IDS Ingegneria Dei Sistemi S.p.A.

GeoRadar Division, Via Enrica Calabresi 24, 56121 Pisa (PI) Italy Tel. +39 050 31241 Fax +39 050 3124201 georadarsales@idscorporation.com

IDS Brasil Engenharia de Sistemas Ltda.

Av. Paulista 2200 – 16 and. São Paulo-SP, Brazil, CEP 01310-300 Tel. +55 11 3060 9364 Fax +55 11 3060 9364 idsbr@ldscorporation.com

IDS Brasil Engenharia de Sistemas Ltda. Belo Horizonte

Av. Prof. Mario Werneck, 26 Conjto 503 Belo Horizonte - MG, Brazil, CEP 30455-610 Tel. +55 31 3286 1195 Fax +55 31 3286 1195 idsbr@idscorporation.com

IDS North America Ltd.

155 Terence Matthews Cres. Ottawa, Ontario K2M 2A8 Canada Tel. +1 613 591-0500 Fax +1 613 591-0981 idsna@idscorporation.com

IDS North America Ltd. Montreal

418 Sherbrooke Street East, Montreal, Quebec H2L 1J6, Canada Tel. +1 514 789-0082 Fax +1 514 398-0527 idsna@idscorporation.com

IDSNA, Inc.

14828 W 6th Ave., Suite 12-B, Golden, CO 80401,USA Phone: + 1 303 232 3047 Fax: + 1 720 519 1087 idsna@idscorporation.com

IDS Australasia Pty Ltd.

Unit 5, 3-5 Hinkler Court, Brendale, Queensland, Australia, 4500 Tel. +61 7 3205 5524 Fax 61 7 3205 5536 idsau@idscorporation.com

IDS Australasia Pty Ltd, Perth

Unit 8, 3 La Fayette Boulevard, Bibra Lake, Western Australia, Australia 6163 Tel: +61 8 9418 8719 Fax: +61 7 320 55536 idsau@idscorporation.com

IDS Korea Ltd.

312-2 Migun Technoworld 1, 199 Techno 2-ro, Yuseong-gu, Daejeon 34025, Korea Tel. +82 042 932 1551 Fax +82 042 932 1555 idskr@idscorporation.com

Stream X

The GPR array solution for underground archaeological and environmental surveys



STREAM X: THE DEDICATED SOLUTION DESIGNED TO SURVEY LARGE AREAS

12_REV_1.24



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



Stream X **GEORADAR DIVISION**

Stream X

Stream X is a vehicle towed ground penetrating radar solution for extensive 3D mapping of buried structures and geological features. With its 2m wide swath, high speed and unsurpassed resolution, Stream X is the ideal solution for mapping large archaeological sites, detecting underground structures, pipes and tanks, identifying and mapping cavities or even locating unexploded ordnance.

Stream X Benefits

- Cost savings in underground investigation procedures while also providing more information on what is buried
- **Increased performance:** Able to detect the presence and shape of anomalies present in the soil.
- · Fast and accurate survey even in rough terrain.
- High productivity: up to 1 hectare/hour and a dedicated post processing platform.

Stream X Features

- Massive array of antennas: Stream X can be equipped with three different array configurations from 16 to 48 antennas. Antenna spacing can be as low as 4 cm; three times better than other competitors.
- Different frequencies (200 MHz or 600MHz): Stream X can be equipped with a 16 antenna 200 MHz array in order to achieve the best penetration or with a 48 antenna 600 MHz array to maximize resolution.
- Mechanical frame: A solid mechanical frame which has been tested in several rough terrain conditions and harsh environments.
- 3D tomography: The most defined underground 3D model currently available.
- Advanced acquisition and navigation Software with real-time tomography and survey control with parameter editing.



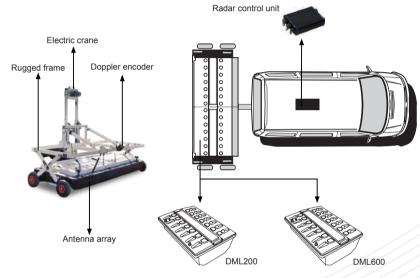




Top view time slice at a depth of 60 cm of a Roman archaeological site

Stream X Configuration

Stream X is available with a 200 MHz antenna array for deep investigation or a dual 600 MHz array for high resolution shallow investigations. These are controlled by 1 to 4 multi-channel DAD FastWave radar control units and positioned using a survey wheel, total station or GPS. Stream X's provided software is able to acquire and display in real-time data from up to 48 antennas. It includes 2D and 3D tomography for an immediate visualization and detection of anomalies and the ability to automatically transfer target data to CAD or GIS maps.



	SYSTEM SPE	ECIFICATIONS		SOF
	RECOMMENDED LAPTOP	Panasonic CF-19 or CF-31 Tough- Book		ONEVISION Acquisition Software
	MAX. ACQUISTION SPEED (@ STD. SCAN INTERVAL)	36 kph (22 mph)		
	POWER CONSUMPTION	28 W - 200 MHz version		
	POSITIONING	Doppler radar and/or GPS or total station		GRED HD 3D CAD Post Processing Software
	NUMBER OF CONTROL UNIT	1 DAD MCH @ 200 MHz 4 DAD MCH @ 600 MHz		
	SCAN RATE PER CHANNEL: (@512 SAMPLES/SCAN)	87 scans/sec		
	SCAN INTERVAL	8 scans/m		
	POWER SUPPLY	SLA Battery 12VDC 12 Ah + electric crane battery		
	ANTENNA SPECIFICATIONS			
	IP GRADE	IP65		
	SCAN WIDTH	1.80 m Width		
	NUMBER OF CHANNELS	15 / 44		
	ANTENNA CENTER FREQUENCIES	200MHz or 600MHz		
	POLARIZATION	VV		
	ANTENNA SPACING	12cm / 4cm		

EC, FCC, IC

CERTIFICATION

SOFTWARE SPECIFICATIONS

- Integrated navigator
- Real time tomography Extensive survey management
- System and survey set up GPS management
- Tomographic map view (C-Scan) including radar scan fusion
- 3D data visualization
- Advanced targeting using radarscan and tomographic view
- CAD, GIS exportation of GPR data and
- Synthetic map (only for the Stream family of products)
- Radarscan viewer, filter and advanced filtering macros, multiple radar scan viewer
- Layer picking for automatic analysis of sub-lavers
- GPS and map track viewer including X, Y and Z axis and digital map importation
- Video handling (option)

