

Leica GPS900  
Big ambitions  
on a budget



- when it has to be **right**



... in one case





# New opportunities ...

## Control/Reference Line



Stakeout and measure relative to lines and arcs. Enter offsets and heights. Control/Reference lines can be defined using the map-view. Set checks for quality control. Ideal for buildings, drainage, foundations etc.

## Stakeout



Stakeout points and digital terrain models (DTMs) with the stakeout program. Navigate directly using the map-view or using the large bull's-eye.

## Software Specifications



### Easy to use

GPS900 is exceptionally easy to use. Control the large graphic display using the touch screen or keyboard. The familiar operating concept provides instant productivity.



### Graphical view

Large graphical map-views give easy access to data. Immediately see what has been measured, what has been staked out and what still needs to be done.



### GNSS technology

Now with an ultra-precise GNSS (Global Navigation Satellite System) measurement engine that supports both GPS and GLONASS – benefit from up to 100 % more satellites than GPS only.



### Does your crew speak different languages? Ours does.

The GPS900 is the only instrument of its class with multiple languages onboard. This allows the user to choose the preferred language.



### Direct.dxf

With “Direct.dxf” functionality, data can be read directly from the instrument in dxf-format and read into AutoCAD, on a PC without any intermediate steps. Dxf-format can be directly imported on the instrument.

## Leica GPS900 ...

### Best antenna performance

Continue working even in difficult conditions. GPS900 provides the best RTK GNSS performance with high accuracy measurements from GPS and GLONASS satellites.

### Rugged rover

Built to military specifications the GPS900 RTK rover is incredibly robust. The cable-free all-on-the-pole rover is ideal for construction sites and other demanding workplaces.

### One person, one case, one system

Increase productivity. The GPS900 is ideal for one-person stakeout and survey work. Everything that is needed for a days work can be easily transported and setup.



Topographic Survey



Record points with or without code and attribute information. Set criteria and measure points automatically. View the survey in the large, graphical map-view display. Use the Survey program for detail, topo, title surveys etc.

Alignment



Stakeout relative to a 3D alignment using the RoadRunner option. Points can be staked out at any chainage (stationing) and offset. Work with any combination of geometric elements.



... easy  
GPS in  
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Hardware Specifications



- ATX900 GG GNSS Antenna**
- Total reliability
  - Top quality measurements
  - GPS and GLONASS support
  - Acquisition and initialization within seconds



- RX900/RX900c Controller**
- High contrast 1/4 VGA Touch screen with colour (RX900c)
  - *Bluetooth®* Wireless-Technology
  - User-definable keys
  - Internal memory or CF-card



- Rugged**
- -30° C to +65° C operating temperature
  - Up to 100% humidity
  - Waterproof to 1 m temporary submersion
  - Withstands fall if pole topples over

| Leica GPS900 Technical Specifications  |   |
|--|---|
| GNSS technology  | SmartTrack+ dual frequency<br>14 L1 + 14 L2 GPS<br>12 L1 + 12 L2 GLONASS  |
| GNSS Antenna<br>ATX900 GG  | Built-in groundplane with SmartCheck+ and <i>Bluetooth®</i> Wireless-Technology   |
| Controller<br>RX900 &<br>RX900c  | 1/4 VGA Touch screen<br>Windows CE 5.0<br>256 MB internal memory or removable CF card up to 1 GB<br><i>Bluetooth®</i> Wireless-Technology |
| SmartCheck+  | Horizontal accuracy: 10 mm +1 ppm, kinematic<br>Vertical accuracy: 20 mm +1 ppm, kinematic  |
| Power supply   | Li-Ion 1.9 Ah/7.2 V for GPS900 rover. Ni-MH 8.0 Ah/12 V for GPS900 reference setup. Power RTK rover for about 5 hours.                    |
| Temperature<br>ISO9022, MIL-STD-810F   | Operation: -30° C to +65° C<br>Storage: -40° C to +80° C  |
| Protection against water,<br>dust and sand, IP67<br>(IEC60529), MIL-STD-810F | Waterproof to 1 m temporary submersion<br>Dust tight  |
| Weight   | GNSS Antenna: 0.96 kg, RX Controller: 0.71 kg<br>Entire GPS900 RTK rover: 3.49 kg   |
| Update rate  | Position update rate: 1 Hz standard, 2 Hz & 5 Hz option   |
| Range  | RTK range: 2500 m standard, 5000 m option   |

Figures quoted are for normal to favorable conditions

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Whether you want to survey a parcel of land or objects on a construction site, determine measured points on facades or in rooms, gather the coordinates of a bridge or a tunnel – Leica Geosystems' surveying instruments provide the right solution for every application.

They unite reliable results with easy operation and user-friendly applications. They are designed to meet your specific requirements. Modern technology enables you to work fast and productively, thanks to the straightforward and clearly structured range of functions.

When it has to be right.

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**Total Quality Management – our commitment to total customer satisfaction.**

Ask your local Leica Geosystems dealer for more information about your TQM program.

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Product brochure



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