

Christina Starcevic
Sales Executives
416.347.3997
cstarcevic@echosimulation.com

www.echo.healthcare 1.877.393-0499



Echo Healthcare is an innovative healthcare technology and service company in the field of simulation. At Echo Healthcare we are passionate and focused on saving lives and improving patient outcomes through education, technology, and innovation.

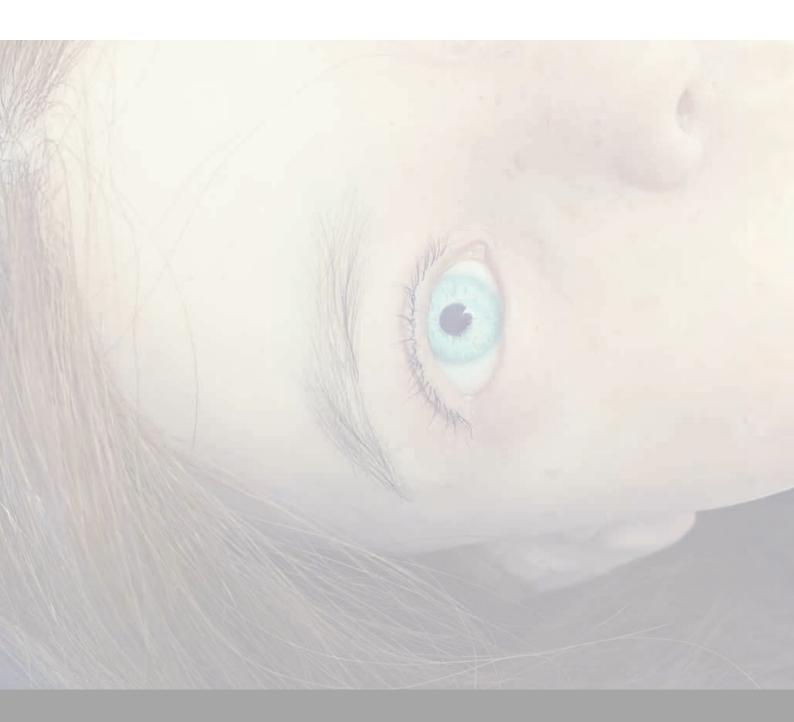
Echo Healthcare locally represents several cutting-edge simulation manufacturers; including Lifecast, Immersive Interactive, EchoMask, iSimulate, and CrossBraining. Echo Healthcare specializes in realism, diversity, customized immersion.

Echo Healthcare has always been deeply committed to providing clients with the highest standard of service and excellence. The management team adds further value by developing the most innovative products and services and expanding into new markets.

Echo Healthcare was founded by a team of passionate professionals, keeping healthcare customers satisfied through superior service, shaped by a culture of collaboration, innovation, integrity, and striving for excellence in the healthcare industry. With a team of both clinical and technical experts, Echo Healthcare brings over 90 years of experience and knowledge into the industry, with a value proposition that is anchored in customer excellence.

EXPERIENCE AND SERVICE

THE WORLD'S MOST REALISTIC TEACHING TOOL





The World's Most Realistic Teaching Tools

Introducing a step change in realism for the medical training industry, Lifecast Body Simulation has developed a range of highly accurate and lifelike medical manikins that are transforming the way that medical simulation and education are delivered and absorbed

Our manikins provide a true level of realism that participants can engage with, and that is reflective of area patient demographics.

Designed and produced at the world-renowned Elstree Film Studios in London & Sarasota Florida, every manikin demonstrates incredible realism and the very highest quality. With an ever-evolving range, please explore our pre-term and newborn babies, children and adults both young and old - all available with a wide range of ethnicity options - including Indigenous First Nations, African American, Hispanic, and Asian. All manikins are custom-created to your simulation needs and objectives.

LIFECAST

















KEY FEATURES

LIFECAST

Lifecast manikins are in a stand-alone category when compared to traditional manikins. Echo Healthcare is the only company able to provide highly accurate and lifelike bodies based on the scans of real people. Lifecast offers a unique combination of high-fidelity realism partnered with ALS/ICU capabilities. Lifecast features realistic details such as a CT airway with an articulated mouth for airway management, realistic articulation of all limbs, vasculature, & hand-punched hair. The Lifecast manikins maintain a real weight distribution and represent the average height/weight in each age category for training and patient transfers.

Echo Healthcare is proud to offer personalized Lifecast manikin options such as ethnicity and specific pathologies. This allows for full learner engagement, bringing learning objectives and curriculum to life.

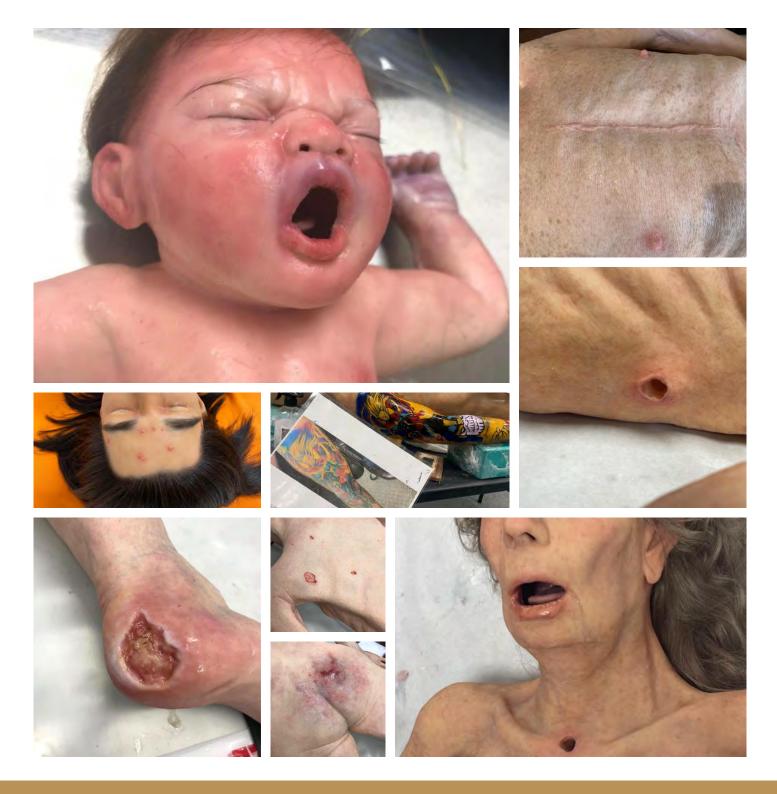
We have purposely and deliberately eliminated the need for internal robotic components. We team our manikins with our surrogate patient monitoring system. This provides the end-users with the ability to scale the fidelity of Lifecast manikins and others, including standardized patients, based on individual departmental needs. No internal robotics saves time and money on tech support and you will never have to worry about your manikin going offsite for service.

KEY FEATURES

- Non-robotic appearance (life-like and age-appropriate)
- Stepwise airway management with mouth, open nostrils, upper airway and lungs. CT replication of anatomical internal airway structures.
- Enables bag/valve/mask, oropharyngeal airway, nasopharyngeal airway, supraglottic airway, and ET tube intubation, and mechanical ventilation & Positive Pressure Ventilation capable
- CPR compatible with CPR feedback (Paired with REALITi 360)
- Chest Needle Decompression: 2nd Intercostal Space & 5th Intercostal Space
- Bilateral Intraosseous Insertions in humeral head & tibia
- Closed Eyelids capable of manual opening
- NG/OG tube insertion (NEW Gastric reservoir add-on) and Folley catheterization function (NEW Bladder reservoir add-on)
- Gender appropriate human anatomy
- Skin tone & elasticity available in a variety of ethnicities and age-appropriate
- Real hand-punched hair plus body hair (genitals), eyelashes, and eyebrows. Hair fibres age and ethnically appropriate
- Standard Weight Adults 90 lbs
- Infants: Lumbar landmarks, Flexible spine, Umbilical catheterization, IV & IO cannulation (bilateral). Gestational age appropriate size & weight

PERSONALIZED **FEATURES**

Exclusive individualized pathologies to meet your curriculum objectives such as circumoral cyanosis, acrocyanosis, scars, tattoos, decubitus ulcers, acne & more.



LIFECAST FAMILY RANGE

LIFECAST MODELS AVAILABLE:

*** All models are offered in a wide range of ethnicities ***

ADULTS:

- Elderly Female
- Elderly Male
- Middle Age Female
- Middle Age Male

PEDIATRIC:

- 15 yr old Female Teenager
- Toddler Female
- Toddler Male

INFANT:

- 6-Month-Old Male
- Newborn Male 36 Weeks gestation
- PreTerm Male 27 Weeks gestation
- Micro Premie



SENIOR FEMALE



SENIOR MALE



MIDDLE AGE FEMALE



MIDDLE AGE MALE



NEW TEENAGER FEMALE



2/3-YEAR-OLD TODDLER: MALE & FEMALE **NEW WATER RESCUE/THORACIC** TRUAMA FEATURE



6 MONTH OLD INFANT



NEWBORN FULL TERM: 36 WEEK GESTATION



PRETERM NEONATE: 28 WEEK GESTATION



MICRO PREMIE: 23 **WEEK GESTATION**

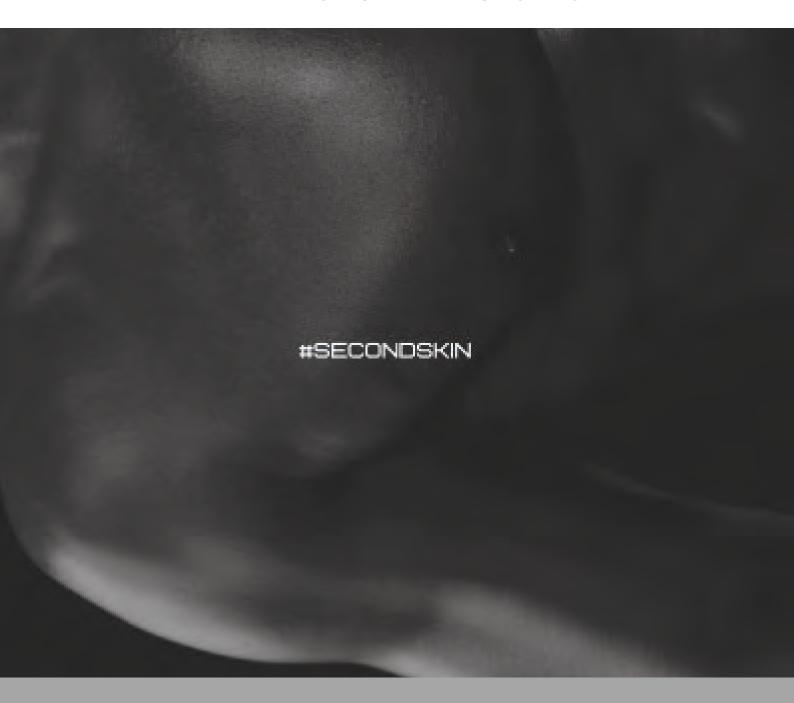
2/3-YEAR-OLD TODDLER: MALE & FEMALE **NEW WATER RESCUE/THORACIC TRUAMA FEATURE**



Check out this video: https://share.vidyard.com/watch/3ud2i1J4EGJ49pW2tDEjnu?

SECOND SKIN

REDEFINING HIGH FIDELITY SIMULATION







SECOND SKIN PRE-SALE

SHIPPING SEPTEMBER 2022

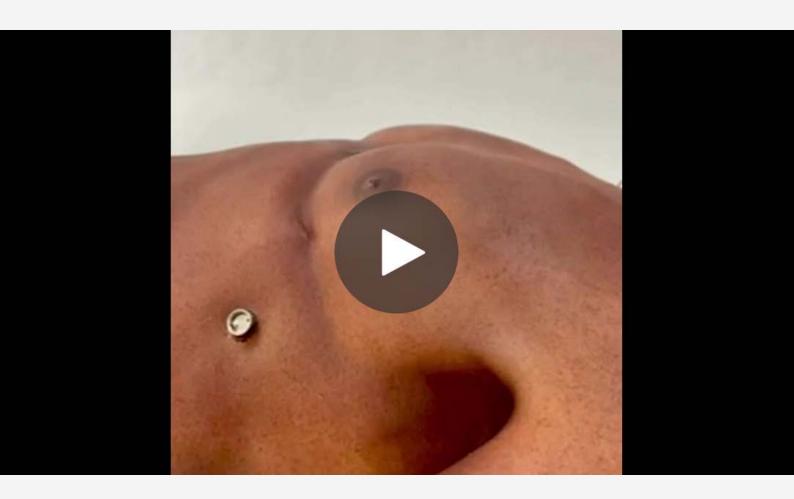


REDEFINING HIGH FIDELITY SIMULATION

ENDS 03.21.2022



SECOND SKIN PRE-SALE



REDEFINING HIGH FIDELITY SIMULATION





What is SecondSkin?

- SecondSkin is the world's first simulated human skin suit, designed to dramatically transform and re-skin human patient simulators.
- SecondSkin effortlessly changes a patient simulator's age, gender, and ethnicity, increasing diversity and realism in simulation training.
- SecondSkin allows for the functionality and full range of motion of the simulator it is outfitted for, while creating emotional attachment and engagement through lifelike features and diversity

Key Features

- Designed with tear-resistant materials
- Quick and easy application
- Allows full functionality of patient simulator
- Allows full range of motion of patient simulator
- All features of patient simulator remain accessible
- Hides all joints and metal on patient simulator
- Provides physical and anatomical details of an actual human
- Created from scans of real human beings



REACH OUT NOW FOR PRICING AND INFORMATION

ECHO MASK

ARE YOU READY FOR A FACELIFT?





ECHO MASK

Ready to give a facelift to your current traditional manikins?

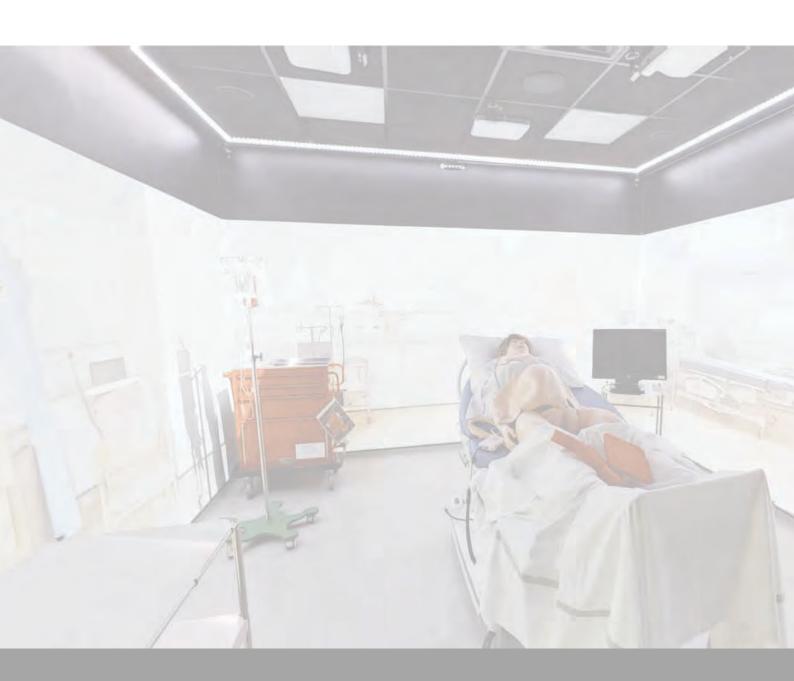
1 Manikin - Multiple Stories

EchoMasks represent the latest in realism and are custom designed and fitted for all adult medical simulator manikins, as well as for standardized patients.



IMMERSIVE INTERACTIVE

VIRTAL WORLDS. SHARED EXPERIENCES.





INTRODUCTION



Echo Healthcare is the global provider in unique learning spaces across multi-disciplinary platforms that bring the hazards and complexities of the workplace into safe learning environments. Immersive Interactive - a tablet-based virtual reality room and interactive learning space can help you create high fidelity environments from EMS, Fire, tactical response, disaster response to hospital environments and PTSD exposure therapy - the content is truly LIMITLESS. Trainers can put students through their paces in a multitude of scenarios for vital experienced-based learning.

Immersive Interactive benefits include:

- -A complete solution. Immersive Interactive provides a complete 360 degree solution from initial site survey, to building your simulation environment, to lifetime training and support. The in-house software allows you to add, create and manage your own content all from a tablet device with ease.
- Full Interactive. The ability to control your simulation room by interacting with every surface and add sounds, smells, wind, fog, heat and other effects.
- Limitless Content. Simulate endless scenarios from the field, roadside, ER to the operating theatre by creating your own content with ease.
- Edit with Ease. The in-house template-based software and the fully integrated system allows you to easily create and edit content
- Training and Support. Our team will be there from the beginning for total peace of mind.

INTRODUCING IMMERSIVE INTERACTIVE

READY TO SEE THE WORLD?

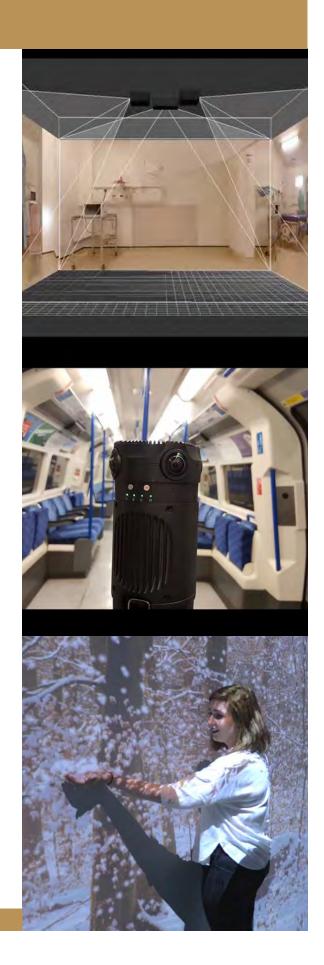
VIRTUAL WORLDS. SHARED EXPERIENCES.

Immersive Interactive provides virtual learning spaces that are fully interactive and multisensory. Utilizing bespoke content, our rooms create unique educational and training experiences that are both effective and memorable.

To put it simply: learning with fun.

Imagine a Virtual Reality experience, with no headset, no wires, and none of the isolation that they bring. Experience virtual environments shared with colleagues, fellow pupils, and friends.

The Immersive Interactive is a cuttingedge learning tool that engages through sight, sound, smell, and touch, in addition to providing unique collaboration opportunities.



THE IMMERSIVE INTERACTIVE SOLUTION

Immersive Interactive offers a complete 360-degree solution from initial site survey to building your simulation environment, to lifetime training and support. The in-house software easily allows you to add, create and manage your own content from a tablet device with ease.



VIRTUAL WORLDS. SHARED EXPERIENCES

- Fully Interactive on wall surfaces and floor
- Tablet-based integration to control your environment from your tablet
- Create and customize your own content by adding images, videos, 360degree panoramas – then make it fully interactive.
- Third-party content: Use 3D virtual worlds, web content, Google street view with gigapixel imagery and kinetic gesture-controlled apps
- Choose among 100's of backgrounds, exercises and scene from the everexpanding library
- A full suite of effects including lights, scents, wind, snow, rumble, heat
- Gesture control using multiple frontfacing kinetic sensors
- Access to new and exciting content downloads

- In house template-based software and fullyintegrated system
 - Upload your content: Create from scratch or source your own video, images, and sounds
 - Add interactive hotspots with questions, facts, video, images, or sounds
 - Layer in environmental effects such as sounds, smells, smoke, rumble walls by timeline or real-time controls
- Floor to ceiling projections with a correct aspect ratio (no distorted projections)
- Perfectly seamless high-quality flat projections that can light up any size space
- Scale project too large floor spaces
- Interactive Floor
- 360-degree camera to record your own local content
- Fully interactive content templates
- Available to scale into multiple rooms
- Multi-Player, Multi-Disciplinary, Multi-Patient



CAPABILITIES

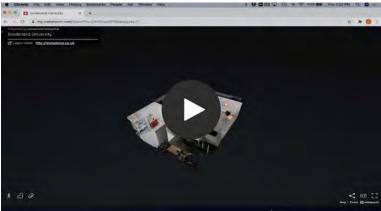
Immersive Interactive allows trainers to augment the educational experience with realistic, immersive high fidelity scenarios and teaching content:

- Integrate a multitude of learning elements that is more effective in transmitting educational knowledge & skill than traditional methods
- Multi-Player, Multi-Disciplinary, Multi-patient scenarios, team care, observer/teacher facilitation
- Ability to easily and completely customize scenario content and curriculum objectives.
- Create an interactive environment that feels 'real,' where all surfaces respond to touch and where sounds, smells and props provide a powerful learning experience
- The 360 camera allows customization of virtual reality space to place participants in their exact working environment
- The facilitator is in complete control of the content. Trainers can put participants through their paces in a multitude of scenarios for vital experienced-based learning
- Enhance participant engagement and create a safe context for simulation-based learning. A training system that is truly flexible and efficient and foremost as realistic as possible
- Deliver innovative lectures and hands-on training within the simulator or use it as a powerful debrief tool
- Allows autonomous team simulation training in identical environments.
- Prehospital emergency medical scenarios, hospital environments such as Team Trauma Management, ER, L&D, OR, NICU, and PTSD exposure therapy, IPE - the possibilities are truly LIMITLESS
- It aids in assisting with promotional process exams, tactical task training, and benchmark performance training. It has the proven benefit of being able to be utilized in a clinical setting as Exposure Therapy to help aid in a reduction of PTSD symptoms

The end result is an engaging, flexible space



<u>Immersive Overview:</u> https://share.vidyard.com/watch/hV98KQ <u>UQGatYKP5wDrXSpc?</u>



Sunderland University Matterport Tour: https://my.matterport.com/show/? m=2ohQCoce5FM&autoplay=1



Immersive Content Overview: https://share.vidyard.com/watch/SKtNAEs CtiHy94ErdotJzx?



Immersive Features: https://share.vidyard.com/watch/m4yxz <u>UgwuwuDYkkjJvviXV?</u>



<u>Immersive EchoComplete:</u> https://share.vidyard.com/watch/TiFa <u>UfHMVZLK6a4|qvgeXP?</u>



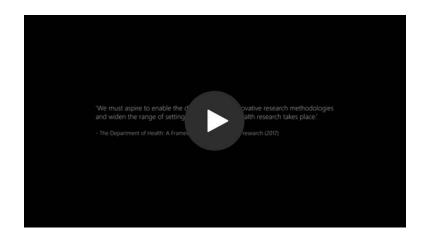
<u>Immersive Nursing:</u> https://share.vidyard.com/watch/nuCJeaq n7w7RY|5N5SLUZe?



<u>Immersive ICU:</u> https://share.vidyard.com/watch/cCUMXeaR 8HiGWz4CPdweu7?



Law Enforcement: https://share.vidyard.com/watch/QhFsFpf 9t41WZNc3Sdjrma?



Mental Health: https://share.vidyard.com/watch/RJFqgFX joSpjeHzXD6AjvE?



Central Piedmont Open House: https://share.vidyard.com/watch/sFpFDeen <u>Udn9LRzqEWQ5pX?</u>



Dementia Care: https://share.vidyard.com/watch/dH6EewPk FmUpddUWaHS4m2?



Primary& Secondary Education: https://share.vidyard.com/watch/sWHoSP aCSridc9WUovtTSP?



Special Needs: https://share.vidyard.com/watch/f7 7q2eSSqzvkwBHsRHyoVE?



<u>Immersive Club:</u> https://share.vidyard.com/watch/8cizhtQ5U gBKqmQLPaXAhA?



<u>Customizable Teaching:</u> https://share.vidyard.com/watch/iHMLBXnd g5pBx3maT82M95?



Lifeskills: https://share.vidyard.com/watch/n2HhxG R2oFmJokVEqUw5cK?

https://www.researchgate.net/profile/Andreas-Dengel-2/publication/333799827 Presence Is the Key to Understanding Immersive Learning/links/5f5cd37fa6fdcc11640c00d5/Presence-Is-the-Key-to-Understanding-Immersive-Learning.pdf

https://discovery.ucl.ac.uk/id/eprint/1475864/3/Neumann Exploratory%20lear ning%20model%20-%20accepted.pdf

https://link.springer.com/article/10.1007/s40692-020-00169-2

https://scholar.google.com/scholar? <u>q=vr+learning+in+prehospital+care&hl=en&as_sdt=0&as_vis=1&oi=scholart#d</u> =gs_qabs&u=%23p%3DupGKHIsZ0-AJ

https://scholar.google.com/scholar? hl=en&as_sdt=0%2C10&as_vis=1&q=immersive+learning+in+prehospital+care &btnG=#d=gs_qabs&u=%23p%3DS0fsSPyeSwkJ

iSIMULATE

360 SIMULATION ECOSYSTEM





360 SIMULATION INTEGRATED LEARNING ECOSYSTEM



REALITI 360 is a complete simulation system in a small package. REALITi 360 is a modular ecosystem incorporating a patient simulator, ventilator simulator, CPR feedback, and video A/V capabilities in a single system.

REALITi 360 gives instructors a great tool for training and gives students an incredibly realistic platform to learn from. REALITi 360 offers highly realistic medical simulations built on the technology you use every day.

REALITi 360 has the unique ability to mimic real defibrillators and monitors. The REALITI 360 system recreates hyper-realistic interfaces that look and work like the real thing. It allows medical educators to run multiple scenarios in any environment. Being completely portable you can conduct your in-situ training and evaluation in an ambulance, a helicopter,

Every interaction is timestamped and recorded. End each simulation with immediate analytics, quick debrief tools and exportable PDF files for accreditation and tracking.

an emergency room, or in a simulation centre.

REALITI 360 OVERVIEW

SURROGATE PATIENT MONITOR & FULLY INTEGRATED LEARNING ECOSYSTEM



<u>Click to watch the video overview:</u>
https://share.vidyard.com/watch/nPHgwJLrVvCqgBL1UbdU5C?

BRING CONTENT TO LIFE







Looks, sounds and functions like the real thing REALITI Camera is built in to REALITI

Real-time CPR feedback for rate, depth and recoil











View radiology, 12 Lead ECGs and laboratory results in real time

CPR report for review

Dynamic 12 Lead ECG library

Artifacts and electrical interference







Observers can use REALITi Engage on their mobile devices

Export a complete report of the simulation for student records



360 BENEFITS INCLUDE

Mimics real defibrillators and monitors. Working with many defibrillator and monitor manufacturers, REALITi 360 has hyper-realistic interfaces that look and work like the real thing.

- -Fully Interactive. The ability to control your simulation with real-time feedback
- -Limitless Content. Simulate endless scenarios from the roadside to the operating theatre, by creating your own content with ease.
- Edit with Ease. The template-based software and fully integrated system allows you to easily create and edit content
- -Training and Support. Our team will be there from the beginning for total peace of mind.
- -CPR module for real-time CPR feedback. Versatile and responsive CPR feedback takes training to another level
- -Integrated Wireless Video with REALITi Camera. Live stream and quick debrief.









REALITI 360

360 OVERVIEW

- Tablet-based integration to control your simulation from your tablet
- Ability to take content online for virtual learning and simulation
- Live Remote Control Access
- Proprietary monitor screens (ie. Zoll X, Zoll R, LifePak 15, Philips, WelchAllyn, Corpuls). A catalogue of 18 Screens available.
- 5 Generic Screens (Defibrillator, 2 Monitor, AED) and 1 Ventilators
- Create and customize your own content by adding images, videos, and sound, making it fully interactive
- A multitude of waveforms, from a single touch. Add ectopics, arrhythmias and artifacts to any ECG waveform
- Simulated patient records are now real In collaboration with LifeInTheFastLane.com REALITi has a complete library of resources to create simulated electronic patient records with REALITi Chart
- Export a complete report of the simulation for student records
- The Checklist interface is completely configurable and easy to use
- Engaging assessment: Easy to use checklist interface for simple student assessment
- Add REALITI Engage to allow observers to comment, vote and view media
- Third-party content: web content such as X-rays, ultrasounds, videos, images and sounds.
- Upload content to a secure cloud system to ensure scenarios and content is easily saved and shared across multiple devices
- Choose among 100's of scenarios from the ever-expanding library on the community forum
- All necessary cables, adapters and hardwareSeamless content blending
- Ability to live stream scenarios and wireless content playback via Apple TV



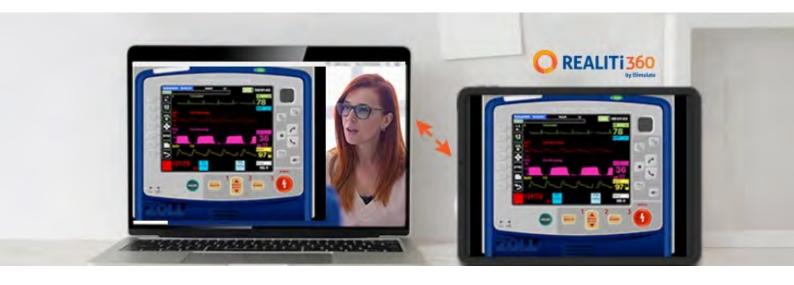
REALITI 360

AVAILABLE COMPENTENTS

- Simulated Defibrillator: 18 Premium screens to select from, 4 Generic screens, and 2 Ventilator simulators
 - (1) iPad Wi-Fi with facilitator case (1) iPad Pro 12.9 " Wi-Fi with cover
- Simulation Lead set (Adult): 12 lead cables, electrodes, NIBP cuff, SPO2, ETCO2, defibrillator pads and connector cable
- Temperature Monitoring capabilities
- Scalable from basic monitoring to defibrillation and ICU waveforms.
- Power Adapter
- Wifi router
- Ability to print rhythm strips to a Bluetooth printer
- Carrying Case
- Simulator battery charge pack

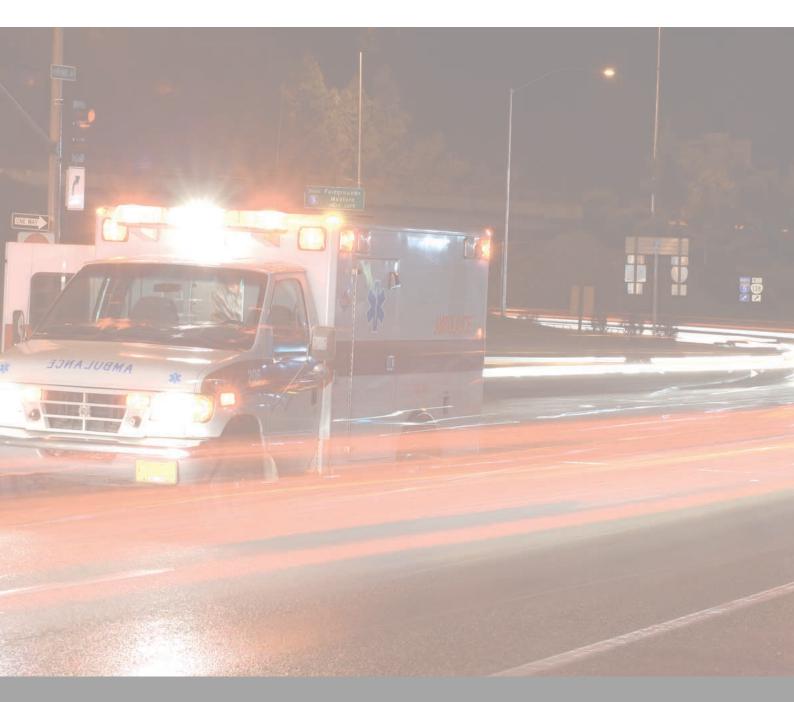
AVAILABLE ADD-ONS:

- Video Module Includes:
 - REALITI Video Recording Software (1) iPad 9.7" Wi-Fi-One (1) Mobile Media System (1) TriPod (1) Mobile Media Case (1)Apple TV
- Real-Time AHA compliant CPR Feedback:
 - CPR Module Includes:-CPR software integration with REALITi-CPR hardware including two (2) CPR wristbands and a case
- Electronic Patient Chart
- NEW! 2022 Fully Integrated SimScope providing Heart, Lung and Bowel sounds
- Remote Access



ERBOX SIM

WHERE SIMULATION AND VIRTUAL REALITY CONVERGE







ERBoxSim AMBULANCE SIMULATOR



What is ERBoxSim?

- ERBoxSim is the world's only ambulance simulator with full front and back hydraulics, allowing cohesive driver and paramedic simulations with motion and vibration.
- ERBoxSim provides revolutionary immersive training for drivers and paramedics in simulated conditions, including radical weather, poor road conditions, and an array of traffic scenarios.
- ERBoxSim saves lives and improves patient outcomes by providing the most realistic ambulance training using fully operational equipment.



REACH OUT NOW FOR PRICING AND INFORMATION



ERBoxSim AMBULANCE SIMULATOR

KEY FEATURES:

- Full aluminum ambulance construction
- Custom interior + exterior wrap
- Full hydraulic system with full motion
- Real-time driving simulator
- 3 simulated monitor screens
- Driving scenarios using local streets
- Instructor-led, software-driven scenarios
- Squad bench + attendant seat
- Division with passage
- Stretcher anchor
- Slip-resistant and bacteriostatic flooring

- Standard medical cabinet
- Full temperature control
- Programmable LED lights + variable intensity
- 110 to 12 volt 1,000 watts converter
- 12 volt batteries (4)
- Fully functioning electrical outlets
- Whelen LED lights + surround sound
- Oxygen outlets (2)
- 50 PSI oxygen regulator
- Intercode communications system
- Central suction system

THE WORLD'S ONLY COMPLETE HYDRAULIC AMBULANCE SIMULATOR!



REACH OUT NOW FOR PRICING AND INFORMATION







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MONIVENT

SUPPORTING GENTLE VENTILATION OF NEWBORNS







SUPPORTING GENTLE VENTILATION OF NEWBORNS

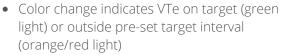


Tablet FeedBack Display

- Vte (expiratory volume) with guidance in mL/Kg
- PIP (Peak Inspiratory Pressure)
- PEEP (Positive End Expiratory Pressure)
- Face Mask Leak
- Ventilation Rate

Integrated sensor Module









Face Masks

- 3 Different sizes: S, M, L
- Compatible with all bag or T-Piece resuscitators utilizing standard connection

Charging Station

- LED light indicates battery status
- Sensor modules and masks can be stored in the charging station between use





SIVOLOGY CRITICAL MOULAGE KITS

THE NEW STANDARD IN ULTRA-REALISTIC WOUND SIMULATION





THE SIMOLOGY™ RANGE INCLUDES:

- Bladed Wounds
- Traumatic Wounds
- Fractures
- Burns
- IV Training
- Gunshot & Blast Injuries
- Wound Application Kit
- Skin Tone Blending Kit
- Bruising Effects Kit

Premium quality flat mould wounds designed to enhance medical simulation training.

Our pre-made wounds take minutes to apply and create a hyperrealistic simulation. They are designed for a single application but can remain on the manikin for several training sessions.

Wounds are soft and lifelike made of encapsulated silicone, which has been softened with a deadener to produce a lifelike skin feeling.

Wounds are available in one of four skin tones:



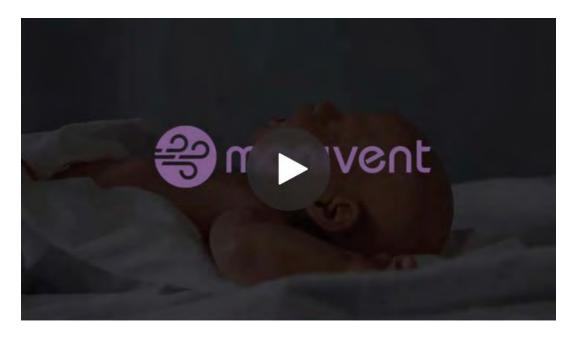
The Simology™ Range comes with access to easy to follow instructional videos to help you maximise the impact of your wound simulation.





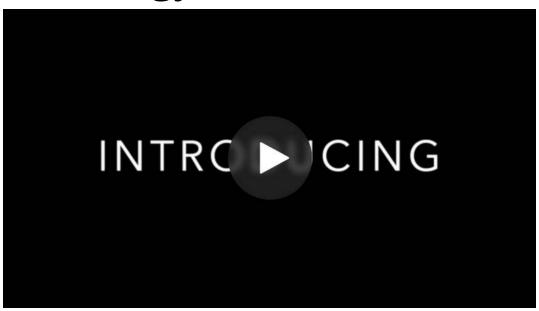


Monivent



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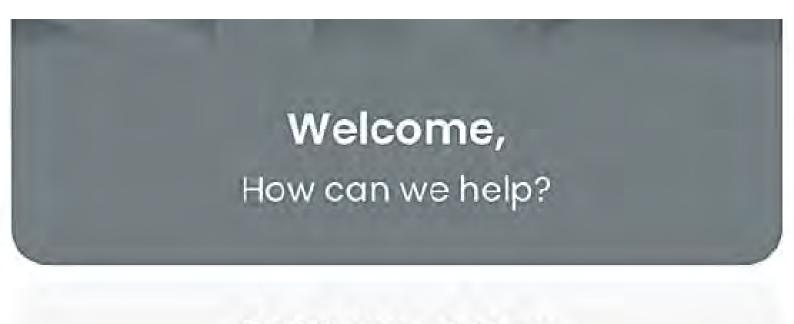
Simology



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MeLiSA

SIMPLY; CONNECTED - SUPPORT IN 60 SECONDS



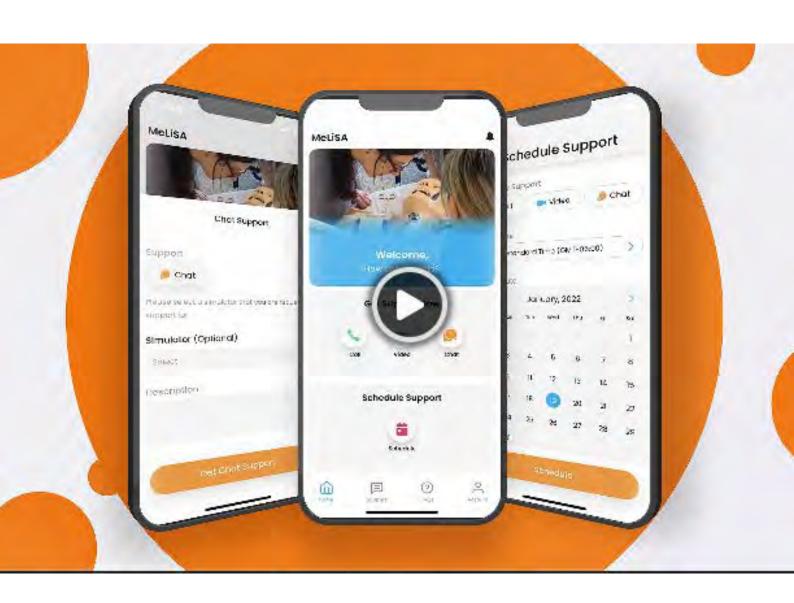






MeLiSA

SIMPLY; CONNECTED - SUPPORT IN 60 SECONDS





MeLiSA stands for Master Level Service Agreement and is the industry leader in simulation maintenance programs. We demystify medical simulators and provide immediate support anytime, anywhere!

SUPPORT IN LESS THAN 60 SECONDS!

MeLISA decreases your simulator downtime and improves operations, while connecting you to a network of simulation experts for all your simulation needs.

Unparalleled Service

MeLiSA replaces, enhances, and expands on the traditional manufacturer warranty. Available 24/7, MeLiSA supports all makes and models of simulators and equipment under one agreement, regardless of equipment age.



Cost Stabilization

We understand that it is impossible to anticipate every issue that arises with your technology. Our aim is to provide end to end coverage that stabilizes your annual capital equipment maintenance costs and provides you with unparalleled expert service.

Technical Excellence

Our team of Emergency Simulator Responders (ESR) is well-versed in the majority of medical simulator (manikin) operating systems, including both hardware and software. Our goal is to eliminate downtime and keep your simulators in operational condition.



24/7 SUPPORT



SAVING LIVES & IMPROVING PATIENT OUTCOMES THROUGH EDUCATION, TECHNOLOGY, AND INNOVATION

