iNtuition

a terarecon technology

Using iNtuition – CPR Tool – Airway Flythrough Virtual Bronchoscopy

Quick Guide for Customers

Notices

Precautions and Warnings Related to Software Use

This quick step guide is not a replacement for the full manual. Please review the Aquarius iNtuition™ Client User Manual for all warning messages, notices and precautions prior to using the software.

About the Guides

Aquarius iNtution™ Quick Step Guides are intended to be used as a step-by-step guide through typical workflows and should be used in conjunction with clinical application training. The guides are not a substitute for clinical applications training.

Regulatory Notice

Some images may display tools that are not cleared for clinical or diagnostic use the FDA-510k and may only be used for research purposes only. If you are interested in these application tools, please contact your account representative for more information.

Note: Customers who have an integration with a PACS system, please verify upgrade timelines with your PACS vendor.

For additional support, or to Contact TeraRecon, Inc.

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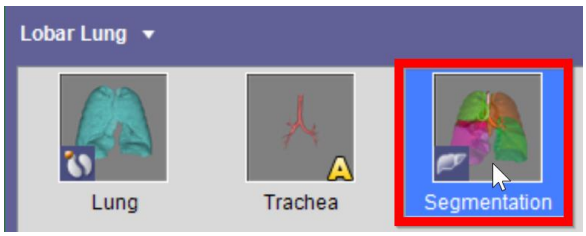
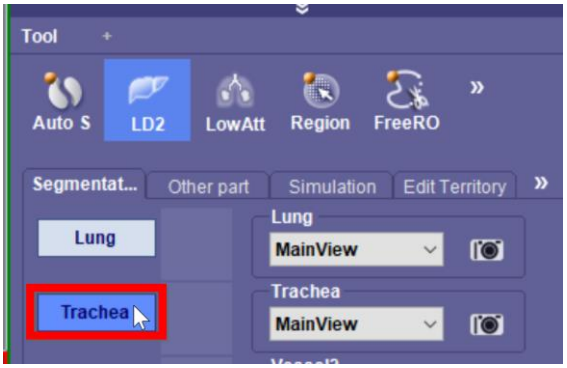
Quick Steps: CPR Tool:

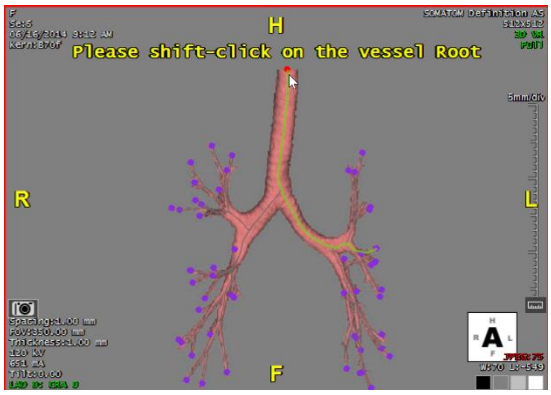
1. Load series into viewer- choose any workflow template. If you have the license for LD2, opening the Lobar Lung workflow and use the automatic segmentation of the Trachea and generate multiple centerlines with one click.
    a. Left Click on the Trachea workflow element, allow the system to auto segment the trachea.

    b. Left Click on the Segmentation Workflow element.



    c. Left Click on the Trachea icon. The 3D Viewer will instruct you to Shift + Left Click on the vessel root to generate the centerline tree.



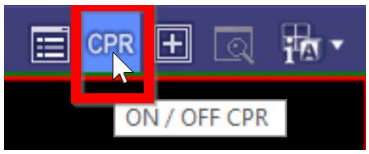


2. If performing either method of segmentation to generate the centerlines, be sure to clear mask when finished.

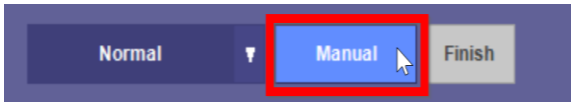
If generating the centerline manually:

1. Choose which view to work on.
    a. Axial allows for centering anterior, posterior, left, and right which requires scrolling through majority of dataset.
    b. Coronal allows for less scrolling through images, and able center for left and right alignment.
    c. Sagittal allows for minimal scrolling and allows for anterior and posterior alignment.

2. Open the CPR tool in the top tool bar or in the tool panel on the right side of the monitor.
    a. If you do not see it in the tool panel, left click on the double arrows to open a window with the additional tool options.



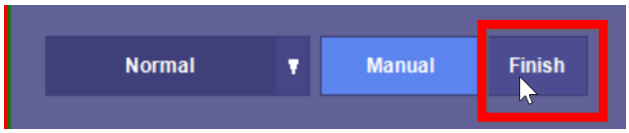
3. Choose the Manual icon for Airway centerline creation.



4. Scroll to the very first slice on the axial dataset.
    a. If using the sagittal or coronal image, make sure you are using an image where you are centered in the airway.

5. Hold shift + left mouse click and release to drop points for the centerline, scroll down several slices and repeat the process until reaching the desired end location.
    a. Place points from the top to the bottom, in the center of the airway.

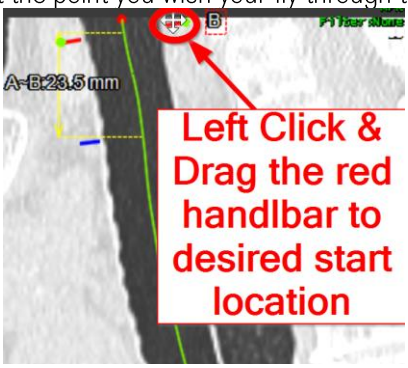
6. Left click on the Finish icon to complete the centerline.



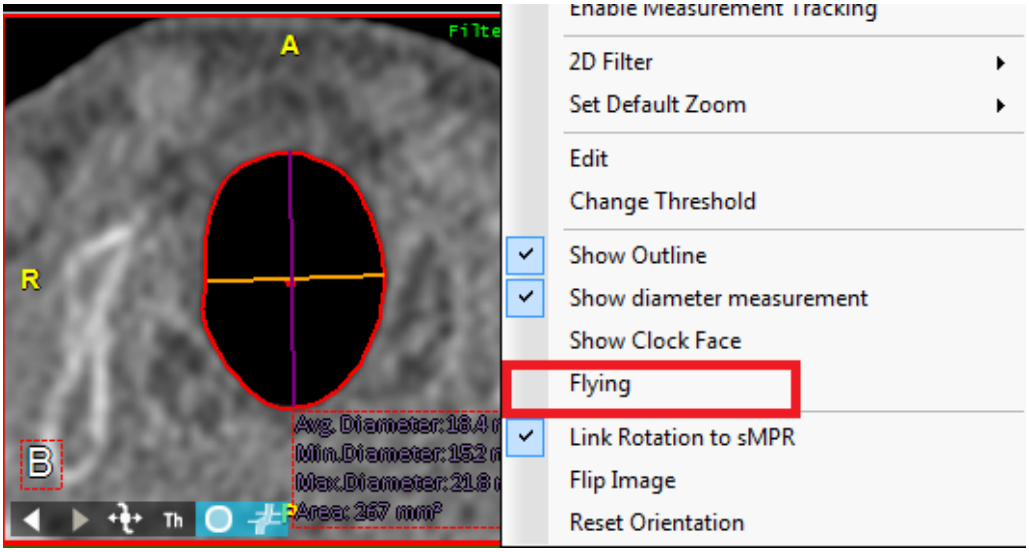
7. Edit the centerline points if any are off center.
    a. Be sure to check both the Coronal and Sagittal views to make sure the centerline is centered Anterior to Posterior and Right to Left.

To flythrough the airway:

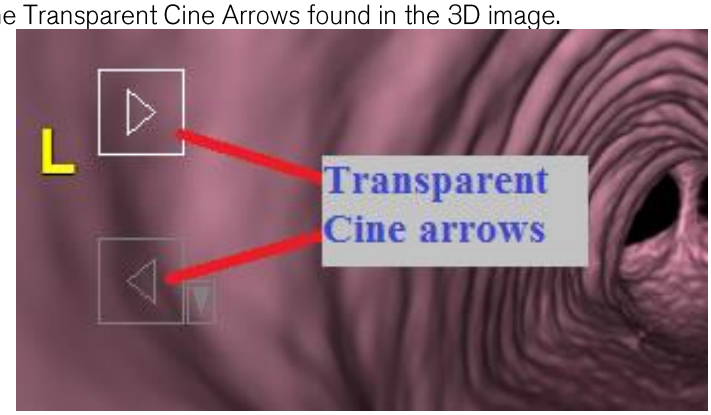
1. Left click and drag the Red Bar at the point you wish your fly through to start.



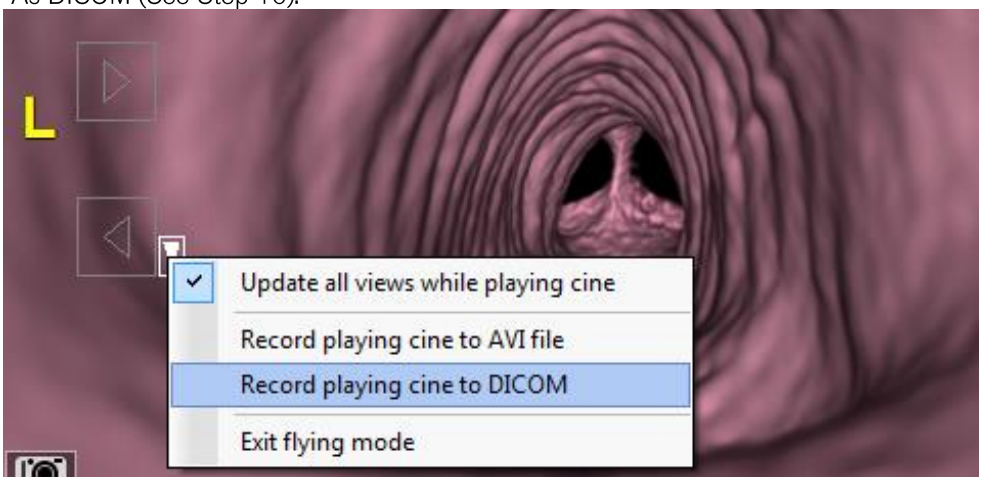
2. Within the Orthogonal View (Axial), Use the Right Mouse Menu to Select “Flying.”



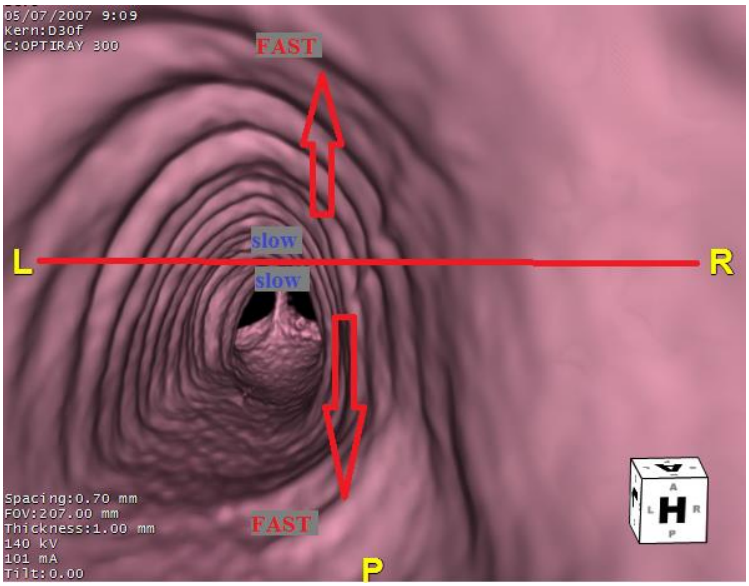
3. The 3D image will now be a 3D perspective view.
   a. To Fly, Use the Transparent Cine Arrows found in the 3D image.



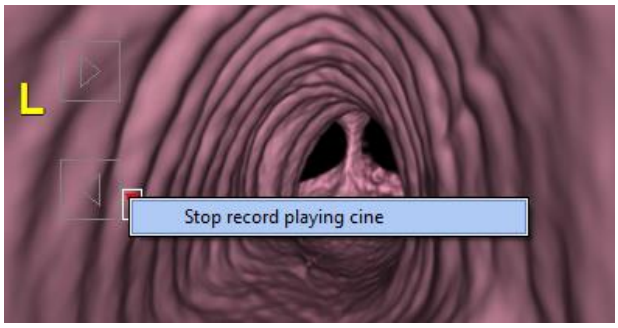
4. To Record Flight Path as either DICOM or AVI, Select Drop down arrow.
   a. As AVI, select Save location.
   b. As DICOM (See Step 10).



5. Use your Mouse to control the speed and direction of the flight.



6. When Finished with Flight Path, select drop down arrow (red while recording), follow prompts.



7. If images saved as DICOM, Select Send Location and create Series Description.