

VR Menu

During the VR experience you can Display the VR menu to perform a variety of tasks, and whether you are in Desktop Mode or VR Mode, the functions within the menu are the same, but they are arranged differently to suit the platform you are using.

Accessing the VR Menu

To Display the **VR Menu** in **Desktop mode** : Press the middle mouse button or the Mouse wheel.

To Display the **VR Menu** in **VR mode** : Press the Menu button on the VR controller.

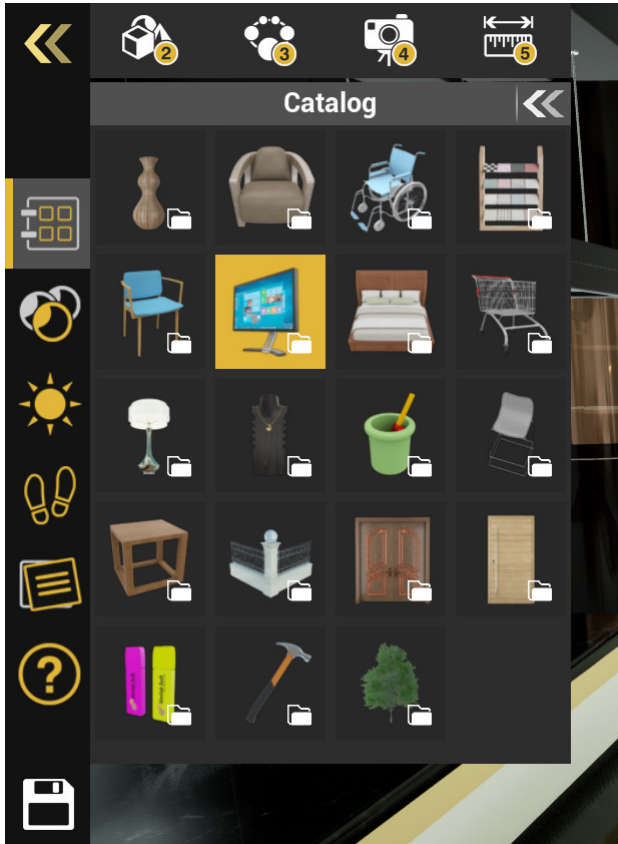


VR Menu in **Desktop Mode** (Left) appears to the left of the screen, while in **VR Mode** (Right) it appears in front of the user.

VR Menu Functions



Catalogs

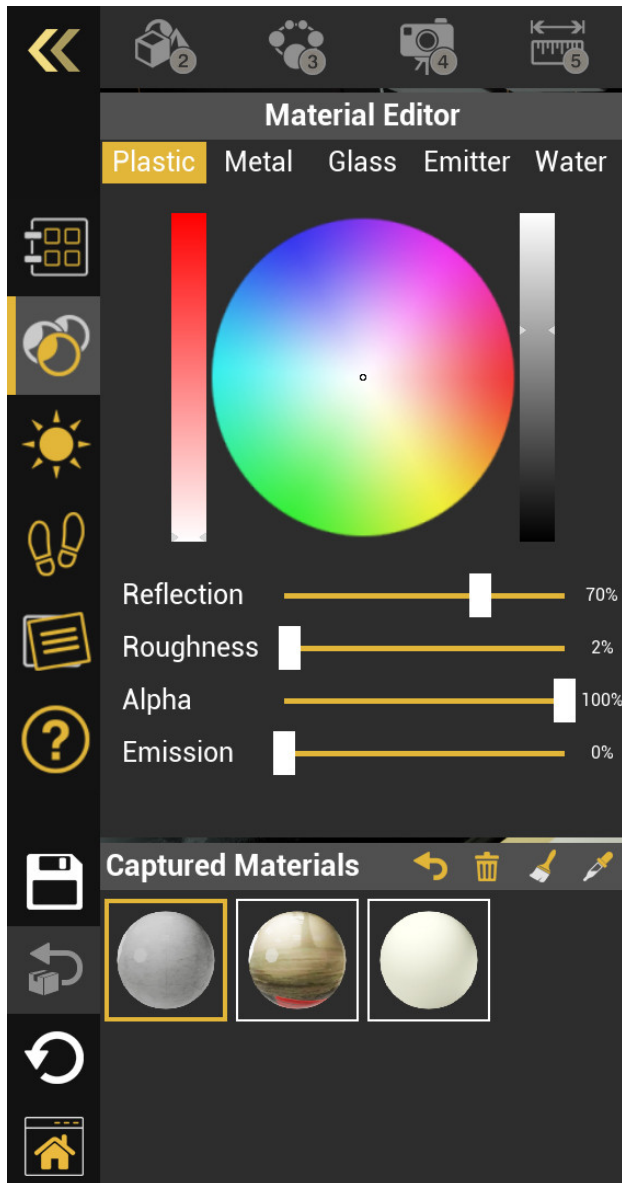


Catalogs when implemented in a VR experience, will include 3D Models that can be imported to the VR experience.

Upon selecting one of the models, it will begin downloading, and while it does so, you can position the model anywhere in the scene.



Materials



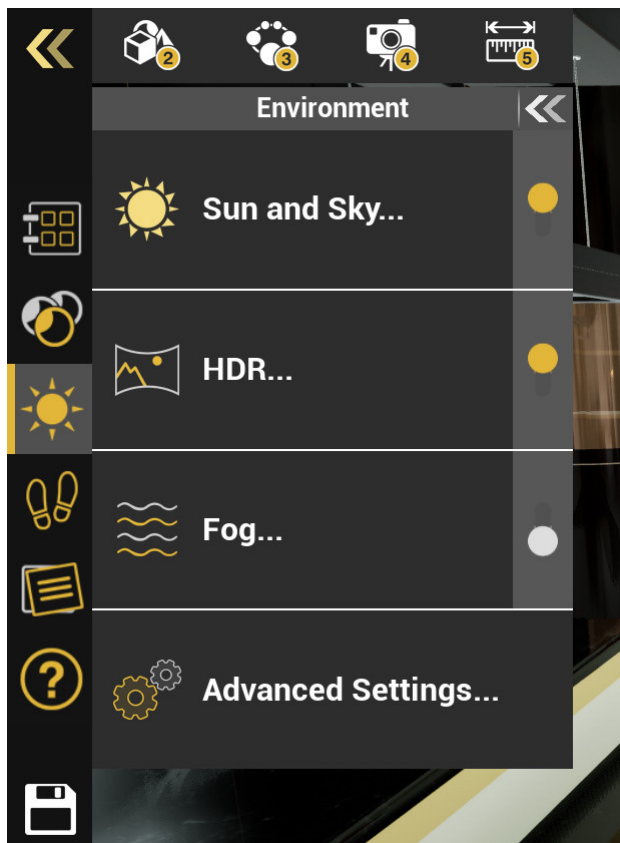
After accessing the material panel select an object in the scene to display its material, after which, you will be able to modify it.

Each material type available (Plastic, Metal, Glass, Emitter and Water) will have different attributes that you can modify to alter the appearance of the object.

From the Captured Materials panel, you can store materials that are used by objects in the scene as a palette and then apply the stored materials to other objects in the VR experience.



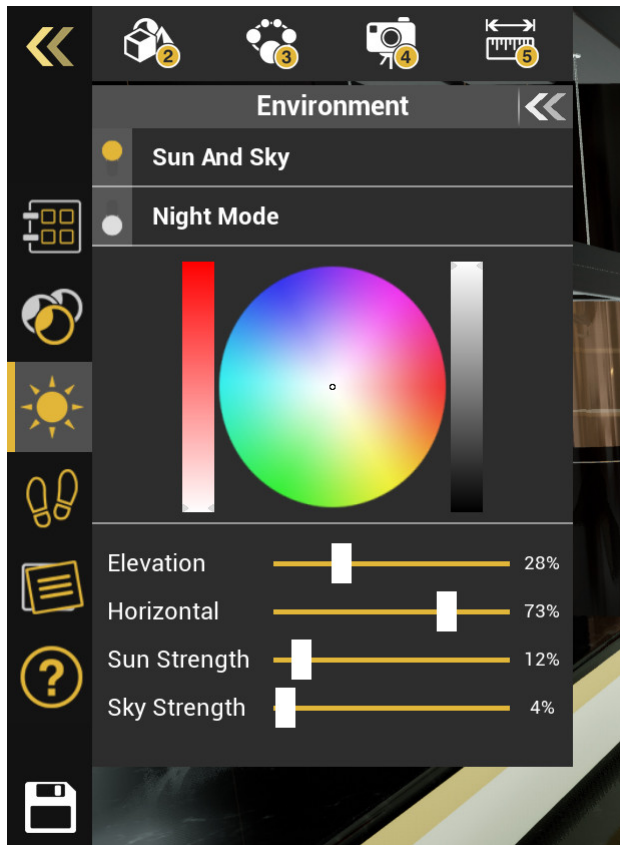
Environment



From the Environment Panel you can access the settings for :

- Sun and Sky
- HDR Image
- Fog
- Advanced Settings

You can also Toggle each of these systems on and off by pressing the switch to the right of each system.



From the **Sun and Sky** sub-menu, you can toggle the system on or off, as well as enable night mode which would mimic a Night lighting environment.

you can also control the Sun and Sky Color hue by using the color wheel and the sliders next to it.

To control the sun's position in the sky, adjust the Elevation and the Horizontal sliders. Changing the sun's position will affect the Sun disc's location in the sky, as well as the direction of the light emitted by the sun.

The sun Strength controls the strength of the direct light rays coming from the sun, while the sky strength will affect the over all ambient light emitted from the sky.



HDR images use Bitmap images to light the scene, and it can work together with the Sun and Sky system or independently from it.

In the HDR sub-menu, you can adjust the color hue of an HDR image when available in a VR experience.

In case this option is greyed out, it means that the VR Experience does not have an HDR image.

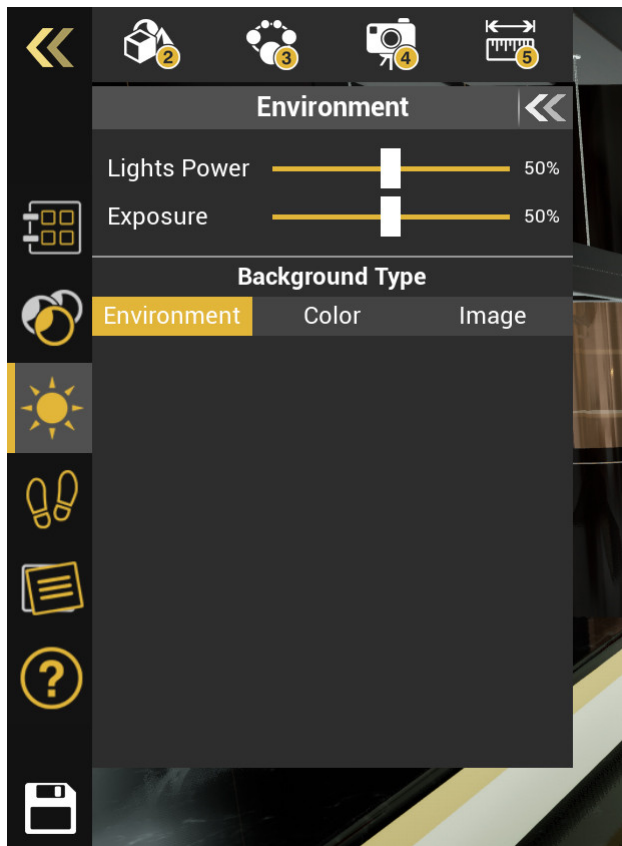
In addition to color, you can also adjust the brightness of an HDR image.



Fog is a volumetric environment effect that can make the natural phenomena of fog or haze in the scene.

from this menu you can adjust the color and brightness of the fog, as well as the density.

you can also adjust the starting distance of the fog which controls how close to the user the fog is, and when set to 0, the fog starts where the user is standing in the VR experience.



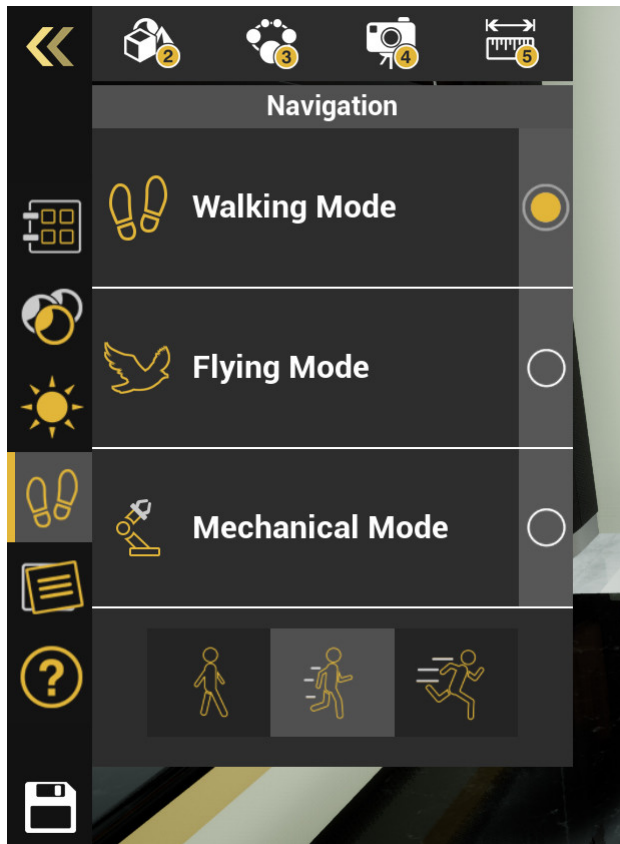
The **Advanced Settings** Menu of the Environment Settings will enable you to change the Lights Power in the VR Experience, which controls the strength of all artificial lights such as Spotlights, Area lights, IES lights and Point lights and it will *not* affect the Sun and Sky nor the HDR lighting.

Exposure, simply put, Controls the overall brightness of the VR experience, with higher values more brightness will be introduced to the scene, while with lower values, the scene would appear darker.

The Background type determines what backdrop to display in a VR experience. having it set to environment will either display the Sun and and sky or HDR image, while when set to color, a single solid color will be displayed, and with the Image option, a 2d Image will be displayed.



Navigation



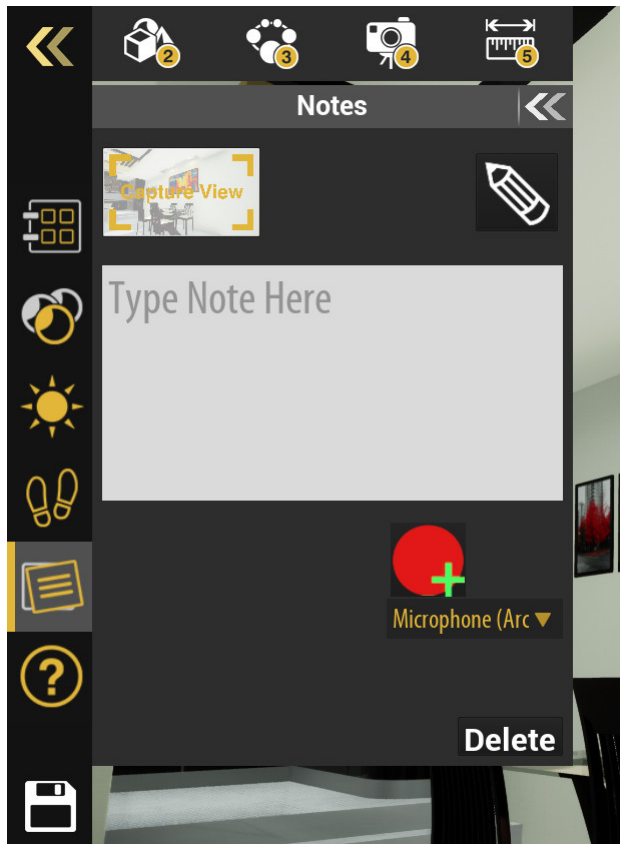
The Navigation menu is only available in Desktop mode and from there you switch between the following Navigation Mode :

- **Walking Mode** : In this Mode the user will travel on flat surfaces as if he was walking and will collide with objects in the scene.
- **Flying Mode** : with flying mode, the user can elevate upwards without the effect of gravity, and collision bypassed if the VR Experience creator set it to be so.
- **Mechanical Mode** : in mechanical Mode, the user can rotate around an object and zoom in an out of it by double clicking that object to focus on it.

The three buttons at the bottom of the panel control the walking speed of the user.



Notes



From the Notes menu, you can create multiple notes each tied to a different location in the VR experience.

Using the Pencil icon, you can draw on objects in 3D space to mark them. The lines you draw are exclusive to the selected note and will not appear unless that note is accessed.

In the text field, the user can type his note in writing.

Using the record button, the user can add a voice note through the Microphone, and from the combo box beneath the button, he can choose the recording device.



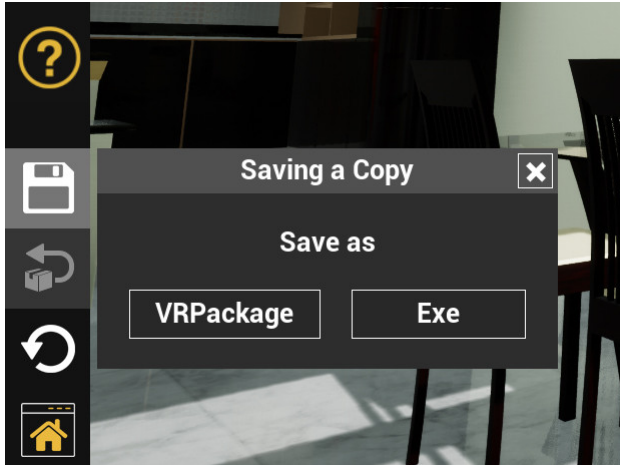
Help



From the Help Menu, you can access multiple VR Experiences that aim to teach the user the basics of utilizing the SimLab VR Viewer.



Save

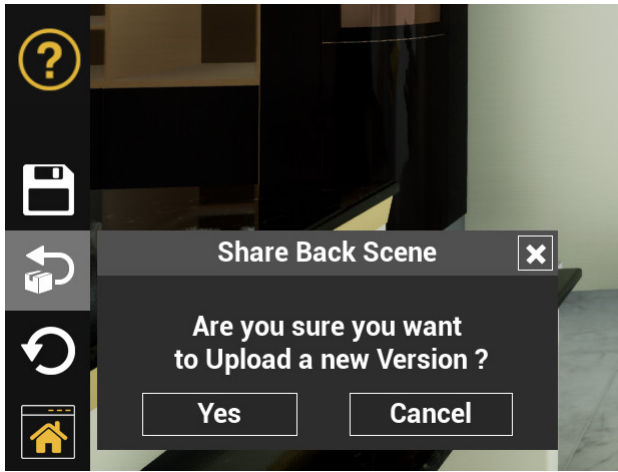


When the Save option is enabled by the VR Experience creator, you will be able to save the VR Experience along with any modification made as either a "VRPackage" which is the native format for the VR Viewer files, or an "Exe" file.

The saved files can later be opened or shared with others either via SimLab VR Viewer or through traditional file communication mediums.



ShareBack



When the ShareBack option is enabled, the user can click the ShareBack button to send the VR experience back to the user that shared it with him along with all the modifications and notes added to the VR experience.



Reload

Clicking Reload will restart the VR Experience, erasing any modifications or progress made through the experience.



Home

Pressing the home Button will send the user back to the homepage of SimLab VR Viewer, where he can browse different VR Experiences.



Scene Building Mode



When entering the scene building mode, any grabbable objects in the scene become interactive objects where you can :

Move the objects : Aim at the object and hold left click or the controller trigger in VR to move the object around in the scene.

Scale the Object : using the left mouse button in Desktop Mode or the trigger button in VR Mode, drag the green spheres around the object to scale it up and down.

Rotate the Object : using the left mouse button in Desktop Mode or the trigger button in VR Mode, drag the blue arrows surrounding the object to rotate it in the respective direction.

Hide/Show the Object : Click on the visibility button to hide or show the object in the scene.

Replace the Object : Click on the replace button then select a second object in the scene to replace the first object with the second object.

Reset the Object : Resets the scale of the object to its default size.

Copy the Object : Creates a replica of the object which later you can modify while maintaining the attributes of the original object.

Delete the Object : Removes the object from the VR experience permanently.



(Lists) Visualize Scene Options



If there are any lists implemented in the VR Experience, accessing this mode will display all the Lists pins, which when triggered, will reveal options for the target model.

Lists can include:

- Different materials of an object.
- Different Attributes for an object (Position, Scale and Rotation).
- Different Animation Sequences.
- Multiple object replacement options.



Large Scene Navigation Mode



This Mode can only be accessed if there are Teleportation Cameras in the scene, once the mode is activated, the objects in the VR experience will become semi-transparent with a green hue and glowing spheres will appear.

Upon hovering over the spheres, a view of where the sphere will teleport you to, will be displayed, and once you click the sphere, you will teleport to its location.



Measurements Mode



In the Measurements Mode, the user is able to measure distances between points on objects in 3D space.

In VR Mode hold the trigger on the right hand controller and drag the controller to take a distance between the points, and use the trigger on the left hand controller to erase the created measurement when needed.

In Desktop Mode hold the left click and drag the mouse to take a distance between the points, and use the right click to erase the measurement when needed.

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