



Mixed Reality Surgery Companion

A New Standard of Care



Surgery made simple with **Mixed Reality** innovation

About Us

We XR Horizon is a premier Metaverse development firm, specializing in AR, VR, MR and AI solutions are proud to introduce the latest advancements in laparoscopic surgical practices through the integration of MR technology.



Mission

Our mission is to demonstrate the potential of mixed reality in laparoscopic surgery by combining real-time laparoscopic video feeds with virtual overlays, enhancing surgical visualization by integrating digital information into the surgeon's comfortable view during procedures. It supports hand-eye coordination, facilitates better surgical ergonomics and scaling on-screen views by allowing surgeons to zoom in on specific areas of interest like surgical sites, enhancing visibility and precision.



Technology Stack

We utilize the latest MR technology, enabling immersive experiences, swift development and rapid time-to-market. Our solution is engineered to seamlessly interface with premier industry hardware, guaranteeing exceptional performance and reliability.

Available On



Apple Vision Pro



Meta Quest 3



Meta Quest Pro

Mentor

Dr. Hafeez Rahman
Gynaecologist and Laparoscopic Surgeon
Chairman, Sunrise Hospital, Kochi



Dr. Sajeesh Sahadevan

Testimonials

"It's absolutely a good one. It really helps to prevent unnecessary neck movement. It allows to keep the head in a static position where it's needed, making the whole process more comfortable and focused."

Dr. Sajeesh Sahadevan
Senior Consultant & HOD
Aster MIMS Hospital, Kozhikode

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What Is Mixed Reality Laparoscopy?

Mixed Reality laparoscopic surgery merges virtual elements with the actual surgical field, allowing surgeons to see computer-generated images or data overlaid onto their real-time view, enhancing surgical precision and planning, potentially leading to improved outcomes for patients.





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Features

Cross-Disciplinary Collaboration

Facilitates collaboration between different medical specialties by integrating medical, technological, and educational expertise to enhance surgical procedures using Augmented Reality.

Improved Ergonomics

Provides more ergonomic solutions by allowing surgeons to view critical information or imaging data directly within their field of vision reducing the need for constant head and neck movement during long surgeries.

Clinical Training and Education

Enables medical schools and teaching hospitals to create immersive simulations for training purposes enhancing knowledge sharing, continuous medical education, and training in specialized procedures or techniques.

High Resolution Surgical Procedure Visualizations

Provide detailed and accurate views of surgical procedures in real-time, integrating virtual and real-world elements seamlessly.

Vital Tracking

Monitor and display real-time physiological parameters and vital signs of the patient during the surgical procedure enhancing the safety, precision, and monitoring capabilities in laparoscopic surgeries.

Real-time Screen Capture and Recording

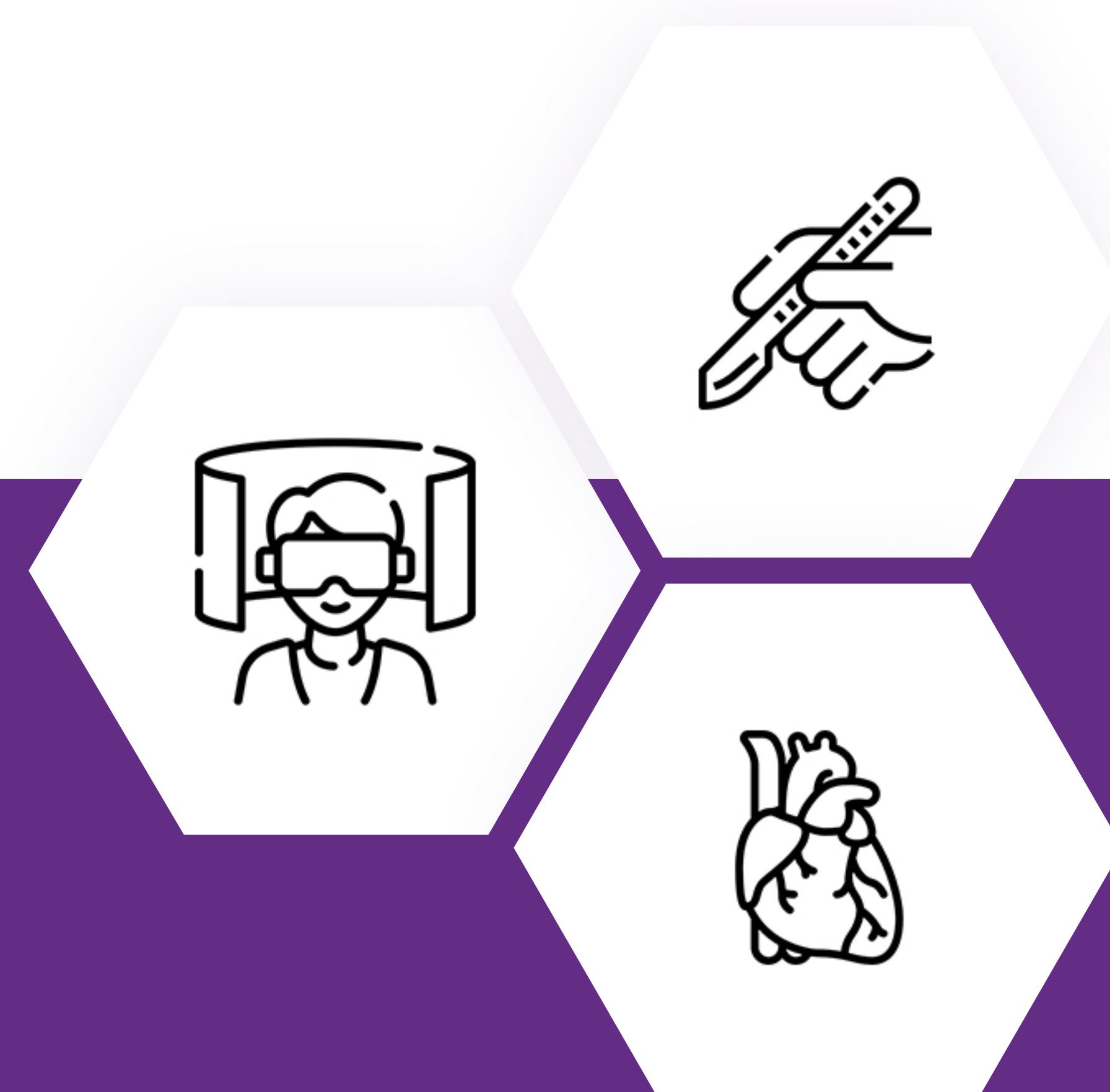
Records what surgeons see through augmented reality headsets, combining real-time video and virtual overlays for training, analysis, and documentation.

Remote Consultations and Collaboration

Enable doctors to conduct virtual consultations with colleagues at other hospitals or specialists located elsewhere allowing real-time collaboration on patient cases, sharing of medical imaging data, and discussion of treatment plans without the need for physical travel.

Innovative Developments

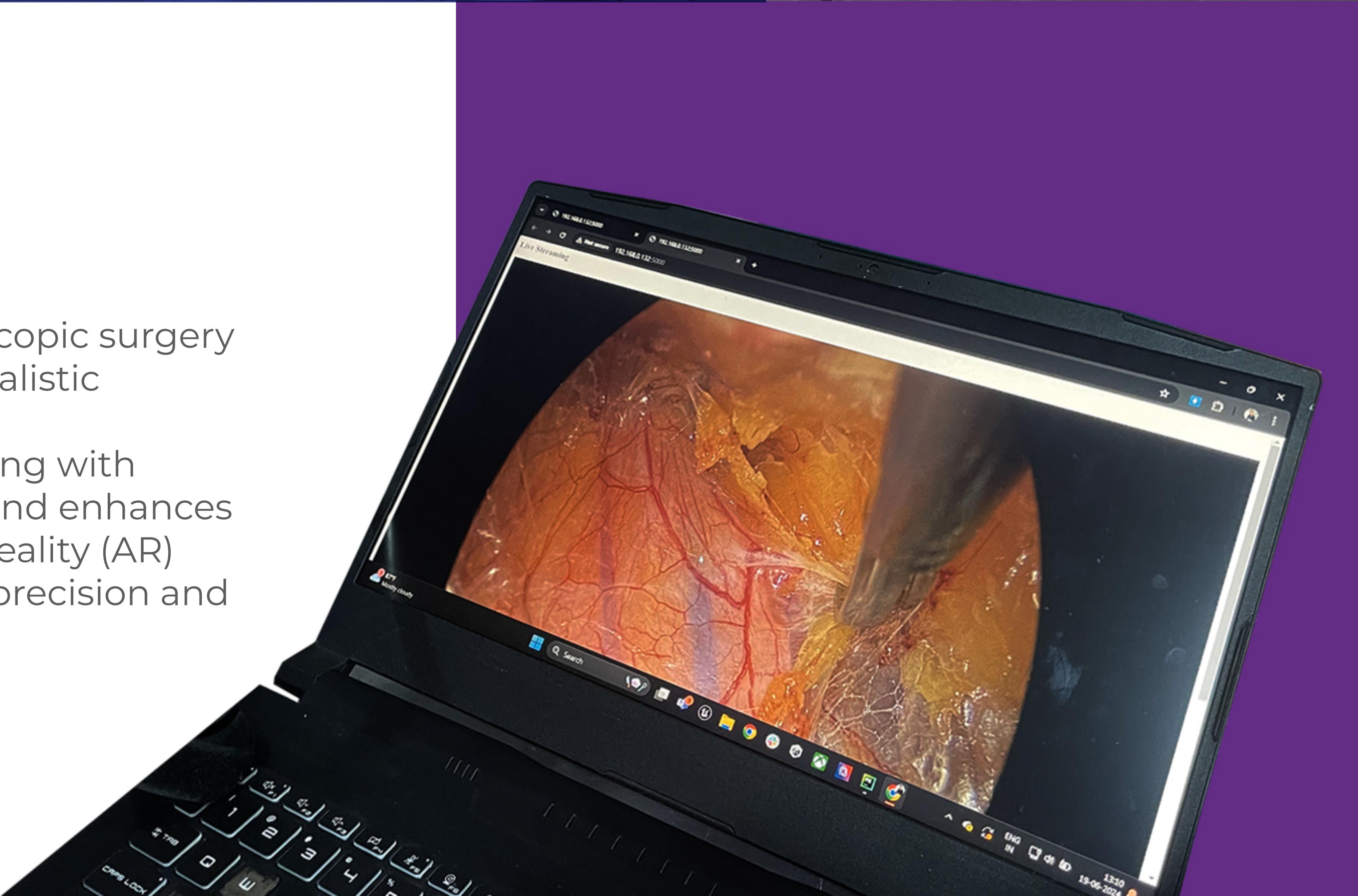
We incorporate X Vision System in laparoscopic surgeries to redefine surgical precision and visualization.





How It Works?

Mixed Reality (MR) in laparoscopic surgery improves training through realistic simulations, supports preoperative planning with patient-specific 3D models, and enhances surgeries with Augmented Reality (AR) overlays, advancing surgical precision and patient care.



Scan & see how the mixed reality
laparoscopic simulation works.



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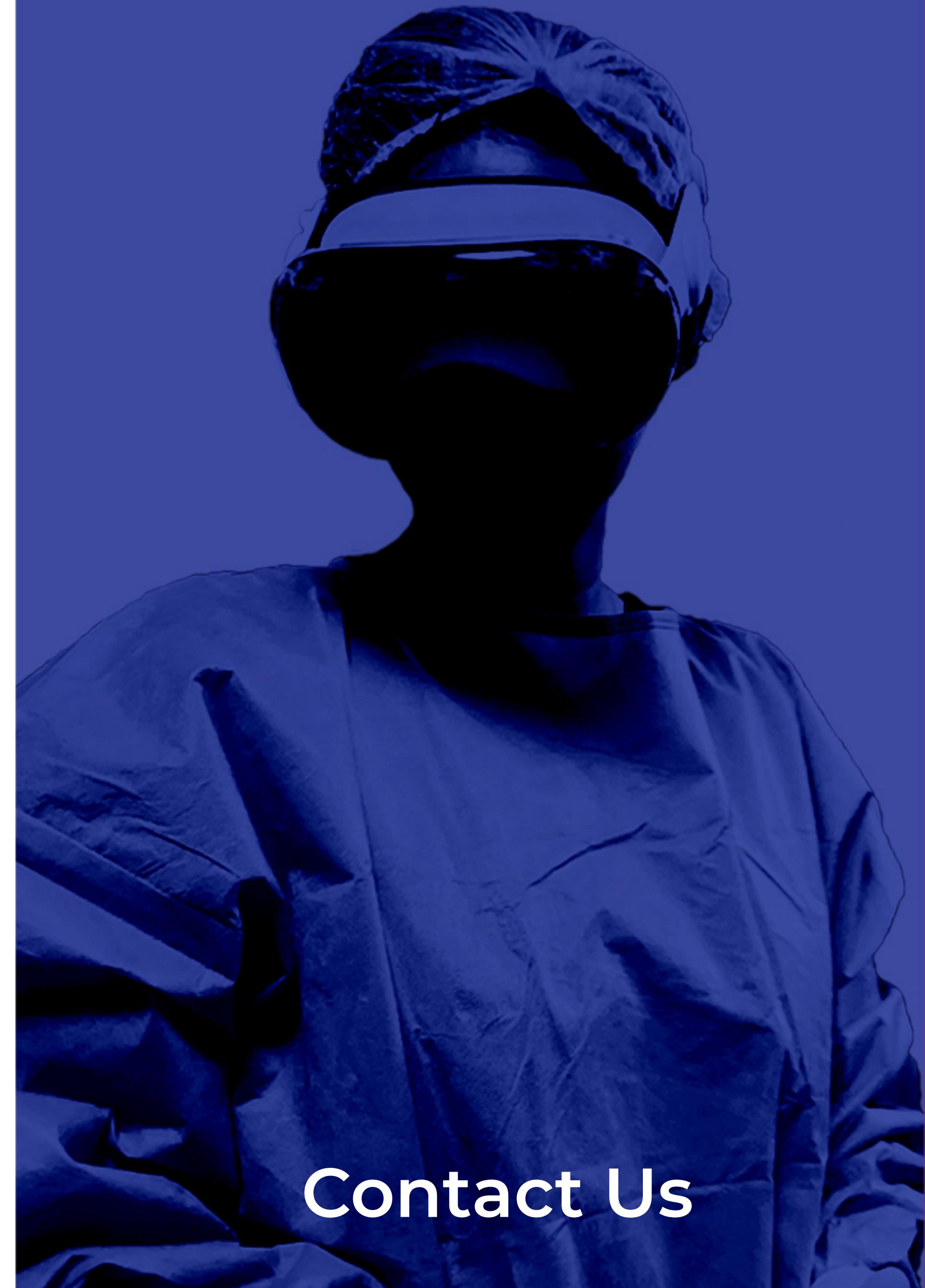
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