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 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.

Configuration and price on request

Original adaptation and translation: geoscanners.pl. Based on IDS GeoRadar materials.

Photos and technical data: IDS GeoRadar / Hexagon.

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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
Folded dimensions	750 × 625 × 420 mm
Dimensions in use	750 × 625 × 1000 mm
System weight	20 kg
Operating temperature	From -20°C to +50°C
Ingress protection	IP65
Wheels	4 × Ø310 mm standard; 4 × Ø380 mm optional
Compliance	CE, UKCA, FCC, IC
Field software	uMap: recording, display, target marking and reporting
Further analysis	IQMaps: 3D processing and export to AutoCAD; licence to be agreed

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.

Prepared using the manufacturer documentation.

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Choose equipment for your work

GPR systems: configuration advice, demonstrations and individual quotations.

HEXAGON | IDS GeoRadar



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