3Data Expert Software for Rapid Prototyping and Simulation

3Data Expert (BASE) for STL files (3DE0800-020100B)

- *NEW*: Free Viewing Directions and Selection Mechanism
- *NEW*: Fully Resizable Model Tree
- *NEW*: Efficient Data Structures to Input and View Large Triangulated Models
- *NEW*: Workflow and Tools Window to Access Mostly Used Repair and Manipulation commands
- *NEW*: Intuitive Menu Structure to Support the Workflow
- *NEW*: Help Text window to Aid in the Repair Process
- *NEW*: Check Thin Walls Command, Flip Selection and Triangle Normal
- *NEW*: Different Error Filtering Levels for Repairing Models for Simulation vs. 3D Printing
- *NEW*: Reliable Network Licensing System
- *NEW*: Easy to Use Coloring and Texturing Commands for Triangle Models
- *NEW*: Efficient 3DE File Format to Store Full Topology, Color and Texturing Information
- Input STL, VRML, ZPR, OBJ, DXF and DA Files, Write STL, VRML, ZPR and 3DE Files
- View & Measure Models
- Full Repair & Editing of Models
- Scale, Position, Rotate, Mirror & Build Preparation
- Split STL files, Boolean Functions, Adding Pins, Holes, etc.
- Reduce & Refine Triangle Count in Faceted Models
- Surface Design and TrueType text
- Macros for frequently used command series
- Copy Array for Rapid Manufacturing
- Easy STL, ZPR and VRML Texturing and Color Editing

RP functions

- Platform Definition
- Positioning Tools
- Z-Compensation
- Easy Drain Hole Generation
- Automatic Support Structures
- Interactive Volume Support Structures
- Slicing of STL Models, Direct Slicing of IGES/VDA

Large STL reduce

- Reducing STL files even with millions of triangles
- Divide and conquer approach allows the use of even moderate PC's

2D Drawings

- Generate professional 2D Drawings from STL data
- Distance, Angle, Diameter and Radius calculation
- Annotations and Balloons
- EU/US Standard Views, Coordinate Axis Views and Section Views

Offsetting/Shelling

- Hollow-out STL Files
- Offset STL files, Create a Solid from Open Surface

Optional IGES / VDA-FS translator   (3DE0800-020002IG)
- View & Verify IGES / VDA-FS files
- Conversion of IGES / VDA-FS to STL with Full Control of Resolution
- Automatic detection of Duplicate and Missing Surfaces
- Adding and Replacing Missing Surfaces using 3D Curves
- Design of Free-Form and Primitive Surfaces
- Trimming Surfaces with Curves and Other Surfaces
- Automatic normal orientation, Output of Cleaned IGES files
- File Conversion between IGES and VDA-FS Formats

Optional CATIA 4 translator   (3DE0800-020003CT)
- Input CATIA 4 Files

Optional CATIA 5 translator   (3DE0800-020004CT)
- Input CATIA 5 Files

Optional Unigraphics translator   (3DE0800-020005UG)
- Input Unigraphics Files

Optional ProE translator   (3DE08000-020006PR)
- Input ProE Files

Optional STEP translator   (3DE0800-020007EP)
- Input STEP Files