

Product Functionalities

WorkXPlore 3D
Free Viewer

WorkXPlore 3D
Pro Viewer

WorkXPlore 3D
Collaborative

WorkXPlore 3D
Manufacturing
Pro

Supported File Formats (import)

2D Formats

DXF

DWG

Pack 2D (CATIA® V5 2D, UG 2D, ProE 2D)

3D Formats

STL (Stereolithography)

IGES (Initial Graphics Exchange Specifications - igs, iges)

STEP (STandard for the Exchange of Product model data - stp, step)

WorkNC (wnc; crv; ccv)

WorkNC-CAD (xdw)

UGS Parasolid® (x_t, xmt_txt, x_b)

SolidWorks® (Parts, assemblies, drawings & sheet metal -sldprt, sldasm, slddrw)

PTC Pro/ENGINEER® (prt, asm)

CADD5®

SolidEdge® (prt, asm)

NC Formats

ISO G-Code

WorkNC files

GUI and Display

Dynamic zoom, spin, rotate and manipulate 3D models

Standard views, isometric and user defined views can be used. **(NB. user defined views not in Free Viewer)**

Several display modes : shaded, wireframe, hidden faces, hidden edges or textured

Independant management for color, transparency and visibility for each object (shaded or wireframe) in a 2D/3D model.

Explode, merge, delete or add surfaces within a 3D model,

Select filters to hide/show entities based on type. Show/No show display area

Very compact integrated file format : Smaller in size compared to the original CAD files, making them easy to send by email, even over slow connections.

Integrated file explorer for easy drag and drop file importation

Object, part and assembly tree manager for a quick entities access .

Import versatile 3D CAD model in the same project

Images capture by window or by zone; automatic transfer to files applications, clipboard, ... - image collector .



Printing functions.	✓	✓	✓	✓
Integrated layer and scene manager			✓	✓
Annotations & Measurements				
Add markup entities : Text, Text 3D on face, Label, Advanced label		✓	✓	✓
Measure functions to measure exact dimensions, radius, angles & coordinates on points ...	✓	✓	✓	✓
Advanced measure functions : distance between planes, surfaces (numerous plane and surface selection commands), minimum distances between any surface groups; angle measurements; automatic radius/diameter measurement; manual or automatic measurement insertion;			✓	✓
Control point based on MMP point clouds...				✓
Direct and automatic probe radius compensation for control point clouds creation.				✓
Analyses functions				
Object information (area, dimensions, type, volume ...)		✓	✓	✓
Basic dynamic cross section (dynamic scroll...)	✓	✓	✓	✓
Advanced dynamic cross section (dynamic scroll, predefined sections axis, dynamic sections on guide curves, sections extraction ...)axis			✓	✓
Bounding box, (oriented, minimum, exportations - Dimensions, surface area, volume and mass informations)			✓	✓
Draft angles analysis (draft label insertion,)				✓
Curvature analysis (Minimum radius identification, radius label insertion)				✓
Surface type analysis (Flat surfaces, curves, ...)				✓
3D part or assembly comparison (Automatic comparison, gap value labels)				✓
Collaboration				
User defined scene creation. (save customized views, orientation, annotation, dimensions in a scene definition.)			✓	✓
Generation of standalone, lightweight application (.exe) which included 3D data and markup information and animation that can be easily transmitted via the Internet.			✓	✓
Animation creation of assembly (Authoring functions, Replay functions, AVI creations ...),				✓
Animation collision detection and dynamic display (Proximity value, collision highlight)				✓
Compatibility with several export format : STL, DXF, DWG ...				✓
Options				
Pack Interface (Catia® V4, Catia® V5, UG®)			✓	✓
IGES Export			✓	✓
WNC Export			✓	✓
Floating licence			✓	✓

 Function available ---
  : Function available as an additional option.