



## RespiSim® ESSENTIAL: ALL-IN-ONE RESPIRATORY SIMULATION SOLUTION

Designed to include everything that educators need to provide effective ventilator management training through experiential learning to make learners unequivocally competent and provide the best patient outcomes.

RespiSim® Essential for ventilator management training is built around the world's most realistic breathing simulator the ASL 5000®. With RespiSim® Essential, you can conduct high-fidelity ventilation management training in anesthesia, critical care, emergency medicine, pulmonology, and respiratory care.

## All-In-One Respiratory Simulation Solution

- Provide effective simulation-based experiences with high physical, conceptual and physiological fidelity
- Reap the benefits of simulation-based training without the hassle of complicated software or restrictive scenario-building capabilities
- Train all levels of learners across multiple disciplines on the full scope of ventilation management and patient care with one solution

Effectively train all respiratory topics – basic through advanced

- Weaning
- Lung recruitment
- Lung protective ventilation
- Recognizing over-distention
- Initiation of mechanical ventilation
- Finding optimal PEEP
- Patient-ventilatory synchrony
- ... and many more



## ASL 5000® Breathing Simulator

The RespiSim® Essential core is the high-fidelity ASL 5000® Breathing Simulator. The ASL 5000®'s unique design makes it possible to precisely craft very realistic breath profiles. Users can simulate complex disease states and conditions including ARDS, COPD, emphysema, cystic fibrosis, chronic bronchitis, pneumothorax, apnea, pneumonia, bronchospasm, or weaning off a paralytic/waking from anesthesia..

### Features of ASL 5000®

- Spontaneous breathing: breath rate passive to 100 breath/minute and patient effort (muscle pressure) 0 to 50 cmH<sub>2</sub>O
- Holds PEEP at any level, even < 20 cmH<sub>2</sub>O
- Lung compliance from 0.5 to 250 mL/cmH<sub>2</sub>O
- Airway resistance from 3 to 350 mL/cmH<sub>2</sub>O
- 1 or 2 lung compartment modeling
- Inspiratory and expiratory resistance values can be set separately
- Tidal volume 2 mL to 2.1 L
- Neonatal to adult patients
- Use with any ventilator, BiPAP or CPAP device



## RespiSim® Software

The RespiSim® Software allows medical educators access to the realism and precision of the ASL 5000® with a user interface designed specifically for their needs. The RespiSim® Software enables hands-on, immersive training through structured, multiphase simulation scenarios that engage students in “clinical storytelling.” The instructor can amplify effects, challenge learners with unexpected events, or intervene to get the simulation back on track and ensure that learning goals are met. The software includes 60+ validated Lung Models.



SCAN THE QR CODE TO LEARN MORE ABOUT RespiSim® ESSENTIAL



3B Scientific Group

Headquarters · Ludwig-Erhard-Strasse 20 · 20459 Hamburg · Germany · [3bscientific.com](http://3bscientific.com)