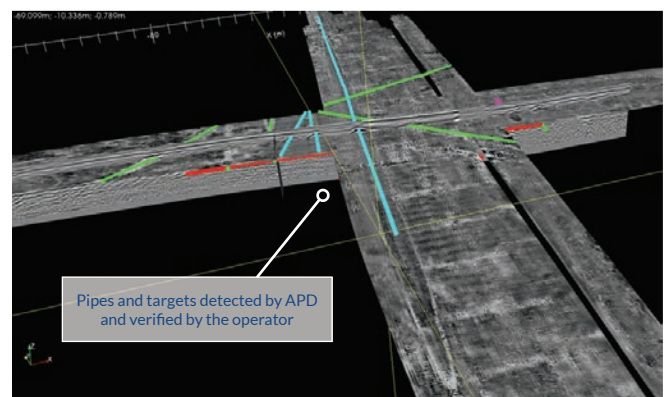
Stream C with vehicle towing kit



Stream C adjustable handle



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



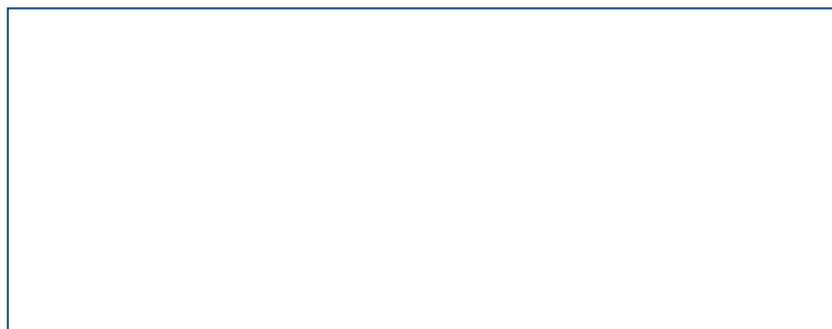
GRED HD 3D CAD: post processing software with pipe results

# Stream C configurations:

Basic or Advanced



SYSTEM SPECIFICATIONS			SOFTWARE SPECIFICATIONS	
BASIC Configuration	OVERALL WEIGHT (PC not included):	75 kg (165 lbs)	OneVision Acquisition Software	<ul style="list-style-type: none"> <li>Automatic calibration for an easy and quick start-up</li> <li>Visualization and storage of antenna array data set (32 channels)</li> <li>Real-time visualization of radar tomography (time slices)</li> <li>On site marking via software of targets and pipes</li> <li>Connection with NMEA positioning device</li> <li>Export to IDS GeoRadar GeoMap, dxf, shp and kml formats</li> <li>Multilanguage support</li> <li>Metric and Imperial units</li> </ul>
ADVANCED Configuration	OVERALL WEIGHT (PC not included):	95 kg (209 lbs)		
RECOMMENDED LAPTOP:		Panasonic FZ G1		
MAX ACQUISITION 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	ADP Tool for OneVision Acquisition Software (optional)	<ul style="list-style-type: none"> <li>Automatic Pipe Detection tool</li> </ul>
ANTENNA FOOTPRINT:		120x57 cm	GRED HD 3D CAD Processing Software	<ul style="list-style-type: none"> <li>Advanced 3D processing software with a direct export link to AutoCAD</li> </ul>
NUMBER OF CHANNELS:		32 (23VV-9HH)		
ANTENNA CENTRAL FREQUENCY:		600 MHz		
ANTENNA POLARIZATION:		HH and VV		
SCAN WIDTH:		96 cm		
CERTIFICATION:		EC, FCC, IC		



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