

## Deep Exploration CAD and Standard Editions, and Deep Server Supported File Formats (current as at 30 March 2006 for release 4.0.10)

These lists are organized alphabetically by the file format.

### Formats supported by Deep Exploration CAD and Standard Editions and Deep Server

#### 2D File Formats

File Format	Type	Extension	Import	Export	Version/Notes
Adobe Encapsulated PostScript	Image	EPS		Yes	Version 2.0
Adobe Illustrator Vector Graphic	Image	AI	Yes	Yes	Version 2.0
Adobe Photoshop Document	Image	PSD	Yes		
Adobe Portable Document 3D	Image/Scene	PDF		Yes*	Creates a PDF document with 3D content. *Requires the PDF Publishing Module to be installed.
Autodesk Animator Graphic	Image	CEL	Yes		
DirectX DirectDraw Surface	Image	DDS	Yes		
EA/Amiga Interchange File Format	Image	IFF	Yes		
Flexible Precision Buffer Map	Image	FLX	Yes		
FLIC Animator Animation (flc)	Image	FLC	Yes		
FLIC Animator Animation (fli)	Image	FLI	Yes		
Graphics Interchange Format	Image	GIF	Yes		
JPEG 2000 J2K	Image	J2K	Yes		
JPEG 2000 JP2	Image	JP2	Yes	Yes	
JPEG 2000 JPC	Image	JPC	Yes	Yes	
JPEG 2000 JPX	Image	JPX	Yes		
JPEG Image	Image	JPEG, JPG	Yes	Yes	
Maya Interchange File Format	Image	IFF	Yes	Yes*	* Requires Maya to be installed.
OpenEXR Bitmap	Image	EXR	Yes	Yes	
Portable Network Graphics	Image	PNG	Yes	Yes	
Portable Pixelmap Graphic	Image	PPM	Yes	Yes	
Publisher's Paintbrush Bitmap Graphic	Image	PCX	Yes		
Radiance Picture	Image	HDR	Yes		
Scalable Vector Graphic	Image	SVG	Yes	Yes	
Silicon Graphics Image	Image	RGB, RGBA, INT, INTA	Yes		
ShockWave Flash Object	Image	SWF		Yes	Must be viewed with Internet Explorer.
SOFTIMAGE Picture	Image	PIC	Yes		
Tagged Image File Format	Image	TIF, TIFF	Yes	Yes	
TGA File	Image	TGA	Yes	Yes	
Windows Bitmap Graphic	Image	BMP, DIB	Yes	Yes	
Windows Cursor File	Image	CUR	Yes		
Windows Icon File	Image	ICO	Yes		
Windows Run Length Encoded Bitmap	Image	RLE	Yes		

## Formats supported by Deep Exploration CAD and Standard Editions and Deep Server

### 3D File Formats

File Format	Type	Extension	Import	Export	Version/Notes
Autodesk 3D Studio	Scene	3DS	Yes	Yes	
Autodesk 3D Studio ASCII	Scene	ASC	Yes	Yes	
Autodesk 3D Studio Max ASCII	Scene	ASE	Yes		
Autodesk 3D Studio Project	Scene	PRJ	Yes		
AOFF File Format	Scene	GEO	Yes	Yes	
Caligari trueSpace Object	Scene	COB	Yes	Yes	
Caligari trueSpace Scene	Scene	SCN	Yes		
CINEMA 4D	Scene	C4D	Yes		Version 5.0.
DirectX Model	Scene	X	Yes	Yes	
HTML Document with 3D		HTML		Yes	Must be viewed with either Deep Publish or Deep View.
Imagine Geometry	Scene	IOB	Yes		
ISO G Code	Scene	ISO, NC	Yes		
LightWave 3D and Binary Object	Scene	LWO, LW	Yes*	Yes**	*Import: LightWave 5.6, 6.0, 7.0, 7.5. **Export: LightWave 5.6 + .uv files and LightWave 6.0 objects only.
LightWave Scene	Scene	LWS	Yes	Yes	
Max File	Scene	MAX	Yes	Yes	Versions 4.0 - 8. Requires 3ds max and the DCOM plugin to be installed.
Maya ASCII Scene	Scene	MA	Yes	Yes	Versions 3.0, 4.0, 4.5, 5.0, 6.0, 7.0. Requires Maya to be installed.
Maya Binary Scene	Scene	MB	Yes	Yes	Versions 3.0, 4.0, 4.5, 5.0, 6.0, 7.0. Requires Maya to be installed.
Nendo	Scene	NDO	Yes		Versions 1.0 and 1.1.
Object File Format Vector Graphics	Scene	OFF	Yes	Yes	
Open Inventor File	Scene	IV	Yes	Yes	
OpenFlight Scene Description Database	Scene	FLT	Yes*	Yes	Version 13.0. *Import: Multigen API DLLs not required.
OpenGL CPP Code	Scene	CPP		Yes	
Points File	Scene	PTS	Yes		
Polygon Model Format	Scene	PLY	Yes		
Portable Graymap Graphics File	Scene	PGM	Yes		16-bit
POV-Ray RAW Triangle Format	Scene	RAW	Yes	Yes	
Power Render Object	Scene	PRO	Yes		Version 2.5.
Protein Data Bank	Scene	PDB	Yes		Version 2.5.
Quake Character Model I	Scene	MDL	Yes		Version 6 .
Quake Character Model II	Scene	MD2	Yes		
Quake Character Model III	Scene	MD3	Yes		

**Formats supported by Deep Exploration CAD and Standard Editions and Deep Server**
**3D File Formats (continued)**

File Format	Type	Extension	Import	Export	Version/Notes
Quake Map	Scene	MAP	Yes		
Quicktime 3D Metafile	Scene	3DM, 3DMF	Yes		
RAX Extended RAW Triangles	Scene	RAX	Yes		
Rhinoceros 3D Model	Scene	3DM	Yes	Yes	Versions 1.0, 2.0, 3.0.
Right Hemisphere Binary	Scene	RH	Yes	Yes*	*Export: Versions 3.5 and 4.0.
Shockwave 3D File	Scene	W3D		Yes	
Shockwave Web Page	Scene	HTML		Yes	Requires Shockwave Player to be installed.
SOFTIMAGE XSI	Scene	XSI	Yes*	Yes**	*Import: Versions 1.0, 3.0, 3.5. **Export: Versions 3.0 and 3.5.
Universal 3D	Scene	U3D	Yes	Yes	
VRML Worlds	Scene	WRL, VRML	Yes*	Yes**	*Import: Versions 1.0 and 2.0 ASCII only. **Export: Version 2.0
Wavefront Object	Scene	OBJ	Yes	Yes	

**Audio File Formats**

File Format	Type	Extension	Import	Export	Version/Notes
Audio Interchange Format	Audio	AIF, AIFF	Yes		Play only.
MPEG Audio Files	Audio	MPA, MP2, MP3	Yes		Play only.
Musical Instrument Digital Interface	Audio	MID, MIDI	Yes		Play only.
RIFF MIDI File	Audio	RMI	Yes		Play only.
Sound Format	Audio	SND	Yes		Play only.
Sun/NeXT/DEC Audio	Audio	AU	Yes		Play only.
Waveform Audio	Audio	WAV	Yes		Play only.

**Formats supported by Deep Exploration CAD and Standard Editions and Deep Server**
**Video File Formats**

File Format	Type	Extension	Import	Export	Version/Notes
Advanced Streaming Format	Video	ASF	Yes		
Audio Video Interleave Animation	Video	AVI	Yes	Yes	
Moving Pictures Expert Group Video	Video	M1V, MPEG, MPG	Yes		

**Motion Capture File Formats**

File Format	Type	Extension	Import	Export	Version/Notes
BioVision Hierarchical Data	Skeleton	BVH	Yes	Yes	
Character Studio	Marker	CSM	Yes	Yes	
Character Studio - Sub-format of BioVision Hierarchical Data	Skeleton	BVH (CS)	Yes	Yes	
Coordinate 3D	Marker	C3D	Yes		
Hierarchical Translations and Rotations	Skeleton	HTR	Yes		
Tracked Row Binary	Marker	TRB	Yes		
Tracked Row Character	Marker	TRC	Yes	Yes	

**Miscellaneous File Formats**

File Format	Type	Extension	Import	Export	Version/Notes
Text File	Text	TXT	Yes		
WinRAR Compressed Archive	Archive	RAR	Yes		
ZIP Archive	Archive	ZIP	Yes		

**Material File Formats**

File Format	Type	Extension	Import	Export	Version/Notes
Autodesk 3D Studio Material	Material	MLI	Yes		
Right Hemisphere Material	Material	RHM	Yes	Yes	
Wavefront Material	Material	MTL	Yes		

**Shader File Formats**

File Format	Type	Extension	Import	Export	Version/Notes
Real-Time Shader	Shader	FX	Yes		
Right Hemisphere Shader	Shader	RHS	Yes		

## Formats supported by Deep Exploration CAD Edition and Deep Server only

### CAD File Formats

File Format	Type	Extension	Import	Export	Version/Notes
AutoCAD Drawing Interchange	Scene	DXF	Yes	Yes	Versions 12, 13, 14, 2000-2006.
AutoCAD Drawing Object	Scene	DWG	Yes		Versions 12, 13, 14, 2000-2006.
Autodesk Inventor Assembly	Scene	IAM	Yes		Version 9 and earlier.
Autodesk Inventor Part	Scene	IPT	Yes		Version 9 and earlier.
CADKEY Advanced Design Language	Scene	CDL	Yes		CADL versions 4 - 20
CATIA	Scene	CGR, DLV, MODEL	Yes		Versions 3.x and 4.x.
CATIA5	Scene	CATPART, CATPRODUCT	Yes		Version 5.x.
Computer Graphics Metafile	Scene	CGM	Yes	Yes*	CGM = CALS profile specified in MIL-D-28003A. No bitmaps. *Export: Version 3.0.
Granite files	Scene	G	Yes		WildfireII
Hewlett-Packard Graphics Library	Scene	PLT	Yes		HPGL1 and HPGL2
IGES Files	Scene	IGES, IGS	Yes		Method A: Version 5.1, 5.2, and 5.3. Legacy: Version 5.1.
IronCAD 3D CAD File	Scene	ICS	Yes		Optional download with purchase of the Pro/E Module.
JT File	Scene	JT	Yes		Method A: Versions 7.0 and earlier. Legacy: Versions 8.1 and earlier.
Lattice XVL Structure and Geometry	Scene	XV0, XV3	Yes		Version 3.
MicroStation CAD Graphic	Scene	DGN	Yes		Versions 95, SE, J, 7, and 8.
Neutral Part File	Scene	NEU	Yes		Versions 14 - Wildfire.
Parasolid CAD File	Scene	X_B, X_T, XMT, XMT_TXT	Yes		Method A: Versions 16 and earlier. Legacy: Versions 3 - 14.
Pro/ENGINEER Assembly	Scene	ASM, XAS	Yes		Versions 18, 19, 20, 2000i, 2001, Wildfire, and WildfireII.
Pro/ENGINEER Part	Scene	PRT, XPR	Yes		Versions 18, 19, 20, 2000i, 2001, Wildfire, and WildfireII.
PTC Pro/DESKTOP File	Scene	DES	Yes		Versions 7.0 and above. Optional download with purchase of the Pro/E Module.
Raindrop Geomagic 3D Modelling File	Scene	WRP	Yes		Versions 5.0 and above. Optional download with purchase of the Pro/E Module.
SDRC I-DEAS Model	Scene	ARC, MF1	Yes		Versions 2.x, 6.x - 11.x.
SDRC I-DEAS Package	Scene	PKG	Yes		Versions 2.x, 6.x - 11.x.
SDRC I-DEAS Universal	Scene	UNV	Yes		Versions 2.x, 6.x - 11.x.
SolidEdge 3D CAD Model Part	Scene	PAR	Yes		Versions 16 and earlier.
SolidWorks Part and Assembly Files	Scene	SLDASM, SLDLFP, SLDPRT	Yes		Method A: Versions 97 - 2005. Legacy: Versions 97 - 2006.
Standard ACIS Text File	Scene	SAT	Yes		ACIS release 13 and earlier.
STEP Files	Scene	STEP, STP	Yes		AP204 and AP214.

**Formats supported by Deep Exploration CAD Edition and Deep Server only**  
**CAD File Formats (continued)**

File Format	Type	Extension	Import	Export	Version/Notes
Stereolithography File	Scene	STL	Yes	Yes	
Unigraphics Parts and Assemblies (ug.x3d)	Scene	PRT	Yes		Method A: Releases 13-18, NX 1, and NX 2. Legacy: Releases 13-18, NX 1, NX 2, and NX3.
VDA File	Scene	VDA	Yes		Version 2.0 and earlier.
Wavefront Studio Wireframe	Scene	WIRE	Yes		Version 10. Optional download with purchase of the Pro/E Module.
Windows Metafile	Scene	WMF	Yes		