

## Collect

**Ezicad** interfaces with data collectors and total stations from all leading manufacturers to ensure speedy and efficient processing of the field data you collect.

You can establish your own feature code library to separate data into layers, making management simple.

The feature codes let you *automatically draw lines* and insert symbols on the points you collect.

Data from other parties is quickly incorporated, either by importing drawings in industry standard DWG or DXF format, or by transferring coordinated points in ASCII format.

## Calculate

**Ezicad** gives you a full range of **Cogo** tools to allow any layout, from a simple traverse, to a subdivision, to footing details to be designed quickly, in 3D if necessary.



Ezicad will help you calculate an entire subdivision or stakeout a single house.

- Traverse entry with side-shot & radiations and closure & adjustment.
- Intersections by two bearings, bearing and distance, two distances etc.
- Curves with circular & spiral/transition routines.
- Areas including hinge/parallel adjust to defined area
- Road Layout allows you to automatically calculate and store side strings from a finished alignment.
- Interchanges & road junctions are easy to handle.
- Inverse/stakeout calculations that produce either a printed report or data collector files for field set out.

## Contour

**Ezicad** allows you to model surfaces from random points, form contours, produce annotated contour plans, interpolate profiles and sections and calculate volumes.

You may select the points you need from the database by any combination of point number, height, point code or layer, or you can define windows or polygons of interest on the screen using the mouse

**Ezicad - Collect Calculate Contour**

The points you select are assigned to a particular surface, and you can use multiple surfaces within the one job for maximum processing flexibility.

Volumes, either between surfaces or using average end areas, can be easily produced, whether on a simple stockpile, a large scale bulk earthworks project, or a road or utility project.

## Analyze

Ezicad uses a 3D+ database custom designed for the storage of spatial data used in engineering and survey tasks.

Sophisticated routines are provided to allow you to select the required data using multiple overlapping search keys.

Quality Assurance routines allow you to compare field points against their design position with reporting for those out of tolerance either in position or height

Models formed in Ezicad can also be viewed in 3D and shaded or colored according to height or slope ranges to allow simple slope analysis.

## Adjust

Traverses, whether closed loops or open ended, can be adjusted with a variety of methods including Bowditch, Compass, Crandal & Least Squares.

Selected points can be cut and pasted, rotated, translated, transformed or altered as needed to ensure the data works the way you want it to.

Height adjustments can be performed on all or some of the points in a database.

## Automate

Commonly used designs, in both 2D and 3D, can be stored as “Structures” and inserted into new projects to save time and avoid mistakes.

Street intersections, road side strings and cul de sacs can all be calculated ‘automatically’ once you specify the parameters.

Design Surfaces can be contoured, and merged with natural



Ezicad will assist you to stake out pilings and foundations, and analyze design conformance

**Ezicad - Analyze Adjust Automate**

surfaces where needed to allow you to produce “As Constructed” drawings easily and automatically.

Design pads or platforms can be automatically adjusted to achieve balanced earthworks.

## Design

You can design in either 2 or 3 dimensions using the tools that Ezicad provides.

Housing subdivisions and industrial estates are typically laid out in a 2D arrangement and then the roads and other utilities servicing them are designed in 3D.

Ezicad facilitates 3D design by letting you combine

- individual point calculation at grade
- string grading including vertical curves
- templates with ‘ezi-sense’ that reacts to changing ground conditions according to parameters specified.



Ezicad will help deliver progress claims and as-built plans & reports on all types of road & earthwork projects

## Draw

**Ezicad** allows you to produce

- plats
- subdivision layouts
- annotated contour plans
- profiles and section drawings

directly to any Windows printing device.

You can insert borders, text, and symbols onto the plan within Ezicad before you print it.

You can also create a DWG file for further enhancement in any compatible CAD package.

## Deliver

Using Ezicad to improve your work efficiency will allow you to deliver results and a significant improvement to your bottom line.

Whether your client requires a plan, a volume report or a digital drawing on disc or via email, **Ezicad** will help you deliver on time.

**Ezicad - Design Draw Deliver**

## Overview

**Ezicad** is an integrated Windows® based program designed for field professionals who need to use CAD in its fullest sense, not the limited way offered by existing computer aided drafting programs.

Ezicad expands your effectiveness by providing you with an easy to use tool to assist you:

- ◆ Collect Calculate Contour
- ◆ Analyze Adjust Automate
- ◆ Design Draw Deliver.

**Ezicad** provides you as an Engineer, Surveyor, Designer, Planner, Earthmover or Contractor with a **powerful, low cost**, Windows® based calculation & design system capable of processing raw field data through to the final plan or quantity report in fields such as :

- ☞ Construction Design and Stake Out
- ☞ Road and Highway Design
- ☞ Housing and Industrial Estate Design
- ☞ Cadastral Surveys
- ☞ Topographic Surveys
- ☞ Detail and Identification Surveys
- ☞ Bulk Earthworks
- ☞ Volume Calculation
- ☞ GIS Data Capture & Base Plans



## System Requirements

Windows® 95,98,NT, ME or 2000  
800x600 screen resolution (recommended)  
256 colors (recommended)  
16 Mb Ram (32Mb recommended)  
10 Mb Free on Hard Disc  
Mouse  
CDROM or Web access for installation  
Printer



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