3Dnet Suite™
General Diagnostic

3Dnet™ Suite General Diagnostic is seamlessly integrated with eFilm Workstation™. It can be launched from any workstation within Fusion RIS/PACS™, providing single-click access.

Fully-integrated into the Fusion PACS/RIS, 3Dnet™ Suite provides healthcare professionals an advanced, yet intuitive, tool for transforming CT, MRI and PET exam data into interactive 3D visual reconstructions for fast and efficient review

Protocol-based Workflow

Protocol-based workflow represents a major innovation in radiology: 3Dnet™ adapts its functionality and behavior according to the way doctors work, rather that requiring them to change their working practices. 3Dnet's clinically-driven protocols offers increased efficiencies, accuracy, and speed of diagnosis.

Advanced CPU Rendering for Speed & Performance

As one of the most advanced CPU-based rendering engines available, 3Dnet™ Suite delivers high-quality images and robust performance without the need for server farms, complicated installation scenarios or expensive video cards. Moreover, 3Dnet's rendering engine is fully multi-threaded — meaning that it can utilize the dual-core processors to run even faster. Because all our rendering is done on the CPU:

- It guarantees[1] maximum portability. 3Dnet™ Suite runs on almost any Windows®-based computer, no matter what video card is installed.
- It can handle the massive datasets from the new generation of CT scanners. Applications dependent upon the video card for image processing are forced to set a limit of around 2000 slices because the video card's memory is not large enough to support more. With 3Dnet's approach, you are not subject to these constraints.

1 - See minimum specifications on reverse.

More efficient review of cross-sectional exams through extensive, easy-to-use & cutting-edge tools for 3D visualization.

MERGE™ Healthcare

The standard 3D layout includes 1 each: axial, coronal, sagittal and free-view panes.

Features

Image Rendering Modes - MPR, MIP, MinIP, AvIP, SSD, CPR, DVR(color), DVR(gray).

Interactive Multi-Planar and double oblique Reconstruction (MPR)

Fly-Throughs - perform automatic and interactive fly-throughs on internal cavities (colon, bronchi, trachea etc.) and then zoom in and analyze abnormalities.

CPR (Curved Multiplanar Reconstructions) - visualization of tubular structures such as blood vessels and the aorta.

View Layout / Multiple Views - supports single, four, nine, sixteen and twenty-five views.

VOI Volume of interest/ Visual 3D shutters - provides clipplanes to remove objects quickly and easily from the view.

Input Volume - display CT, MRI & 3D Angio.

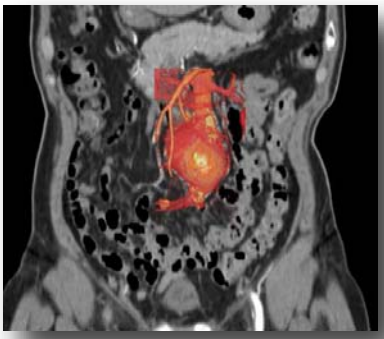
Measurement & Annotation - save volumes, lengths, diameters, angles, add text comments and insert arrows.

Pre-Sets - comes with a wide variety of 3D pre-sets and allows you to create customized pre-sets, and import/export them to share with other users.

Volume de-composition in anatomical components - semi-automatic segmentation, 3D component calculation, measurement, quantitative report and visualization.

Comparison mode: Support for two datasets - display on the same screen (or on different screens) two datasets. The datasets can be the same volume displayed at different settings, or two CT volumes or a CT and an MR or two MR volumes. The volumes can be linked for comparison mode.

Reporting - pre-defined CT and MRI templates (2000+).



3Dnet™ Suite allows you to combine 3D color renderings with other image modes.

Specifications:

Minimum Hardware Specifications:
Windows XP/2000/NT PC, 1GB RAM. Pentium or AMD processor (at least 1.5GHz)

Available integrated into many PACS multi-modality workstations.

Input Data

- DICOM CT. MRI & 3D Angio (CTA) volume datasets
- At least 1000 512x512 matrix images loadable with 2GB RAM.
- At least 512 512x512 matrix images loadable with 1GB RAM.

Output Formats

- Output to DICOM format for networking and archiving (CD-R)
- Output to JPEG and AVI external file formats.

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