

# Medis specials

## QAngio® XA 3D Research Edition v1.0

Are you starting a research project on coronary artery disease using X-ray angiography?  
Are you interested in advanced 3D assessments such as intraluminal plaque volume, bending angle, bifurcation core volume, reference bifurcation angles, optimal view, foreshortening and overlap?  
Are you part of a Core lab looking for dedicated 3D QCA software package?

QAngio XA 3D Research Edition is the solution by Medis Specials that incorporates some of the most advanced medical image processing algorithms developed at Medis' Applied Research Department for automatic reconstruction of coronary arteries from both monoplane and biplane X-ray angiography and the subsequent 3D quantitative analysis, offering you:

### **great workflow...**

- automatic vessel segmentation and reconstruction
- automatic reference diameter reconstruction
- automatic lesion detection and quantification
- step-by-step widgets guiding you through the entire 3D reconstruction

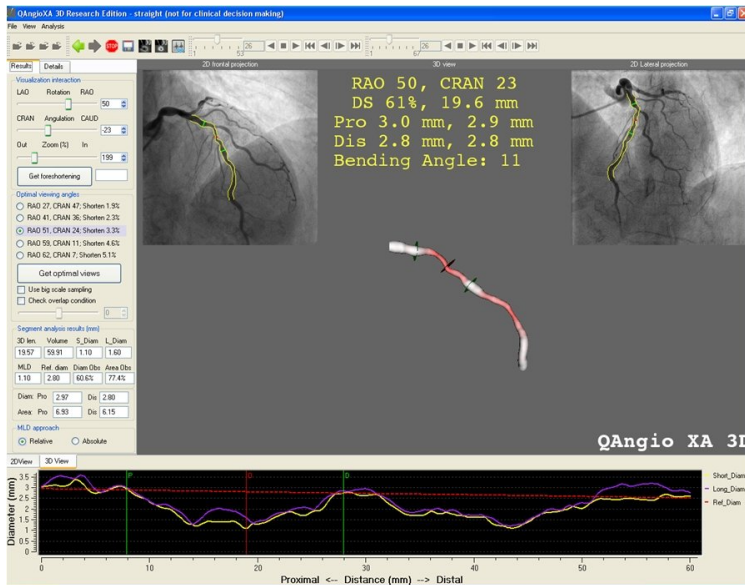
### **great features...**

- imports from any storage media, accepts X-ray angiography from all major vendors
- fast 3D reconstruction of both straight vessels and bifurcations including their reference vessels
- automated markers synchronization between 2D and 3D angiographic views
- innovative overlap prediction and 3D bifurcation core reconstruction
- automated reference contour reconstruction and manual correction options
- supports both automated and manual calibrations
- ECG visualization and synchronization
- edge-segment analysis
- supports saving and reloading the 3D reconstruction in different PCs
- can be installed on any off-the-shelf PC or laptop

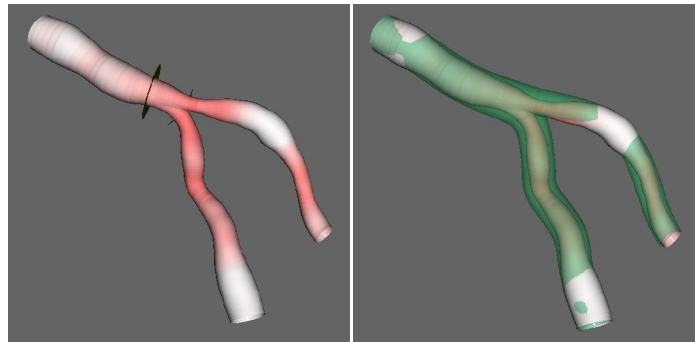
### **... and great results**

- Lumen and plaque statistics:
  - degree of stenosis (diameter and area)
  - minimum lumen diameter and area
  - lesion length and (arterial and reference) volume
  - intraluminal plaque volume
  - lumen size at every position
- New parameters:
  - bending angle and (arterial and reference) bifurcation angle
  - bifurcation core volume
  - optimal views with minimum foreshortening and overlap

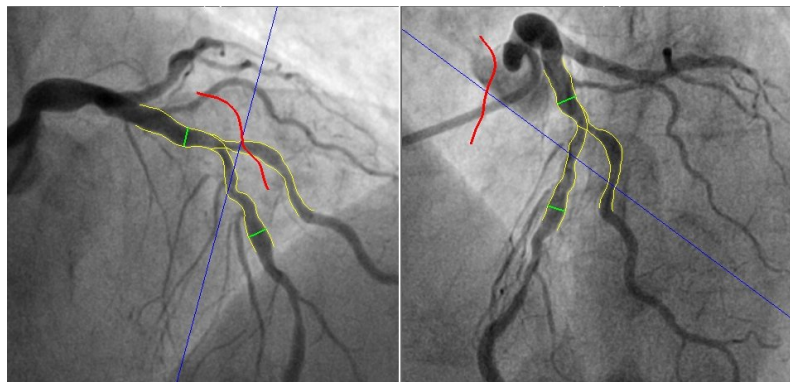
Automatic 3D reconstruction and quantification....



Unique bifurcation reconstruction and bifurcation core quantification...



Innovative overlap prediction and optimal views calculation...



QAngio is a registered trademark of Medis medical imaging systems bv. QAngio XA 3D RE is to be used for research purposes only, and not for primary diagnostics and direct patient care.

**Medis Specials bv**  
Schuttersveld 9, 2316 XG Leiden  
P.O.Box 384, 2300 AJ Leiden, the Netherlands  
Tel: +31 (0)71 522 3244 – Fax: +31 (0)71 521 5617  
[www.medisspecials.com](http://www.medisspecials.com) – [sales@medisspecials.com](mailto:sales@medisspecials.com)