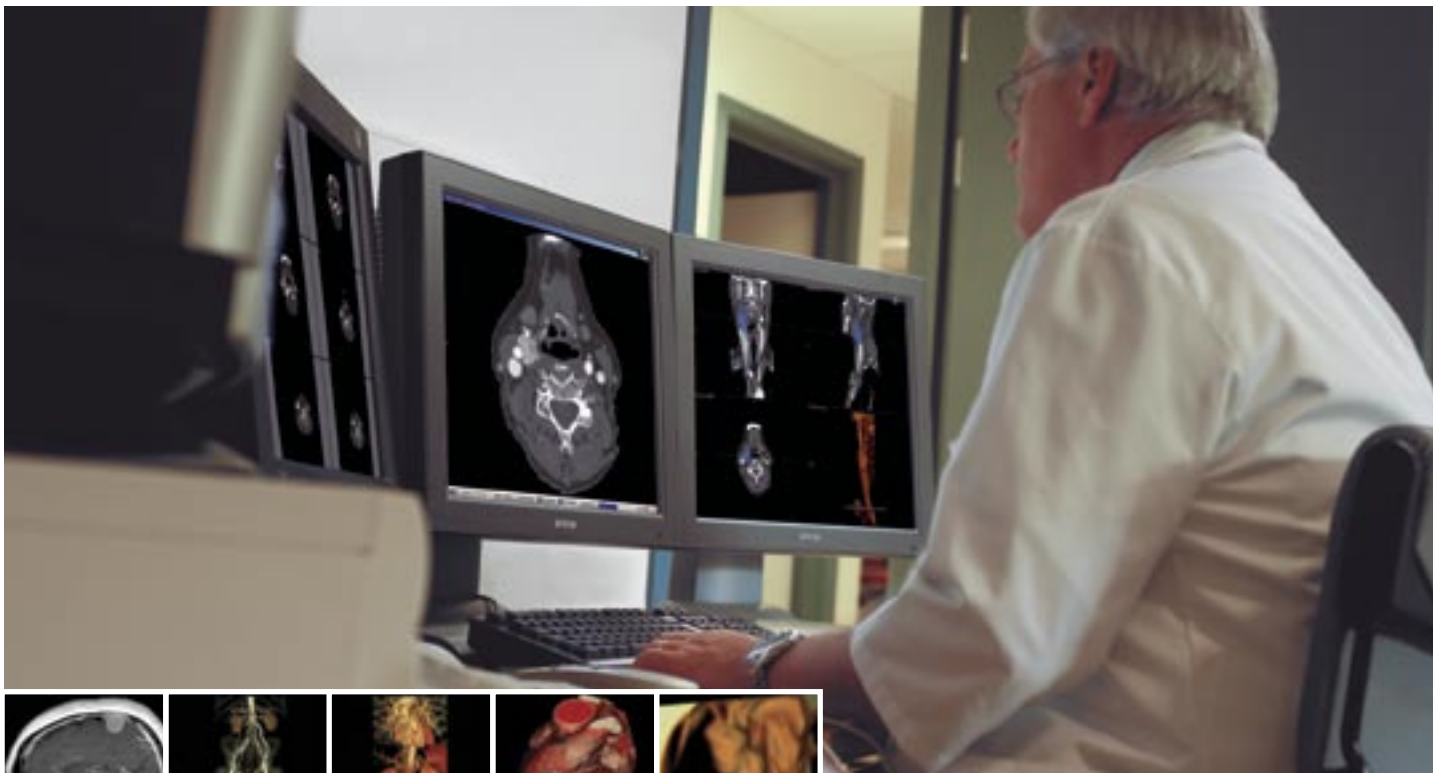


Voxar 3D™



A suite of advanced visualization
and analysis software tools

BARCO

Visibly yours

The power to deliver advanced visualization throughout the enterprise

To effectively manage the rapid growth of large volumetric image studies and the impact this has on your productivity and image quality, you need more than a few 3D workstations. You need advanced visualization and analysis tools anywhere you are working.

Whether you have PACS or are planning for it, you want this capability integrated into your system and available on every PACS workstation throughout the enterprise.

VoxAR 3D™ is your solution

VoxAR 3D™ offers a full suite of advanced visualization and analysis tools optimized to deliver productivity and high-quality multimedia reports. With VoxAR 3D™ you can read large volumetric datasets more efficiently, in any plane, at any thickness without compromising on image quality, speed and ease-of-use.

Designed to provide rapid, multi-user access to your volumetric image studies throughout the enterprise, VoxAR 3D™ can be seamlessly integrated into your radiology workflow, directly into an existing PACS, or as an economical interim solution.

Flexible licensing options

Depending on your individual imaging requirements, VoxAR 3D™ allows you to separately license the advanced visualization and analysis tools you need on a routine basis.

- **VoxAR 3D™ CORE**

Provides quick and easy access to industry-leading MIP and MPR tools, including slabs, obliques and different intensity projections.

- **VoxAR 3D™ ADVANCED**

Extends the functionality of VoxAR 3D™ CORE with additional tools such as targeted review, fly-through and powerful segmentation and bone removal tools.

- **VoxAR 3D™ clinical applications**

An optional suite of clinical applications allows you to get through your most common clinical studies with speed and ease.



>>> Axial slab MIP review



>>> 3D color volume review



>>> Coronal boneless MIP



Designed, configured and priced to be an advanced visualization and analysis tool for everyday reading

Voxar 3D™ provides you with rapid access to the advanced visualization and analysis tools you need every day when reading CT, MR and PET. It brings major benefits such as:

- rapid data loading and high-performance visualization;
- intuitive user-interface and task-based workflows;
- easy-to-use, gold-standard MPR analysis tools;
- powerful, one-click segmentation and bone removal;
- scalable, cost-effective concurrent licensing options;
- seamless, one-click integrations with over 30 PACS vendors worldwide.

“We chose Voxar 3D™ to give us full CT and MRI 3D workstation functionality on every one of our PACS workstations. The ability to view the images in multiple planes is essential when reporting routine studies. For example, when excluding bony metastases, it is much faster to view the images as a sagittal MPR rather than scrolling through 1000+ axial images. Voxar 3D™ also provides excellent 3D volume rendering and bone removal tools valuable for studies such as CTA and MRA.”

*Russell Bull MD, Consultant Radiologist,
Royal Bournemouth Hospital, UK*

Integrate 3D visualization everywhere you need it throughout your radiology workflow

Live interaction with clinical colleagues

With VOXAR 3D™, you can easily save complex image reconstructions. Clinical colleagues can restore your work on any VOXAR 3D™ enabled workstation and create any additional views they need. This allows you to rapidly and easily communicate key images that are essential for surgical planning, treatment and follow-up.

3D acceleration with off-the-shelf graphics cards

VOXAR 3D™ takes advantage of powerful off-the-shelf graphics cards, which dramatically increase performance and image quality. Complex image reconstructions can be viewed at more than 20 frames per second delivering real-time, on-the-fly interaction.

Easy communication with multi-vendor modalities

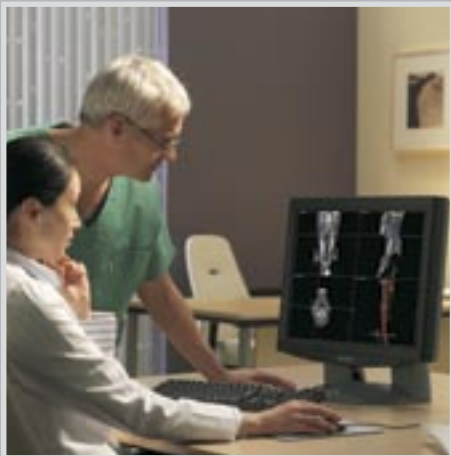
VOXAR 3D™ strictly adheres to the DICOM standard for effortless communication with multi-vendor modalities and technologies.



>>> Radiology reading room



>>> Patient reporting



>>> Physician's office

One-click, seamless PACS integration

VOXAR 3D™ integrates seamlessly into your enterprise PACS, providing a single, streamlined diagnostic radiology workflow. One mouse click at your PACS workstation gives you instant access to advanced visualization tools.



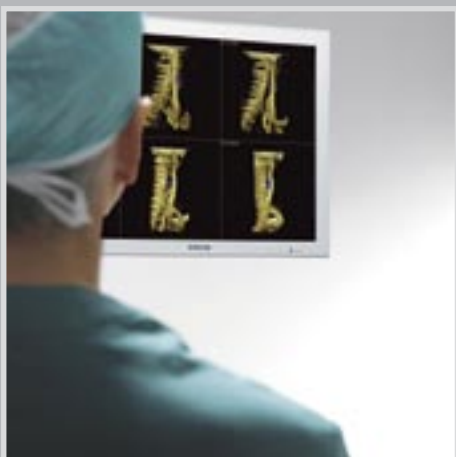
>>> Clinical case conferences

Multi-user access throughout the enterprise

The VOXAR 3D™ concurrent license program gives multiple users access to "floating" VOXAR 3D™ licenses anywhere VOXAR 3D™ is installed - without restriction - on any PACS workstation or PC.

Cost-effective access to the tools you need

VOXAR 3D™'s advanced visualization and analysis tools can be licensed separately. You can independently license VOXAR 3D™'s gold-standard MPR analysis tools and from there concurrently license VOXAR 3D™'s advanced 3D visualization tools. Clinical applications can also be licensed separately in addition to VOXAR 3D™ ADVANCED.

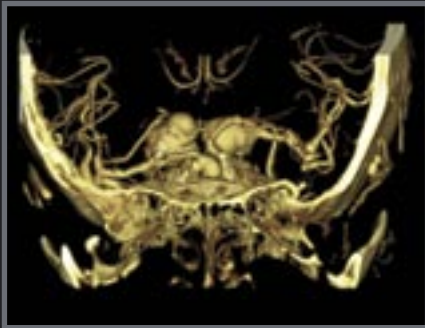


>>> Surgical suite

3D.everywhere

Multiplanar reformats

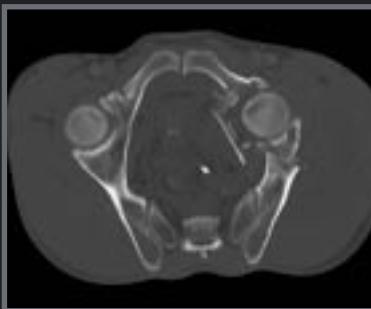
Real-time multiplanar reformatting of images into any user-defined linear or curved planes.



>>> Multiple cerebral aneurysm:
color volume slab reformat



>>> Mandible sarcoma:
curved reformat



>>> Hip fracture:
oblique reformat



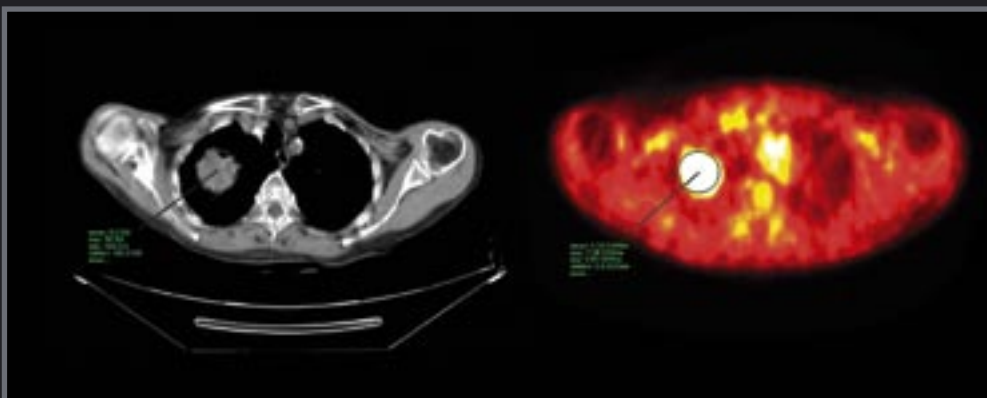
>>> Carotid aneurysms:
curved reformat



>>> Living renal donor
assessment: double
oblique reformat

2D review

Fast axial review and simultaneous image compare.



>>> Left lung
malignancy:
3D PET

3D reconstruction

Powerful easy-to-use segmentation and bone removal tools make complex reconstructions quick and easy.



>>> Cranial malformation:
3D targeted volume reformat

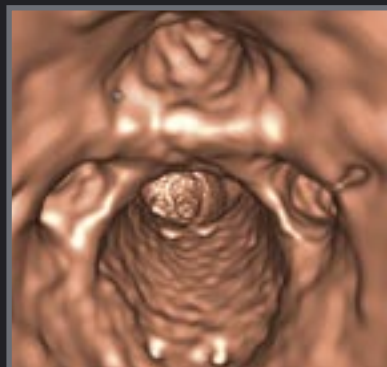


>>> Peripheral lower
limbs: 3D boneless MIP



VOXAR 3D™

>>> Origin of renal arteries and
celiac axis: 3D fly-through



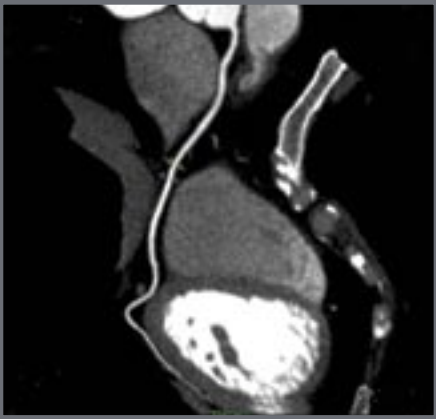
>>> Utera relocation:
3D color reformat

>>> Femoral artery occlusion:
3D MIP



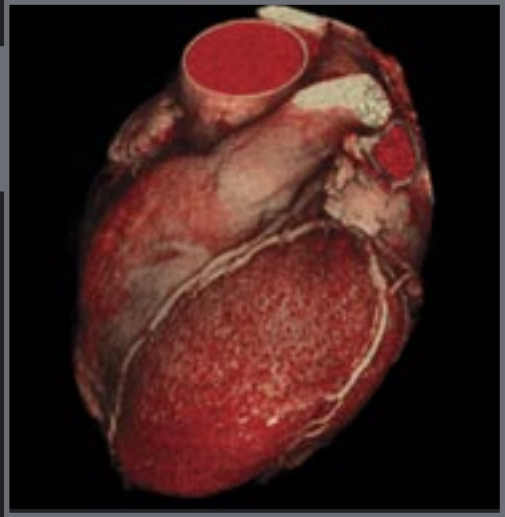
Clinical applications

An integrated suite of clinical applications for the studies you read on a routine basis.



>>> Right coronary artery assessment:
curved reformat

>>> Coronary artery
stenosis: 3D color
reformat



>>> Rectal polyp: 2D axial
review



>>> Thoracic aortic
aneurysm: 3D color
reformat

>>> LAD stent
assessment:
3D MIP



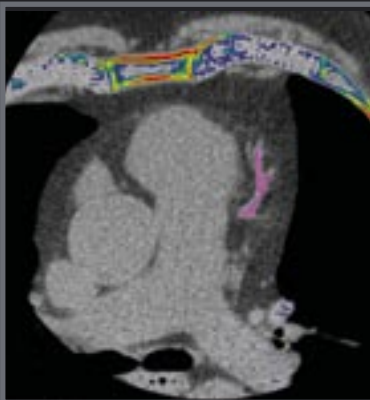
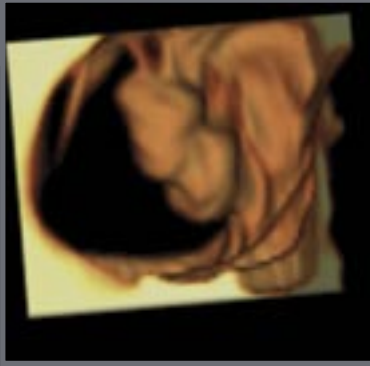
>>> Right carotid
stenosis: 3D color
reformat



Diagnostic tools that transform your studies into real clinical decisions

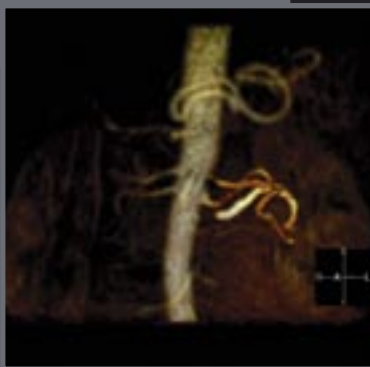
— optimized for fast, easy access

>>> *Pedunculated polyp:
3D color reformat*



>>> *Calcium scoring study:
2D axial review*

>>> *Renovascular disease:
3D color reformat*



Voxar 3D™ CORE

- Live image captures
- Orthogonal, oblique, double-oblique MPR rendering
- Curved and cross-curved MPR rendering
- MIP, AveIP, MinIP and color volume slabs
- 2D review and compare

Voxar 3D™ ADVANCED

- Voxar 3D™ CORE, plus...
- Color volume rendering
- MIP volume rendering
- Grayscale volume rendering
- Shaded surface display
- Fly-through navigation
- Targeted color volume review
- 3D segmentation and volume measurement
- Sculpting and automatic 3D bone removal
- MPR shape selection

Voxar 3D™ clinical applications

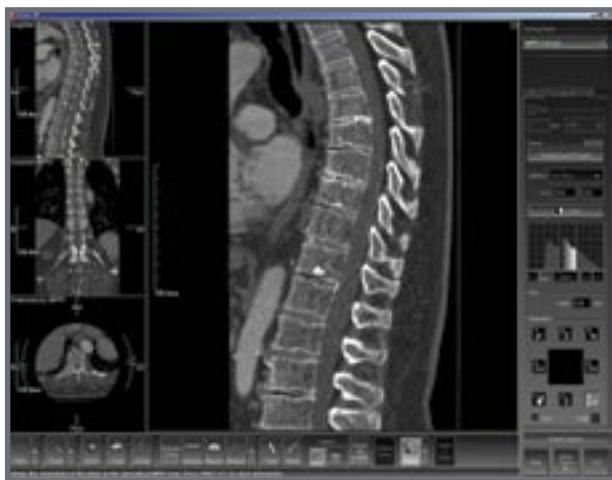
- Vessel analysis with VESSELMETRIX™
- Cardiac analysis with CARDIAMETRIX™
 - Vessel analysis
 - Calcium scoring
 - 4D cardiac viewer
 - Cardiac (LV) analysis
- CT colonography with Voxar COLONSCREEN®**



Make VoxAR 3D™ a routine part of your imaging practice

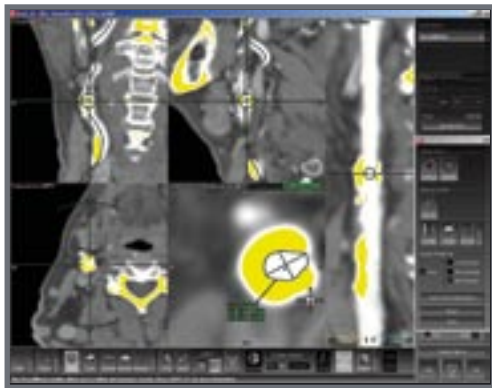
VoxAR 3D™ CORE provides the industry-leading standard in MIP and MPR analysis tools. The easy-to-use solution allows you to access the power of VoxAR 3D™'s MIP and MPR tools, including slabs, obliques and different intensity projections.

VoxAR 3D™ ADVANCED delivers an advanced set of visualization modes including targeted review and fly-through. Powerful segmentation and bone removal tools allow you to create boneless MIPs in seconds.



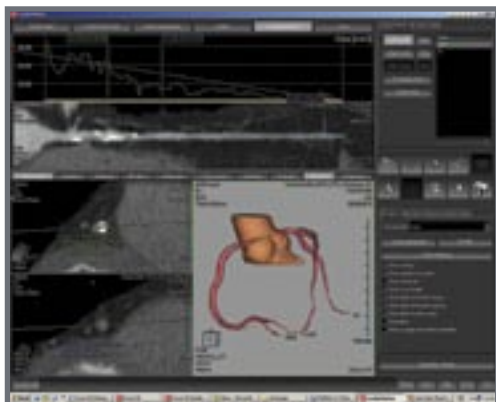
VOXAR 3D™ VESSELMETRIX™

VOXAR 3D™ VESSELMETRIX™ delivers all the tools you need for quantitative vascular analysis and stent-graft planning of CTA and MRA studies on one easy screen.



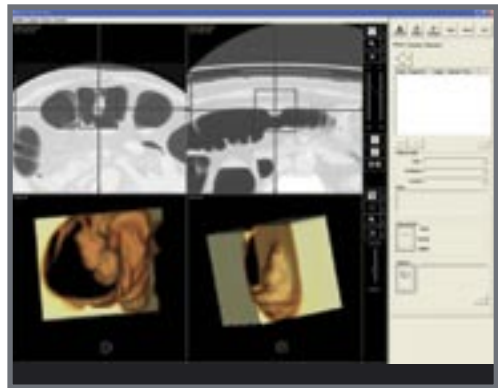
VOXAR 3D™ CARDIAMETRIX™

Vessel analysis is designed for rapid quantitative analysis and planning of complex endovascular cardiac procedures within minutes.



VOXAR COLONSCREEN™

VOXAR COLONSCREEN® is optimized to visualize supine and prone image studies simultaneously in 2D and 3D. Reports are automatically generated on-the-fly as you diagnose.



Calcium scoring calculates the coronary artery calcium score for cardiovascular disease risk assessment with multiple scoring algorithms and user-defined patient reporting.

4D cardiac viewer rapidly visualizes up to 6 phases of the heart to produce 4D movies, thereby facilitating the detection of wall motion abnormalities.

Cardiac (LV) analysis provides fast and consistent quantitative analysis of the LV heart function. Wall motion parameters can be displayed in a graphical and bull's-eye format.

VOXAR 3D™ product family

Features & functionality	VOXAR 3D™ (workstation)		VOXAR 3D ENTERPRISE™		
	CORE	ADVANCED	VOXAR 3D ACCESS™	VOXAR 3D ELITE™	
				CORE	ADVANCED
Live image captures	✓	✓	✓	✓	✓
Orthogonal MPR rendering	✓	✓	✓	✓	✓
Oblique and double oblique MPR rendering	✓	✓	✓	✓	✓
Curved and cross-curved MPR rendering	✓	✓	✓	✓	✓
MIP, AveIP, MinIP slabs	✓	✓	✓	✓	✓
Color volume slab rendering	✓	✓	✓	✓	✓
2D review and compare	✓	✓	✓	✓	✓
Color volume rendering		✓			✓
MIP volume rendering		✓			✓
Grayscale volume rendering		✓			✓
Shaded surface display		✓			✓
Fly-through navigation		✓	✓		✓
Targeted color volume review		✓	✓		✓
3D segmentation and volume measurement		✓			✓
Automatic 3D bone removal		✓			✓
MPR shape selection		✓			✓
Clinical applications					
VOXAR 3D™ VESSELMETRIX™		optional	✓		optional
VOXAR 3D™ CARDIAMETRIX™		optional			optional
Client/server architecture					
Central data and render server software			✓	✓	✓

Features and functionality may vary depending on your PACS integration. Please consult your PACS partner for more details.

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In search of continuous improvement

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