QAngio XA 7.3 Quick Reference Card

Calibrating images

If isocenter calibration data is available, then this calibration factor is used by default. The isocenter calibration factor is only valid for measurements at the level of the isocenter.

CALIBRATION IMAGE SELECTION CRITERIA:

- *The object on which you are performing the calibration should be in the same plane as the vessel to be analyzed.*
- *The frame that shows the object must be acquired with the same X-ray gantry and patient table settings as the frame that shows the vessel to be analyzed.*
- *The object must be shown with a minimum of motion.*
- *In case of catheter calibration: It must be contrast-filled and minimum overlap of contrast agent in the aorta.*
- *The object should be big enough to ensure accuracy.*

1. Select the frame that best meets the **selection criteria**
2. Select the wanted calibration type: circle, sphere, line, or manual , catheter , marker catheter , or grid calibration.
3. Follow the instructions in the wizard.
4. The last wizard step shows the calibration factor.
5. Check the Coefficient of Variation / Relative Precision.
6. When ok, click **Done**.

Performing vessel analyses

ANALYSIS IMAGE SELECTION CRITERIA:

- *In case two or more views are available, select the image showing minimum foreshortening of the target vessel.*
- *The vessel must have a minimum of motion. ED phase is recommended. When not possible ES or DIA.*
- *The vessel must be fully contrast-filled.*
- *No vessel overlap. Especially, at lesion site.*

1. Select the frame that best meets the **selection criteria**.
2. Select the wanted analysis type: straight , straight with subsegments , brachy , DES , ostial , ostial with subsegments , bifurcation , or bifurcation with edge segments . For some analysis types there are specific steps in the wizard. In this document are the steps valid for all analysis types.
3. Create a vessel pathline (**Pathline** step)
4. Verify and edit arterial contours (**Contours** step)
5. Verify and edit reference contours (**Reference** or **Markers** step)
6. Verify and edit the position of the lesion (**Markers** step)
7. Labeling results (**Results** step)

Performing ventricle analyses

1. Select a frame with a contrast-filled (LV or RV) ventricle of a normal heart beat in ED phase.
2. Click the arrow besides the ventricular analysis button and select the analysis: left ventricle or right ventricle . (For the right ventricle analysis continue with steps 4 and 6)
3. Place landmarks in ED frame. Select ES frame and place landmarks. The contours will be detected. (**Landmarks** step)
4. Create, or verify and edit the ED and ES contours (**Contours** step)
5. Verify and edit the mitral valve (**Mitral Valve** step)
6. Labeling results (**Results** step)

Creating a report and save results

1. In the Procedures pane, select the study for which you want to create a report.
2. Click or select **View > Report...**
3. Click to print the report.
4. Go to **File > Export Report** to export the report.
5. Click to save the results.

QAngio XA Tools

Button	Name	Description
	Open	Loading dataset
	Save As	Save results
	Close image run	Close the active image run in the review window
	Close patient	Close all files of the active patient
	Report	Open the report
	Print report	Print the report
	Print preview	Open the print preview
	User manual	Open the user manual
	Patient-study pane	Pane with opened patients and studies
	Thumbnails pane	Pane with image run-thumbnails
	Procedures pane	Pane with all procedures done
	DICOM info pane	Pane with DICOM info of the selected image run
	Display control pane	Pane with display control options
	Curve data pane	Pane with ECG signal

Button	Name	Description
	Subtraction	Turn on/off viewer subtraction
	Subtraction dialog	Subtraction options
	Calibration	Start calibration wizard
	Distance measurement	Calculates distance with multiple lines
	Straight segment analysis	Wizard for straight, straight with subsegments, brachy, or DES analysis
	Ostial analysis	Wizard for ostial, or ostial with subsegments analysis
	Bifurcation analysis	Wizard for bifurcation, or bifurcation with edge segments analysis
	Ventricular analysis	Wizard for left, or right ventricular analysis
	Measurements	Measurements: line, angle, baseline angle, free-hand, and area
	Annotations	Annotations: text, arrow, bullet, and balloon

Button	Name	Description
	Review run	Review previous or next image run
	Review page	Review previous or next page of image runs
	Review patients	Review current or all patients
	Change layout	Change review window layout
	Synchronization	Turn on or off synchronization
	Invert	Invert the image
	First/Last frame	Go to the first or last frame
	Previous/Next frame	Go to the previous or next frame
	Play	Play image run backwards or forwards
	Stop	Stop playing the image run
	Frame slider	With this slider you can go through the frames
	Speed slider	With this slider you can regulate the movie speed
	Zoom slider	With this slider you can zoom the image