A clearer view of underground utilities
Leica DSX

Uncovering utilities clearly and effortlessly

For utility repair and maintenance, civil engineering and surveying companies, the Leica DSX utility detection solution, consisting of a portable hardware with intuitive software allows to easily locate, visualise and map utilities. Unlike any other ground penetrating radar (GPR) system, the Leica DSX maximises productivity with cutting-edge software that automates data analysis and creates a 3D utility map on the field.

DSX and DXplore Technical Specifications

HARDWARE SYSTEM

DSX Utility Detection Radar		CT1000 Tablet	
Central Frequency	600 MHz	Display	11.6"
Detection Depth	Up to 2m / 6.56ft	Processor	Intel® Core™ i3-7100U
Acquisition Speed	Up to 7km/h or 4.3mph	Memory	RAM 4GB, 128GB SSD
Scan Interval	0.50m / 18in	Operating System	Windows 10 Professional
Positioning	2 encoders on wheels; GNSS antenna integration (Surveyor kit only)	Positioning	GPS (GlobalSat)
Environmental	IP65	Environmental	Sunlight readable display (LCD + Touchscreen + Hard Tip stylus) IP65 / MIL-STD-810G
Weight	23kg (without battery and tablet)	Weight	1.39Kg
Battery	Li-ion 14.8V / 5800mAh up to 8 hours operating time	Battery	Li-Ion 11.4V / 2160mAh
Operating Temperature	−10°C to +40°C / 14°F to 104°F	Communications	WiFi, Bluetooth v4.2, 4G LTE (Model 880920) RJ45 – connection to DSX
Warranty	2 years (extension CCPs available)	Warranty	2 years Global Warranty (battery – 1 yr)

SOFTWARE

DXplore		Starter	Surveyor
Setup	Offline tutorials	✓	✓
	Status check (connection, battery level, etc.)	✓	✓
	Project and draft management	✓	✓
Acquisition	Grid Scan mode	✓	✓
	Radar sensor control (scan and pause, etc.)	✓	✓
Positioning	Real-time position display from wheel encoders	✓	✓
	Google Maps and current location support	✓	✓
	Reference point entering support	✓	✓
	Local coordinate system support		✓
	GNSS antenna support (Leica GS14, 16, 18 T; iCON gps 70, 70 T; GG03, GG04, GG04 plus)		✓
Process & Analysis	On-site radar tomography generation	✓	✓
	POI support	✓	✓
	Utility marking	✓	✓
	Automatic utility verification	✓	✓
View	2D view	✓	✓
	3D view		✓
Import	Utility records in DXF and DWG formats	✓	✓
	Multiple layer support		✓
Export	Customised report in PDF format	✓	✓
	Detected utilities in DXF and DWG formats	✓	✓
	Tomography in JPG format	✓	✓

- when it has to be **right**

Leica Geosystems