Tunnel Software
Feature Comparison

PROJECT DEFINITION	TcpScancyr Avanced	TcpScancyr Basic	TcpTunnel CAD
Horizontal alignment definition	■	■	■
Vertical alignment definition	■	■	■
Superelevation definition	■	■	■
Template definition	■	■	■
Import alignments in LandXML format	■	■	■
Import alignments in InRoads format	■	■	■
Import alignments in MxRoads format	■	■	■
Support of spiral and self-crossing alignments	■	■	■

POINTS	TcpScancyr Avanced	TcpScancyr Basic	TcpTunnel CAD
Import points in ASCII format	■	■	■
Import points in GSI format			■
Import points in Faro FLS format	■	■	
Import points in Leica PTS/PTX format	■	■	
Import points in Leica HDS 4500/6000 FZS format	■	■	
Import points in Leica Nova MS-50 format	■	■	
Import points in LAS/LAZ format	■	■	
Import percentage of points	■	■	
Export points to ASCII format	■	■	
Export points to PTS format	■	■	
Export percentage of points	■	■	
Filter by chainage	■	■	
Filter by alignment offset	■	■	
Filter by alignment elevation difference	■	■	
Filter by distance to template	■	■	
Filter by angle	■	■	
Manual filter	■	■	
Symbology by real color	■	■	
Symbology by intensity	■	■	
Symbology by distance to project template	■	■	
Symbology by elevation difference	■	■	
Symbology by in/out of template	■	■	
Point analysis considering elevation	■		■

VISUALIZATION	TcpScancyr Avanced	TcpScancyr Basic	TcpTunnel CAD
Plan view	■	■	■
Front view	■	■	■
Left/right view	■	■	■
Orthogonal view	■	■	■
Perspective view	■	■	■
View along aligment	■	■	■
Zoom in/out	■	■	■
Zoom extension	■	■	■
Zoom window	■	■	■
Pan	■	■	■
Orbit	■	■	■

TEMPLATES	TcpScancyr Avanced	TcpScancyr Basic	TcpTunnel CAD
Numerical definition by coordinates	■	■	
Import templates in DXF format	■	■	■
Import templates in TcpTunnel format	■	■	■
Import templates in TPE format	■	■	■
Import templates from cross sections	■	■	
Template insertion point control	■	■	■

	TcpScancyr Avanced	TcpScancyr Basic	TcpTunnel CAD
Destroy height	■	■	
Superelevation behaviour configuration	■	■	■
Support for multiple layers	■	■	■
Control points	■	■	
Fixed, variable and superelevated vectors	■	■	
Template interpolation	■		■
Open templates	■		■
Generation of control points	■	■	

CROSS SECTIONS	TcpScancyr Avanced	TcpScancyr Basic	TcpTunnel CAD
Vertical or perpendicular to grade line cross sections	■	■	■
Cross sections by regression	■	■	■
Cross sections by point cloud	■	■	
Road cross sections	■	■	
Quick profile	■	■	
Vertices filtering	■	■	■
Cross sections editor	■	■	■
Drawing of cross sections in 2D	■	■	■
Drawing of cross sections in 3D	■	■	■
Advance/destroy cross sections	■	■	
Export to DXF	■	■	■
Hatches in cross sections drawing	■		
Export of interior points	■		
Export to longitudinal profile	■	■	
Export to cross sections	■	■	
Export 3D vertices	■	■	■
Import cross sections	■	■	
Parallel cross sections	■	■	
Open and close cross sections	■	■	
Merge cross sections	■	■	

REPORTS	TcpScancyr Avanced	TcpScancyr Basic	TcpTunnel CAD
Area and volume report	■	■	■
Cross sections comparison	■	■	■
Deviation report	■	■	■
Gauge report	■	■	
Measured points report			■
Cross sections point report	■	■	
Control point report	■	■	
Tolerances report			■
Bolts report	■	■	
Fit circles	■	■	

TOOLS	TcpScancyr Avanced	TcpScancyr Basic	TcpTunnel CAD
Layer management	■		■
Import drawing in DXF format	■		■
Drawing of 3D tunnel	■	■	■
Drawing of 3D real alignment	■		
Drawing of 3D polylines over point cloud	■	■	■
Drawing of alignment over point cloud	■		
Generation of 3D model	■		■
Export contour parallel to grade line	■	■	
Inspection map	■	■	
Orthoimage	■	■	
Tunnel tour	■	■	■
Video generation	■	■	