

MRTECH

Ready For Tomorrow

MRTECH True AR+MR Dual Mode Solution: Healthcare Use Case



The general surgery team at Nanfang Hospital achieved a remarkable medical feat by successfully removing a massive malignant tumor (measuring up to 15cm in diameter) from the abdomen of a 13-year-old girl. Impressively, they managed to preserve vital organs like the spleen and pancreas, giving the young girl a new lease on life. This high-stakes surgery was not only a testament to the exceptional skills of the hospital's medical team but also showcased the transformative power of MRTECH's mixed

reality (MR) technology in preoperative planning, surgical simulation, and doctor-patient communication.



Revolutionizing Surgery with MRTECH

Utilizing MRTECH's cutting-edge mixed reality stereoscopic reconstruction and interactive display technology, the medical team conducted thorough surgical evaluations, personalized planning, and simulated practice runs. Director Hu Yanfeng personally discussed the surgical plan with the patient's family, transforming complex medical terms into easy-to-understand 3D images. This visual approach provided a clear and detailed explanation of the procedure, alleviating the family's concerns and fostering trust. This innovative communication method allowed the family to fully understand and support the doctor's decisions, highlighting the unique value of MRTECH's MR technology in enhancing empathy and cooperation between doctors and patients.



Enhancing Doctor-Patient Communication

Director Hu Yanfeng noted that Nanfang Hospital's general surgery department has repeatedly used MR technology for preoperative discussions, resulting in excellent communication outcomes. The technology, which employs head-mounted displays and specialized applications, creates life-sized holographic representations of the patient's abdominal issues and surrounding organs. These detailed holograms can be easily rotated and magnified, providing patients and their families with a more intuitive understanding of the surgical process. By combining these virtual images with detailed explanations, doctors can help patients grasp the surgery's purpose, process, and expected results, building stronger trust and cooperation, and ultimately enhancing the patient's experience and satisfaction.

MRTECH: Leading the Future of Digital Training

As a pioneer in digital training within the spatial computing era, MRTECH empowers various sectors, including healthcare, industry, and education with MRTECH's "Feel Real" life size digital twins capability and turn key solutions. The collaboration with Nanfang Hospital represents yet another successful application of MRTECH's MR technology in the diagnosis and treatment of complex cases, demonstrating the enormous potential of MR technology in surgical planning, simulation, and doctor-patient communication. It also reflects the company's commitment to leveraging technology for the greater good.

A Commitment to Compassion and Innovation

MRTECH is dedicated to expanding the use of MR technology in medical education, remote consultation, and rehabilitation training, driving a transformation in healthcare delivery. By continuing to harness the advantages of MR technology, MRTECH aims to foster more extensive and in-depth collaborations with medical institutions, benefiting doctors, nurses, and medical school faculty and students alike. With a focus on compassion and innovation, MRTECH is poised to revolutionize the medical field and improve patient care on a global scale.

MRTECH

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The global leading digital transformation
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+1 612 605 7775

www.mrtechnology.biz
sales@mrtechnology.biz

7362 University Ave Ne, Ste 310-5, Fridley MN, USA 55432