



## myrian® XP-Lung

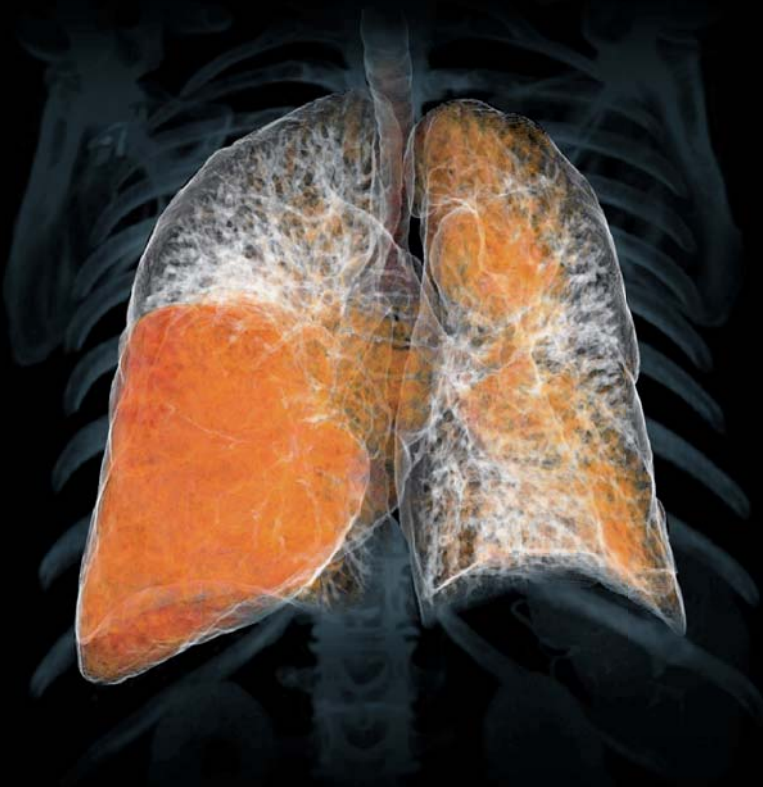
“Seamless integration of lung volume measurement tools within the diagnosis workstation for surgical planning and pathological characterization”

The Myrian® XP-Lung module completes and documents thorax radiology diagnoses and opens new possibilities for surgeons and lung physicians alike. Run the assisted lobe and airways segmentation tools, visualising the results in volume rendering to examine the distribution of parenchymal and pathologic lung tissues. Characterize and quantify these tissues in each lobe using density analysis tools. Check the integrity of the lung fissures and calculate measurements in both 2D and 3D. You can simulate a lobectomy using the surgical planning tool. Create a path through the airways to perform virtual bronchoscopy in seconds and prepare a surgical intervention. Featuring high quality 3D rendering, integrated report builder, a snapshot scrapbook and exportability to PACS or CD, Myrian® XP-Lung is a must-have, both to complement your diagnoses and to enhance interdepartmental communication.

### Prof. François LAURENT

Bordeaux University Hospital (France)

«With Myrian® XP-Lung, which is perfectly integrated into my Myrian® Expert VL diagnostic workstation, I am able to instantly segment lungs one lobe at a time and at once visualise pathologic structures in MPR or in 3D. I used its advanced measurement tools to great effect to carry out my research work on the bronchial wall.»



### Integrated report builder

Build detailed reports including volume measurements and 3D images in one click

### Virtual bronchoscopy

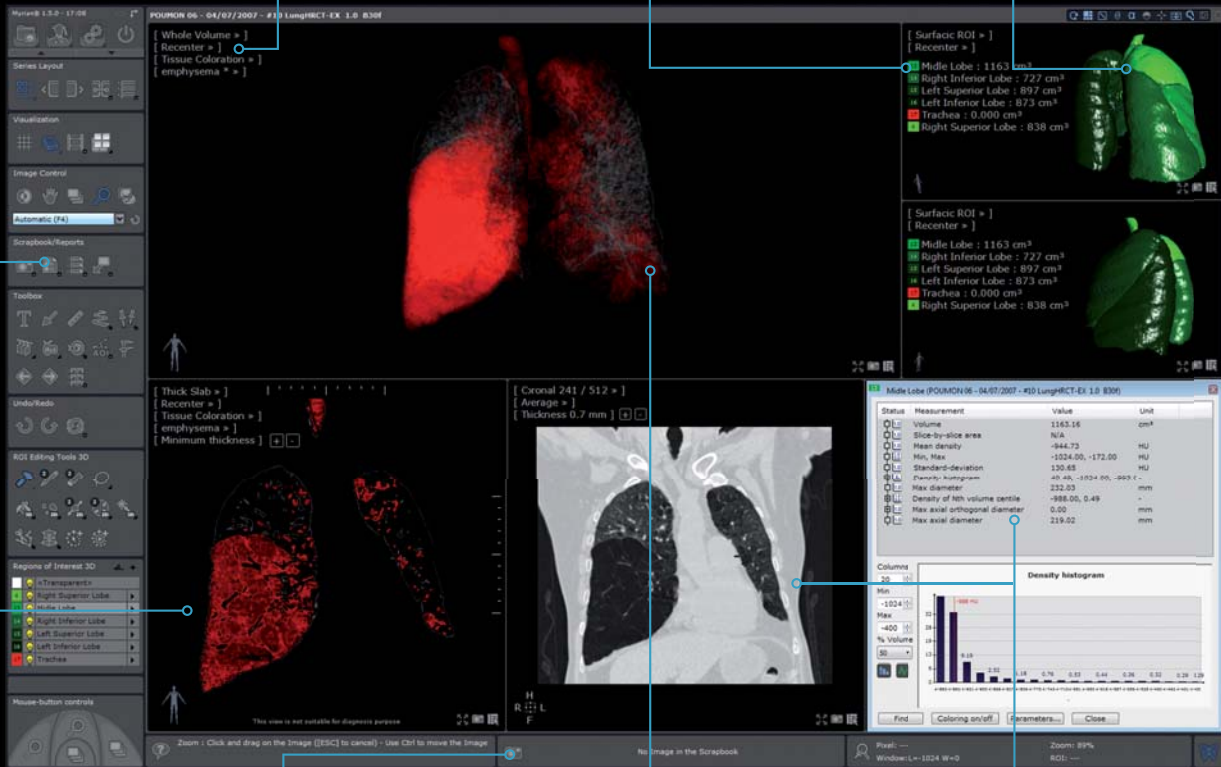
The virtual endoscope is very simple to manoeuvre. Explore airways, locate tumours and plan surgery

### Volume measurement of the lung

Use the automatic segmentation algorithms to instantly obtain accurate and reproducible lung volume measurements

### Surgery simulation

The modifiable cutting surface is a user-friendly tool for planning and simulating lobectomy or separating lung tissues from airways



### Study comparison

Compare reconstructions such as inhaled/exhaled lung volumes

### Communication

Produce descriptive images in volume rendering mode for surgeons or lung physicians and export them to the PACS, Avi movies or RTF documents

### 3D visualisation

Explore airways and visualise various tissues with advanced 3D modules such as endoscopy, surfacic or volume rendering

### Density analysis

By characterizing the density of the lung lobes and by adjusting the threshold values, underline a particular pathology such as emphysema

### Tools

- Automatic lung tissue segmentation with threshold adjustment
- Separation of left lung and right lung as well as the airways
- Surgery simulation (lobectomy) with post-surgery volume measurement
- Characterization of tissues with volume and density analysis
- Smart protocols with optimized workspace
- Advanced visualisation in surfacic mode
- Virtual bronchoscopy



**Compatibility**  
Myrian® Expert VL

Available on stand-alone Windows®, Vista® or 7™ workstations or in thin client architecture.

Contact your sales engineer for minimum and recommended hardware configurations

