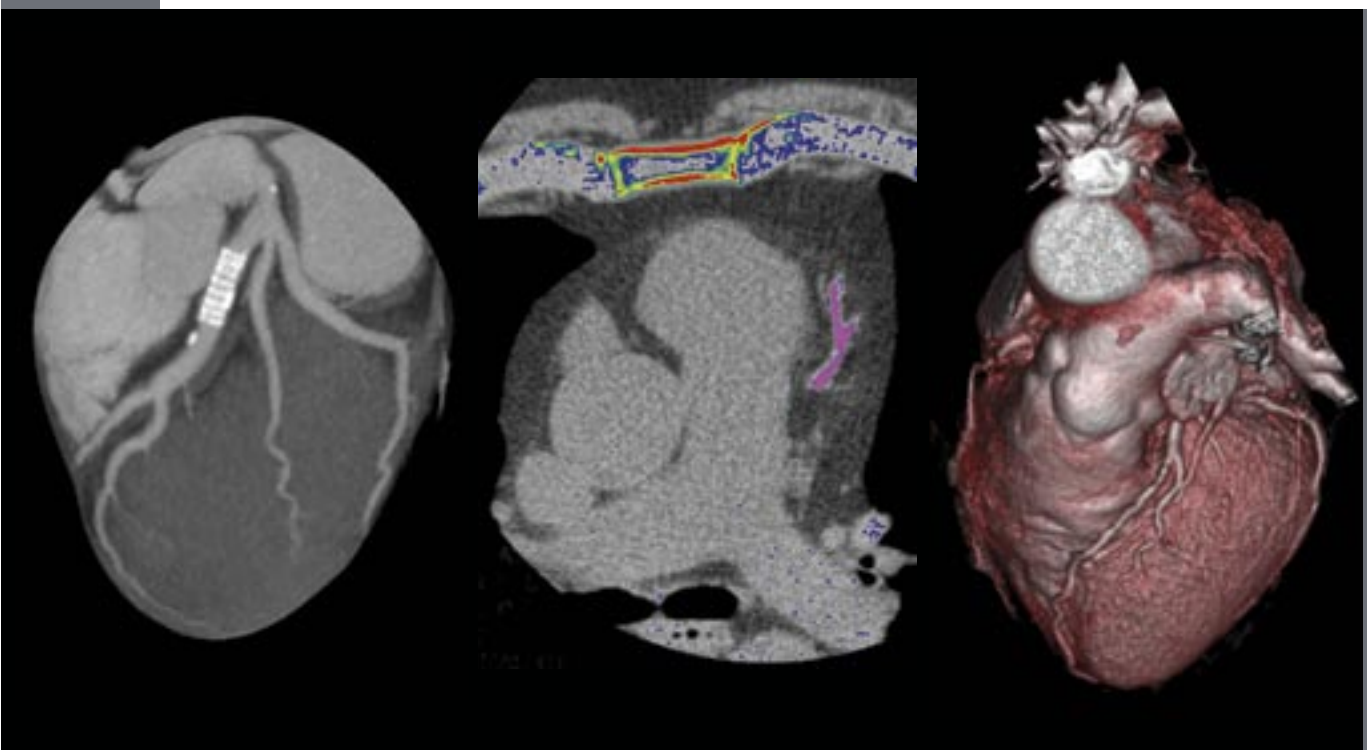
A Voxar 3D™ option

# Voxar 3D™ CardiaMetrix™



CT cardiac structural and functional analysis

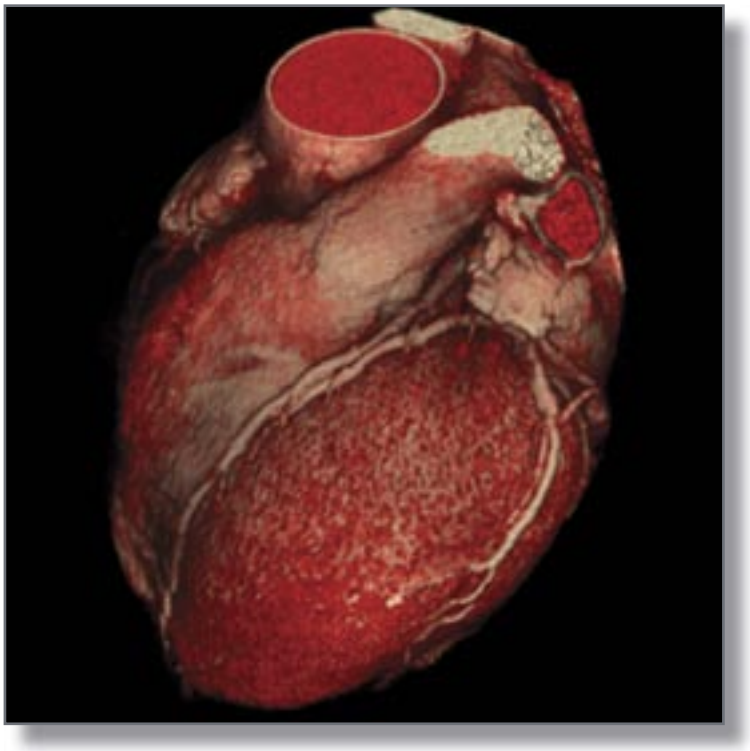
BARCO

Visibly yours

# An integrated suite of cardiac modules, accessible in just one click

**Voxar 3D™ CardiaMetrix™** analyzes multi-phase cardiac CT studies and delivers high-quality visualization of 2D, 3D and 4D cardiac images for quantitative evaluation of cardiac anatomy and function.

As **an integrated suite of cardiac modules**, CardiaMetrix™ provides an intuitive, productive and clinically effective reading methodology that requires minimal user intervention and editing.



- Vessel analysis
- Calcium scoring
- 4D cardiac viewer
- Cardiac (LV) analysis

## Cardiac analysis available throughout the enterprise

>>> CardiaMetrix™ shares Voxar 3D™'s integration with PACS. It provides you with powerful cardiac analysis tools integrated into the heart of your radiology workflow.

>>> Voxar 3D™'s concurrent license program allows you to access CardiaMetrix™ throughout the enterprise wherever you have Voxar 3D™ Advanced installed.

>>> CardiaMetrix™ is available as an option within Voxar 3D Enterprise™'s Elite client.

# Powerful, intuitive tools for structural and functional analysis of contrast-enhanced cardiac studies

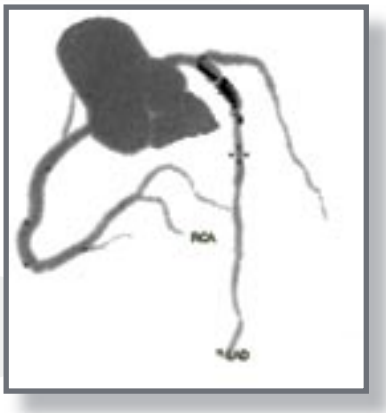
**Voxar 3D™ CardiaMetrix™** incorporates many one-click tools for the automatic calculation of heart function parameters and quantitative analysis of cardiac anatomy, including the coronary vessels.

Voxar 3D™ CardiaMetrix™ provides complete consistency in user experience across the suite of cardiac applications, making CardiaMetrix™ easy and efficient to use.

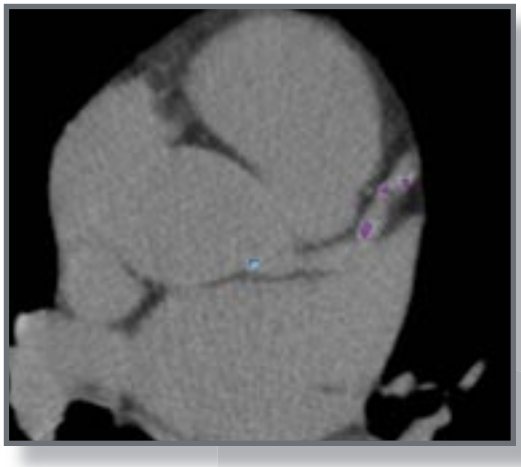

*>>> 3D MIP*

*>>> 3D color volume reconstruction*

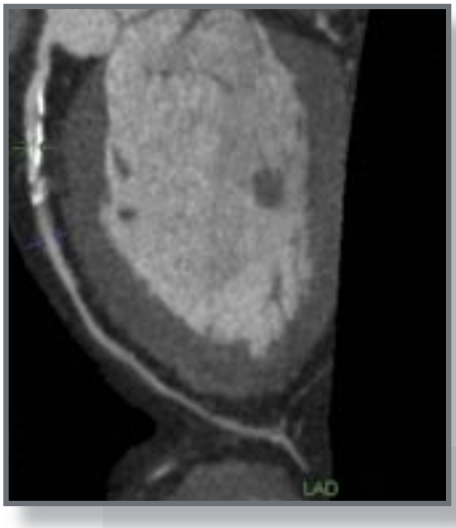
*>>> Curved MPR of the right coronary artery*




*>>> 3D angio*



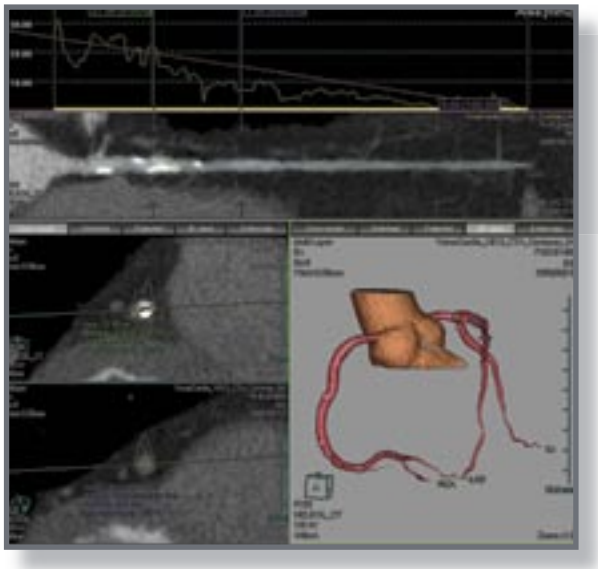
*>>> Calcium scoring study: 2D axial review*



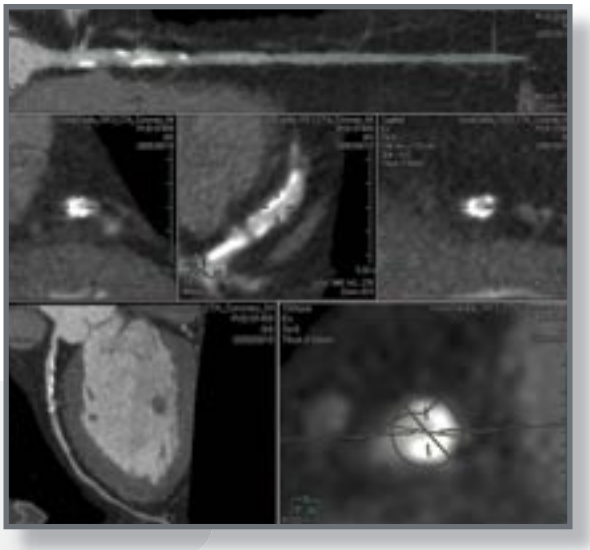

*>>> Curved MPR of the left anterior descending artery*

## Vessel analysis

CardiaMetrix™ automatically extracts, tracks and measures coronary artery vessels. MPR, MIP and 3D views are automatically generated. This facilitates rapid evaluation and planning of complex interventional procedures.



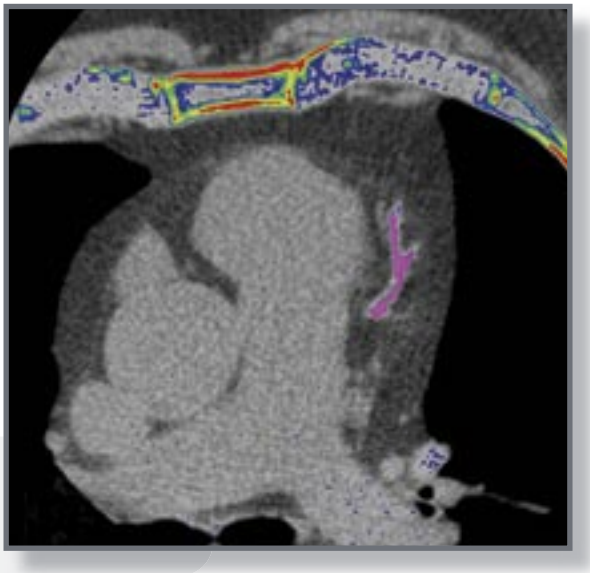
*>>> Automatic, high-speed coronary artery segmentation and centerline finding for single and multiple vessel branches are completed in seconds.*



*>>> A straightened vessel view of the lumen with diameter and area measurements provides quantitative analysis of the entire lumen.*

## Calcium scoring

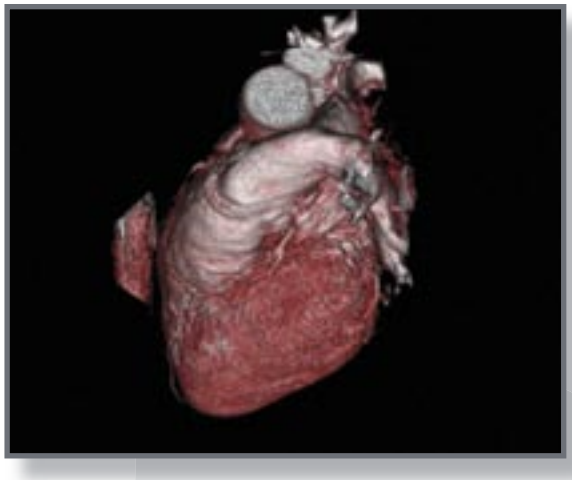
CardiaMetrix™ automatically identifies calcified plaque burden in the coronary arteries and calculates the calcium score. Automatic segmentation and point-and-click calcification assignment features maximize ease-of-use.



*>>> Automatic segmentation and color-coded display of calcium increases reporting speed.*

## 4D cardiac viewer

CardiaMetrix™ rapidly visualizes multi-phase cardiac CT images using up to 6 phases for interactive review.

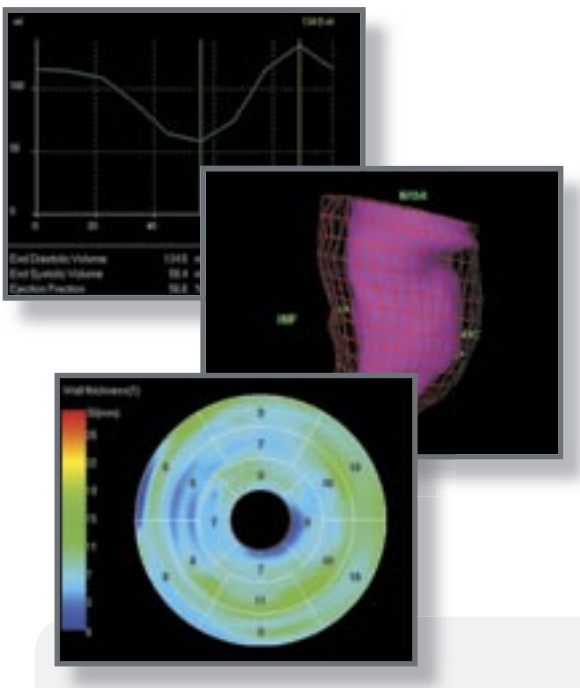


*>>> 4D movies of the beating heart are available in a mouse click.*

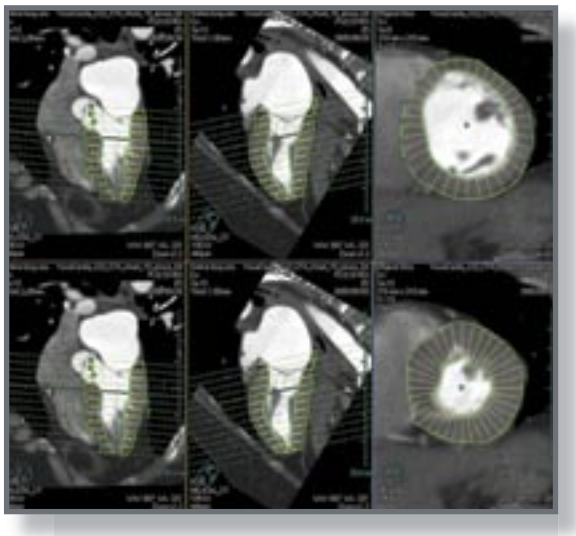
*>>> Short axis and two-, three- and four-chamber long axis views are quickly and easily generated.*

## Cardiac (LV) analysis

CardiaMetrix™ provides quantitative analysis of heart function parameters. Extensive methods of displaying function and wall motion parameters using graphs and bull's-eye plots are used to aid the detection of heart abnormalities.



*>>> Ejection fraction, wall motion, thickness and thickening are available in a graphic or bull's-eye plot format.*



*>>> Automatic blood pool segmentation and detection of epicardial and endocardial contours are quick and accurate.*

*>>> Calculation of end-diastolic and systolic volumes, stroke volume, ejection fraction, cardiac output and index are performed automatically.*

# Voxar 3D™ product family

| Features & functionality | Voxar 3D™ (workstation) | | Voxar 3D Enterprise™ | | |
|---|---|---|---|---|---|
| | | | Voxar 3D Access™ | Voxar 3D Elite™ | |
| | Core | Advanced | | 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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