

Leica PowerBox Easy and flexible site positioning



Leica PowerBox

Leica PowerBox GNSS Receivers enter a new dimension in flexibility and versatility for your construction site. The PowerBox is the worlds first System, combining the advantages of a classic Antenna / Receiver with the benefits of a PowerAntenna.

The PowerBox is designed for the toughest machine control applications, where positions for machine control are required; for orientation (e.g. on an excavator), add an additional PowerAntenna.

Use the same components for all off-machine applications, such as base station, pole or site supervisor vehicle solutions.

PowerBox is a scalable positioning System, that grows with your needs: GLONASS, Networking, higher update rate, Base Station use, etc.

Benefits

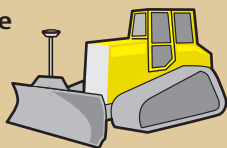
- Scalable GNSS Receiver – various upgrade possibilities (pay for what you need)
- Versatile System
 - Single Position
 - Dual Position upgradeable by adding a SmartAntenna
- Automatic recognition of single or dual antenna
- On-machine GNSS Positioning for all conditions and machines
- Off-machine GNSS receiver as Site Base Station or site supervisor's vehicle
- Latest Leica Technology – High Performance → high reliability → higher productivity
- GLONASS enabled for better Satellite coverage

- when it has to be **right**

Leica
Geosystems

Leica PowerBox Machine, Base, Supervisor... I can do it all!

Machine



Moving dirt under the toughest conditions and with any machine type.

PowerBox gives you an accurate and reliable position for your machine Control or guidance system. Saves you money by completing the job faster and right the first time.

Base Station



PowerBox can be used as a permanent construction site based station.

Saves you money, by having one solution on the machine and the base station. Provides the complete construction site with highly reliable corrections for high precise navigation available from Leica Geosystems.

Supervisor



High precision vehicle navigation required?

Site Supervisors will appreciate the ease of use of the on site navigation.

The PowerBox can even be used as an extra sensor for machine control.

Specifications	
Dimensions	19 cm x 15.5 cm x 8.2 cm (excluding mounting flange and sockets)
Supply Voltage	9 to 30 V DC with voltage peak protection, Fullfilis EN13309
Tracking Technology	SmartTrack+, for advanced GNSS Meas. Technology and multipath rejection.
RTK Technology	SmartCheck+, for advanced, long range RTK with 99.99% reliability
Kinematic RTK Accuracy (phase), after initialisation	Horizontal: 10 mm +1 ppm Vertical: 20 mm +1 ppm
Position output	1 Hz standard, 20 Hz option; with 0.03 sec latency
RTK data Formats	Leica, CMR, CMR+, RTCM v2.x / 3.0, WAAS and EGNOS
Ref. Station Networks	Leica Spider I-Max & Max, VRS and Area correction (FKP), NTRIP (option)
Communication	RS232, RS422, USB prepared, CAN prepared
Shock	ISO 9022
Vibration	MIL 810.F Cat 24
Environmental specifications	IP67



This unique system setup, combined with site-proven Leica technology will save you time and money allowing you to leapfrog the competition.

Upgrade Opportunities

GLONASS	Work in less visible view to sky, like urban canyons
Positioning PLUS	Work with a higher positioning update rate (20 Hz)
Baseline PLUS	Work, no matter how far your base station is
Networking PLUS	Work, no matter you do not have a base station
BaseStation PLUS	Where your PowerBox is used as a base station
PowerAntenna	Where you need Position and Orientation
Site Supervisor's vehicle	When you need high accurate site navigation in your 4-wheel drive



Leica PowerTracker
Tracking sensor



Leica MA 360° Prism
High accuracy target



Leica PowerBox
GNSS Receiver



Leica MNA1202
GNSS Antenna



Leica PowerAntenna
GNSS Receiver



Leica MCP950C
WinCE controller

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Total Quality Management -
Our commitment to total customer satisfaction.

Find out more about our TQM program from your local Leica Geosystems representative.

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