Product brochure

Leica DS4000

Dual-channel GPR for underground utility locating





Leica DS4000 helps investigate subsurface infrastructure and organise results before excavation begins. Two channels with central frequencies of 200 and 900 MHz provide information at different subsurface levels, while EsT technology supports recording across a wide band. Positioning and further data processing can be tailored to individual project requirements. **The base version is the GPR only, without a controller or tablet.** A version with a controller and GNSS pole bracket is also available. Original manufacturer photos show example equipment; the selected configuration defines the supply scope.

98 000 PLN net: without controller or tablet
125 600 PLN net: controller + GNSS pole bracket

Original adaptation and translation: geoscanners.pl. Based on Leica Geosystems materials.

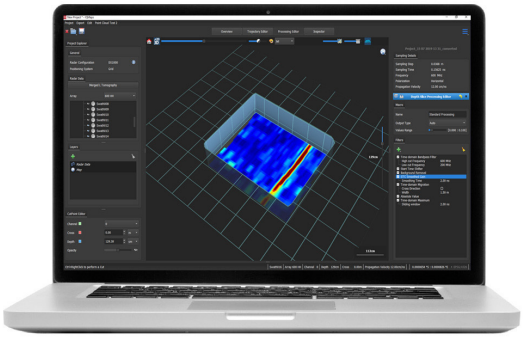
Photos and technical data: Leica Geosystems / Hexagon.

Applications and workflow

Dual-channel GPR for underground utility locating

Investigating utility routes before excavation, checking infrastructure documentation and preparing data for mapping. GPR can support searches for metallic and non-metallic utilities if their properties and surroundings provide sufficient signal contrast.





Two channels, combined interpretation

Compare responses from the 200 and 900 MHz channels to assess targets of different sizes and positions. The manufacturer specifies an inspection range of 80-1500 MHz. The ability to change HH and VV polarisation configurations allows the antenna arrangement to suit the task, without promising detection of every utility.

From profiles to field documentation

uMap records and displays data, marks interpreted objects and prepares field reports. External positioning support enables identified anomalies to be linked to a map. IQMaps provides a separate option for further processing and export to AutoCAD.

Applications and workflow

Plan the area and profile directions, check settings and positioning, then collect data in uMap. Compare responses from both channels and mark interpreted anomalies. A field report can be supplemented with IQMaps analysis, depending on the licence scope selected and the required final output.

Selected specifications

Leica DS4000

Channels	2
Central frequencies	200 MHz and 900 MHz
Manufacturer inspection frequency range	80-1500 MHz
Technology	EsT - Equalized scrambled Technology
Polarisation configurations	HH and VV
Dimensions folded for transport	750 × 625 × 420 mm
Dimensions in operating position	750 × 625 × 1000 mm
Instrument weight	20 kg

Configuration and offer scope

98 000 PLN net (120 540 PLN gross, VAT 23%): GPR only, **without a controller or tablet.**
125 600 PLN net (154 488 PLN gross, VAT 23%): GPR **with a controller and GNSS pole bracket.**
The controller model and any unspecified accessories are confirmed in the quotation.

A design suited to field work

The folding handle simplifies transport and setup. Antenna height adjustment helps match clearance to the surface. The system supports battery replacement during operation; larger wheels and additional positioning equipment are configuration options, rather than automatically included in every kit.

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.

Original adaptation and translation: geoscanners.pl. Based on Leica Geosystems materials.

Photos and technical data: Leica Geosystems / Hexagon.

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GPR systems: configuration advice, demonstrations and individual quotations.

- when it has to be right Leica Geosystems HEXAGON





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