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

IDS GeoRadar: The leader in multi-frequency and multi-channel Ground Penetrating Radar
www.idsgeoradar.com
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 configurations:**

- **Basic Configuration**
  - OVERALL WEIGHT (PC not included): 75 kg (165 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

- **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

**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, dwf, shp and kml formats
  - Multilingual support
  - Metric and Imperial units

- **GRED HD 3D CAD**
  - Advanced 3D processing software with a direct export link to AutoCAD

**System Specifications**

- **B-Spec**: Automatic calibration for an easy and quick start-up
- **A-Spec**: Automatic calibration for an easy and quick start-up
- **ADP Tool for OneVision Acquisition Software (Optional)**
- **GRED HD 3D CAD Processing Software**
- **Automatic Pipe Detection tool**
- **Advanced 3D processing software with a direct export link to AutoCAD**
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- High Productivity: surveys only need to be performed in one direction to ensure optimal detection for both longitudinal and transversal pipes.
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- Facilitates large surveys: the system can be towed manually or with a small vehicle, increasing the acquisition speed (up to 6 km/h).

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**SYSTEM SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Configuration</th>
<th>OVERALL WEIGHT (PC not included)</th>
<th>OneVision Acquisition Software</th>
<th>GRED HD 3D CAD Processing Software</th>
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</thead>
<tbody>
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<td></td>
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</table>
| ADVANCED Configuration | 95 kg (209 lbs)                  | • Visualization and storage of antenna array data 
| RECOMMENDED LAPTOP | Panasonic FZ G1                  | • Real-time visualization of radar tomography data and images |
| MAX ACQUISITION SPEED | 6.4 m/s (3.7 mph)               | • On-site marking via software of targets and pipes |
| RADAR POWER CONSUMPTION | 10 W                      | • Connection with NMEA positioning device |
| POSITIONING | Integrated encoder and/or GPS / Total station | • Connection with OneVision Acquisition Software (optional) |
| RADAR POWER SUPPLY | 12 V 24 Ah                      | GRED HD 3D CAD Processing Software |
| ENVIRONMENTAL: IP65 |                                      | • Advanced 3D processing software with a direct export link to AutoCAD |
| 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          |                                  |                                  |

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
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