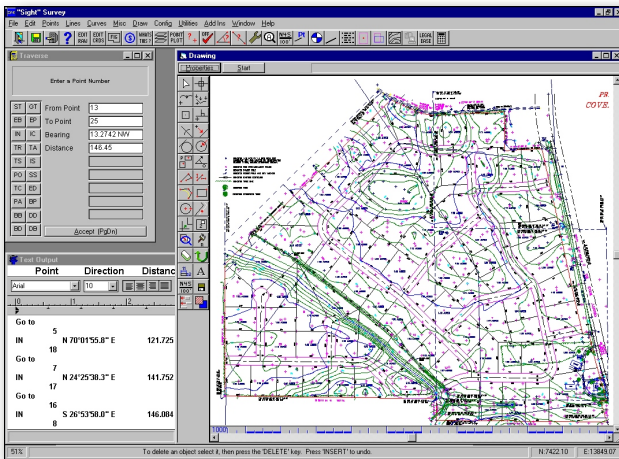# *What do you look for in a COGO program?*

*Speed? Accuracy? Ease-of-use? Or perhaps you're
looking for a full array of COGO and CAD features...*

*Who produced the software? Does the company matter?   Are they solid and dependable,
with a proven track record as a leading supplier of surveying software?*

What about support? Will you reach a live technician, or get lost in "hold heaven..."

*If you're suffering from eye strain, look no further.
You're holding the answer right here in your hands...*

"Sight" Survey 3.0™
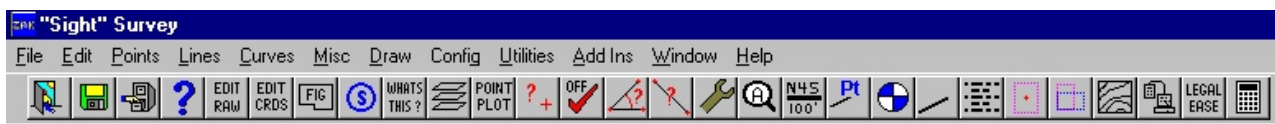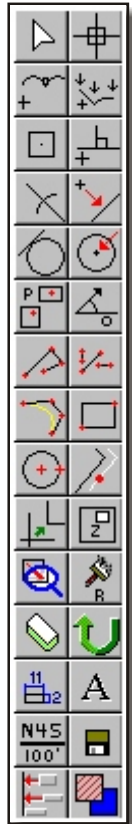## Professional for Windows

WHAT IS "SIGHT" SURVEY 3.0?

"Sight" Survey 3.0 is a fully three dimensional coordinate geometry package containing *all* the tools you need to solve your day to day COGO problems! With a virtually unlimited capacity for points *(over 3.5 trillion)*, *"Sight" Survey 3.0* is capable of projects from the smallest lot survey to the largest subdivision. And, if you're wondering about the word *"Site"* being misspelled as *"Sight,"* rest assured we didn't misspell it. Why? Because *"Sight" Survey* is more than just a COGO program. It includes a full-featured CAD program that allows you to compute your data and produce your drawing at the same time! *With "Sight" Survey 3.0, you can SEE your work in progress!*

EASE OF USE

Meticulous attention to the user interface makes *"Sight" Survey's* ease of use stand out. Not only is it easy to learn, but it's also easy to remember. *"Sight" Survey* solves COGO problems the way you think!

Complete data entry prompting means that you will never see an unexplained data prompt. Entry error checking will prevent you from entering data in a wrong format. Bearing and distance recall, point name and offset tables, a pop-up calculator, and data file selection menus are but a few of the many tools available. Not only that, but the Data Entry window is always on the screen so you can jump around from field to field within the window, making it easy for you to fix data entry errors.

Worried about complicated routine codes? Forget it! Even though *"Sight" Survey 3.0* includes over 150 COGO commands and over 200 CAD commands, we use easy to remember codes like **TR** for Traverse, **IN** for Inverse, and **ZA** for Zoom All. But you really don't even need to remember the codes! Just use your mouse or function keys to access any of the 10 COGO menus or 9 CAD menus and select a routine from there. You may also select from 118 commonly used routines by clicking on the 78 toolbar buttons, including your own customizable toolbar onto which you may assign up to 20 of the COGO routines!

COMPATIBILITY

Realizing that there may be times when you need to exchange data with colleagues who are not using a Simplicity product, we also provide something that our competitors won't give you.... **Compatibility!**

Survey 3 and *Survey 4* files, **as well as COGO data files from over 30 other vendors**, will be seamlessly read and written by *"Sight" Survey 3.0*.

Drawing files are directly compatible with *TrueCAD* and *AutoCAD*, and DXF file exchange allows you to exchange drawings with virtually every other CAD program available today!

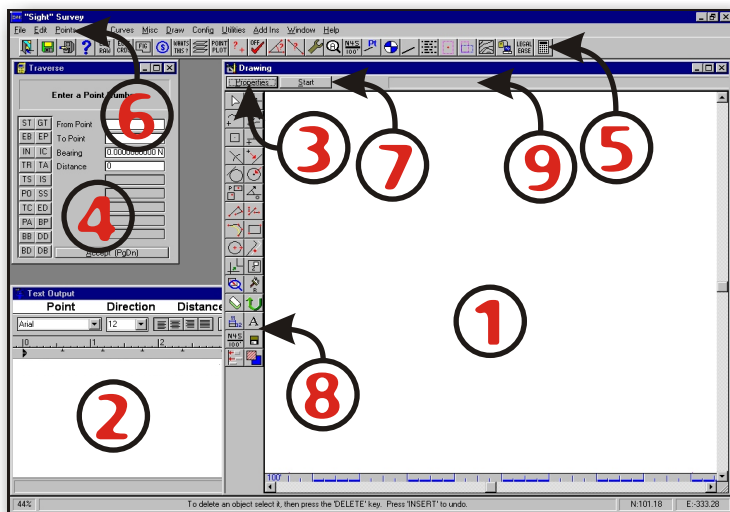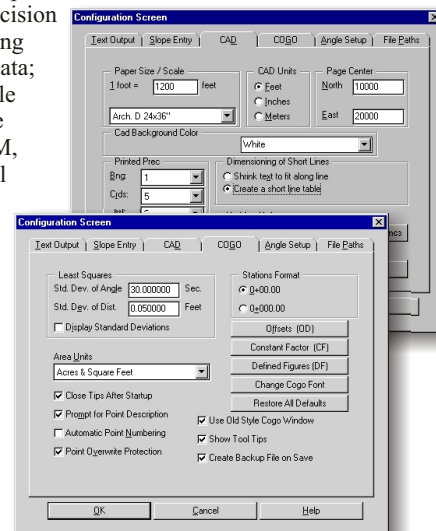*"Sight" Survey 3.0* **is also fully metric**, including support for metric stationing, area calculations in square meters and hectares (or cuerdas) and angular entries in grads.

VALUE - SINCE 1983!

Power, flexibility, ease of use, compatibility. It all means nothing if it's not priced fairly. Since we began in 1983, Simplicity has worked to provide *"Satisfaction Guaranteed"* solutions with your bottom line in mind. Offering affordable, well thought out applications that save you time and make you money, *that's value!*

FLEXIBILITY

"Sight" Survey 3.0 has 23 *Configuration Menus* to customize operating and CAD parameters! A wide range of options exist to tailor every aspect of *"Sight" Survey* to your liking, including: angular input and output defaults; printed precision of all text and drawing data; printed input data; automatic slope angle prompting and slope reduction type (EDM, stadia, leveling, total station, etc.), least squares adjustment parameters, user-customizable tool bar and more!

THE "SIGHT" SURVEY SCREEN

Shown to the left is an actual *"Sight" Survey 3.0* screen capture. The right-side window (**1**) is the **Drawing** window in which elements (lines, points, etc.) are drawn as they are computed. The viewing scale resizes dynamically as the drawing changes. The lower left window (**2**) is for **Text Output**. This window is fully scrollable so you can review the calculations for your entire job, no matter when the work was performed. When you access the window directly, it pops to the display foregroung. The **Properties** window (not shown but accessed by button **3**), contains drawing settings such as line color, text font & size, etc. The upper left window (**4**) is for **Data Entry**. All prompts and instructions change according to the routine selected, but all the prompts specific to the routine are shown at once. You may use your mouse or keyboard to jump around the prompts. The **Top Toolbar** (**5**)at the top of the screen contains 47 commonly used COGO and general program functions. The **Menu Bar** (**6**)**,** with pull-down menus for COGO, lies above the toolbar. The **Start Button** (**7**)**,** opens a fly-out menu containing nine CAD menus. The **CAD Toolbar** (**8**)**,** accesses 51 commonly used CAD functions. The **CAD Command Line** (**9**)**,** displays prompts used by the CAD functions.

"Sight" Survey 3.0 Professional - Feature Chart

TOP Toolbar

Shown to the right are the buttons from the Top Toolbar. Many buttons access two functions, one with a left-click of the mouse, and another with a right-click. (Note: The Top Toolbar layout is actually horizontal, but the illustration here is vertical in order to more easily list each button's functions.)

Exit / Configure File Paths	Measure a Distance / Slope Config
Save a Job / Save Job As	CAD Config / COGO Config
New Job / Open Job	Scale Drawing to Fit / Zoom Scale
Status / System Info	Dimension Lines
Edit Raw Data	Add End Point Labels
Edit Coordinates / List Coordinates	Add Symbols / View Symbols
Define Figures	Draw Lines
Set Offsets / Set Constant Factor	Text Output / Text Output Config
Query Entity / Selection Filter	Re-Center Paper / Show Paper Border
Layer Control / Layer Override	Paper Orientation
Point Plot / Print Coordinates	Contour It!*
Get a Point / Get a Point String	Collector Connector* Send/Receive
Pick Points	LegalEase* / Write a Legal File
Measure an Angle / Angle Config	Pop-up Calculator

*Optional module required.

COGO Menus

Listed below are the functions available through the use of "Sight" Survey's pull-down COGO menus. The command lists are arranged by menu.

File Menu
New Job
Open Job
Save Job
Save Job As
Print Preview
Adjust Margins
Print Text
Plot Drawing - Fit to Page
Plot Drawing to Scale
Print Coordinates
Import Coordinates
Import Text
Import Merge Coordinates
Export Coordinates
Export Text
Copy Job
Delete Job
Last Used Job List
Exit

Edit Menu
Undo
Cut
Copy
Paste
Edit Coordinates
Clear Text Output
Edit Original Raw Data

Curves Menu
Inverse Curve
Obtuse Curve
Three Point Curve
Inscribe Arc -
   Tangent from the PC
   Tangent from the PI
   Non-Tangent from PC
   Tangent from PC with Offsets
   Tangent from PI with Offsets
   Non-Tangent from PC with
     Offsets
Traverse Arc
Traverse Arc with Offsets
Curve Offset
Best Fit Curve

Points Menu
Enter and Assign
Enter Elevation
Identify Point
Enter Station
Start At
Go To Point
Enter Backsight Point
Enter Backsight Bearing
Point Plot
List Coordinates
Blank Point Scan
Renumber Points
Copy Block of Points
Clear Coordinates
Clear Point Names
Clear Point Stations
Define Figures
Edit Default Descriptions

Lines Menu
Inverse
Field Data Inverse
Radial Inverse
Deflection Inverse
Radial Stake Out
Side Shots
Offset
Traverse
Traverse with Offsets
Traverse Close
Balance Angles
Compass Rule Adjustment
Crandall Rule Adjustment
Transit Rule Adjustment
Least Squares Adjustment
Enter Diagonal
Inverse with Stations
Traverse with Stations
Traverse Right of Way
Best Fit Line

Add Ins Menu
Access to Contour It!
Access to Collector Connector
Access to LegalEase

Misc Menu
Arc-Arc Intersection
Arc-Bearing Intersection
Arc-Distance Intersection
Bearing-Arc Intersection
Bearing-Bearing Intersection
Bearing-Distance Intersection
Distance-Arc Intersection
Distance-Bearing Intersection
Distance-Distance Intersection
Perpendicular Offset
Offset Intersection
Line Station and Offset
Arc Station and Offset
Area Printout
Point to Point Area
Pre-determined Areas -
   2 Sides Parallel
   Line Through a Point
   Radial Sides
   2 Lines Through a Point
Measure a Distance
Measure an Angle
Coordinate Transformations -
   Rotation Pt & Angle known
   Two Pts in Each System known
   US Survey Feet to Meters
   US Survey Feet to Int'l Feet
   Meters to US Survey Feet
   Meters to Int'l Feet
   Int'l Feet to Meters
   Int'l Feet to US Survey Feet
Pop-up Calculator

Configuration Menus
Text Output
Slope Entry
CAD
COGO
Angle Setup
File Paths
Side Tool Bar Buttons
Adjust Screen Colors
Show Status Bar
Show Tool Bar
Check Registration

Draw Menu
Snap Modes
Select Object
Select Distance
Select Bearing
CAD to COGO
Get an Arc
Get a Line
Get a Point
Get a Point Series
Quick Pick CAD->COGO
Draw Supplemental -
   Short Line Table
   Curve Table
   Scale Bar
   North Arrow
   Coordinate List
   Component Table
Label an Angle
Layer Override
Change Paper Orientation
Show Paper Border

Utilities Menu
Circular Curves
Curve by Deflections
Curve by Tangent Offsets
Curve by Chord Offsets
EDM Slope Reduction
Stadia Reduction
Spiral Curve Solution
Vertical Alignment
Universal Triangle

Windows Menu
User Arrangement #1 & #2
Set User Arrangement #1 & #2
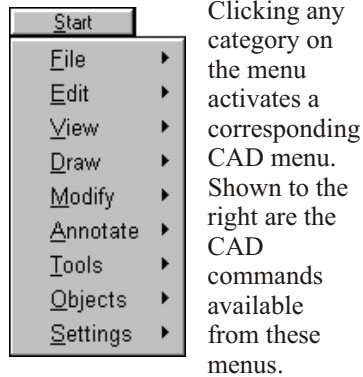Cascade
Tile
Select Window

Help Menu
Contents
Current Topic
Search for Help On
How to Use help

START Button - CAD Menus

Clicking the **Start** button drops down a listing of CAD menus. Clicking any category on the menu activates a corresponding CAD menu. Shown to the right are the CAD commands available from these menus.

File: New Drawing; Open Drawing; Load Drawing; Save Drawing; Save Drawing As; Save Settings; Load Symbol File; Import ASCII Text; Import Bitmap; Export ASCII Text; Print; Zoom Print; Print Setup; Repair Drawing File; Purge Redundant Elements; Execute Macro; Load Title Block.

Edit: Undo; Redo; Cut; Copy; Paste; Delete; Select; Select by Polygon; Selection Filters; Clear Selection; Select Normal; Select Nodes; Move to Front; Move to Back.

View: Zoom Window; Zoom Last; Zoom Next; Zoom All; Zoom Sheet; Zoom Scaled; Zoom Selected; Zoom View; Define Zoom View; Magnify; Demagnify; Pan; Long Pan; Redraw; Split Window; Join Window; Clear Drawing Window.

Draw: Line (Chained); Lines (Pt to Pt); Point; Rectangle; Arc 3 Point; Arc Radius; Circle; Circle Diameter; Circle 2 Point; Line Arc Line; Parallel Line; 1 Parallel Element; Around a Perimeter; Ellipse; Part Ellipse; Circular Spline; Cubic Spline; Polyline; Polygon; Symbol; Sketch; Draw Building Location.

Modify: Stretch; Move; Move Point; Mirror Image; Scale; Repeat; Drop; Rotate; Trim; Fillet; Chamfer; Divide/Extend; Join Lines; Cut and Rub; Snip; Move Selected to New Layer; Copy Selected to New Layer; Ellipse2Arcs.

Annotate: Text Line Entry; Arc Text; Edit Text; Move Text; Scale Text; Change Text Parameters; Set Alignment; Align; Horizontal Dimension; Vertical Dimension; Slope Dimension; Angular Dimension; Radial Dimension; Survey Dimensions; Ordinate Dimension; Dimension Arc; Edit Dimension Properties; Cut Dimension Line; Alter Dimension; Add Arrow; Add Balloon; Add/Rem Text Bubble; Enter Hatch/Solid Fill; Adjust Existing Hatch; Draw All Hatch; Draw Selected Hatch; Hatch -> Lines; Label Coordinates.

Tools: Jump to Grab All Cursor; Jump Grid; Jump Any Intersection; Jump Point; Jump Circle Center; Jump Near Element; Last Fixed; Mid Point Jump; Ratio Jump; Move to Coordinates; Polar Move; Show Nodes; Dump Data; Grid; Measure; Polygon Area; Query Entity; Tidy Polygons; Expand.

Objects: Begin New Object; Group into Object; Explode Object; Show Objects; List Objects; Make Symbol; Change Name; Change Parent; Change Hook Point; Update Objects; Select Current Object; Blink Current Object.

Settings: Drawing Settings; Unit Settings; View Settings; Re-Center Paper; Snap Mode; Change Magnify Factor; Line Defaults; Polyline Defaults; Parallel Defaults; Set Text Defaults; Dimension Defaults; Surveying Dimensions; Set Arrow Defaults; Set Balloon Defaults; DXF/DWG Conversion Settings; Virtual Memory Settings; Digitizer Settings; Layer Control; Set Current Layer; Set Visible Layers; Delete Layer; Working Layers.

Properties

Clicking the **Properties** button activates the Drawing Properties window. From here, you set the attributes of the various elements that make up your drawing. Click on any item (left column) to open a pull-down menu of available choices.

COGO Drawing Properties	☒
Object Color	14 - Black
LineType	Continuous
Line Width	01
Label Type	Point Number
Label Place	Quad #1
Label Angle	+0° - Horizontal
End Pt. Sym	Dot
Text Place	Dist / Bng
Text Font	Arial
Text Size	10
Text Color	08 - Blue
Text Bold	No
Text Italic	No
Symbols Lyr	SYMBOLS
Coords. Lyr	COORDINATES
Coord. List Lyr	COORDLIST
Elevations Lyr	ELEVATIONS
ASCII File Lyr	ASCIITEXT
Line Lyr	LINES
Pt. Name Lyr	PTNAMES
Pt. Number Lyr	PTNUMBERS
Points Lyr	POINTS
Sup. Table Lyr	SUPTABLES
Line Annot Lyr	LINETEXT
Station Lyr	STATIONS

CAD Toolbar

The **CAD Toolbar** contains 30 button that activate 51 different functions. Nearly every button activates two functions, one when clicked with the left button, and another when clicked with the right button.

Select Entity / Selection Filters	Pan / Long Pan	Zoom Window / Zoom Previous
Select Nodes / Clear Selection	Move Polar / Move to Coordinates	Redraw Drawing / Zoom Sheet
Freehand Cursor / Snap Menu	Draw Chained Line / Line Defaults	Delete Selected / Clear Drawing
Snap to Nearest Point / Snap Menu	Draw Line Segments / Line Defaults	Undo / Redo (drawing operations)
Grab All Snap Mode / Snap Menu	Draw Polyline / Polyline Defaults	Dimension Menu / Dimension Defaults
Snap Perpendicular / Snap Menu	Draw Rectangle / Draw Polygon	Add Text / Text Defaults
Snap to Intersection / Snap Menu	Draw 2 Point Circle / Draw 3 Point Arc	Survey Dimensions / Survey Defaults
Snap to Nearest Element / Snap Menu	Draw Parallel Lines / Draw Parallel Line	Save Drawing / Open Drawing
Snap to Tangent / Snap Menu	Trim 2 Elements / Trim One to Another	Align Objects / Alignment Defaults
Snap to Center Circle or Arc / Snaps	Access Zoom Menu / Zoom All	Hatch & Fill