

## Functionality List of the 3DViewStation product family

Information as per April 19, 2024. Errors excepted, information is subject to change without notice at any time.

Functionality			Desktop, ActiveX								WebViewer					
Category	Item	Detail	2D basic	2D advanced	3D all importers	3D export	3D advanced analysis	3D feature recognition	3D IP protection	Technical documentation	WebViewer	2D advanced	3D advanced analysis	3D feature recognition	3D IP protection	Technical documentation
file	open		●	●	●						API	●				
	import		●	●	●						API	●				
	save as		●	●	●						API	●				
	convert					●										
	print		●	●	●											
settings	search	search for a setting	●	●	●	●	●		●	●	●	●	●		●	●
	import	tessellation			●						●					
	import	BREP			●						●					
	import	attributes			●						●					
	import	wireframes			●						●					
	import	PMIs			●						●					

Functionality			Desktop, ActiveX								WebViewer					
Category	Item	Detail	2D basic	2D advanced	3D all importers	3D export	3D advanced analysis	3D feature recognition	3D IP protection	Technical documentation	WebViewer	2D advanced	3D advanced analysis	3D feature recognition	3D IP protection	Technical documentation
	import	help constructions			●						●					
	import	views			●						●					
	import	filter			●						●					
	import	replace node names			●						●					
	import	recursive file search			●						●					
	import	incremental			●						●					
	export	BREP or tessellation				●					●					
	export	PDF + template				●					●					
rendering	solid				●						●					
	wireframe				●						●					
	illustration				●						●					
	silhouette				●						●					
	opaque				●						●					
	material				●						●					

Functionality			Desktop, ActiveX								WebViewer					
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	shadow				●						●					
	grid				●						●					
	invert	background	●	●												
	black / white mode		●	●												
	full screen				●						●					
	split screen				●											
	focus				●						●					
	hardware accelerated		●	●	●						●	●				
	software mode		●	●	●						●	●				
	remove edges				●						●					
	re-calculate edges				●						●					
navigation	zoom		●	●	●						●	●				
	pan		●	●	●						●	●				
	rotate		●	●	●						●	●				

Functionality			Desktop, ActiveX								WebView					
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	fly through				●						●					
	page	next	●	●								●				
	page	previous	●	●								●				
	layer				●											
	standard views				●						●					
	PMI views				●						●					
	functional views				●						●					
	play views				●						●					
	save views				●						●					
	load views				●						●					
selection	click				●						●					
	add				●						●					
	remove				●						●					
	rectangle				●						●					

Functionality			Desktop, ActiveX								WebViewer					
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	all				●						●					
	merge	to single, recursive			●						●					
	intelligent picking				●						●					
	drill down				●						●					
	hide				●						●					
	ghost				●						●					
	invert				●						●					
	delete				●						●					
	mode	select			●						●					
	mode	ghost			●						●					
	mode	hide			●						●					
	mode	delete			●						●					
	mode	face			●						●					
	mode	color			●						●					



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	by object type				●											
	search PMI	3D file formats only			●						●	●				
	search Markups				●						●	●				
	text search	2D file formats only	●	●							●	●				
	neighbourhood search	box			●						●					
	neighbourhood search	sphere			●						●					
	neighbourhood search	linear distance			●						●					
Measurements & dimension	point		●	●	●						●	●				
	length		●	●	●						●	●				
	length	cumulated	●	●	●						●	●				
	center		●	●	●						●	●				
	perimeter		●	●	●						●	●				
	radius		●	●	●						●	●				
	diameter		●	●	●						●	●				

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	area				●						●					
	area	cumulated			●						●					
	angle	edge	●	●	●						●	●				
	angle	line	●	●	●						●	●				
	angle	point	●	●	●						●	●				
	angle	coordinate system			●						●					
	wall thickness				●						●					
	bounding box	world			●						●					
	bounding box	part			●						●					
	distance	points	●	●	●						●	●				
	distance	lines	●	●	●						●	●				
	distance	edges			●						●					
	distance	axis			●						●					
	distance	faces			●						●					



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	distance	solids			●						●					
	distance	combinations			●						●					
	calibrate		●	●												
properties	volume				●						●					
	surface				●						●					
	density				●						●					
	mass				●						●					
	center of gravity				●						●					
	color				●						●					
	transparency				●						●					
	attributes				●						●					
	wires	color			●						●					
	background image	color			●						●					
	background	image			●						●					

Functionality			Desktop, ActiveX								WebViewer					
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	skybox				●						●					
analysis standard	section	coordinate system			●						●					
	section	normal of face			●						●					
	section	3 points			●											
	section	along wire			●						●					
	compare	quick			●						●					
	compare	exact			●						●					
	projected area				●						●					
	BOM				●											
analysis advanced	draft angle						●						●			
	split						●						●			
	clash						●						●			
	wall thickness	graduated heatmap					●						●			
	curvature	graduated heatmap					●						●			

Functionality			Desktop, ActiveX								WebViewer					
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	clearance band analysis	graduated heatmap					●						●			
	convex hull						●						●			
feature recognition	neutral axis							●						●		
	drill hole							●						●		
IP protection	distort tessellation								●						●	
	distort BREP								●						●	
	remove internal parts								●						●	
	remove internal faces								●						●	
	remove internal triangles								●						●	
	convex hull						●						●			
transform	move				●						●					
	rotate				●						●					
	scale				●						●					
	explode				●						●					

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	mirror				●						●					
	free drag				●						●					
	coordinate system to coordinate system				●											
	axis to axis				●											
	lock direction				●											
	lock rotation axis				●											
	animated rotation				●											
help construction	create coordinate system				●						●					
	create circle center				●						●					
	create point				●						●					
	create axis				●						●					
	activate coordinate system				●											
redline / markup	text annotation		●	●	●						●	●				
	circle		●	●	●						●	●				

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	rectangle		●	●	●						●	●				
	free hand		●	●	●						●	●				
technical documentation	generate BOM Ids									●						●
	callout generate	automatic								●						●
	callout generate	interactively								●						●
	callout arrangement	automatic								●						●
	callout arrangement	interactively								●						●
	callout properties	shapes, balloons & lines								●						●
publish	bitmap		●	●	●						API	API				
	PDF		●	●	●						API	API				
	HLR to DXF				●						API					
	HLR to SVG				●						API					
	callout lines				●						API					
	clipboard		●	●	●						API	API				

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	export				●						API					
various	instances	optimize			●						●					
	Skybox generator				●											
	undo		●	●	●						●	●				
	face extraction				●						●					
	color code				●						●					
	hyperlinking				●						●					
	UI	ribbon Office like	●	●	●						●	●				
	UI	change color	●	●	●						●	●				
	UI	change language	●	●	●						●	●				
	UI	customize layout	●	●	●						●	●				
	UI	extend by PlugIn	●	●	●						●	●				
	UI	reset layout	●	●	●						●	●				
	settings	save profile	●	●	●						●	●				

Functionality			Desktop, ActiveX								WebViewer					
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	settings	load profile	●	●	●						●	●				
	2D font replace	single, table		●								●				
	3D mouse support	3D Connexion			●											
	wires	remove			●						●					
	wires	generate			●						●					
	faces	remove			●						●					
	faces	generate			●						●					
	normals	remove			●						●					
	normals	generate			●						●					
	tesselation	reduce			●						●					
	geometries	detect duplicates			●						●					
	geometries	detect tiny			●						●					
	geometries	re-center			●						●					