



VIEW 3D

3D POST-PROCESSING WORKSTATION

THE THIRD DIMENSION



VERSION 3.1



THE FULLY-FEATURED 3D MEDICAL IMAGING SOLUTION FOR RADIOLOGISTS

iQ-VIEW 3D contains all components of iQ-VIEW with the addition of CT, MRI and all common 3D image processing features.

iQ-VIEW 3D is a powerful state of the art workstation that provides uncompromising 3D image quality, combined with a smoother and faster workflow.

Multiplanar Reconstructions (MPR) are performed within seconds on a desktop and CT and MRI scans can be reformatted and viewed in any oblique 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. This feature simplifies reading low and high contrast pathologies and is ideal for displaying vessels and bones.

Surface Shaded Display (SSD) visualizes the surface of high contrast objects like bones or metal in 3D and can be exported e.g. as a rotating sequence.

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

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

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

Any visualized images can easily be exported to a PACS, CD/DVD/USB flash drive or printer.

Users may perform CT and MRI image post-processing at special post acquisition stations from any manufacturer. However, by using iQ-VIEW 3D, they can perform this process faster, easier and keep their CT scanner available by moving their workload from the acquisition consoles to iQ-VIEW 3D.

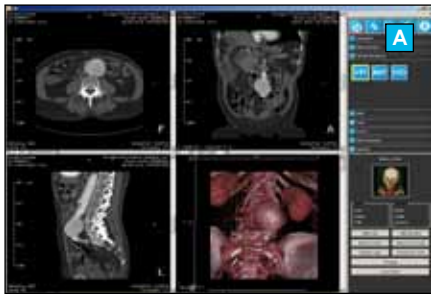
A new and innovative 3D technology makes it possible for iQ-VIEW 3D to run on most standard graphic adapters with low system resource requirements. iQ-VIEW 3D can even run on a laptop.

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

***THE SOLUTION
CAN BE SO SIMPLE.***



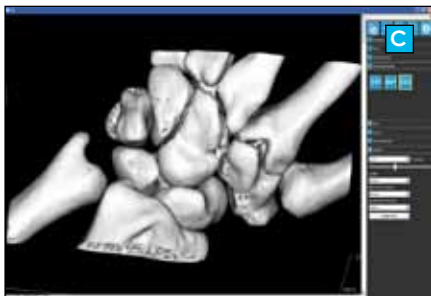
iQ-VIEW 3D SCREENSHOTS



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



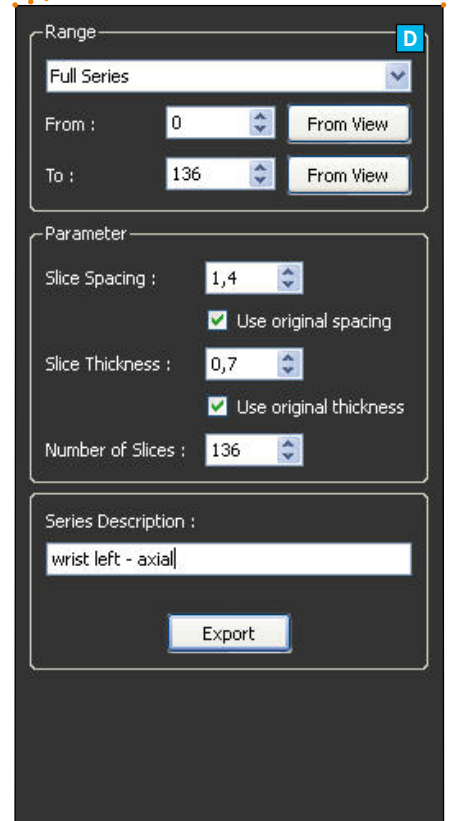
B A double click on each window magnifies the view immediately (e.g. CT aorta with angio preset).



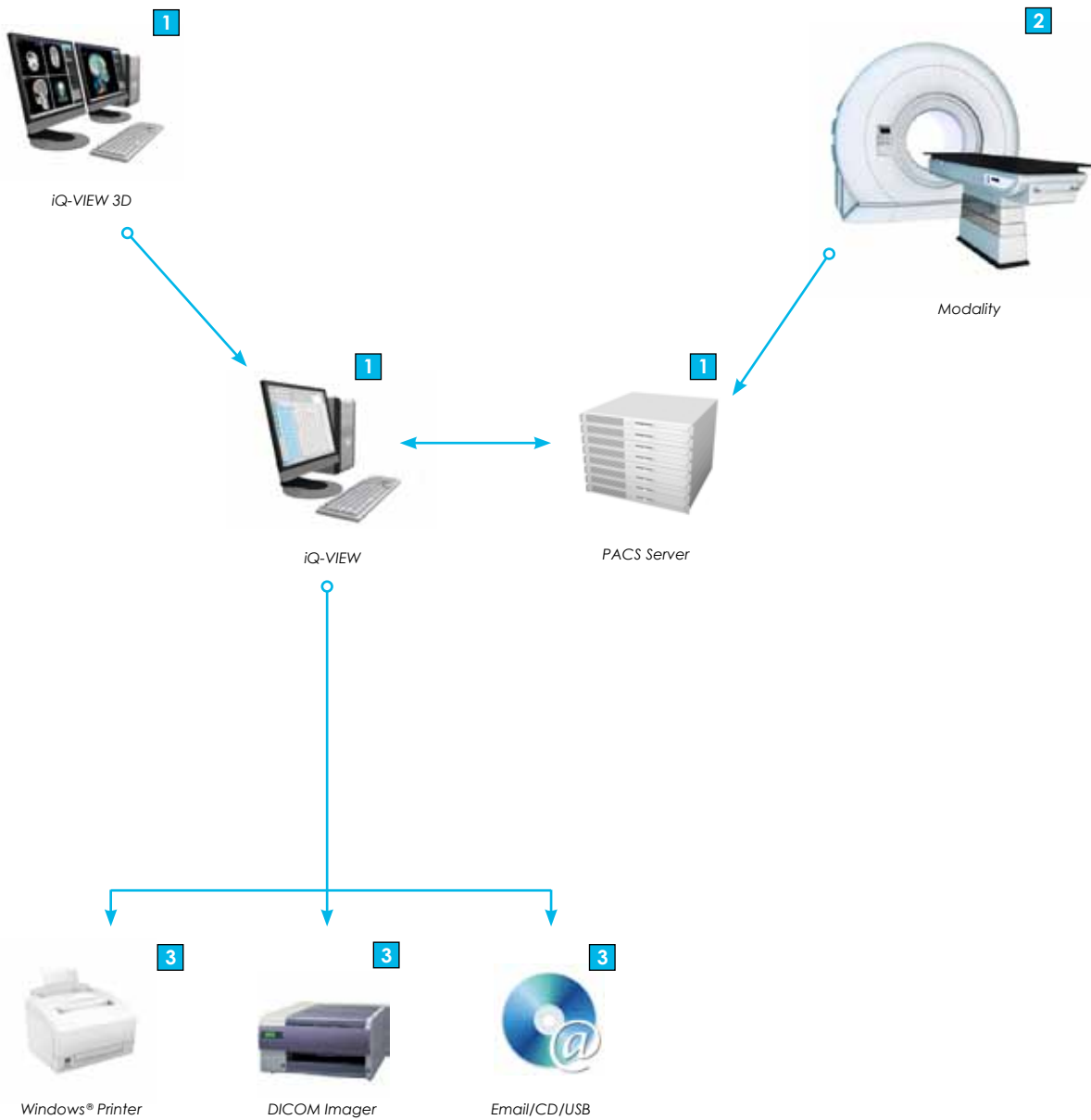
C Surface Shaded Display is a fast and accurate way to extract and visualize features (e.g. bones/metal).



D Select the first and last image of a stack in iQ-VIEW 3D and create a stack of multiplanar or rotated projections within seconds. These images may be exported and stored in the PACS or imagebox.



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 Any kind of volumetric CT or MRI image data can be postprocessed.

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

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

2D POST-PROCESSING

- Creation of MPR reslice images (oblique)
- Export of secondary capture images to the local image box, filesystem or PACS
- MPR – Any oblique Multiplanar Reconstruction
- MPR navigation using widgets

3D POST-PROCESSING

- Auto-selection of hardware-optimized renderer for individual workstation (NEW)
- Presets rearranged into logical groups, e.g. "bones", "vascular", "muscles"... (NEW)
- Easy selection of the volume of interest, image filters
- Definition of different tissues for volume rendering
- Advanced measurement tools including ROI computation
- 3D rotating/zoom/pan and center/window
- Tissue-scrolling by W/L-tool & mouse moving (NEW)
- GPU Raycast Renderer: Better quality for MIP/MinIP– Maximum/Minimum Intensity Projections (NEW)
- Enhanced thresholding of MIP (NEW)
- SSD – Surface Shaded Display
- VRT – Volume Rendering Technique capable of showing MRI data (NEW)
- Improved volume cropping (NEW)
- Support of space navigation devices (3D Connexion)

GENERAL

- Last position is displayed at restart (NEW)
- Simultaneous image processing in up to 6x6 user defined views
- Concurrent licensing (NEW)

GRAPHIC ADAPTERS

- Runs on most standard graphic adapters

OPERATING SYSTEMS

- Windows XP, Windows 7 Professional or higher

LANGUAGES

- Dutch, English, French, German, Japanese, Russian, Spanish

CERTIFICATION

- CE 0482 and FDA 510(k)



* See iQ-VIEW brochure for further details.

SYSTEM REQUIREMENTS

HARDWARE & SOFTWARE REQUIREMENTS

	MINIMUM	RECOMMENDED
OS:	Windows XP PRO SP 3, 32 bit Windows 7 PRO SP1, 32/64 bit	Windows 7 Professional SP 1, 32 bit
CPU:	Pentium, > 1.5 GHz	Core 2 Quad, > 2 GHz
RAM:	1 GB RAM	4 GB RAM
HDD:	20 GB of empty hard disk space	500 GB of empty hard disk space fast hard disk
Network:	10 Mbit/s TCP / IP with UDP support	100 Mbit/s TCP / IP with UDP support
Graphics:	Any open GL 1.5 capable graphics card from NVidia or ATI	iQ-GRAFIX PRO 3D or nVidia 280, 380 and 480 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

OUR PRODUCTS FOR YOUR IMAGING NEEDS



iQ-SYSTEM PACS
iQ-NUC
iQ-RIS
IMAGE DISPLAYS

The full featured, reliable and affordable PACS
Complete package for nuclear image processing
The smooth radiology information system
Medical diagnostic displays