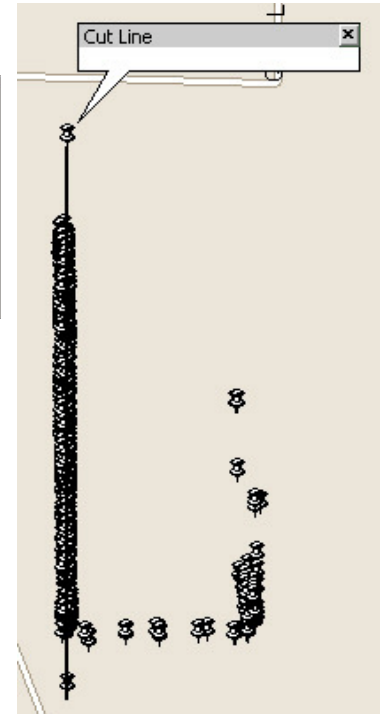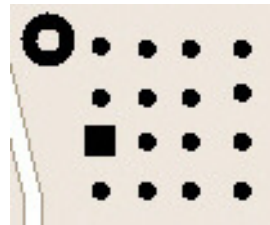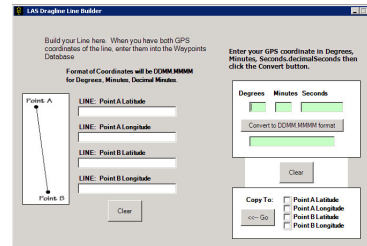# LogicAll Solutions
LLC

Why Choose Our TerraRover GPS Systems?

The LogicAll Solutions (LAS) TerraRover GPS Systems have been developed to provide a tool for users to leverage GPS technology and data acquisition to increase productivity and efficiency at their site.

A Fully Integrated Solution

All of the TerraRover GPS Systems monitor the vehicle's current position and this information is stored as well as displayed on the PC's screen. Each system also allows the user to define waypoints and production lines using GPS coordinates entered into the TerraRover's waypoint database. These waypoints and production lines are displayed on the user's screen in relation to the vehicle's current position, giving the operator real-time position feedback.

Built in Data Logging

All TerraRover GPS Systems have a built in logging function which records the vehicle's current position (latitude, longitude, and altitude) at regular intervals, providing the vehicle owner with the ability to verify where their vehicle has been.

Easy Data Transfer

This tracking information is easily transferred from the TerraRover GPS System by use of a USB flash drive or wireless access.
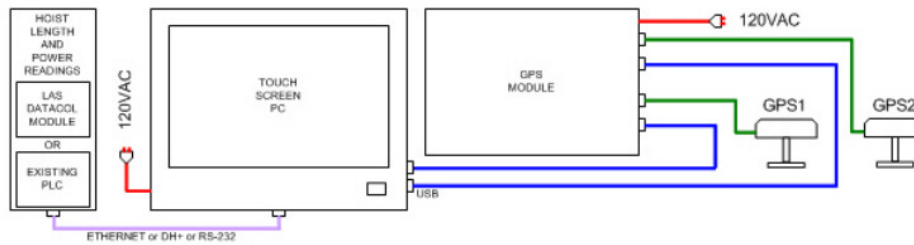
Easy Report Generation

Reporting functions are provided with the systems in the form of a plotting utility and an Excel compatible report. The plotting utility reads the TerraRover GPS System's tracking database and plots pushpin objects on a map, one pin for each logging interval. These pin objects store the GPS coordinates and the time the position was recorded, so supervision can use the newly plotted map to verify that the vehicle performed correctly.

Standard Hardware

The TerraRover GPS Systems consist of a GPS Module, a ruggedized PC running Windows XP, and cables which are connected between the GPS antennas and the GPS Module, along with USB cables which are run from the GPS Module to the PC.

High Accuracy GPS Receivers

The GPS receivers used with the TerraRover systems are made by Trimble Navigation and have sub-meter accuracy. This accuracy is necessary for the TerraRover GPS Systems to be truly effective tools.

Effortless Operator Interface

The PC unit supplied with the system is ruggedized and has a sunlight readable touch screen to make the system ultimately useful to the vehicle's operator. The LogicAll Solutions software is designed for use on touch screen PCs and all buttons are large enough to be easily used by the operator.
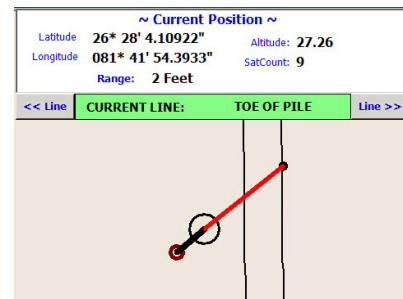
Intuitive Use of Waypoints and Production Lines

If your operator can see where they are in relation to a waypoint or a production line, you have eliminated the potential for the operator guessing where they should have their vehicle. A dredge operator can steer the vehicle along a designated production line, eliminating the need for them to pick a landmark to aim for. A dump truck driver can follow a series of waypoints across an open field, giving them the tool they need to get from the loading station to the dumping location with ease.
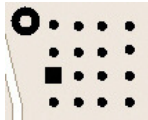
Increased Efficiency and Productivity

The Dragline Monitor LT system consists of a fanless rugged PC and a GPS module with two antennas. The GPS antennas are placed on the cab's roof either in line with the dragline's boom or perpendicular to it. Our software monitors the receivers and with the coordinates provided, the PC will display the current orientation of the boom. The software also allows you to define a cutline and a line for the pile, and these two lines are displayed on the screen.

By following the feedback on the boom's position in relation to the lines, the dragline operators can create a straight cutline over time. Having a straight cutline helps to minimize the loss of material that naturally happens when the material is out of the dragline's reach. The display on the PC also has a button which allows the operator to mark the boom's position on the screen – this helps the operator to dig more consistently as he can see on the screen where he should be digging – this also minimizes the amount of material left behind. If your dragline operates at night, having the feedback on the screen helps the operator maintain efficiency. The system is set up to allow operators to log in and the total bucket count and production information is recorded for each operator. A report is available with all of this valuable production information and the system is set up to transfer the log files to a USB flash drive with the click of a button. The Dragline Monitor LT™ system is a great tool for increasing efficiency and productivity and the potential return on investment is nothing short of amazing.
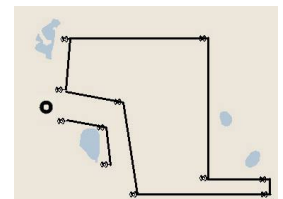
Safety

The BlastRig Monitor system provides a safer way to run through a blast pattern by allowing each drilling location to be displayed on the PC's screen. With the rig's drill position being actively updated on the screen, the rig operator will no longer need personnel on the ground to spot for them.

The TerraRover system can display hazards and no-entry zones to help the operator stay clear of danger. Waypoint designated lines may be used to control traffic flow and give drivers navigational aid to make it from point A to point B by taking the easiest or safest route.

Contact us by phone or e-mail today!
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