

EziField

Foresoft is pleased to announce EziField, a completely NEW and portable version of CDS designed to operate on Palm Size PCs.

Improve your overall efficiency as you collect, code and view the data in the field with a direct interface from EziField on a Palm Size PC to your Total Station and low cost GPS.

Currently data collection has two major shortcomings with low cost GPS and Total stations:

- ☛ facilities to code the points as they are picked up are limited or non-existent, or require too many key presses.
- ☛ you are “working in the dark”, because you can't see the job until you get the data back to the office.



These arise from the fact that the data collection procedure was designed to fit what the machine could do, not what you needed to do.

EziField will overcome both of these shortcomings and allow you to code with ease, and see the job as it progresses.

One Picture is Worth a Million Numbers

The quickest way to verify you are collecting enough data, or the right data is to look at the picture, as seen in the screen shot above.

No matter what shape the job might be, you can arrange the windows to make sure you see the data as it is captured, while always having a full view of the job.

Zoom and Pan facilities are provided to allow you to see greater detail in areas of interest.

No more traveling back to the base camp or the office to find you haven't picked up all the data points you need.

No more stumbling around aimlessly in the undergrowth because you didn't have a clear picture of where you need to stake out the point.

Coding Made Easy

Code the point by picking from the list or typing on the keyboard, or combine both, the choice is yours.

EziField allows you to create your own Code Lists, in English or any other language you choose, and easily apply those codes to the point by one touch of the pen.

To improve your speed in the field, you can group the codes in the order you choose to ensure that those most commonly used are always displayed.

In addition, new or different codes can be entered individually using the virtual keyboard of your Palm PC. When you need to work for different clients, who each want their own particular codes used, the Code Libraries can save you time, effort and mistakes.

Calculations on Call

The most commonly used calculations are included so you can check as you go with routines for:
Traverse Check & Close
Bearing & Distance Calc
Radiations
Intersect Bearings an/ or Distances
Chainage/Station & Offset Calcs
Parallel Offset Calcs.

Route Calcs allow quick and simple calculation of road and highway alignment, complete with spirals from horizontal IP's.

Model as You Measure

EziField allows you to form the triangulated model and the contours at your selected interval, so you can see whether the model 'looks right' as the job progresses.

A quick look at the contours will let you decide whether you have enough coverage of the area, so you can move on with confidence.

You can select the points to include in the model, and the contour interval.

Roads on the Run

EziField lets you upload or enter the design alignment, the design section templates and vertical design grading.

Section points and catch points can then be generated and staked on demand at any chainage or station you need.

Stake on the alignment or at any offset you choose.

Single template for both cut and fill conditions.

Superelevation and variable lane widths are easily accommodated with simplified tabular entry..

Stake points in any order to tame difficult terrain.

Simple Data Transfer

Using the 'synchronization' facility supplied with the Palm PC the job can be automatically transferred to or from your desktop computer.

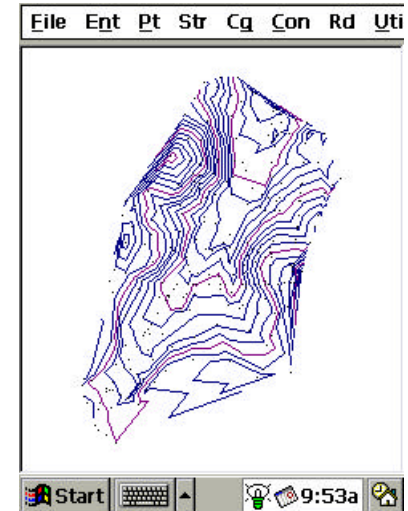
No more cryptic commands to worry about, simply plug your Palm PC into the desktop and watch the data transfer, both ways if necessary.

Once the data is on your desktop PC; use it directly in CDS, or save the job as a DWG file for use in Autocad or some other CAD package, or export to your favorite land surveying or GIS package.

Common Windows Interface

EziField uses the same menu system as CDS on your desktop, which means there is no learning involved.

Whether under Windows98, ME, 2000 or XP on the Desktop, or WindowsCE or Pocket PC on your Palm PC, the screens you see are the same.



Overview

EziField operates on Palm Size PC's using either Windows CE or Pocket PC operating systems.

EziField uses the same job database and menu structure as CDS operating on the desktop.

EziField interfaces directly to low cost GPS units and to Total Stations and Digital Levels from the major Survey equipment manufacturers.

Operation of the instrument is controlled from EziField on the Palm PC, and the raw data is transferred to your screen and displayed, together with the coordinate values of the point.

You can then **Feature Code** the point. This is done either with a single 'tap' to select a code you have pre-defined in a code library, or by using the 'virtual keyboard' on the Palm PC to type in whatever code you require.

Once you elect to store the point it is immediately displayed on the graphic screen, giving you instant pictorial verification that the point is correctly located.

You can connect points with strings as you collect them to create 'instant maps'.

EziField also incorporates commonly needed **COGO** routines to allow you to close a traverse, calculate and inverse points, intersect bearings and distances to locate points, and offset calculations.

EziField also incorporates routines to calculate a TIN, and form a **Contour Model** of the surface, instantly, in the palm of your hand.

Save time and money by verifying that you have collected sufficient data to accurately represent the surface before you move the instrument.

Stakeout with confidence - EziField allows you to load in the picture of the job to be set out so you can quickly identify the points you need to Stake.

For **Road Stakeout** EziField allows you to calculate the stake point 'on the fly' from a design alignment and design templates. Stake what you need, when you need it all from the palm of your hand.

System Requirements

Palm PC running either WindowsCE or PocketPC with minimum of 8Megabytes Ram
Serial (RS-232) Cable to connect to instrument

GPS

EziField should work with any GPS unit that supports the NEMA interface and can output a GGA string.

EziField has been known to operate with the following units;

- ✓ Magellan (2000 XL , GPS Tracker &ColorTRAK)
- ✓ Garmin (GPS 12, GPS 12XL etc)
- ✓ Javad/Topcon

and should work with any similar unit regardless of manufacturer.

The measurement and recording is initiated directly from the Handheld, and values can be averaged.

The measured values are displayed for verification before coding and storing, and the point is displayed on the screen

Total Station

Ezifield supports most Total Stations produced by the major manufacturers such as;

- Leica
- Pentax
- Nikon
- Sokkia
- Topcon
- Trimble

Your Local Dealer is:



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EziField

**Survey Data Collection
&
Interactive Mapping
In the Palm of your Hand**



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