

## syngo 3D VRT

**syngo® 3D VRT advanced 3D application offers:**

- Volume Rendering Technique and Object Editor
- Fully integrated into the familiar 3D workflow and user interface

## syngo 3D VRT

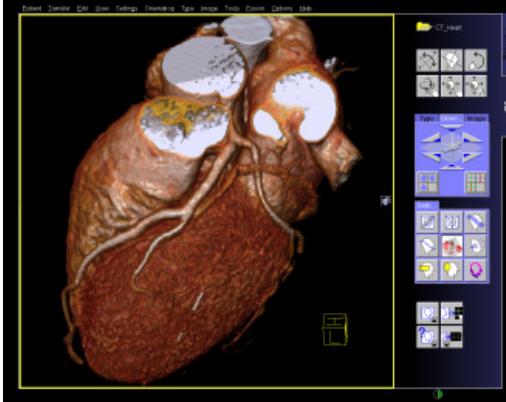
Advanced 3D applications – fast and easy for routine use

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## Volume Rendering Technique (VRT): 3D Visualization of Volume Data

- Projection onto an arbitrarily oriented plane
- Density, opacity and refraction information is used to generate views that optimally meet different clinical objectives
- Optimal display quality and differentiation of different organs through the control of color, opacity and shading
- Interactive window adjustment for VRT images using the middle mouse button
- Interactive light source for optimization of visual impression
- Individual adjustment of various light source parameters
- Excellent image quality even in zoom mode
- Predefined settings for many clinical objectives and anatomic regions are easily selected from an image gallery
- Pre-settings can be linked to DICOM series description to automatically ensure standardized quality in clinical routine
- Clip planes can be used to scroll fast and easy through the volume
- Easy interaction with the patented SmartSelect® controls
- Real-time rendering performance with optional Hardware-Acceleration Board



Blow-up mode: volume Rendering display of coronary arteries

## 3D Object Editor: Easy Elimination of Obstructing Information

- Easy volume confinement with clip-box or variable editing slab
- Fast object creation with threshold operations and region growing operations
- The volume of objects is automatically calculated and displayed
- Multiple editor objects can be displayed as differently colored SSD (Surface Shaded Display)
- Complete object subtraction with dilatation and erosion functions
- After object subtraction remaining volume dataset can be displayed with all 3D representations, i.e. VRT (Volume Rendering Technique), MIP (Maximum Intensity Projection) or SSD (Surface Shaded Display)
- Save and reload of editor objects is possible



Object Editor: creation of bone object

## Documentation

- Results images can be copied on a film sheet, saved on CD or DVD, and exported to other DICOM nodes

## Advanced Bone Removal

- Fast and simple, fully automated workflow
- Rapid segmentation and removal of bony structures
- Fast 3DMIP, MPR and VRT overview of vascular structures
- Visualization of removed bones in transparency mode
- Enhanced visualization for improved diagnostic outcomes



3D-XA: volume Rendering of a carotid stent

### Global Siemens Headquarters

Siemens AG  
Wittelsbacherplatz 2  
80333 Muenchen  
Germany

### Global Siemens Healthcare Headquarters

Siemens AG  
Healthcare Sector  
Henkestr. 127  
91052 Erlangen  
Germany  
Phone: +49 9131 84-0  
[www.siemens.com/healthcare](http://www.siemens.com/healthcare)

### Legal Manufacturer

Siemens AG  
Wittelsbacherplatz 2  
DE-80333 Muenchen  
Germany