

Table 1 rendering software features

	ABVENT NORTH AMERICA	AUTO•DES•SYS	DISCREET, A DIVISION OF AUTODESK	NEWTEK	OKINO COMPUTER GRAPHICS	ROBERT MCNEEL & ASSOCIATES	
Product	Artlantis 4.5.3	form•Z, RenderZone, RadioZity 4.0	3ds max 6	LightWave 3D v7.5	NuGraf Rendering System (PolyTrans is a subset)	AccuRender 3.1	Rhino/Flamingo
E-mail	sales@abvent.com	sales@formz.com	productinfo@discreet.com	info@newtek.com	sales@okino.com	sales@mcneel.com	sales@mcneel.com
Web site	www.abvent.com	www.formz.com	www.discreet.com	www.newtek.com	www.okino.com	www.accurender.com	www.rhino3d.com/www.flamingo3d.com
Price	\$495	\$1,495–\$2,390	\$3,495	\$1,595	\$495 (NuGraf), \$395 (PolyTrans)	\$495	\$1,195
Operating systems supported	Windows 98/NT/2000/XP, Macintosh OS 8.6–9.2/X	All Windows, Macintosh OS 9/X	Windows 2000/XP	Windows 98/ME/NT/2000/XP, Macintosh OS 9/X	Windows 98/2000/XP	All Windows, AutoCAD 2000–2004	All Windows
Operating system reviewed	Windows 2000 Professional	Windows 2000 Professional	Windows 2000 Professional	Windows 2000 Professional	Windows 2000 Professional	Windows 2000 Professional	Windows 2000 Professional
Modeling	No	Yes	Yes	Yes	No	Yes	Solids, surface, mesh
NURBS	No	Yes	Yes	No	Yes	No	Yes
Refraction	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Reflection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Anti-aliasing	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rendering methods							
Radiosity	Yes	Yes	Yes	Yes	Yes, 3 methods	Yes	Yes
Ray-tracing	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Shade/render (Gouraud)	Yes	Yes	Yes	Yes	Phong, Gouraud, flat shading	No	Yes
Animations	Yes	Yes	Yes	Yes	Through plug-ins	Yes	Through plug-ins
Panoramas	Yes	Yes	Yes	Yes	No	Yes	Yes (projection)
Base file formats	ATL	All form•Z files	MAX, CHR, DRF, AVI, BMP, CIN, CWS, FLC, GIF, JPG, PSD, TGA, TIF, and more	MDD, PFX, PSD, BMP, IFF, JPG, PCX, PICT, PNG, TIF, TGA, and more	TIF, JPG, BMP, SGI, GIF, IFF, PSD, TGA, BMP, EPS, PCT, CLP, PCX, and more. Also supports video	N/A	3DM
Import file formats	DXF, DWG, 3D Studio, IGES, VRML, Electric Image, RIB	DGF, 3DMF, 3DS, DXF, DWG, IGES, OBJ, SAT, STL, BMP, EPS, AI, JPG, and more	3DS, PRJ, AI, DWG, DXF, IGES, LS, SHP, STL, WRL, VW, and more	3DS, OBJ, DFX, FACT, EPS, FBX	3DS, DWG, IGES, Pro/E native, SAT, STEP, STL, VRML, XGL, Maya, 3ds max, VRML, and more	N/A	DWG, DXF, XLT, 3DS, LWO, STL, AI, OBJ, RIB, POV, VRML, BMP, TIF, TGA, JPG, CSV, STEP, and more
Export file formats	TIF, TGA, BMP, AVI, EPIX, QuickTime Movie, VR Panorama/VR Object	DGF, 3DMF, 3DS, DEM, DXF, DWG, IGES, OBJ, SAT, STEP, STL, VRML, BMP, and more	3DS, AI, ASE, ATR, BLK, DF, DXF, IGS, LAY, LP, STL, VW, WRL	3DS, OBJ, DFX, VRML, FBX	3DS, DXF, Rhino3D, STL, VRML, trueSpace, OBJ, VET, 3DS, Maya XSI, IGES, OpenGL, SLP, and more	N/A	DWG, DXF, SAT, X_T, 3DS, AI, STL, OBJ, RIB, POV, STEP, IGES, TIF, VRML, BMP, TGA, JPG, and more
Network rendering	No	Yes	Yes	Yes, 999 nodes per license	No	Yes (plug-in)	No
OpenGL support	No	Yes	Yes	Yes	Yes	Yes	Yes
Real-time preview	Yes	Yes	Yes	Yes	Yes	Yes (radiosity)	Yes
Models included	No	Yes	No	Yes, hundreds	Yes, limited	Yes, lights and trees	Yes, lights and trees
Materials included	Yes	Yes	No	Yes	Yes	Yes, 5,000	Yes, 5,000
Extensible via plug-ins	Import/Export plug-in for VectorWorks	Yes	Yes	Yes	Yes, many options	Yes	Yes
Hardware lock (dongle)	No	Yes, printer port/USB	No	Yes; duo USB for Mac/PC standard, parallel by request.	No (software)	International only	Specific regions