Product specification sheet

The solution for coronary, peripheral and ventricular angiographic analysis: QAngio® XA 7.3

Angiographic XA viewer

- Convenient movie window for viewing one or more series
- Flexible drag and drop viewer
- Support for XA studies of all major X-Ray vendors
- Synchronized viewing of multiple series
- Adjustable Contrast, Brightness and Gamma levels
- Adjustable window and level values
- Adjustable edge enhancement
- Imaging inversion
- Adjustable movie speed (up to more than 50 f/s) and zooming level
- Automatic reviewing options (either run by run or page by page)
- Adjustable review layout (up to 3 x 3 windows)
- Automatic histogram stretching
- Patient, Image runs and analysis overviews
- ECG viewing
- Different types of annotations and simple measurements
- Comprehensive overview of Patient studies, image series, and analysis procedure for the currently viewed image run

Workflow

- Switch smoothly between viewing and quantification
- User-Specific login options
- Stored results can be reviewed and/or edited
- Available with local or floating licenses
- Easily extendable with new features using additional licenses
- Audit trailing options

Reporting and results

- Short or detailed results overview
- Export of images in different formats (BMP, JPEG, AVI)
- Analysis results can be stored in
  - Dicom files saving the whole run or only the analysis images
  - XML format
  - Structured report
- Analysis report customizable with institute name and logo
- Analysis report can be stored as PDF, secondary captured image or JPEG

Quantitative analyses – General

- Easy contour tracing and editing tools
- Easy to learn standard operating procedures
- Guided workflow
- Extensive adjustment options for graphics colors
- Multiple calibration options:
  - Line, circle, grid and sphere calibration
  - Catheter diameter calibration
  - Isocenter calibration
- Analysis results remain visible in a table overlaying the image after finishing the analysis
- Thin or thick lines for analysis graphics (useful for creating presentation material)

Quantitative analyses – Coronary Arteries

- Automated pathline detection to guide the contour detection
- Automated contour detection
- Automatic reference diameter and reference contour calculation
- Adjustment options for the reference diameter function (user reference and flagging (standard edition))
- Automatic determination of the lesion location and lesion parameters
- Choice between absolute (MLD) or relative (max %D stenosis) lesion location
- Coronary segment naming according to AHA, or ACC/AHA or Syntax
- Special measurement extensions for:
  - (Drug Eluting) stent analysis
  - Subsegment analysis
  - Ostial analysis with and without subsegments
- Special extension for bifurcation analysis including:
  - 2 models: T- and Y-shape analysis
  - Subsegment analysis
  - Different models for relation between proximal and the two distal vessel diameters
  - Medina classification
- Option to detect either obstructions or aneurysms, or both
- Option to duplicate analyses
- Additional length and diameter measurements (standard edition)

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Quantitative analyses – Peripheral Arteries

- Additional marker catheter and marker guidewire calibration
- Subtraction option including pixel shift
- Automated pathline detection to guide the contour detection
- Automated contour detection especially tuned for a large range of vessel diameters
- Adjustment option for the reference diameter function (user reference and flagging (standard edition))
- Automatic determination of the lesion location and lesion parameters
- Choice between absolute (MLD) or relative (max %D stenosis) lesion location
- Special measurement extensions for:
  - (Drug Eluting) stent analysis
  - Subsegment analysis
  - Ostial analysis with and without subsegments
- Special extension for bifurcation analysis including:
  - 2 models: T- and Y-shape analysis
  - Subsegment analysis
  - Different models for relations between proximal and the two distal vessel diameters
- Option to detect either obstructions or aneurysms, or both
- Option to duplicate analyses
- Additional length and diameter measurements (standard edition)

Quantitative analyses – Left Ventricle

- Automated ED- and ES-contour detection (standard edition)
- Volumes corrected for presence of papillary muscles
- Predefined (Kennedy, Heinzten) and user defined volume regression methods
- Calculation of most important parameters: ED-, ES- and stroke volume and Ejection fraction
- Three detailed regional wall motion models (Centerline, Slager and Stanford) including normal value bands

Quantitative analyses – Right Ventricle

- Single plane manual contour tracing and editing tools
- Separate ED and ES RV regression formulas for volume calculations for different angiographic views according to Lange and Heinzen
- User defined regression option

QAngio XA 7.3 options	QAngio XA Basic Edition	QAngio XA
Flagging	**No**	**Yes**
Additional length and diameter measurements	**No**	**Yes**
Additional results like mean, min and max diameters for proximal, lesion and distal segments of the analyzed vessel	**No**	**Yes**
Plaque parameters	**No**	**Yes**
Flow related QCA parameters	**No**	**Yes**
Automated ED- and ES contour detection	**No**	**Yes**
Bifurcation, Des and Ostial analyses	**All optional**	**All optional**
Left and right ventricular analyses	**Both optional**	**Both Optional**

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