



SiMedix
Simulated Medical Experiences

www.SiMedix.co

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OpSim

Vitsim: Vitreoretinal surgeries
Powered by Virtual Reality

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Atieh Pardazan Sharif (APZ Sharif) is a creative pioneer in design and production of advanced technologies and high-tech equipment in Iran. The company has been founded and directed by educated people with high academic degrees and done more than 40 projects proudly. For more information about us, visit our website.

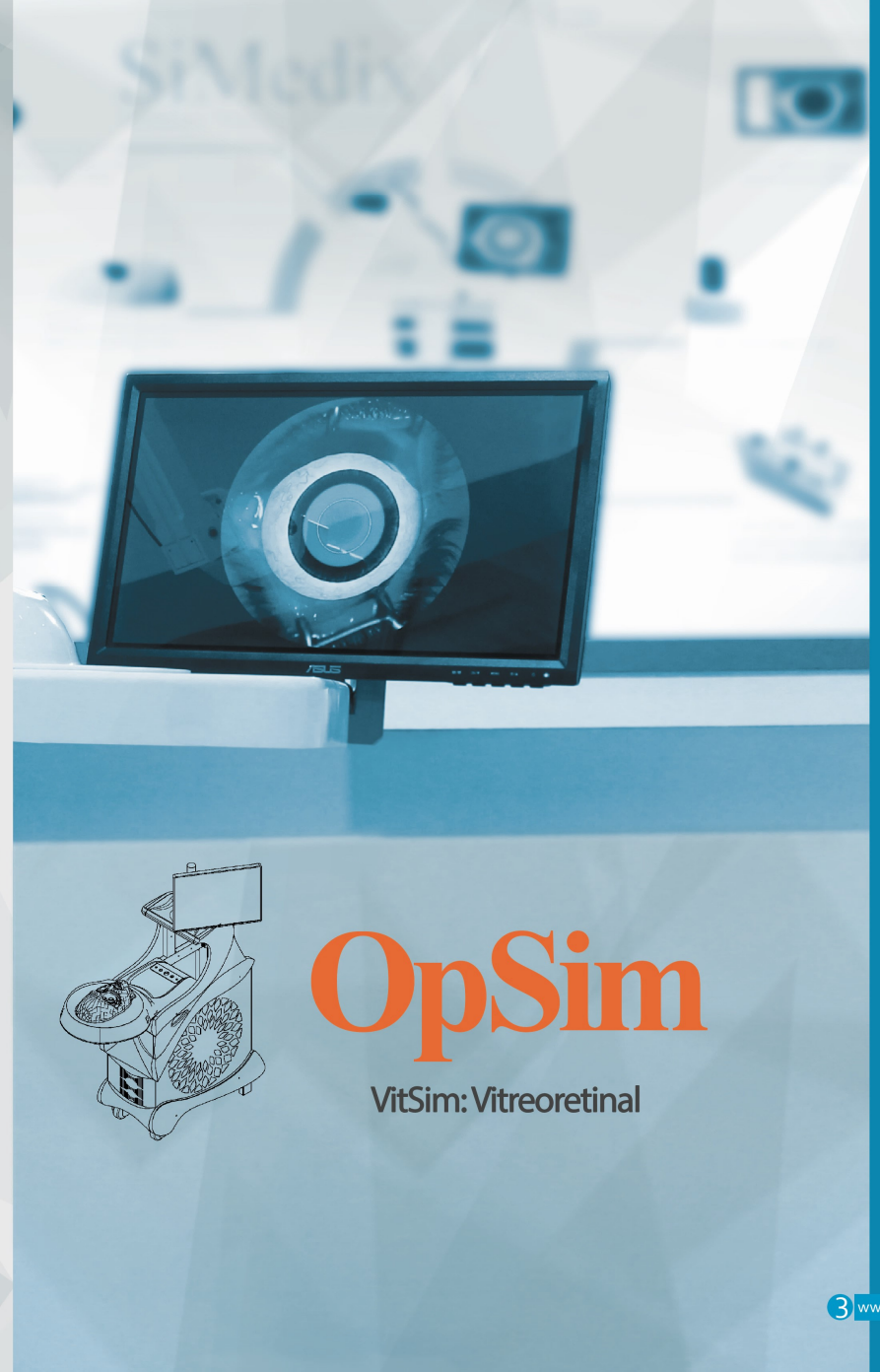


SiMedix is a hi-tech pioneer leader in the business of providing VR (Virtual Reality) medical surgery simulators in the healthcare industry in Asia. We pride ourselves of getting 100 percent of the VR eye surgery simulators market share in Iran. Our clients are among the biggest and largest corporations in the healthcare industry.

SiMedix

OpSim is our first developed ophthalmic surgical simulator designed and manufactured in order to help medical residents to operate in a realistic environment and also keeping patients out of operating rooms.

OpSim



OpSim

VitSim: Vitreoretinal

OpSim Subsystem



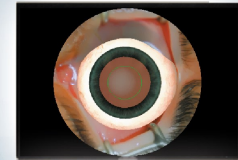
Stereo Microscope Unit

To create 3D view sense and depth of view



Adjustable stereo vision system

Ergonomic design for microscope to achieve comfortable feeling during surgery



Control Touch Screen

Control monitor for observing surgical process by supervisor



Surgery Interface Head

The patients' head mannequin for leaning doctors' hands during surgery



Height Adjustable Base



Surgical instruments

Simulator handpieces look like surgical instruments



Microscope Foot Switch

Microscope foot switch for preparing best view



Instrument Foot Pedal

Instrument foot pedal for ultrasonic injection control and forceps control

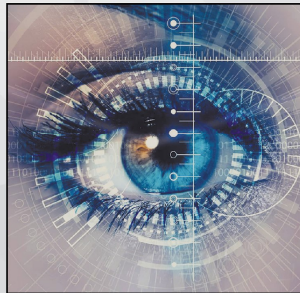
Simulated for Vitreoretinal Surgeries

Taking the patient out of training procedure

- Reducing the risk of malpractice for patients
- High reliability for training of eye surgeries
- Performing cataract surgeries individually or under supervision of a mentor
- Repeatable training

Expertise as a consequence of experience

- Training primary skills to beginners, such as utilizing microscope, hand-pieces and space constraints
- Training basic surgical methods, such as core vitrectomy, retinal detachment
- Training special surgical techniques
- Enhancement of residents' skills
- Progress evaluation
- Learning complex surgical techniques step-by-step

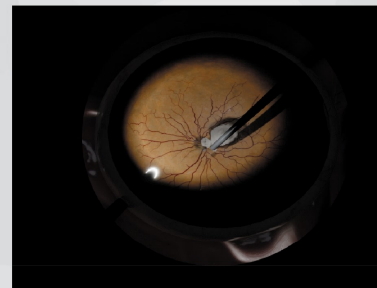
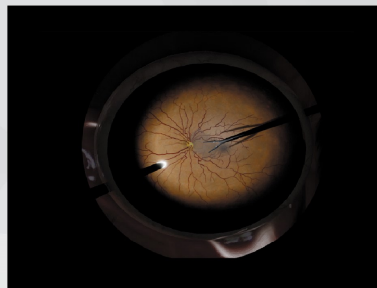
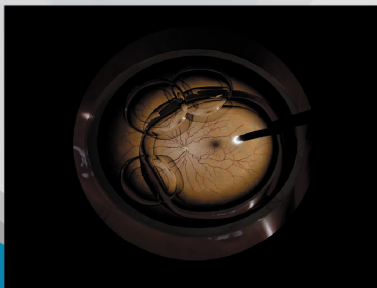


Life-like environment for optimum learning

- Preparing life-like simulation in order to perform eye surgery
- learning different styles to approach the eye by a human head model
- High fidelity simulation of the eye interior environment
- High fidelity modeling of Stereo Microscope

Realistic modeling of OR machine and instruments

- Availability of vitreoretinal surgery hand-pieces such as forceps, endolaser and light instrument
- Realistic modeling of surgical fluids, eye pressure and tissue model
- Life-like OR machine interface and functions



توضیحات VitSim

دستگاه VitSim به شکل مستقل قابل استفاده نیست و بصورت یک پکیج (شامل نرم افزار و تعدادی زیرسیستم سخت افزاری) بر بستر دستگاه PhSim طراحی شده است. بنابراین در صورت نیاز، لازم است که محصول PhSim نیز خریداری شود.



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