



# B-PINS

## Backpack Portable Inertial Navigation System

B-PINS is a precise survey tool specifically designed to provide accurate positioning and navigation in GPS denied areas such as under dense vegetation or in urban canyon situations.

B-PINS has no line of sight issues, leading to reduced cutting and easier and safer access for drillers.

### **B-PINS has applications in:**

Land Seismic Surveys  
Forestry Mapping  
Civil Engineering

Pipeline Right of Way Stakeouts  
Wellsite Topographic Surveys



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Zupt delivers operationally aware inertial technologies to improve the productivity associated with high cost operations for oil and gas exploration and field development. These capabilities are offered and supported worldwide.

# B-PINS

## Backpack Portable Inertial Navigation System

The B-PINS is a precise survey tool specifically designed to provide accurate positioning and navigation in GPS denied areas such as under dense vegetation or in urban canyon situations.

Continuous improvements in weight reduction through the use of proven battery technology, processor selection and man-machine interfaces (data collectors) delivers a powerful lightweight solution. The handheld data collector is a field proven Recon PDA. Through the Z-ING software various survey capabilities exist and this software has been developed to deliver standard file formats commonly used in seismic survey software, such as GPSeismic.

The unit has been designed for rugged field applications. The upper shell is molded in lightweight sturdy Kydex® that is shock and crack resistant, impervious to sunlight and other natural elements. The pack can be immersed in water up to 30% of its height. The high-performance inertial sensors integrated into this backpack and Zupt's unique software delivers proven positioning accuracy that is significantly better than the survey tolerances accepted by the international seismic acquisition community.

### SELF CONTAINED SYSTEM INCLUDES:

- High-performance inertial sensors
- Data fusion software
- Hand held data collector - Recon PDA
- Power supply - Li Ion batteries
- Rugged backpack

### CAPABILITIES:

- Lightweight portable solution
- Real-time Positioning under all conditions
- Static RTK GPS/INS integration
- Real-time quality control availability
- Higher production than optical surveys
- Reduced vegetation clearing
- Ergonomically designed
- Minimal environmental impact
- Improved operational safety
- Post-processing - maximum accuracy
- Bluetooth comms to Recon from backpack

### SPECIFICATIONS:

- Over 10 hours operations on a single battery set
- Continuous operations with hot swap battery
- Complete System weight ~17 kg (38 lbs)
- Job file preplot data configured for use in GPSeismic®
- Post processed survey data configured for GPSeismic®
- Operating Temperature -3°C to 55°C
- Storage Temperature -20°C to 90°C

**Increase productivity**  
in GPS denied areas.

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