Product brochure

IDS GeoRadar Opera XR

200/900 MHz cart GPR for underground utility locating





Opera XR combines two radar channels and central frequencies of 200 and 900 MHz in a system for subsurface investigation. The operator collects profiles, marks anomalies of interest and compares results to build a picture of utility routes. A folding cart simplifies transport between sites. EsT technology, uMap field software and further analysis in IQMaps provide a path from survey to processed data, depending on the configuration selected.

Configuration and price on request

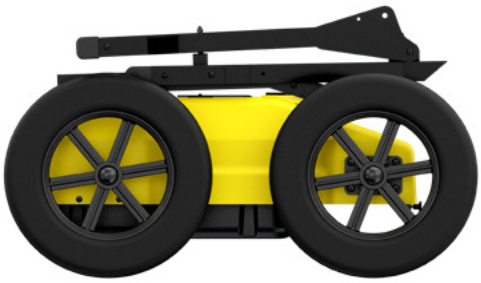
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Photos and technical data: IDS GeoRadar / Hexagon.

200/900 MHz cart GPR for underground utility locating

Opera XR is designed for investigating underground infrastructure during utility locating, engineering and road projects. It helps identify anomalies associated with cables, pipes and other objects and document their position. Interpret the results alongside utility plans, ground conditions and information from other locating methods.





Two channels and EsT technology

Opera XR uses central frequencies of 200 and 900 MHz and an inspection frequency range of 80-1500 MHz. EsT technology controls the radar signal to support collection of subsurface data. HH or VV polarisation is selected through the antenna configuration; this does not mean that both polarisations are recorded simultaneously.

A cart for surveying and transport

The system weighs 20 kg and folds for transport. Antenna mounting height can be adjusted and the handle folded after work. Standard 310 mm wheels can be replaced with optional 380 mm terrain wheels. Choose a configuration suited to the surface and site access.

Applications and workflow

Plan survey lines, select the antenna configuration and prepare positioning appropriate to the task. Collect data in uMap, compare profiles and mark detected anomalies. Make additional passes where needed. Data can then be processed in IQMaps and exported for further design work if this is covered by the agreed software scope.

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IDS GeoRadar Opera XR

Radar channels	2
Central frequencies	200 MHz and 900 MHz
Inspection frequency range	80-1500 MHz
Technology	EsT - Equalized scrambled Technology
Polarisation	HH and VV configurations; selectable antenna arrangement
Positioning	Encoder; external GPS and TPS support
Power consumption	Acquisition 16 W; standby 12 W
Declared operating time	4 h with one battery; 8 h with two; hot-swap replacement

Configuration and offer scope

System configuration, additional equipment, positioning and licence scope are agreed in an individual quotation. Before purchasing, choose a version suited to the task and the team workflow.

From marking anomalies to reporting

uMap supports data collection and display, target marking in the field and report generation. External positioning and a map of the survey area can be used. IQMaps enables further 3D processing and export to AutoCAD. The controller, positioning equipment and licences are specified when preparing the offer.

Actual range and data quality depend on the medium properties, moisture, target size and orientation, and survey method. Results require interpretation and comparison with available documentation.

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