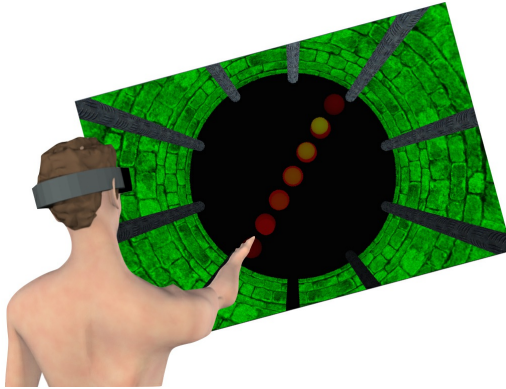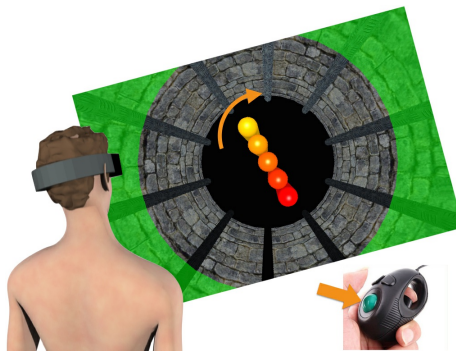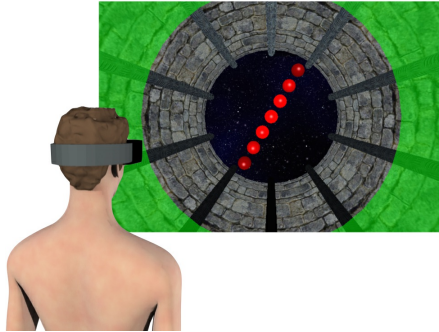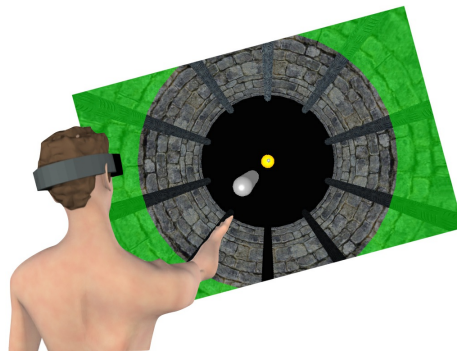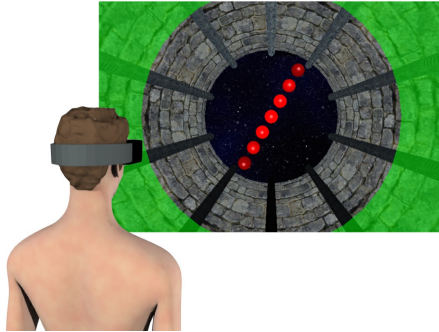# *Welcome to Grasp*

In the menus to the left:

- Choose your User ID.
- Select a posture and then a protocol.
- Use the windows and buttons at the right to execute each task in order.
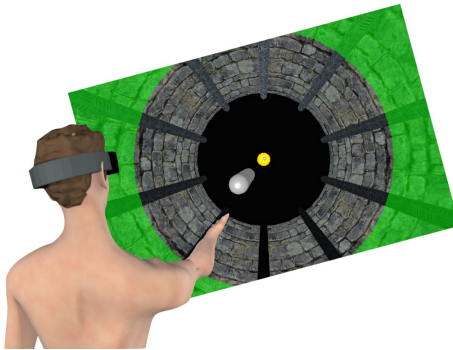
Visual-Visual

Press **'Next'** to begin.

Visual-Manual

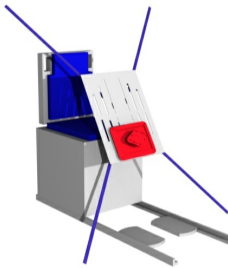Press **'Next'** to begin.

Manual-Manual
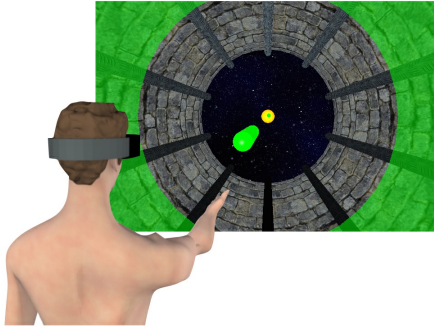
Press **'Next'** to continue.

Tracker Alignment

Ready to perform the alignment procedure for the 3D tracker:

- Verify that the equipment is installed as shown:

- Check that the field of view of the tracker cameras is free of obstructions.

- Confirm that the chest markers are positioned properly on the chair.

Press **'Execute'** to perform alignment.

Tracker Alignment

Ready to perform the alignment procedure for the 3D tracker:
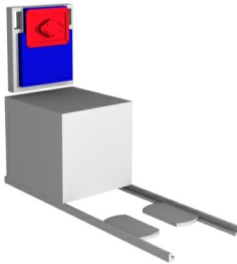
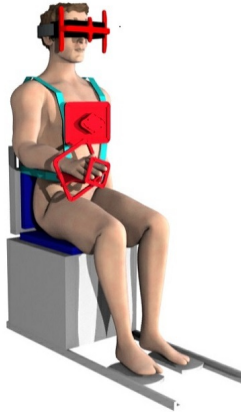- Verify that the equipment is installed as shown:

- Check that the field of view of the tracker cameras is free of obstructions.

- Confirm that the chest markers are positioned properly on the chair.

Press **'Execute'** to perform alignment.
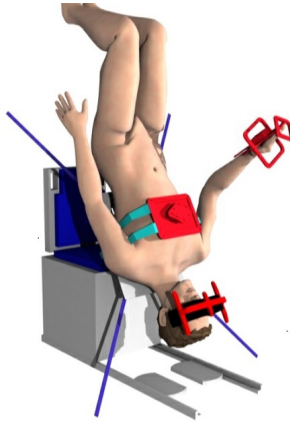
Ready to Start

Adopt the seated posture with chest and hand markers attached and the HMD ready.

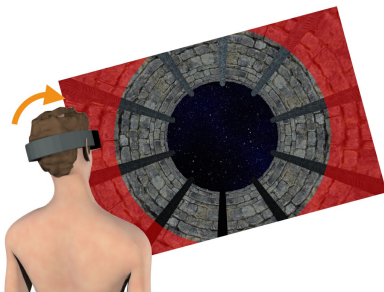Press **'Execute'** then don HMD and start trials.

Ready to Start

Adopt the quasi-freefloating posture with chest and hand markers attached and the HMD ready.

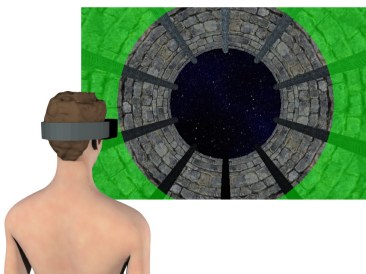Press **'Execute'** then don HMD and start trials.

Step 1: Straighten Head

- If your head is laterally tilted with respect to the trunk, the halo will be red.

- Align the head to your body axis, this will make the halo turn bright green.

Step 2: Acquire Target

- Once your head is aligned with your body, a disk-shaped target will appear. Raise your arm and point until the laser-pointer falls on the target.
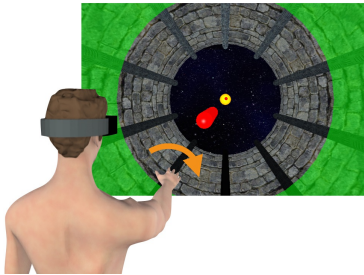
- Rotate your hand in a rolling motion around the axis of your arm until the pointer and the tool turn bright green. Memorise the corresponding hand orientation.

- When the target dissappears, lower your arm to your side.
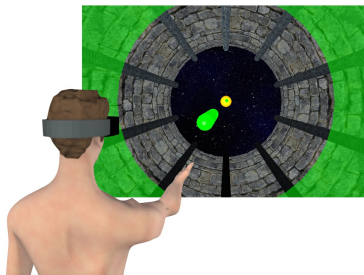
Step 2: Acquire Target

- Once your head is aligned with your body (i.e. when the halo is bright green), a line of balls will appear at the end of the tunnel, representing the target orientation.
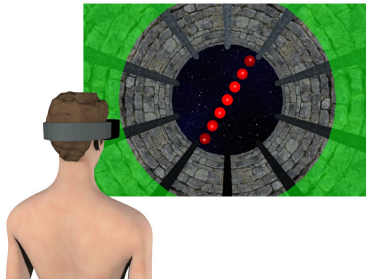
- Memorise the target orientation.

Step 3: Tilt the Head

- If the tunnel turns red, you must tilt you head to a new orientation. If an arrow appears, it tells you which way to rotate the head.
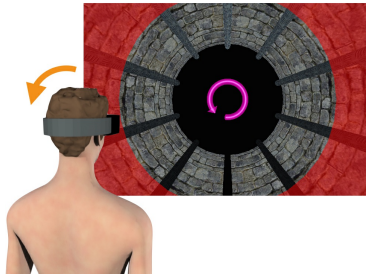
- Roll your head from side to side until the tunnel turns green.

- Hold this position.

Step 4: Align to Target

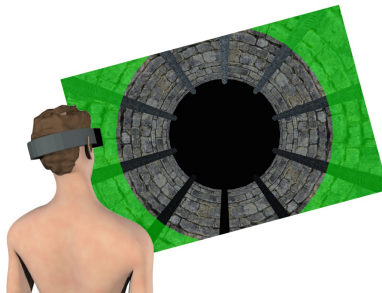- When the orange disk reappears, raise your arm and aim until the laser pointer falls on the disk.

- Rotate your hand in a rolling motion around the axis of your arm to the remembered target orientation. The hand will not change color.
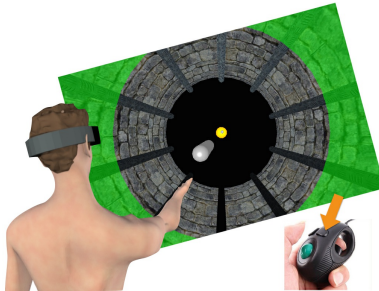
- Click on the top right mouse button to validate your response once you think your hand is aligned with the memorised target.

Step 4: Align to Target

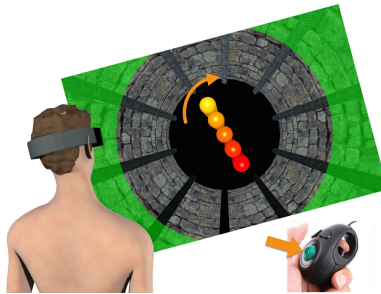- Use the mouse trackball to align the tool to the memorised target (trackball movements to the left and right produce counterclockwise and clockwise rotations of the tool, respectively).

- Click on the right mouse button to validate your response once you think that your hand is aligned with the memorised target.
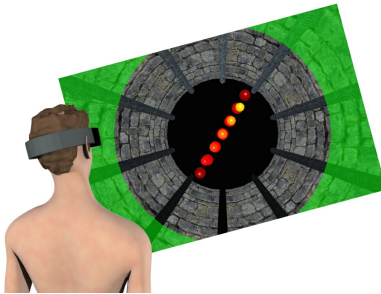
Step 5: Check Response

- In some of the trials a line of target balls will be projected from your hand towards the targets, allowing you to verify whether or not you correctly aligned your hand.
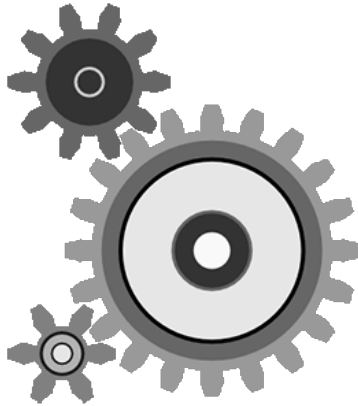
Ready to Start

Press **'Execute'** to continue.

Application Running

Action Terminated

If normal exit:

- **'Next'** to continue to next step.

If error exit:

- **'Retry'** to repeat this action.

- **'Ignore'** to ignore error and move on.

- **'Restart'** to re-initiate this task or select another.

Recommendation: Attempt **'Retry'** no more than once or twice before consulting with POCC. **'Ignore'** and **'Restart'** should not be used without POCC autorization.

Action Completed Normally

Press **'Next'** to continue.

Action Completed with Errors

Press:

- **'Retry'** to repeat this action.

- **'Ignore'** to ignore and move on.

- **'Restart'** to restart this task or select another.

Recommendation: Attempt **'Retry'** no more than once or twice before consulting with POCC. **'Ignore'** and **'Restart'** should not be used without POCC autorization.

Not Yet Implemented

Invalid Selection

Task Terminated

Press **'Next'** to proceed.

Subsession Terminated

Press **'Next'** to exit.