### TCP-Digital Terrain Model V8.5 Module Features Comparison

# aplitop

POINTS AND POINT CLOUDS		Professional	Surveying	Images	PointCloud
Import and export from/to different file formats Import LiDAR files	-	•			-
Import laser scanner files					-
Creation from drawing entities					-
Creation from alignment and cross-sections					
Conversion of AutoCAD point clouds	-	-			
Point editing	-	-			
Automatic drawing from point codes					
	_	-			
Rotate and move points	•	•			
View points in natural color					-
View points by height, intensity or category					•
Allows to set the percentage of points shown					•
View in stereo mode					•
3D box selection					•
SURFACES	Standard	Professional	Surveying	Images	PointCloud
Import and export from/to different file formats	•	•			
Breakline drawing and editing	•	-			
Breakline error detection	•	•			
Creation of surfaces from points	•	•			-
Creation of surfaces from 3D polylines	•	•			
Interactive surface editing	-	-			
Drawing as 3D faces, solids, polylines or meshes	-	-			
Creation of esplanades from terrain or esplanade height		-			
Earthworks by cut or fill head or foot					
Final ground calculation					
Fill holes and repair triangulation errors	-	-			
Optimum esplanade height calculation		-			
MESHES	Standard	Professional	Surveying	Images	PointCloud
Calculation from points	-				
Calculation from surfaces	-	-			
Calculation from contours					
Mesh as current surface					
Drawing of meshes as 3D faces, polyfaces or image	_	-			-
Mesh smoothing		-			-
Remove peaks		-			
Fill holes	-	-			
Import of Web Coverage Services (WCS)	•	•			
CONTOURS	Ctondord	Professional	Cumuning	Images	PointCloud
CONTOURS			Surveying	Images	PointCloud
Contour generation from surface	•				•
Contour generation from meshes	•	•			
Contour editing	•	•			
Contour labeling automatic, manual or by direction lines	•	•			
Labeling of special contours	•	•			
Elevation of polylines to contours	•	•			
Contour smoothing	•	•			
Contour generalization		•			
Contour filtering		•			
Contour interpolation		-			
Contour splitting and joining	-	•			
Special height contours					
Contour separation	-	-			
Splines conversion		-			
Elevation error detection					
Import GIS files	-				
Export GIS files	-				
Import of Web Feature Services (WFS)	-	-			
	_	-			
HORIZONTAL ALIGNMENTS	Standard	Professional	Surveying	Images	PointCloud
	Standard	Professional	Surveying	Images	
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	Standard	Professional			

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Quick volume calculation•Area and volume reports•Cross-sections measurements report•Roadbed layers measurements report•Volume by simple template•Volume by zones•Mass diagram•Work units database•Life cycle analysis database•Assignment of work units to earthworks•Assignment of work units to drawing entitites•Work units report•Material execution budget report•	Definition of ditches Definition of slopes Definition of roadbeds Definition of valls and structures Definition of geology Assignment of templates to stations Conversion of templates from drawing Plan view Reinforcements STAKEOUT Drawing and editing of stakeout stations Points stakeout Stakeout with respect to an alignment Points calculation and analysis Layers stakeout Simple template stakeout Point analysis on alignment and terrain Elevations report Vertices report CUANTITY TAKE-OFF Volumes by meshes difference Volume by cross-sections difference	Standard	Professional	Surveying	Images	PointCloud
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Volume by simple template       Image: Constraint of the second of the sec	Definition of ditches Definition of slopes Definition of roadbeds Definition of walls and structures Definition of geology Assignment of templates to stations Conversion of templates from drawing Plan view Reinforcements STAKEOUT Drawing and editing of stakeout stations Points stakeout Stakeout with respect to an alignment Points calculation and analysis Layers stakeout Lines stakeout Simple template stakeout Point analysis on alignment and terrain Elevations report Vertices report CUANTITY TAKE-OFF Volumes by meshes difference Volume by parcels Volume teport Quick volume calculation Area and volume reports	Standard	Professional	Surveying	Images	PointCloud
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Work units database       Image: Constraint of work units to earthworks       Image: Constraint of work units to earthworks       Image: Constraint of work units to roadbed layers       Image: Constraint of work units to roadbed layers       Image: Constraint of work units to drawing entitites       Image: Constraint of work units report       Image: Constraint of work units to drawing entitites       Image: Constraint of work units to drawing entitites       Image: Constraint of work units report       Image: Constraint of work units to drawing entitites       Image: Constraint of work units report       Image: Constraint of w	Definition of ditches Definition of slopes Definition of roadbeds Definition of valls and structures Definition of geology Assignment of templates to stations Conversion of templates from drawing Plan view Reinforcements STAKEOUT Drawing and editing of stakeout stations Points stakeout Stakeout Lines stakeout Lines stakeout Lines stakeout Simple template stakeout Point analysis on alignment and terrain Elevations report Vertices report Volume by meshes difference Volume by arcels Volume reports Cross-sections measurements report Volume by simple template	Standard	Professional Professional Professional	Surveying	Images	PointCloud
Life cycle analysis database       Image: Cycle analysis database       Image: Cycle analysis database         Assignment of work units to earthworks       Image: Cycle analysis database       Image: Cycle analysis database         Assignment of work units to roadbed layers       Image: Cycle analysis database       Image: Cycle analysis database         Assignment of work units to oradbed layers       Image: Cycle analysis database       Image: Cycle analysis database         Assignment of work units to drawing entitites       Image: Cycle analysis database       Image: Cycle analysis database         Work units report       Image: Cycle analysis database       Image: Cycle analysis database       Image: Cycle analysis database         Material execution budget report       Image: Cycle analysis database       Image: Cycle analysis database       Image: Cycle analysis database	Definition of ditches Definition of solpes Definition of roadbeds Definition of walls and structures Definition of geology Assignment of templates to stations Conversion of templates from drawing Plan view Reinforcements <b>STAKEOUT</b> Drawing and editing of stakeout stations Points stakeout Stakeout with respect to an alignment Points calculation and analysis Layers stakeout Lines stakeout Simple template stakeout Point analysis on alignment and terrain Elevations report Vertices report <b>QUANTITY TAKE-OFF</b> Volume by meshes difference Volume by parcels Volume reports Quick volume calculation Area and volume reports Cross-sections measurements report Roadbed layers measurements report Volume by simple template Volume by sones	Standard	Professional Professional Professional	Surveying	Images	PointCloud
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Assignment of work units to roadbed layers <ul> <li>Assignment of work units to drawing entitites</li> <li>Work units report</li> <li>Material execution budget report</li> <li>Image: Image: Im</li></ul>	Definition of ditches Definition of solpes Definition of roadbeds Definition of walls and structures Definition of geology Assignment of templates to stations Conversion of templates from drawing Plan view Reinforcements <b>STAKEOUT</b> Drawing and editing of stakeout stations Points stakeout Stakeout with respect to an alignment Points calculation and analysis Layers stakeout Simple template stakeout Point analysis on alignment and terrain Elevations report Vertices report <b>QUANTITY TAKE-OFF</b> Volumes by meshes difference Volume by cross-sections difference Volume by parcels Volume neport Quick volume reports Cross-sections measurements report Roadbed layers measurements report Volume by simple template Volume by cones	Standard	Professional Professional Professional	Surveying	Images	PointCloud
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Consumptions and emissions report	Definition of ditches Definition of slopes Definition of roadbeds Definition of walls and structures Definition of geology Assignment of templates to stations Conversion of templates from drawing Plan view Reinforcements <b>STAKEOUT</b> Drawing and editing of stakeout stations Points stakeout Stakeout with respect to an alignment Points calculation and analysis Layers stakeout Simple template stakeout Point analysis on alignment and terrain Elevations report Vertices report <b>QUANTITY TAKE-OFF</b> Volumes by meshes difference Volume by cross-sections difference Volume by cross-sections difference Volume by parcels Volume report Quick volume reports Cross-sections measurements report Roadbed layers measurements report Volume by simple template Volume by simple template Vork units database Life cycle analysis database Assignment of work units to arathworks Assignment of work units to drawing entitites Work units report	Standard	Professional Professional Professional	Surveying	Images	PointCloud

### TCP-Digital Terrain Model V8.5 Module Features Comparison

# aplitop

MAPS/RENDER	Standard	Professional	Surveying	Images	PointCloud
Route by terrain					
Route by road		•			
Elevation map		-			-
Slope map		-			
Visibility map	-	-			
Customizable color palettes	-				-
Material management					
Insertion of 3D objects	-	-			
Export to KML, 3DS, SKP, DAE		-			
Import from Google Earth (KML)		-			
IMAGES	Standard	Professional	Surveying	Images	PointCloud
Insertion of georeferenced images	•	-			
Insertion of pictures with location				-	
Insertion of UAV pictures					
Insertion of images from WMS services	-	-		-	
Change resolution of image				-	
Change size of image				-	
Flip and rotate image				-	
Adjust brightness, contrast, hue, saturation and gamma of image				-	
Delimit image					
Cut and paste images					
Georeference images					
Update georeferencing	-			-	=
Distort image					
View EXIF information				-	
PLOTS		Professional	Surveying	Images	PointCloud
Import of plots in shape, LandXML, GML formats	•	-			
Creation of plots from polylines	•	•			
Creation of plots from points	•	•			
Creation of plots from drawing		-			
Definition of islands	•	•			
Definition of building and other constructions		-			
Dimensioning of plots					
Labelling plots	-	-			
Plot report		-			
Plot plans		=			
Divide plots		-			
Join plots		-			
Export plots to shape, LandXML, GML, DA formats		-			
BIM	Standard	Professional	Surveying	Images	PointCloud
Export surfaces to IFC	-	-			
Export portburger to IEC					
Export earthworks to IFC		•			
Export earthworks to IFC Export alignments and roadbed layers to IFC					
	•	_			
Export alignments and roadbed layers to IFC	-	•			
Export alignments and roadbed layers to IFC Import surfaces from IFC	-	•			
Export alignments and roadbed layers to IFC Import surfaces from IFC Import alignments from IFC View road IFC files	•	•			
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