Leica PowerBox
Easy and flexible site positioning

Leica PowerBox

Leica PowerBox GNSS Receivers usher in a new dimension in performance and versatility for your construction site.

Leica PowerBox is designed to exceed the needs of the toughest machine control applications. Vibration, dirt, dust, rain or snow can not stop the PowerBox providing high accuracy uninterrupted data.

Combine Leica PowerBox with Leica PowerAntenna for a unique dual GNSS control solution for use on excavators. Use the same components for all off-machine applications, such as base station, pole or site supervisor vehicle solutions.

Leica PowerBox is a scalable position system, that can grow with your need. GLONASS, Networking, update rate and base station use, can all be configured to provide a tailored solution for your needs.

Benefits

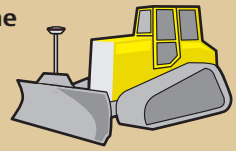
- Scalable GNSS Receiver –
  various upgrade possibilities (pay for what you need)
- Versatile System
  - Single Position
  - Dual Position upgradeable by adding a PowerAntenna
  - Dual Position by adding second PowerBox for Heading in extremely harsh environment
- Automatic recognition of single or 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 improved 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 or mobile construction site base station.

Saves you money by using the same components on and off your machines.
Provides the complete construction site with highly reliable corrections for precise navigation.

Supervisor

High precision vehicle navigation required?

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

Transfer Leica PowerBox from the vehicle to an additional machine or use as a base station if required.

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, Fullfils 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	5 Hz standard, 20 Hz option; with 0.03 sec latency
RTK data Formats	Leica (Lite), 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, 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 Options	
GLONASS	Work with less visible view to sky
Positioning PLUS	Work with a higher positioning update rate (20 Hz)
Baseline PLUS	Work, no matter how far your base station is away
Baseline Xtra	Work up to 5km (3 miles) from base station
Networking PLUS	Work without a base station
BaseStation PLUS	Work with your PowerBox as a base station
PowerAntenna	Work, when you need Position and Orientation
Site Supervisor's vehicle	Work, when you need high accurate site navigation in your 4-wheel drive
PowerBox	Work, when you need Position and Heading in extremely harsh environment

Leica PowerTracker
Tracking sensor

Leica MPR122
360° Prism
High accuracy target

Leica PowerBox
GNSS Receiver

Leica MNA1202
GNSS Antenna

Leica PowerAntenna
GNSS Receiver

Leica MCP950C
WinCE™ controller

TQM ISO 9001 / ISO 14001

Total Quality Management –
Our commitment to total customer satisfaction.

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

Leica Geosystems AG
Heerbrugg, Switzerland

www.leica-geosystems.com

- when it has to be **right**

Leica Geosystems