



VIEW 3D

3D POST-PROCESSING WORKSTATION

THE THIRD DIMENSION



VERSION 2.1



iQ-VIEW 3D IS A CLINICAL 3D POST-PROCESSING WORKSTATION FOR RADIOLOGISTS

It contains all components of iQ-VIEW with the addition of various CT and MRI image processing features.

Multiplanar Reconstructions (MPR) can be performed at your desktop within seconds and CT and MRI scans can be reformatted and viewed in any desired orientation.

Intuitive widgets guide the user to exactly position the view plane to quickly get the desired view angle and position in space, therefore no prior training is required.

MPR supports the viewing of trauma, vascular, neurology and oncologic CT and MRI images.

The Maximum Intensity Projection (MIP) maps the densest voxels of CT and MRI scans to your screen. This feature simplifies reading low and high contrast pathologies. MIP is an easy to use feature to display vessels and bones.

Thick Slab Maximum Intensity Projections (thick slab MIP) performs MIPs in a flat layer of CT scans. It is a great feature to assess complex fractures and to easily find even the smallest hair fractures. Never miss a fracture on a trauma CT scan again!

Surface Shaded Display (SSD) visualizes the surface of high contrast

objects like bones in 3D e.g. interactively or as rotating sequences.

The epitome of 3D processing is the volume rendering (VRT). Highlight in color any vascular, tumor or bony structure for your patients and referring physicians. Various colors, transparency and light setting options for different contexts make the tool easy to use.

Unwanted structures can be either clipped or cropped individually from the image.

The addition of DENOISE and SOFTEN filters optimize the image impression.

Any visualized images can be easily exported as snapshots or even movies to your PACS, CD/DVD or printer.

Users may perform CT and MRI image post-processing at special post acquisition stations from the device manufacturers, however by using iQ-VIEW 3D, you can perform this process faster, easier and keep your CT scanner available by moving your work load from the acquisition consoles to iQ-VIEW 3D!

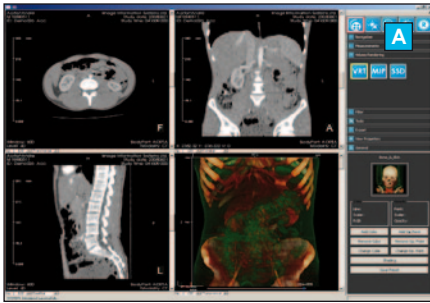
A new and innovative 3D technology makes it possible for the iQ-VIEW 3D to run on most standard graphic adapters with a low system resource requirement. iQ-VIEW 3D can even run on a laptop.

iQ-VIEW 3D has been proven as the clinical tool of choice by many radiologists worldwide. Ask your dealer for a local reference!

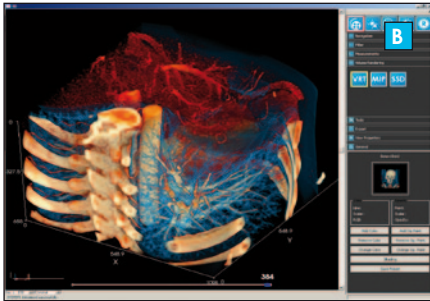
THE SOLUTION CAN BE SO SIMPLE.



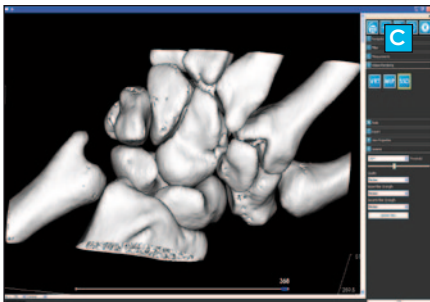
iQ-VIEW 3D SCREENSHOTS



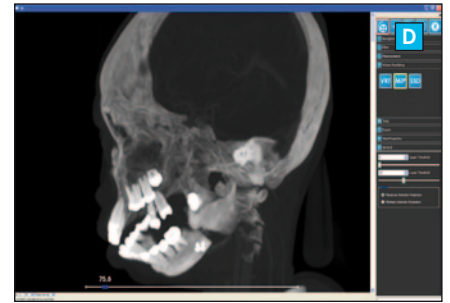
A The multiplanar views give the viewing physician a quick overview of the volume. Special projections (e.g. Volume Rendering) may be calculated and shown in 3D Views.



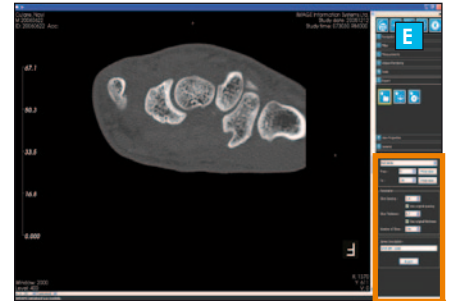
B A double click on each window magnifies the view immediately (e.g. CT Aorta with Angio preset).



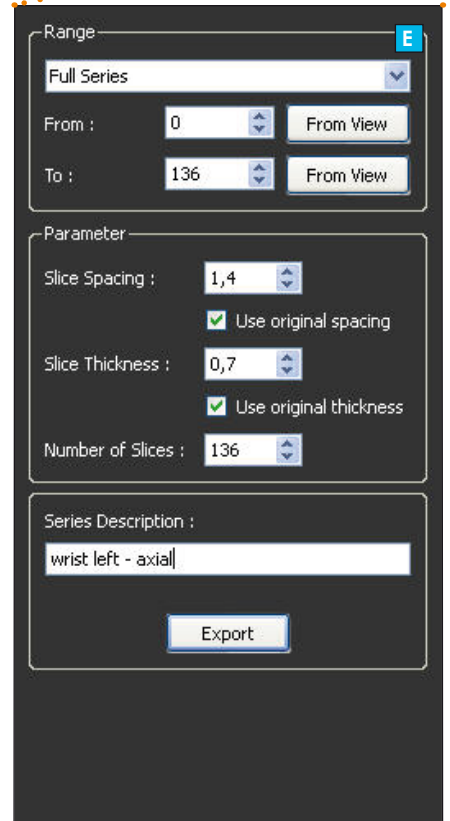
C Surface Shaded Display is a fast and accurate way to extract and visualize features (e.g. bones/skin).



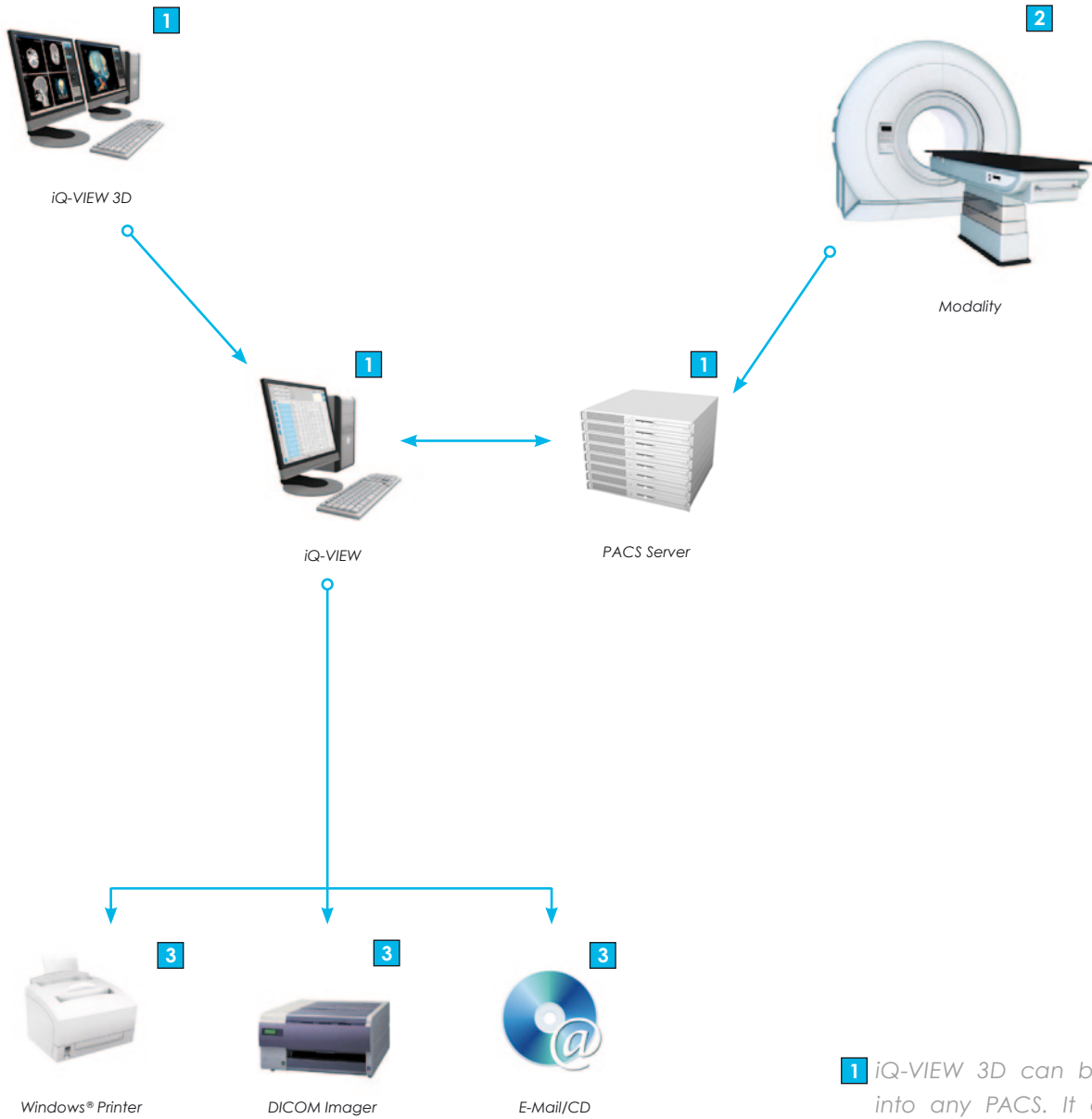
D The thick slab feature makes even the smallest hair fractures visible in multislice CT datasets.



E In iQ-VIEW 3D select the first and last image of a stack and within seconds create a stack of multiplanar or rotated projections. You can store these images to your PACS, imagebox or export as an AVI file.



iQ-VIEW 3D WORKFLOW



1 iQ-VIEW 3D can be integrated into any PACS. It combines all features of a full 2D reading station and a 3D postprocessing station.

2 You can postprocess any kind of volumetric CT or MRI image data.

3 Reconstructed images can be exported as AVI files, to CD/DVD, to a Windows printer, a DICOM imager or sent back to the PACS.

*iQ-VIEW 3D FEATURES BASED ON iQ-VIEW/PRO**

3D POST PROCESSING

- MPR – Any oblique Multiplanar Reconstruction
- MinIP – Minimum Intensity Projection
- SSD – Surface Shaded Display
- VRT – Volume Rendering Technique
- Thick Slab rendering (MIP/VRT/SSD) with variable thickness
- Arbitrary volume cropping
- Image filters
- Advanced measurement tools including ROI computation

3D FEATURES

- Definition of different tissues for volume rendering
- Easy selection of the volume of interest
- 3D zoom/pan and center/window
- 3D-measurements
- Simultaneous image processing in up to 6x6 User defined Views
- Improved MPR navigation using widgets
- Support of space navigation devices (3D Connexion)

GENERAL IMAGE PROCESSING

- Creation of MPR reslice images (double oblique)
- Export of animated sequences (AVI)
- Export of secondary capture images to the local image box, filesystem or PACS
- Thickslab MIP/VRT/SSD export functionality

GRAPHIC ADAPTERS

- Runs on most standard graphic adapters

OPERATING SYSTEMS

- Windows 2000, XP, Vista

LANGUAGES

- English, Finnish, French, German, Italian, Japanese, Polish, Portuguese, Russian, Serbian, Spanish, Turkish

CERTIFICATION

- CE 0482 and FDA 510(k)



* See iQ-VIEW for further features.

SYSTEM REQUIREMENTS

	MINIMUM	RECOMMENDED
OS:	Windows 2000, XP, Vista	Windows XP Professional Windows 7 Professional (or higher) 32 bit
CPU:	Pentium, 1 GHz	Core 2 Quad, 2,6 GHz
RAM:	1 GB RAM	2 GB RAM
HDD:	20 GB of empty hard disc space	80 GB of empty hard disc space
Network:	10 Mbit/s	100 Mbit/s
Graphics:	nVidia GeForce 5600 or ATI X800	nVidia GTX Series
Display:	1024 x 768 pixel	1 or 2 displays with 1280 x 1024 pixel or more
Peripherals:		Scroll mouse, CD or DVD writer PostScript printer
Hardware:		Dell hardware

OUR SOLUTIONS FOR YOUR IMAGING NEEDS

iQ-VIEW	The radiology reading station
iQ-VIEW 3D	3D post-processing workstation
iQ-STITCH	Tool for the creation of full spine and full leg images
iQ-CAPTURE	Add-on hardware module for capturing images from analog video sources
OrthoView™	Add-on module for orthopedic templating and trauma planning
DICOMReader	Reading portable DICOM media into any PACS
iQ-WEBX	PACS server for storage, teleradiology and image distribution
iQ-WEBX WADO	Simplifying the workflow
iQ-PRINT	DICOM paper print server
iQ-ROBOT	Automatic burning and labeling of patient CDs and DVDs
iQ-ROUTER	Image compression for teleradiology and workflow management
iQ-WORKLIST	DICOM worklist server optimizing your workflow
iQ-MAIL	Simple teleradiology using DICOM email
iQ-NUC	Complete package for nuclear image processing
iQ-RIS	The smooth radiology information system
IMAGE DISPLAYS	Medical diagnostic displays
iQ-CR ACE	Efficiency in CR

