



Instruction manual for the VRE app

(also available inside the app using the *Handling Instructions*-?-icon)

Controlling the camera/the scientist



- Double-tapping/double-clicking devices positions the camera/the scientist in front of the device.
- The lab bench icon in the utility bar positions the camera/the scientist in front of the lab bench.
- Double-tapping/double-clicking the table sets a specific focus point on the table.





Desired action	Mouse control	Touch control
Change perspective/point of view	Press and hold the left mouse key & drag the point of view into desired position.	Tap and hold one finger & drag the point of view into desired position or rotate with two fingers.
Zoom in/out 	Zoom in/out using the mousewheel or use +/- magnifier icons.	Move two fingers towards each other to zoom out, move them apart to zoom in (Pinch) or use +/- magnifier icons.
Move inside the lab/change position Change height of camera 	Press and hold the right mouse key & drag view into desired position or use the analogue stick (bottom right) by pressing and holding the left mouse button + drag the stick into the desired direction.	Pan with two fingers to move into the desired position or use the analogue stick (bottom right) by tapping and holding one finger & drag the stick into the desired direction.


More functions of the utility bar





 The [Device Quick Access](#) opens a list of all usable items in the lab, with which one can then interact more directly. The icon looks as shown on the right when open and can be closed by clicking again or by clicking the cross in the upper right corner of the menu. 

 The [Infomenu](#) is opened using the book icon and closed again using the cross in the upper right corner of the menu. Here, one will find a description of the experiment and the procedures. In addition, one can, depending on the experiment, read experiment specific tasks. In the main menu, one will find the participating persons and license information.

 With a simple click, one can create [Screenshots](#) that can be used for documentary purposes afterwards (only for Windows/macOS). These screenshots are stored under the folder path Pictures/VRE Screenshots with the current date.

 The [Handling Instructions](#) contain explanations with preview videos about all general control options within the app.

 Die [Options](#) offer three subcategories: Under *General*, the volume, the **size of controls and text elements**, the language and the energy saver mode can be adjusted. Under *Display*, one can configure the resolution as well as the full screen mode, under *Graphics* the quality level and specific settings. **Especially the resolution and quality level have a strong impact on the performance of the app.**

 This icon opens a menu to [Exit](#) and [Restart](#) the experiment/application. Here, one will also find the [Evaluation](#), depending on the experiment, in which all necessary points for conducting this experiment are evaluated.

Additional functions



The time lapse in the upper right corner of the window can be used to speed up the simulated time in the laboratory. The set factor, 100 times in the example figure, can be read directly.