Medical Imaging XR

Import, Edit, and Discuss Medical Imaging. In Virtual Reality.

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Introduction

Medical Imaging XR is the DICOM viewer in virtual reality. Visualize, edit, and discuss medical imaging in collaborative teams in VR. The application is used around the globe for postoperative case reviews, surgical teaching, training, and medical education.

Medical Imaging XR allows you to work with medical imaging in DICOM format from CT, MRI, CBCT, Echocardiography, Ultrasound, and other medical sources in a fully immersive, three-dimensional, holographic space.

Studying, editing, and processing medical imaging in virtual reality offer unique advantages. You can grab and process 3D data with your hands, walk around it, examine from any perspective, and scale it up to any size in a digital, three-dimensional environment.

With Medical Imaging XR, pathologies can be better visualized, detected, understood, and discussed. Editing and understanding medical imaging in VR is easier, faster, and more accurate than on-screen.

And with Medicalholodeck, you can create your case reviews, surgical training, lessons, and simulations in VR. Record your teachings for replay in VR, and build your own library of content.

Medical Imaging XR is changing the way medical imaging is used. The application improves communication, raises medical skills, and leads to better-trained surgeons and medical professionals.
App Overview

Key Features

Work on multidimensional medical imaging, discuss case reports, teach surgery, and create own content. Welcome to Medical Imaging XR, your virtual reality application for professional medical imaging in VR.

**Import.** 4D, 3D, and 2D DICOM files from CT, MRI, CBCT, Echocardiography, Ultrasound, OBJ, and STL files, are supported for import, display, and processing in VR.

**Display.** Display and examine medical imaging in a fully immersive three-dimensional space. See more and understand better than with cross-sectional imaging on flat computer screens.

**Edit.** Work on your medical imaging in VR. Enlarge, cut, and segment the data in immersive space with your hands. Be faster and more precise, thanks to virtual reality.

**Discuss.** Present case reports and collaborate with professionals worldwide. All in a fully immersive and collaborative space in virtual reality.

**Record, Replay, Share.** Record case reports, create your lessons, store your content and share with users around the globe. All in Virtual Reality.
Advantages

Medical Imaging in Virtual Reality
Import your patient’s 3D CT and MRI data and work on medical images in a fully immersive, three-dimensional, holographic space. Medical Imaging XR makes you faster and more efficient and raises the quality of your work.

Get a Better Picture
Get a detailed and fully three-dimensional insight into your patient's body. Understanding your patient's case is easier and more precise in virtual reality than on 2D screens using black and white cross-sectional images.

Improve Communication
Communicate better with your team. Present, analyze, and discuss cases together in virtual reality, and ensure everybody shares the same level of information.

Increase Success
Use Medical Imaging XR to discuss, work, and teach with multidimensional patient data. Use VR to increase your success - as a medical professional, educator, or student.

Record, Store, Share
Create case reports, lessons, simulations, and medical content in VR, and make it accessible to users in the metaverse.
Use Cases

Case Reports and Tumor Boards in VR

Use Medical Imaging XR for post-operative case reports and tumor boards. Load patient data, and discuss the case with your team in virtual reality. Record, store, and share it in VR for later use and educational purposes.

Surgical Training in VR

Import patient data and use medical digital twins for surgical teaching and training. Explain pathologies and surgical techniques in virtual classrooms, store the lessons, and create a growing library of teaching modules.

Patient Information in VR

Present medical imaging to your patients in VR and explain pathology, surgery, and treatment in an easy-to-understand 3D environment. Using virtual reality, patients understand their situation better, can ask the right questions, and will feel more comfortable with the upcoming treatment.

Medical Education in VR

Use Medicalholodeck's data and applications, or import your data to create immersive simulations and learning experiences. Record, store, and share the lessons in VR, making them accessible to students worldwide.