



Emergency Care & Trauma

Improving patient outcomes
with team training of acute
intervention procedures

SimMan[®] Vascular

SimMan Vascular is built on the trusted SimMan 3G platform with built-in Mentice VIST[®] endovascular technology to extend the immersive training course potential to the Endovascular Specialists, Cath Lab team, and Pre-Hospital care providers.

SimMan® Vascular

VASCULAR ACCESS <ul style="list-style-type: none"> • IV access (right arm) • Intraosseous access (tibia) • Automatic Drug Recognition System 	BREATHING COMPLICATIONS <ul style="list-style-type: none"> • Cyanosis • Needle thoracentesis – bilateral • Unilateral & bilateral chest movement • Unilateral, bilateral & lobar breath sounds • Chest tube insertion - bilateral 	<ul style="list-style-type: none"> • Realistic compression depth and resistance • Detection of depth, release and frequency of compressions • Real time feedback on quality of CPR 	SYSTEM FEATURES <ul style="list-style-type: none"> • Wireless instructor computer with LLEAP software • Control simulation from anywhere on your network • Use Manual Mode to run "on-the-fly" for total control over all parameters • Utilize Automatic Mode with pre-programmed scenario for a simple and standardized a simulation <ul style="list-style-type: none"> - Patient cases utilizing physiological and pharmacological models - Pre-programmed scenarios - Self-authored content • Simulation controls; fast forward, pause, rewind, save/restore • Profile editor • Future prediction and patient outcome display • Integrated video debriefing • Time stamped activities, vital signs, and instructor comments are captured in the event log
MULTIPLE AIRWAY SKILLS/FEATURES <ul style="list-style-type: none"> • Controllable open/closed airway; automatically or manually controlled • Head tilt/Chin lift • Jaw thrust w/articulated jaw • Suctioning (Oral & Nasopharyngeal) • Bag-mask ventilation • Nasal cannulation • Orotracheal/Nasotracheal intubation • Combitube, LMA, and other airway placement • Endotracheal tube intubation • Retrograde intubation • Fiberoptic intubation • Transtracheal jet ventilation • Needle/Surgical cricothyrotomy • Variable lung compliance – 4 settings • Variable airway resistance – 4 settings • Right main stem intubation • Stomach distention 	CARDIAC FEATURES <ul style="list-style-type: none"> • Extensive ECG library • Heart sounds – four anterior locations • ECG rhythm monitoring (4 lead) • 12 lead ECG display • Defibrillation and cardioversion • Pacing 	EYES <ul style="list-style-type: none"> • Blinking - slow, normal, fast and winks • Open, closed and partially open • Pupillary accommodation: <ul style="list-style-type: none"> - synchrony/asynchrony - normal and sluggish speed of response 	
AIRWAY COMPLICATIONS <ul style="list-style-type: none"> • Detection of proper head position • Can't intubate/Can ventilate • Can't intubate/Can't ventilate • Tongue edema • Pharyngeal swelling • Laryngospasm • Decreased cervical range of motion • Trismus 	CIRCULATION FEATURES <ul style="list-style-type: none"> • BP measured manually by auscultation of Korotkoff sounds • Carotid, brachial, radial, dorsalis pedis, popliteal and posterior tibialis pulses synchronized with ECG • Pulse strength variable with BP • Pulse palpation is detected & logged 	OTHER FEATURES <ul style="list-style-type: none"> • Seizure/Fasciculation • Bleeding <ul style="list-style-type: none"> - Simulation of bleeding at multiple sites - Arterial and venous - Vital signs automatically respond to blood loss & therapy - Works with various wound modules & moulage kits • Urine output (variable) • Foley catheterization • Secretions <ul style="list-style-type: none"> - Eyes, Ears, Nose, Mouth - Blood, Mucous, CSF, etc. • Diaphoresis • Bowel Sounds – four quadrants • Patient Voice <ul style="list-style-type: none"> - Pre-recorded and custom sounds - Instructor can simulate patient's voice wirelessly • Instructor Communication <ul style="list-style-type: none"> - Multiple instructors communicate using integrated voice over IP • Fully articulating pelvis • Leg rotation in all natural directions 	PATIENT MONITOR <ul style="list-style-type: none"> • Touch-screen simulated patient monitor provides concise clinical feedback for physiological parameters • The monitor's color screen is configurable and provides multiple simulated parameters, each presenting multi-level alarms • Simulated parameters include ECG (2 traces), SpO2, CO2, ABP, CVP, PAP, PCWP, NIBP, TOF, Cardiac output, temperature (core and peripheral), additional and programmable parameters e.g. ICP • X-Ray Display • 12 Lead ECG • Custom image display • Custom video display • Oxygen saturation and waveform
BREATHING FEATURES <ul style="list-style-type: none"> • Simulated spontaneous breathing • Bilateral and unilateral chest rise and fall • CO2 exhalation • Normal and abnormal breath sounds <ul style="list-style-type: none"> - 5 anterior auscultation sites - 6 posterior auscultation sites • Oxygen saturation and waveform 	ENDOVASCULAR PROCEDURES: <ul style="list-style-type: none"> • Access points: <ul style="list-style-type: none"> - Left femoral artery/ vein - Right femoral artery • AMI • Stroke • Trauma • Interventional surgery • REBOA- Aortic Balloon Occlusion • Ballooning • Stenting • Embolization • Aspiration • Radiation safety 	PHARMACOLOGY <ul style="list-style-type: none"> • Automatic Drug Recognition System identifies drug & dose • Extensive drug formulary • Automatic or programmable physiological responses 	
	CPR <ul style="list-style-type: none"> • Compliant with current Guidelines • CPR compressions generate palpable pulses, blood pressure waveform, and ECG artifacts 		

ORDERING INFORMATION

- 222-02050 SimMan Vascular
Includes: SimMan 3G Simulator with Endovascular Functionality, Laptop, Keyboard, Mouse with USB, Screen, Clinical Device Kit, HD web camera, Headset/Microphone with USB, SpO2 probe with USB, LLEAP Software License, Mentice Software License.
- 222-88050 SimMan Vascular 3 year Tech Service
Includes: On-site Installation Service, 3 year annual Preventive Maintenance On-site, 2 year Extended Warranty. This is a required services for SimMan Vascular.



Visit Laerdal.com/SimManVascular for a complete list of specifications, parts, accessories and services

