User manual to application ZWGeo 2019

# ZWGeo 2019



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# **ZWGeo 2019**

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# **1** Description

Application ZWGEO 2019 is application (add-on) which help in surveyor work, in following area:

- 1 Mark points on project by name and number
- 2 Add possibility of save points in external text files
- 3 Add possibility of load points from external text files

### **2** Requirements

ZWGeo is an application (add-on) for ZWCAD 2019. It works with the most recent version of ZWCAD 2019.

### **3** Support

Technical support is available from 8 am to 4 pm from Monday to Friday, we invite you to contact us by e-mail or telephone.

E-mail: pomoc@zwcad.pl

Phone: 33 474 04 03

### **4** Installation

Application installs automatically after run downloaded installation package.

Default application is installed in folder C:\Szansa\ZWGEO\2019\EN. In time of installation, it's possible to set different installation path. This is not recommended especially in Windows Vista, Windows 7, Windows 8, Windows 10. Build in UAC function in this systems lock some functions of application.

After correct installation and run ZWCAD. Application ZWGEO 2019 should load automatically. On ZWCAD window, there should be toolbar as below.



If for some reasons application and menu will not be loaded automatically, You can load it manual following instructions on chapter Manual load of application .



# **5** Activation of application

### Activation must be done on user account with administration rights.

By 30 days, User can test application without need of activation. If You want to use application after this period You should buy it. During realization of order there will be mail sent to customer with Activation code.

To activate application You should go to path C:\Szansa\ZWGEO\2019\EN, or other where application have been installed, find file Aktywator\_2019.exe. In operating systems such as Windows Vista, Windows 7, Windows 8 and Windows 10, Right button click on its icon and choose **"Run As Administrator"**.

Application	Module	Version	Licence type	Licence state	Expiring	The code
ZWNesting			Section and	Active	07-08-2019	
ZW Traffic	All	2019	Unknown	Unknown		
ZWTraffic	Lite	2019	Unknown	Unknown	<u></u> e#	
ZWTextile	All	2019	Unknown	Unknown	<u></u> 3	5. 
ZWTextile	Base	2019	Unknown	Unknown		
ZWTextile	Plot	2019	Unknown	Unknown		
ZWTextile	All	2019	Unknown	Unknown	<u>100</u> 45	
ZWToolbox	All	2019	Unknown	Unknown	3	
ZWMetric	All	2019	Unknown	Unknown		
ZWBlocks	All	2019	Unknown	Unknown	77.0	
ZWGeo	All	2019	Unknown	Unknown		
ZWDrill	All	2019	Unknown	Unknown		
ZWDraft	All	2019	Unknown	Unknown		

Please click on "Activate".

A choice between activating the appliaction online or offline will be present.

Activation		
Online	Offline	
	Activation code	
	Activate	
		Close

### 5.1 Online Activation

**Please note:** Online activation requires an Internet connection. If there is no internet connection available please use the Offline Activation (**Błąd! Nie można odnaleźć źródła odwołania.** Offline Activation).

In the field "Activation code" please type in the information sent during realization of the order, afterwards click on "Activate".

An information window will pop up confirming the activation.



Once ZWCAD is launched, all functions of the program should be loaded and available.

#### 5.2 Offline Activation

In the " <b>Offline</b> " tab	Online Offline	additional steps are requi	ired to complete	e the activation.
	Activation		- • ×	
	Online Offline			
	Activation c	code		
		equest file		
	2:			
	3: Activate	e		

In the field "Activation code" please type in the information sent during realization of the order.

Close

ctivation code		
Activate		

Afterwards it is necessary to click on "Create a request file", it will create an additional file which needs to be saved on the desktop or in any other directory of the computer.



The file needs to be sent in a form of an attachment to, <u>pomoc@zwcad.pl</u> and a reply will consist of response file which then needs to be loaded in the activator:

2: ....

Response file needs to be saved on the computer and its localization needs to be determined by clicking on the following icon

Once the response file is loaded, click on "Activate".

2.	Activate	
3.	Activate	

An information window will pop up confirming the activation.

X
Congratulations - activation has been carried out successfully
ОК

Once ZWCAD is launched, all functions of the program should be loaded and available.

### 5.3 Transfer of a license

The license of UISZANSA applications in the form of a program code can be transferred to a different workstation.

In order to transfer the license to a different computer, it is necessary to return the active license and once that is done, it will be possible to activate the license on a different Workstation.

### 5.3.1 Returning the license

License return is available in the UISZANSA Activator window.

Application	Module	Version	Licence type	Licence state	Expiring	The code
ZWNesting	All	2019	No. No. or and	Active	07-08-2019	THE R D. LEWIS CO.
ZWTraffic	All	2019	Unknown	Unknown		
ZW Traffic	Lite	2019	Unknown	Unknown	<u></u> ei	
ZWTextile	All	2019	Unknown	Unknown	<b></b>	5
ZWTextile	Base	2019	Unknown	Unknown		
ZWTextile	Plot	2019	Unknown	Unknown		
ZWTextile	All	2019	Unknown	Unknown	<u></u>	
ZWToolbox	All	2019	Unknown	Unknown	1	S.
ZWMetric	All	2019	Unknown	Unknown		
ZWBlocks	All	2019	Unknown	Unknown	775.0	
ZWGeo	All	2019	Unknown	Unknown	<u></u>	
ZWDrill	All	2019	Unknown	Unknown		
ZWDraft	All	2019	Unknown	Unknown		

Once "**Return**" has been clicked on, an additional window will appear in which it will be possible to return the license, either online or offline.

License re	turn	
Online	Offline Activation code Return	
		Close

#### 5.3.1.1 Online return

**Please note:** Online return requires an Internet connection. If there is no internet connection available please use the Offline return (3.1.2 Offline return).

To carry out the online return, please type in your license details followed by clicking on "Return".

Once confirmed, the license will be usable on a different workstation.



#### 5.3.1.2 Offline return

In the **"Offline**" tab **Online** Offline additional steps are required to complete the return of a license.

Online	Offline	
	Activation code	
1:	Create request file	
2: 3:	Return	

In the field "Activation code" please type in your license details.

Activa	ation code	•		
_				

Afterwards it is necessary to click on "Create a request file", it will create an additional file which needs to be saved on the desktop or in any other directory of the computer.

4.	Constanting
11	Create request file

The file needs to be sent in a form of an attachment to, <u>pomoc@zwcad.pl</u> and a reply will consist of response file which then needs to be loaded in the activator:



Response file needs to be saved on the computer and its localization needs to be determined by clicking on the following icon

Once the response file is loaded, click on "Return"



Once ZWCAD is launched, all functions of the program should be loaded and available.

# 6 ZWGEO Commands

6.1 Mark points 🕂

Command: ZWGEO:MARK

Command let user mark points by insert point entity and text containing series and number in points clicked by User.

After run command User will be asked to input series and start number. After click each point in clicked point inserted will be point and text where number will be increased by 1 in each point.



# 6.2 Save points

Command will export coordinates of points into text files. After run command, application will display window:

Image: Solid         Annotate         Image: Solid         Annotate         Image: Solid         Annotate         Image: Solid         Annotate         Image: Solid         Image: Solid <t< th=""><th>Manage Export Express Online</th><th>H · · · · · · · · · · · · · · · · · · ·</th><th>- 88 518 9</th><th>ByLayer • — ByLayer • — ByLayer • Properties 52</th><th>Paste</th><th></th><th>_ 🗆 ×</th></t<>	Manage Export Express Online	H · · · · · · · · · · · · · · · · · · ·	- 88 518 9	ByLayer • — ByLayer • — ByLayer • Properties 52	Paste		_ 🗆 ×
2 1 1 2 3 4 4 4 6 2 5 4 4 4 5 4 4 5 4 5 5 5 5 5 5 5 5 5 5	2 3 4 5 6 7 8 Points expo	1	×				
🖌 🚔 domiarkatne.dwg 🛛 🚔 Fence.dwg	Punkt i tekst.dwg X A_42 A_41	501.4674 171.2757 0.0000 607.2802 174.4943 0.0000	_ • <b>∢</b> ⊳	Calculator		Properties	×
0 A_30 A_29 A 13	0 0 440	629,0060 230,0158 0.0000 521,5839 193,8051 0.0000 538,0794 311,2865 0.0000 421,8060 351,5195 0.0000 534,750 240,8758 0.0000	a x	2 Q 🗈 🦄 🖿		No selection	- @ .d, ₩
	A.35	275.3579 182.9432 0.0000 275.2579 182.9432 0.0000 252.4251 225.3949 0.0000				General	<b>~</b>
	0 0 A.34 A 12 A_27 A.32	305.1303 247.3160 0.0000 247.1948 316.9191 0.0000					ByLayer
0	A 31 A 30	254.8391 271.4558 0.0000 248.4018 353.9335 0.0000					0
A_18	A_29 A_28	298.2907 348.7032 0.0000 390.4243 279.5024 0.0000		Number Pad<<			ByLayer
0	28 A_27 A_26	458.0157 318.5284 0.0000 585.9567 331.4030 0.0000					1
Ă_31	A_25 A_24	631.8223 332.6100 0.0000 640.6735 268.6395 0.0000					— ByLayer
0 0	A.23 A.22	630.6153 199.0364 0.0000 544.1144 190.9898 0.0000 435.0829 197.0248 0.0000					0
A_33 A_5	0		•				
° 0	A_11 Data tomo		*			View	<b>~</b>
A_34 A 20	No. 10	> Y	v				462.2554
0 – A 19	0 Ž	* Z *		Scientific<<			256.4248
	A 21		x [Space]				•
Y A 35	Columns a	parator	Tobaral				239.8118
↑ ^_~~ 0 A_9							677,8277
		Save	Oose	Variables>>			
l> x		5410	Cost	Units Conversion>>		Misc	<u> </u>
H 4 b H model artuszt arteszz	0	0		Text Calculate>>			Yes
Command: Command: ZMGE0:Export				Text Calculate??			
Command:							Tes ~
Select points to export: Specify opposite corner:							
238.5229, 361.1702, 0.0000 🗏 🧮 ե	. 0 . 2 2 5 = 1 8						🔅 🔯

In this window there is a list of points selected from drawing. If You want to select new points , click point [+] and application will ask You to select points. You can remove points from this list by [-].

In this window You can also define format of file, columns order and separator. And also You should write or select path to file where points will be stored. After click point [Save], points will be saved.

Command: ZWGEO:EXPORT

A 42	501.4674	171.2757	0.0000		+
A 41	607.2802	174.4943	0.0000		
A 40	629.0060	230.0158	0.0000		
A 39	521,5839	193.8061	0.0000		
A 38	538.0794	311,2865	0.0000		
A_37	421.8060	351.5195	0.0000		
A_36	503.4790	240.8788	0.0000		
A_35	275.3579	182.9432	0.0000		
A_34	252.4251	226.3949	0.0000		· ·
A_33	305.1303	247.3160	0.0000		
A_32	247.1948	316.9191	0.0000		
A_31	254.8391	271.4558	0.0000		
A_30	248.4018	353.9335	0.0000		
A_29	298.2907	348.7032	0.0000		
A_28	390.4243	279.5024	0.0000		
A_27	458.0157	318.5284	0.0000		
A_26	585.9567	331.4030	0.0000		
A_25 A 24	631.8223 640.6735	332.6100 268.6395	0.0000 0.0000		
4_24 4_23	630.6153	268.6399	0.0000		
A_23 A_22	544.1144	190.9898	0.0000		
4_22	435.0829	197.0248	0.0000	~	
Data fo Numbe X Y Z		->	Number Y X Z	v v	
				×	
Column	s separator			[Space]	
File					
	Save			Clos	

# 6.3 Load points from file $\Box^{\clubsuit}$

Command: ZWGEO: IMPORT

Command inserts into drawing points defined in text files.

After run command application will display window:

data format	
Columns order	YXZND ~
Columns separator	[Space]
Data file	

In this window User may select format of file with data, columns order and separator of columns, also User may select file with data. After click button [Draw], application will insert points, numbers and blocks symbols if contained on data file.

# 6.4 Save text to external file

Command: ZWGEO:ExportText

By this command You can export values of texts into external text file. After run command it's enough to select Texts or MTexts and path to text file where data will be stored.



# 6.5 Inserts all rasters images from folder 🏸

Command: ZWGEO:RastersFromFolder

Insert all raster images from selected folder into project.

📃 Ten komputer	^
> 🔮 Dokumenty	
>	
> 🎝 Muzyka	
> 📰 Obrazy	
> Pobrane	~
<	>

# 6.6 Inserts many selected raster images

Command: ZWGEO:MultiRaster

Function will let You select many raster images, and insert it automatically using positioning file.



# 6.7 Insert fence markings

Command: ZWGEO:Fence

Draw fance by multiple copy of selected object along selected path. To draw such fence You should:

- 1. Draw symbol which should be copied
- 2. Draw axis of fence (lines or polylines)
- 3. Run command
- 4. Select symbol to copy
- 5. Pick base point
- 6. Write distance between symbols, by write numeric value or click two points
- 7. Select fence objects, the same drawn on point 2.



On picture above You can see project before and after run command.



Command : ZWGEO:MarkCoordsWithLeader

By this command You can mark points in project by descsribe coordinates X and Y.

Application will ask You to pick point and insert description block in picked point, If You click next points, there will be leader connecting first click point with the rest of points, and description block will be always on last picked point.

# 6.9 Insert array of crosses

Command : ZWGEO:MarkCrosses

Command will draw array of crosses in range – windows selected by two oposite points.



In the command bar You have to specify distanse between cross marks.

# 6.10 Mask entities lebow MText 🏋

Command : ZWGEO:Wipeout



This command help You to make drawing more readable by covering objects under MText by wipeout. All You need to do is run command and select MText entity. Everything under this MText will not be visible, but it will there like line on picture above, will not be split into two separate lines but only not visible in rande under MText.

Rome Solid Annotate	Insent Views Tools S⊠ ⊕ ⊞ [ S 🗱	Manage Export Express		Waabda/Desktop/2WGeo 2015/Wipeout.dk ■	🕑 <mark>—</mark> Вуш — — — — — — — — — — — — — — — — — — —	yer - 0,00 m - ByLaye operties		Paste V Clipboard			_ D >
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🔻 🛃 domiarkatne.dwg	Fence.dvg	Punkt i tekst.dwg	😹 Wipeout.dwg	🗙 👼 Zidgeo_switch.dwg	( 🕨 🛛 Cal	culator				Properties	×
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Command:	000000 🎟 🖽 L										\$\$
-5.84056941, 48.31059353, 0.00	000000 🗰 🖽 L										\$ G

# 6.11 Command : ZWGEO:MoveAbove

This command is very usefull with connection with previous one. In such example You should run command ZWGEO:MoveAbove and select those entities, which should be over the other ones, and then select one entity which should be at the bottom of draw order.



# 7 ZWGEO Switch

Function bar responsible for the creation of groups of objects by specifying theis visibility.



# 7.1 Turn on\off group **12345678**

After run the command, indicate the items that will be one of the first group of objects. After selecting the items and then approve the Enter, previously selected objects will not be visible. To enable it You have to run the command. In this way, the User can quickly turn on and off groups of elements in the drawing.



The User can made eight groups of objects in the drawing, they are formed in an analogous manner.



# 7.2 Turn on\off all groups ON OFF

Functions allow You to turn off or turn on all previously defined object groups 1-8.

# 8 Check update ZWGEO 2019

You have the ability to check whether it has the latest version of the overlay, which is under license therefrom.

	Welcome to the ZWGEOUpdater Update Wizard
	This will update ZWGEOUpdater version v.2018.1 on your computer.
	It is recommended that you close all other applications before continuing.
	Click Next to continue, or Cancel to exit Setup.
ZWGEO	2

After clicking "Next" program will download and install a newer version of the overlay, if one appeared.

# 9 Calculation module

# 9.1 Rectangular offset

Offsets square is a function used to measure the details terrain.

After activating the function, indicate two points on the base line.

Then please specify the distance and offset

The location corresponding to the entered value will be inserted point.





# **10 Additional information**

### 10.1 After install application icons are not visible.

After install ZWGEO and run ZWCAD, icons should be visible. If You use Ribbon interface, Icons may not be visible, in this case run command \_Toolbar.

elect Toolbars		×
Menu Group	Toolbars	
APP+ ZWCAD ZWGEO_2018_0		<u>R</u> ename <u>D</u> elete
Large Buttons		
0		OK Cancel

On displayed window please activate tab "Toolbars". In list please select ZWGEO, and next please mark field ZWGEO 2019. After close window, Toolbar should be visible.

If on this window, there is no ZWGEO 2019, application is not loaded. In this case please follow steps from point: Manual load of application .

### 10.2 Manual load of application

After installation of application, it should be automatically load to ZWCAD. Function should be available and toolbar with icons should be visible. If for some reasons it's not load automatically, You should load in manually. To do it, You should follow steps:

1. Run command \_appload and You will see window:

d Application Files		
Application Files:	∑ <u>S</u> ave updates	
		<u>A</u> dd File
		<u>R</u> emove File
		Load
		<u>U</u> nload
		Add to startup suite
		Startup suite
		<u>0</u> K

- 2. Click Add File.
- In new open window change default extension to .zel. than find path where application have been installed. Default its C:\Szansa\ ZWGEO\2019\EN, select file ZWGEO.zelx and click Open.
- 4. On appload window click Load to load application,
- 5. If You want application to be loaded automatically each time You run ZWCAD, please select ZWGeo.zelx on list of files to load, and click button Add to startup suite.

### 10.3 Manual load menu.

1. In command line please type "\_\_menuload" ZWCAD will display window.

Loaded Customization	<u>U</u> nload	1
ZWCAD ZWGEO_2018_0 3	<u></u>	1
File Name:	Load	2
no rrano.	 Bro <u>w</u> se	1

2. Please press button [Browse] [1]. In new window.

V Select Customization File			×
← → 👻 🛧 📙 « OS (C:) → Szansa → ZWGEO → 2018 → EN → Menu	ٽ ~	Przeszukaj: Menu	P
Organizuj 👻 Nowy folder			0
<ul> <li>★ Szybki dostęp</li> <li>▲ OneDrive</li> <li>Ten komputer</li> <li>ZWGeo.cuix</li> <li>• Grupa domowa</li> </ul>			
<u>N</u> azwa pliku:	~	Customization files(*.cuix) Otwórz Anu	

Please find file "ZWGEO.cuix". Default location of this file is:

C:\Szansa\ZWGEO\2019\EN\Menu**\**, but You may change it in time of installation.

- 3. Select file and press [Open].
- 4. Load file by press "Load"[2].
- 5. On list [3] new item will be display, that confirms corret load of menu.
- 6. By button "Close"[4] You may close window. On main window of ZWCAD, new toolbar with icons will be display.