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.

**SYSTEM SPECIFICATIONS**

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<tr>
<th>Configuration</th>
<th>OVERALL WEIGHT (PC not included)</th>
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<tr>
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| RECOMMENDED LAPTOP: | Panasonic FZ G1 |
| MAX ACQUISITION SPEED: | 6 km/h (3,7 mph) |
| RADAR POWER CONSUMPTION: | 40 W |
| POSITIONING: | Integrated encoder and/or GPS / Total station |
| RADAR POWER SUPPLY: | 12VDC SLA Battery 24 Ah |

**SOFTWARE SPECIFICATIONS**

- Automatic calibration for an easy and quick start-up
- Visualization and storage of antenna array data (32 channels)
- Real-time visualization of radar tomography (time slices)
- On site marking via software of targets and pipes
- Connection with NMEA positioning device
- Import of IDS GeoRadar GeoMap, dxf, shp and kml formats
- Multilanguage support
- Metric and Imperial units

### 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)**

- Acquire targets and verify by APD and verified by the operator

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

- Improved 3D processing software with a direct export link to AutoCAD

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**Stream C configurations:**

- **Basic** or **Advanced**

  - **Electronic ride height adjustment of the antenna**
  - **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**

**Adjustable handle always gives you a perfect grip**

**APD: automatic pipe detection**

**T-SCAN**

**C-SCAN**

**B-SCAN**

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<td></td>
<td></td>
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<td>POSITIONING: Integrated encoder and/or GPS / Total station</td>
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<tr>
<td></td>
<td></td>
<td>RADAR POWER SUPPLY: SLA Battery 12VDC 24 Ah</td>
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<tr>
<td></td>
<td></td>
<td>ENVIROMENTAL: IP65</td>
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<tr>
<td></td>
<td></td>
<td>ANTENNA FOOTPRINT: 120x57 cm</td>
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<tr>
<td></td>
<td></td>
<td>NUMBER OF CHANNELS: 32 (23VV-9HH)</td>
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<td></td>
<td></td>
<td>ANTENNA CENTRAL FREQUENCY: 600 MHz</td>
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<tr>
<td></td>
<td></td>
<td>ANTENNA POLARIZATION: HH and VV</td>
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<tr>
<td></td>
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<td>SCAN WIDTH: 96 cm</td>
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<tr>
<td></td>
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<td>CERTIFICATION: EC, FCC, IC</td>
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<th>Function</th>
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<tr>
<td>Environment</td>
<td>OneVision Acquisition Software</td>
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<td>Advanced 3D processing software with a direct export link to AutoCAD</td>
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**C-SCAN, B-SCAN, T-SCAN**

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