

Specialized Add-On Module to CAD Software

What is GEOsCAD2 ?

GEOsCAD2 is an essential add-on CAD drafting application tool for ZWCAD & AutoCAD Software, helping users to avoid tedious routines, repetitive manual work while strictly adhering to industry requirements.

GEOsCAD2 offers automation or semi-automation of drafting tools which helps create excellent drawings, reduces errors, and saves time.

Who needs GEOsCAD2 ?

Developed with more than 20 years of end-users industry experience, GEOsCAD2 was developed especially for the Geomatics Land Surveying industry, where some part of the drafting toolsets does apply for some other industries such as the Civil Engineering, Town Planner...

CAD Platform Supported

- ◆ GEOsCAD2 (Std / Pro) For ZWCAD :
 - Prerequisite Installed ZWCAD (2018 - 2022)
- ◆ GEOsCAD2 (Std / Pro) For AutoCAD :
 - Prerequisite Installed AutoCAD (2018 - 2022)

Efficiency
Accuracy
Productivity

Tools to Accelerate Your Efficiency, Accuracy and Productivity

Add-on can be used in ZWCAD and AutoCAD Software

Short Learning Curve with Manual Guide & Videos

Top 5 Reasons to Use GEOsCAD2

Affordable Cost-Effective Add-on

Permanent & Portable License

Developed By
cadfocus
Made in Malaysia

G2 Traverse Line – Auto / Manual Plot

G2 Auto / Manual Labelling Tools

G2 Auto Lot Numbering

G2 Polygon, Area, Coordinates & Bearing Distance Table

G2 Auto Area, Bearing & Coordinates Labelling

G2 Auto / Manual Insert Boundary Marks Symbols

G2 Traverse Misclose Report & Adjustments

- Traverse Misclose Report
- Bowditch Adjust Misclose
- Transit Rule Adjust Misclose
- Crandall Adjust Misclose
- PO and New Adjust

Ori Bearing	Ori Dist	New Bearing	New Dist	Mis Lat	Mis Dep
79°01'44"	38.491	79°52'14"	38.916	-1.241	1.346
121°36'27"	14.591	121°48'24"	14.855		
85°13'47"	19.679	85°59'54"	19.926		
110°49'02"	13.221	111°21'14"	13.447		
83°19'21"	13.284	84°08'53"	13.445		

G2 Text & Points Tools

Text & Points Tools

- Display Text from points
- Spot Level
- Insert Spot Height with IL
- Interpolate Spot Height
- Set Point Elevation to Zero
- Change Datum for Spot Level
- Insert Point symbol
- Text In Box..

G2 Coordinates Transformation & Export to Google Earth

New! (v.22)

- Transformation of Coordinate
 - GDM Cassini to WGS84
 - WGS84 to GDM Cassini
 - GDM Cassini to Google Earth
 - Ketau Datum
- Ketau Cassini to RSO
- RSO to Ketau Cassini
- RSO to MRT
- MRT to RSO
- Ketau Cassini to Google Earth

Other locations: Johor, Kedah, Kelantan, Melaka, N Sembilan, Pahang, Perak, Perlis, Penang, Selangor, Terengganu.

G2 Spot Level - (Texts & Point)



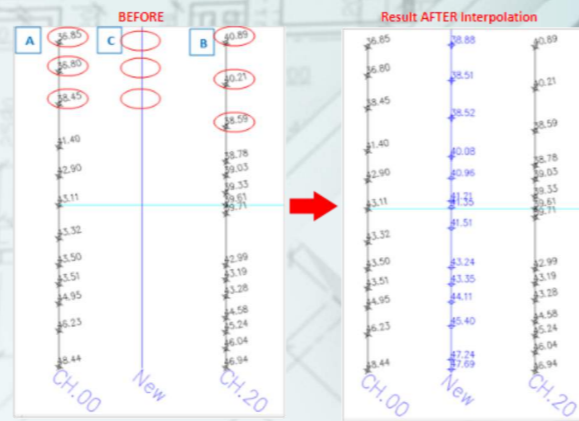
G2 Pile Survey

GEOSCAD2 Engineering

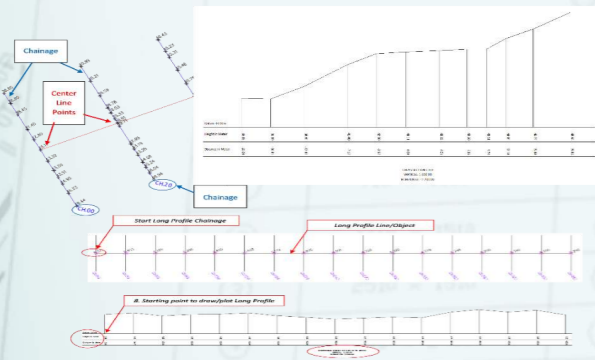
- Plot Cutting Civil Engineer's Symbol
- Plot Cutting Surveyor's Symbol
- Other Lots Digitizing
- Pile Survey
 - Set Pile Number
 - ASCII Output for XY
 - ASCII Output for Brg Dist X Y
 - Pile Deviation Asbuilt

-Set Pile Number
-ASCII Output X,Y
-ASCII Output For Bearing Distance
-Pile Deviation Asbuilt

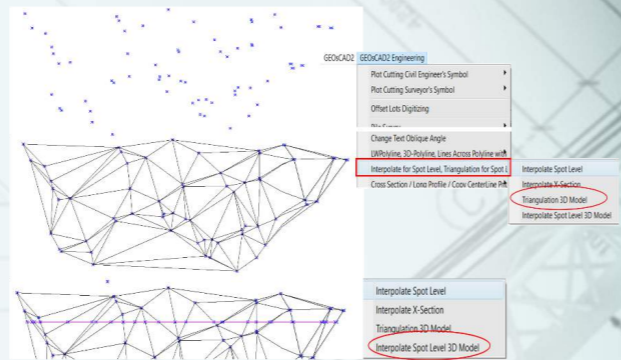
G2 Interpolation - (Spot Level, Cross Section & 3D Model)



G2 Cross Section & Long Profile



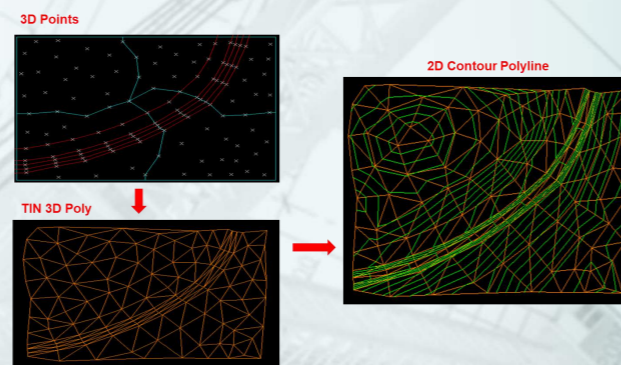
G2 Point to Triangulation (TIN) Model



G2 GEOSCAD2 Topographic (Pro Version Only)

1. Auto Generate Cross Section Line
2. Generate TIN from 3D Points
3. Auto Interpolate Spot Level from 3D TIN with Fix Distance.

G2 GEOSCAD2 Topographic (Pro Version Only)



FEATURES LIST	GEOSCAD2 v.22 - DESCRIPTION	STD	PRO
Licensing	Dongle (USB) & Permanent	✓	✓
Compatibility / Platform	ZWCAD 2018 –2022 (Std / Pro Module) AutoCAD 2018 – 2022 (Applicable to GEOSCAD2 for AutoCAD Version only)	✓	✓ (Pro only)
Bearing and Distance (Auto / Manual Labeling)	- Base on single or group selection of Lines (Entity) - Base 2-Points or Polygon (Close Boundary) - Reverse Bearing , Add Bearing Spacing..	✓	✓
Area (Calculate & Labeling)	- Automatic (Batch) - Semi-auto by selecting a Close Boundary. - By selecting multiple Points - Measurements Units (M2, Ha, Ek, Kp)	✓	✓
Table	- Bearing Distance / Coordinate Table - 2D Polyline / 3D Polyline Vertex points	✓	✓
Lot Number / Number (Labeling)	- Automatic (Batch) with User define Option - Manual (Individual) Add (PT / PTD / PTB / PLOT / A / C...) To Lot Number Add Prefix or Suffix for Number / Text	✓	✓
Road Width (Labeling)	- Vertical / Horizontal - Meter / Feet	✓	✓
Traverse Line (Functions)	- Auto Plot Boundary / Stn.No. (Bearing & Distance) - Radiate from Station - Misclose Report - Bowditch / Transit / Crandall / Po and New Adjust - Link Survey Traverse Adjust Misclose	✓	✓
Insert Symbol Tools	Boundary Marks (Trim / Without) Cutting Symbol – Civil Engineer Style (Fill / Without) Cutting Symbol – Surveyor Style (Fill / Without) Points Symbol (LP / EP / TP / MH / HWP...) Insert Stone Number	✓	✓
Plot House Corner	Plot House Corner	✓	✓
Spot Level	Change Datum (Text / Point Level) Add IL to Spot Height Auto Create Spot Level Text From XYZ Points	✓	✓
Points	Add, Interpolate, Change Datum Auto Create XYZ Points from Spot Level Text and Vice versa Label Coordinates Points Generate Points from LW Polyline Generate Points From 3D Polyline	✓	✓
Triangulation (TIN)	Generate TIN 3D Model (Line) from 3D Points Generate TIN 3D Model (3D Polygon) from 3D Points	o	✓
Interpolation	3D Spot Level - Base on 2 Reference 3D Points Intersect 3D Points – Base on Line Drawn Across TIN 3D Model (Line)	✓	✓
Cross Section & Long Profile	Generate Cross Section from Line drawn across XYZ-points Generate Long Profile from Line drawn across XYZ-points Copy Center Line Point – Select and Create 3D Points with a single Line drawn across XYZ-points	✓	✓
Pile Survey	Set Pile Number ASCII Output for X Y / Bearing Dist X Y Pile Deviation As-built	✓	✓
Others	Polyline - Multi B-poly Line - Break Lot Lines	✓	✓
TEXT	Rotate Text (Align / Vertical /Horizontal) Change Text Oblique Angle	✓	✓
Unit Conversion	For Distance & Spot Levels (Feet / Meter / Link / Inches) For Point (Feet / Meter / Link) For Area (Acre / Hectare / Sq Meter / Sq Feet)	✓	✓
Transformation Coordinate (For West Malaysia States)	GDM 2000 Cassini to WGS84 WGS84 to GDM 2000 Cassini New! GDM 2000 or Ketau Cassini export to Google Earth (*.kml) New! Cassini to RSO RSO to Cassini RSO to MRT MRT to RSO	✓ (v.22)	✓ (v.22)
Label Coordinate	Standard / Sabah / Sarawak Format	✓	✓
Topo Survey	Break line, Swap 3D Triangles, ... Generate 2D Contour Polyline & Label Contour TIN functions : 3D Spot Level with equal space / distance, .. Basic Volume - Calculation	o	✓
Road Design Tools	Insert Chainage & Cross Section Line	o	✓
Color Chart	TIN / Contour / Slope base on X/Y/Z coordinates	o	✓

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