

Indications for Use:

Knee VIP™ and Hip VIP™ are pre-operative planning tools for orthopedic surgery. The plans are created from patient pre-dimensioned CT scans from PACS-systems, utilizing implant specific surgical techniques with surgeon preferences. The Knee VIP™ and Hip VIP™ system contain an integrated database of orthopedic hip and knee implant geometries that are overlaid to assist surgeons in their planning of orthopedic hip and knee surgeries. The software application enables the healthcare professional to view the patient's customized preoperative plan by means of a Virtual Reality (VR) headset. Finalized plans can be viewed with VR or printed to a PDF report. Clinical judgment and experience with the software is required for its successful use.

Intended Use:

Knee VIP™ and Hip VIP™ are preoperative surgical planning software. It is intended to assist qualified orthopedic surgeons in the preoperative planning of orthopedic surgical procedures.

Disclaimer:

This software is intended for use of orthopedic surgeons who have received live training prior to Oculus headset usage. The Oculus headset provided by Kinomatic is not intended to be used for anything other than surgical planning.

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**1.0 Purpose**

1.1 This document describes the use of Kinomatic Knee Virtual Intelligent Plans (VIP) and Hip Virtual Intelligent Plans (VIP). This includes accessing pre-operative surgical plans in Virtual Reality (VR) and in PDF format.

2.0 Scope

2.1 The User Manual applies to qualified medical professionals, most likely orthopedic surgeons, for use in planning knee arthroplasty or hip arthroplasty surgeries.

3.0 Responsibility

3.1 User Manual shall accurately outline procedures for accessing a Kinomatic plan.

4.0 Applicable References

4.1 Oculus First Steps Tutorial

5.0 Before Use

5.1 Kinomatic Knee VIP and Hip VIP can not be accessed on public networks and WPA2 is required

5.2 Oculus Installation

5.2.1 Prior to viewing and using Kinomatic Knee VIP and Hip VIP, the surgeon will be set up with a personal Oculus Quest 2 Headset and controllers provided by Kinomatic.

5.3 WiFi Connection

5.3.1 Ensure that you are connecting to a secure WiFi network to view plan on VR and in PDF format.

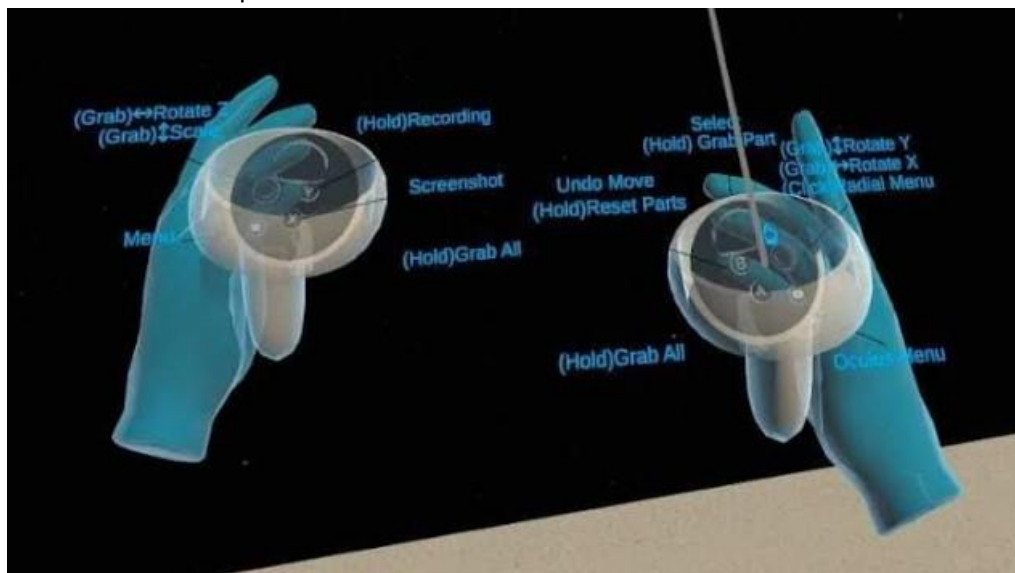
6.0 During Use

6.1 Viewing VR Plan

6.1.1 Turn on Oculus Quest 2 Headset with the side button.



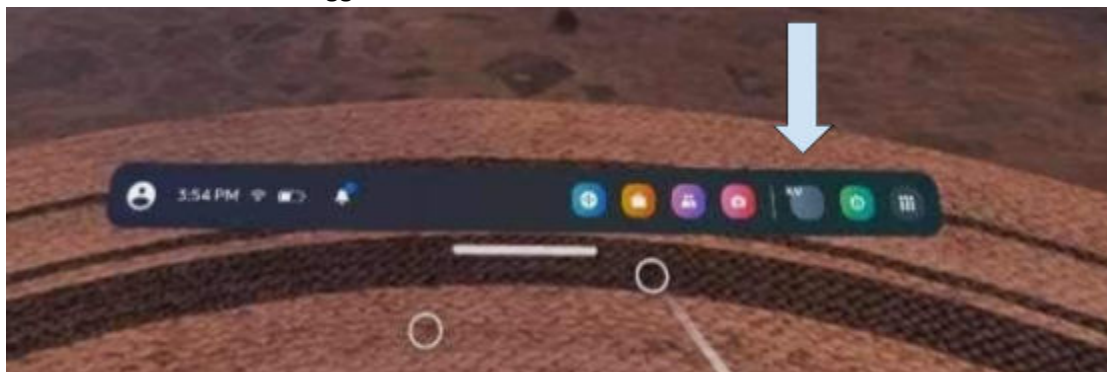
6.1.2 and put the headset on and controllers in hand.



- 6.1.3 Open the main menu by selecting the “Oculus Menu” button on the Right controller.



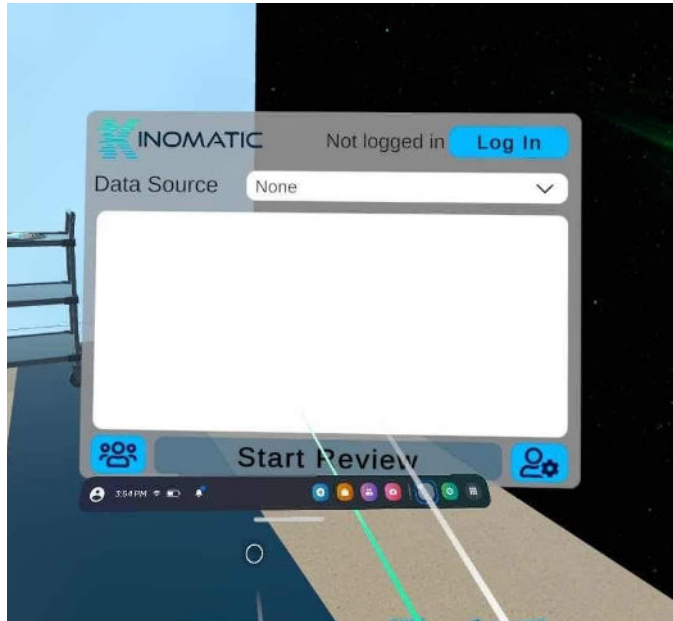
- 6.1.4 Click on the VR application on the bottom menu or in the app list with the controller trigger.



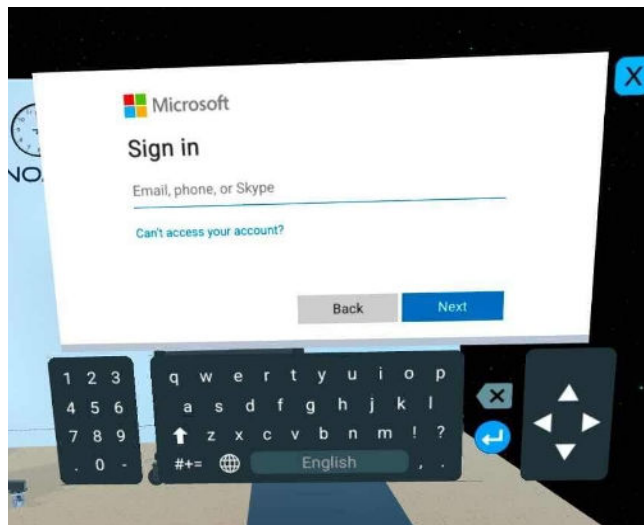
The Kinomatic loading screen will appear:



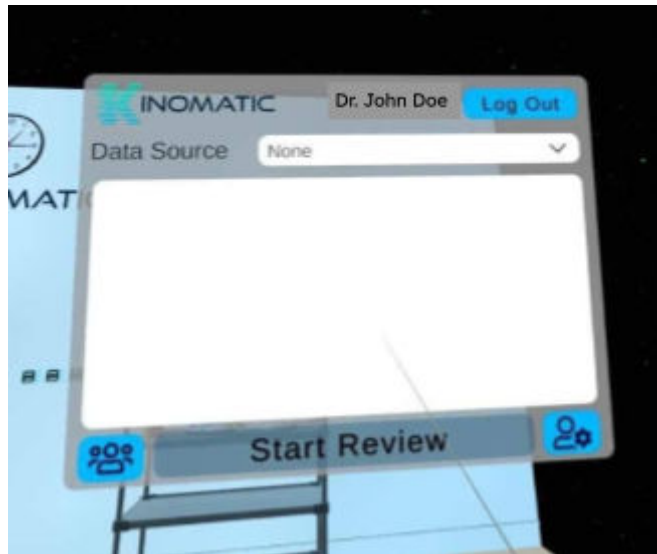
- 6.1.5 Select “Log In” in the upper right corner



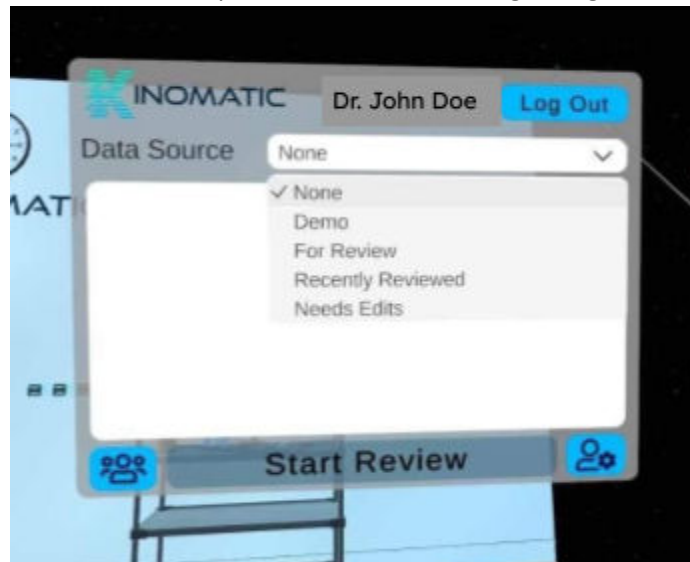
- 6.1.6 Use the controllers to log into your associated Microsoft OneDrive account with your personal credentials.



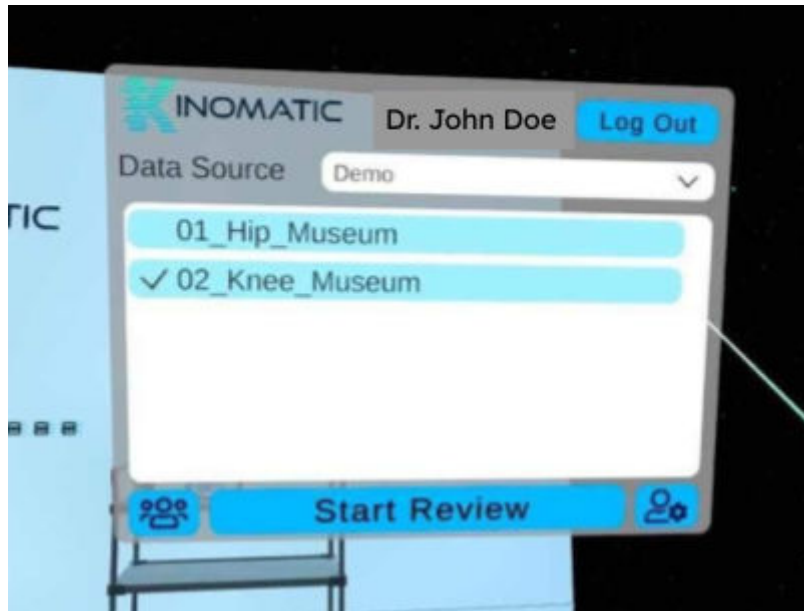
- 6.1.7 Select the drop down menu for “Data Source”



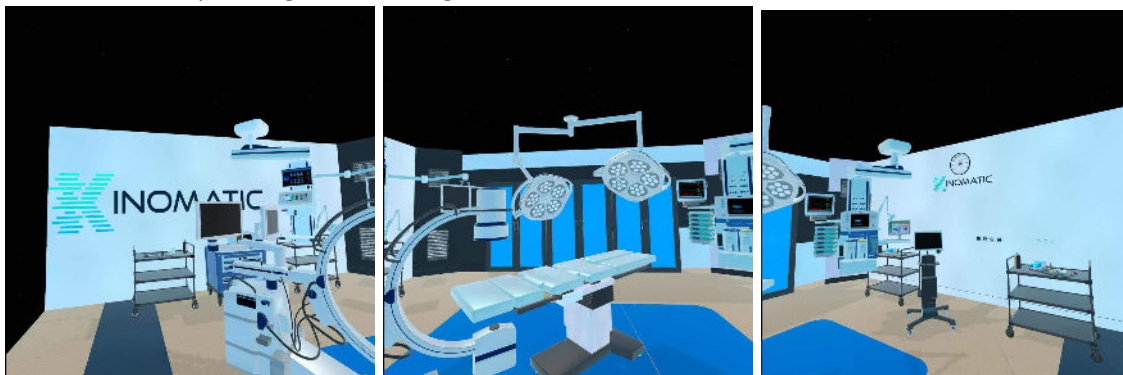
- 6.1.8 Select “Demo” to view an example hip and knee plan with generic patient information.
Select “For Review” to view a patient plan for the first time.
Select “Recently Reviewed” to view past patients.
Select “Needs Edits” to view patients that are awaiting changes to their plan.



- 6.1.9 Select the patient case folder for the surgical plan you would like to review.
6.1.10 Select “Start Review.”

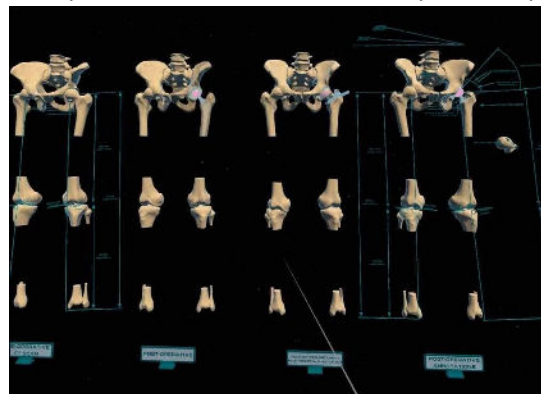


6.1.11 The 3D bone models for the selected patient should now be viewable in a virtual operating room setting.



6.1.11.1 To move the model: hold the trigger over the model and move against the back wall of the museum.

6.1.11.2 To select and move a component: hold the trigger over the component and move it to a new place in space.

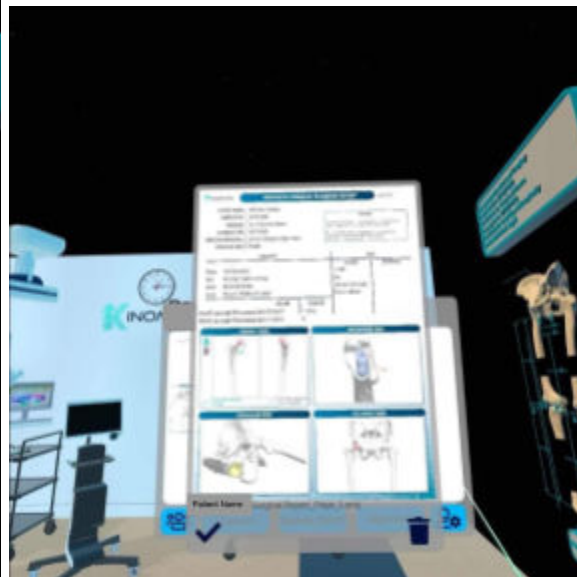


6.2 Viewing the PDF Summary

6.2.1 When a patient's plan is opened the PDF Summary will be in the Menu and each page can be individually viewed.



6.2.2 Select PDF Summary pages to view.

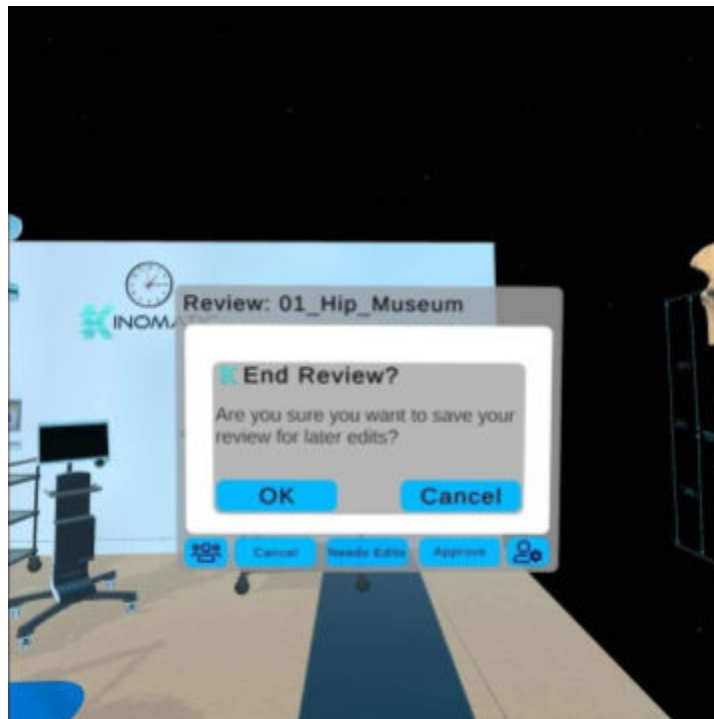


6.2.3 Select the check mark to exit the PDF image.

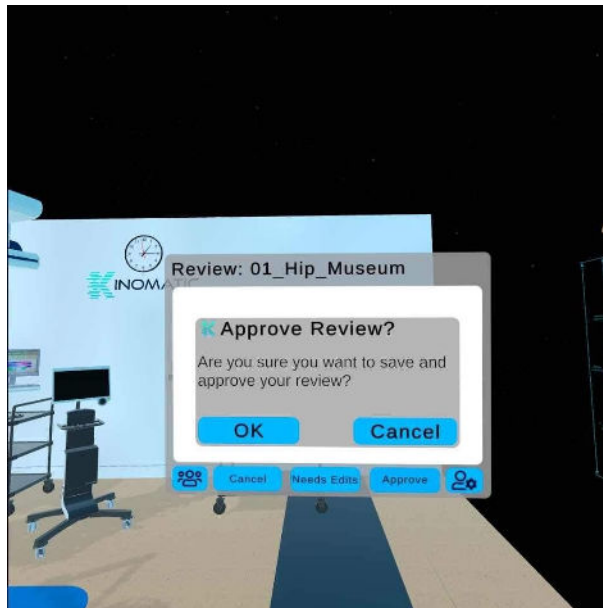
6.3 Exit a plan



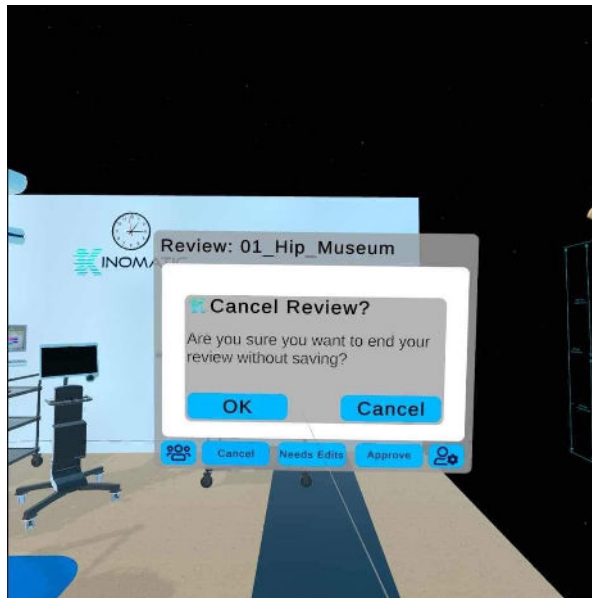
6.3.1 If a plan needs to be edited: select “Needs Edits”



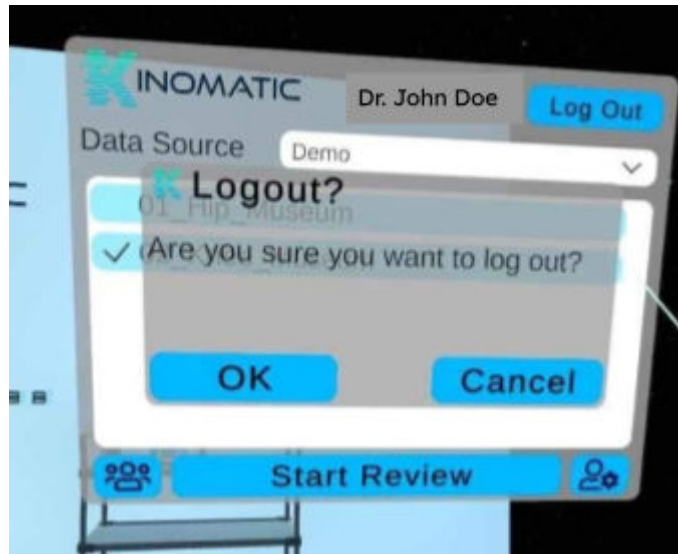
6.3.2 If a plan is perfect: select “Approve”



6.3.3 If a plan is not ready to be edited or reviewed: select “Cancel.”



6.4 When all plans have been reviewed log out of the OneDrive account by selecting “Log Out” in the upper right and then selecting “OK.”

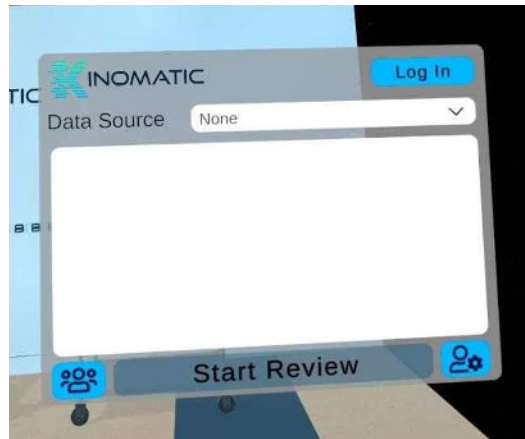


- 6.5 Select the “Oculus Menu” button again on the right control to exit the KinomaticVR App and then select “Quit.”



7.0 Additional Features

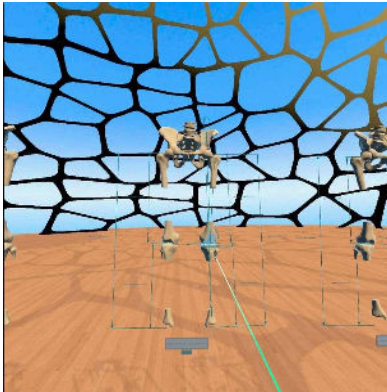
- 7.1 Edit the background of the plan.
7.1.1 Select the settings icon in the lower right corner



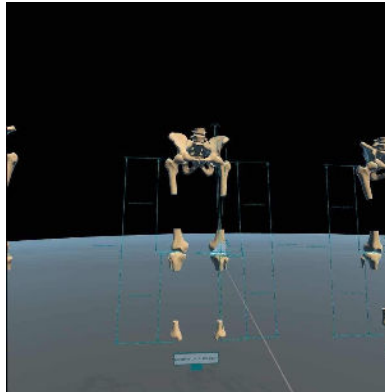
7.1.2 Select the desired background:



Dome:



Basic Floor:



Operating Room:



7.1.3 Select Left Hand Controls

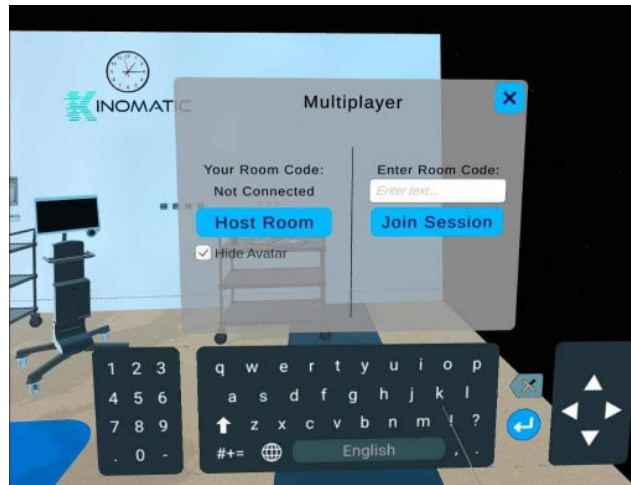


7.2 View with a Kinomatic employee in 2 Player VR (coming soon! For further info please contact Kinomatic).

7.2.1 Select the icon with additional people in the lower left corner.



7.2.2 Join a room.



8.0 After Use

8.1 Power off the headset with the side button

