



Advanced training in respiratory and critical care

SimMan Critical Care

SimMan Critical Care offers versatile and comprehensive training in critical care, respiratory care, and anesthesia practice. Built on SimMan's trusted legacy in medical simulation, SimMan Critical Care seamlessly integrates ASL 5000[™] technology to replicate any patient condition, immersing current and future clinicians in lifelike scenarios that allow them to master the skills needed to manage a critically ill patient.

Designed for in situ simulation, tetherless operation enables learners to progress through transitions of care from pre-hospital to ICU, practicing basic to advanced ventilation management for a cutting-edge training experience, aligning healthcare education with the demands of the evolving healthcare landscape.

SELLSHEET

SimMan Critical Care

RESPIRATORY SPECIFICATIONS

- Resistance 3 to 150 cmH2O/L/s
- Compliance 5 to 150 mL/cmH2O
- Breath rate Passive to 100 bpm
- Patient effort 0 to 50 cmH2O
- Inspiratory time Rise time 0-100%
- Tidal volume 900 mL
- Holds PEEP .20 cmH2O
- Simulate tracheal and L/R bronchial resistances
- Simulate independent inspiratory and expiratory resistances
- Simulate independent L/R lung compliance
- Tetherless respiratory function and control

MULTIPLE AIRWAY SKILLS/FEATURES

- 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
- Right main stem intubation
- Stomach distention

AIRWAY COMPLICATIONS

- Detection of proper head position
- Can't intubate/Can ventilate
- Can't intubate/Can't ventilate
- Tongue edema

Operation

- Pharyngeal swelling
- Laryngospasm

ORDERING INFORMATION

212-05350 SimMan Critical Care Light

212-05250 SimMan Critical Care Dark

212-05150 SimMan Critical Care Medium

SimMan Critical Care is available in one of four configurations.

Full body simulator with RFID arms and LiveShock

SimMan Critical Care is operated by LLEAP and offers

Incorporate SimCapture for a complete debriefing solution.

4 computer and simulated patient monitor options.

Full body simulator with articulating arms, NIBP and LiveShock

Full body simulator with RFID arms and Defibrillation Studs

Includes: SimMan Critical Care Manikin, LLEAP Software and License, Wounds Kit, Specially Designed Clothing (Trousers and Shirt), Simulated Patient Cables

For more information, visit Laerdal.com

Full body simulator with articulating arms, NIBP and Defibrillation Studs

- Decreased cervical range of motion
- Trismus

- BREATHING FEATURES
- Simulated spontaneous breathing
- Bilateral and unilateral chest rise and fall
 CO2 exhalation
- Normal and abnormal breath sounds
- 5 anterior auscultation sites
- 6 posterior auscultation sites
- Oxygen saturation and waveform

BREATHING COMPLICATIONS

- Cyanosis
- Needle thoracentesis bilateral
 Unilateral & Bilateral chest movement
- Unilateral. Bilateral & lobar breath sounds
- Chest tube insertion bilateral
- CARDIAC FEATURES
- Extensive ECG library
- Heart sounds four anterior locations
- ECG rhythm monitoring (4 wire)
- 12 lead ECG display
- Defibrillation and cardioversion
- Pacing

- CIRCULATION FEATURES • Oscillometric or manual BP measurement
- Oscillometric or manual BP measurement
 Carotid, femoral, brachial, radial, dorsalis
- pedis, popliteal and posterior tibialis pulses
- synchronized with ECG
- Pulse strength variable with BPPulse palpation is detected & logged
- VASCULAR ACCESS
- Tibial IO
- (Articulating arms)
- Bilateral preported IV access
- Bilateral humeral IO, deltoid IM
- Bilateral deltoid IM
- (RFID arms)
- IV access (right arm)

CP

- CPR
- Compliant with current Guidelines
- Realistic compression depth and resistance

 CPR compressions generate palpable pulses, blood pressure waveform, and ECG artifacts **FEATURES**

software

network

interface

• Wireless instructor computer with LLEAP

· Control simulation from anywhere on your

• Use Manual Mode to run "on-the-fly" for

programmed scenario for a simple and

- Patient cases utilizing physiological and

standardized way to run a simulation

· Simulation controls; fast forward, pause,

• Future prediction and patient outcome display

• Time stamped activities, vital signs, and

Touch-screen simulated patient monitor

• The monitor's color screen is configurable

and provides multiple simulated param-

eters, each presenting multi-level alarms

traces), Sp02, CO2, ABP, CVP, PAP, PCWP,

NIBP, TOF, Cardiac output, Temperature

• Simulated parameters include ECG (2

(core and peripheral), additional and

programmable parameters e.g. ICP

• Oxygen saturation and waveform

OPTIONAL ACCESSORIES

212-07150 Rugged Carry Case

212-08175-L Amputated Leg Light

212-08175-D Amputated Leg Dark

212-08175-M Amputated Leg Medium

212-17975 Soft Carry Case

provides concise clinical feedback for

instructor comments are captured in the

total control over all parameters

Utilize Automatic Mode with pre-

pharmacological models

- Self-authored content

· Integrated video debriefing

rewind, save/restore

Profile editor

event log

PATIENT MONITOR

• X-Ray Display

• 12 Lead ECG

CERTIFICATIONS

Services

Laerdal offers comprehensive

Educational Services to support your

needs to optimize learning potential in

operational for maximum performance.

helping save lives

your students, and Technical Services

faculty competency development

to help ensure your equipment is

UL, CE, FCC, CSA

• Custom Image Display

Custom Video Display

physiological parameters

- Pre-programmed scenarios

· Control multiple manikins from one

- Detection of depth, release and frequency of compressions
- Real time feedback on quality of CPR

EYES

- Blinking slow, normal, fast and winks
- Open, closed and partially open
- Pupillary accommodation:
- synchrony/asynchronynormal and sluggish speed of response
- OTHER FEATURES
- Interchangeable headskins
- SpO2 measurement with pulse oximeter
- Seizure/Fasciculation
- Bleeding
- Simulation of bleeding at multiple sites - Arterial and venous
- Vital signs automatically respond to blood loss & therapy
- Works with various wound modules & moulage kits

- Pre-recorded and custom sounds

- Instructor can simulate patient's voice-

- Multiple instructors communicate using

- Urine output (variable)
- Foley catheterization
- Secretions
- Eyes and Ears - Blood, CSF. etc.
- Blood, CSF, et

Patient Voice

wirelessly

Instructor Communication

• Fully articulating pelvis

PHARMACOLOGY

COMPUTER OPTIONS

400-09201

400-09501

400-29301

SimMan's product ecosystem is designed to make advanced medical

simulation available to everyone. Pairing SimMan Critical Care with partner

• Laerdal-SonoSim Ultrasound Solution 2.0 - Include diagnostic ultrasound

solutions helps create an immersive and realistic simulation experience.

• VitalsBridge - Use your own clinical patient monitor during

featuring real cases with pathological findings into full-scale simulations

Simulation Solutions

simulation training

400-10201 Laptop Instructor/

Monitor

integrated voice over IP

• Leg rotation in all natural directions

Optional Automatic Drug Recognition

System identifies drug & dose

Extensive drug formulary

physiological responses

· Automatic or programmable

Patient Monitor

Patient Monitor

Patient Monitor

Tablet-PC Instructor/

Rugged Tablet Instructor/Patient

All In One Panel PC Instructor/

DiaphoresisBowel Sounds – four quadrants