



# SIMBIONIX TRAUMA<sup>VR</sup>

The Ultimate Mix of Manikin  
and VR Simulation

## **An All-New Immersive, Mixed-Reality Airway Management Training Experience.**

Preparing clinicians for treating emergency trauma patients can be challenging. Patient manikins are limited in versatility of clinical scenarios and patient anatomies covered, unable to track all trainee actions and require substantial investment. Training with existing immersive VR simulators lacks instrument operation realism and tactile feedback.

Both types of simulators do not track instrument operation inside the patient's body.

The TraumaVR simulator overcomes these challenges by combining a manikin and instruments with immersive VR simulation.

This provides trainees with an unprecedented training opportunity of psychomotor and cognitive knowledge and skill acquisition in airway management. With the most realistic virtual reality environment, it embeds trainees in the stressful situation, unlike any other simulator.

Get your trainees ready to respond to a wide range of emergency trauma situations. Instantly switch the training environment or patient's anatomy and pathology to allow limitless hands-on training.

## Who can benefit?

The TraumaVR simulator is perfect for training emergency physicians, first responders, critical care physicians, and anesthesiologists.

## Platform

The simulator is comprised of a realistic and durable patient manikin, instruments, VR kit, a tracking system, a PC and a touch monitor.

## Simulator Features:

- Instrument tracking: laryngoscope, bag valve mask, ET tube, stethoscope and suction tube
- Detailed curriculum covering common techniques such as Jaw Thrust and BURP
- Realistic oral cavity anatomy and physiology
- Tactile sensation of instruments inside the patient's mouth/throat
- Performance assessment at the end of simulation
- Optional proctored or self-directed training
- Dynamic complications
- Vital signs affected by patient management and drug administration

## Benefits:

- Cost effective - the TraumaVR simulator allows scenarios to be changed with no additional personnel or materials needed and minor maintenance cost
- Simple to operate - using TraumaVR simulator, training scenes and scenarios can be easily switched, or team members added to the training
- Versatile training - TraumaVR simulator incorporates various scenarios, difficulty levels, patient anatomies, injury types, consciousness levels, and surroundings to create customized simulations

## Training Solutions Comparison

	TraumaVR	Patient Manikin Simulators	Immersive VR Simulation
Instrument Operation	YES	YES	X (VR handles)
Instrument Tracking	YES	X	X
Manikin Tracking	YES	X	X
Tracked User Actions	All	Successful Ventilation Identified	All
Maintenance Cost	Minor	Significant	Minor
Integrated Complex Scenarios	YES	X	YES