Feature Comparison of PTC Creo® View™ MCAD™ Product Suite

data sheet

Feature Group	Feature	Creo View Express	Creo View Lite	Creo View MCAD
User Interface	Microsoft Fluent paradigm	X	X	X
	User interface customization	X	X	X
	Command finder	X	X	X
	Ribbon User Interface	X	X	X
Usage	Standalone version	X	X	X
Interoperability with PTC Products	Windchill PDMLink®		X	X
	Windchill ProjectLink™		X	X
Performance & Scalability	High performance Large assembly loading	X	X	X
	High performance Large assembly visualization	X	X	X
	Single scalable multi core ready architecture	X	X	X
	Highly efficient memory usage	X	X	X
	OL file caching		X	X
	Massive Assembly Option(64-bit only)*			X
Supported file formats	ED, EDZ, PVA, PVZ, and OL files	X	X	X
	PDF Documents	X	X	X
	Native reading of Creo Parametric parts, assemblies and drawings	X	X	X
	2D Drawing formats - CGM, Autodesk (DWG, DXF, DWF, DWFx), HPGL (PLT, HPGL, HPG, HP2, HGL, GL2), Creo Parametric™ (DRW, FRM, LAY, DGM, REP, SEC)	X	X	X
	Image formats (BMP, GIF, JPG, PNG, TIFF, JPEG, TIF, CG4, C4)	X	X	X
	Illustration Formats	X	X	X
	3D Model formats - Collada, FBX, and OBJ		X	X
	Native import of CATIA V5, IGES, Inventor, SolidEdge, STEP, STL, VRML, and many other 3D CAD formats.			X
	Native import of JT files*			X

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Feature Group		Feature	Creo View Express	Creo View Lite	Creo View MCAD
Viewing features	Document types handled	3D Models	X	X	X
		Drawings	X	X	X
		PDF Documents	X	X	X
		Images	X	X	X
	Navigation	Zoom	X	X	X
		Pan	X	X	X
		Rotate	X	X	X
		Spin Center	X	X	X
		Support touch-enabled devices	X	X	X
		Part Dragger	X	X	X
		Full Screen Display	X	X	X
		Support Stereo Projection			X
	Other viewing features	Multi Document Viewing	X	X	X
		View embedded ITAR information (copyright markings)	X	X	X
		View Gallery	X	X	X
		View Layers		X	X
		Layer Groups, Layer search		X	X
Navigation		Examine mode	X	X	X
		Flythru mode	X	X	X
		Creo navigation mode	X	X	X
		ProductView navigation mode	X	X	X
		CATIA V5 compatible navigation mode	X	X	X
Product Structure Navigation		View Product Structure	X	X	X
		Enhanced Product Structure navigation	X	X	X
		Expand / Collapse branch	X	X	X
		Expand / Collapse to specified levels	X	X	X
		Unload component	X	X	X
		Unload branch	X	X	X
		Hierarchical loading via 3D Thumbnails			X
Groups		View groups		X	X
		Hide / Unhide / Isolate group		X	X
		View parts contained in the group		X	X
		Create and edit groups			X
		Remove parts from the group			X
		Delete Group			X
		Rename group			X

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Feature Group	Feature	Creo View Express	Creo View Lite	Creo View MCAD
Annotation Sets	Show Annotation sets	X	X	X
	Create Annotation set		X	X
	Save Annotation set		X	X
	Delete Annotation set		X	X
Part Properties	Edit Appearance			X
	Edit Material			X
	Edit location			X
Redline / Markup	View markups	X	X	X
	Create, Modify, Save		X	X
	Enhanced markup palette		X	X
	Create parametric markups		X	X
	Add GTOL		X	X
	Stamps		X	X
Repositioning tools	Mate			X
	Align			X
Measurements	Component Summary	X	X	X
	Measure Distance	X	X	X
	Measure Radius	X	X	X
	Measure Diameter	X	X	X
	Measure angle	X	X	X
	Display mass properties		X	X
	Display envelope		X	X
Render mode	Shaded, Wireframe, HLR, Mesh modes		X	X
	Shaded with edges		X	X
	Mixed render modes		X	X
	Transparency			X
Sectioning	Create / Define section	X	X	X
	Show 2D section Window		X	X
	Control Display of Section boundaries		X	X
	Flip direction		X	X
	Quarter cut		X	X
	Geometry-driven section placement		X	X
	Export section as CGM			X
	Section selected parts			X
Export	Export into 2D image formats(.bmp, jpg, etc.)			X
	Save as PVS, PVZ, VRML, DXF, IGES or STEP file			X
	Save as JT format*			X
Email	Send Creo View viewable via email as an attachment	X	X	X
	Send image via email as an attachment	X	X	X

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Feature Group	Feature	Creo View Express	Creo View Lite	Creo View MCAD
Search	Find	X	X	X
	Spatial Search			X
	Color coded visual reporting			X
	Graphical definition of Search Volume			X
	Search by Component Size			X
Construction Geometry	View existing Construction geometry	X	X	X
	Create Construction geometry (Point, Plane, Axis, Curve, Coords, Line)			X
	Import XML file containing CG			X
	Export Construction Geometry into an external XML file			X
Lighting	Edit lighting			X
Layers navigator	View Layers		X	X
	View Layer groups		X	X
	Hide / Unhide layers		X	X
	Filter Layers		X	X
Support for Model Based Design	Display Combination / Viewstates from Creo Parametric or Capture States from CATIA V5	X	X	X
	View model annotations	X	X	X
	Response surface highlighting	X	X	X
	Model annotations navigator		X	X
	Hide / Unhide model annotations		X	X
	Highlight references (geometry, model annotations)		X	X
	Filter model annotations		X	X
	Combined Printing of Combination / CaptureStates /ViewStates		X	X
	Review design checks		X	X
	Perform design checking*			X
	Search for model annotations			X
BOM	Generate BOM			X
	Column Chooser for BOM			X
	Export BOM to CSV, HTML formats			X
Smart Explode	Explode parts, assemblies			X
	Define and control the explosion			X
Design Comparison	Drawing compare			X
	Model Geometry Comparison			X
	Assembly Structure Comparison			X

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Feature Group	Feature	Creo View Express	Creo View Lite	Creo View MCAD
Product Structure editing	Insert a new Product Structure into the existing Product Structure			X
	Insert branch link (reference another PVS / ED file)			X
	Re-order Product Structure			X
	Delete product structure			X
	Save Product Structure			X
	Edit properties of Product Structure (Visual, Scale, Position)			X
	Create new Product Structure			X
Watermarking	Add and Delete watermark		X	X
	Include watermark while viewing		X	X
	Include watermark while printing		X	X
	Watermark PDFs*		X	X
	Watermark Editor			X
Drawings	Display	X	X	X
	Multi sheet viewing	X	X	X
	Measure		X	X
	View results from drawing comparison		X	X
	Drawing compare			X
	CGM export			X
Augmented Reality	Creation of Spatial Tracking Planes		X	X
	Publishing of Augmented Reality Experiences		X	X
Animation	Playback Animations	X	X	X
	Create Animations *			X
	Edit Animations *			X
	Import FRA (Creo Parametric Frame files) *			X
	Graphical manipulation of flight path *			X
	Interaction with Windchill *			X
	Define parameters for Animation tracks *			X
Interference Analysis	Review Interference results *		X	X
	Define basic interference parameters *			X
	Define advanced interference parameters *			X
	Calculate Interferences *			X
	Analyze Interferences *			X
	Compare Interference results *			X
	Generate Interference Report - Summary *			X
	Use Dynamic groups in Interference Checking *			X
	Display Volume of Interference *			X
	Tagging of Interference results *			X
	Interaction with Windchill *			X
	Generate Interference Report - Detailed *			X
	View results from Interference Service Management*			X

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Feature Group	Feature	Creo View Express	Creo View Lite	Creo View MCAD
ECAD-MCAD Visualization	Cross selection between Electronic and Mechanical designs*			X
Toolkits	Creo View Java Toolkit*		X	X
	Creo View Web Toolkit *	X	X	X
	Creo View Office Toolkit *	X	X	X
	Creo View WebGL Toolkit *	*	*	*
Licensing	FlexLM license enabled			X
Supported Optional modules	Creo View PDF Review Option *		X	X
	Creo View PDF Watermarker*		X	X
	Creo View JT Format Option *			X
	Creo View Design Check *			X
	Creo View Animator *			X
	Creo View Interference Analysis*			X

* Features require additional Creo View module(s).

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