Hardware Setup

- VIVE Tracker Actor Setup
- MANUS Quantum Metagloves Actor Setup
- Equipment Maintenance

VIVE Tracker Actor Setup

1. Activate the LED lights and VIVE lighthouses by locating and turning on the surge protector power strip positioned nearest to the window.



Before:



After:



2. Identify the eight VIVE trackers situated in the charging station beneath the table.



The set comprises:

- 2 hand trackers
- 2 upper arm trackers
- 1 waist tracker
- 1 head tracker
- 2 foot trackers



3. When affixing the trackers to the actor, ensure the LED light on each of the VIVE trackers that form a pair (such as the 2 upper arm trackers) aligns in the same direction as its corresponding device.





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Please note: There are two trackers that lack straps; these are designated for the hands. They will be incorporated in the glove fitting stage. Consequently, the actor should be equipped with all of the trackers, excluding those for the hands.

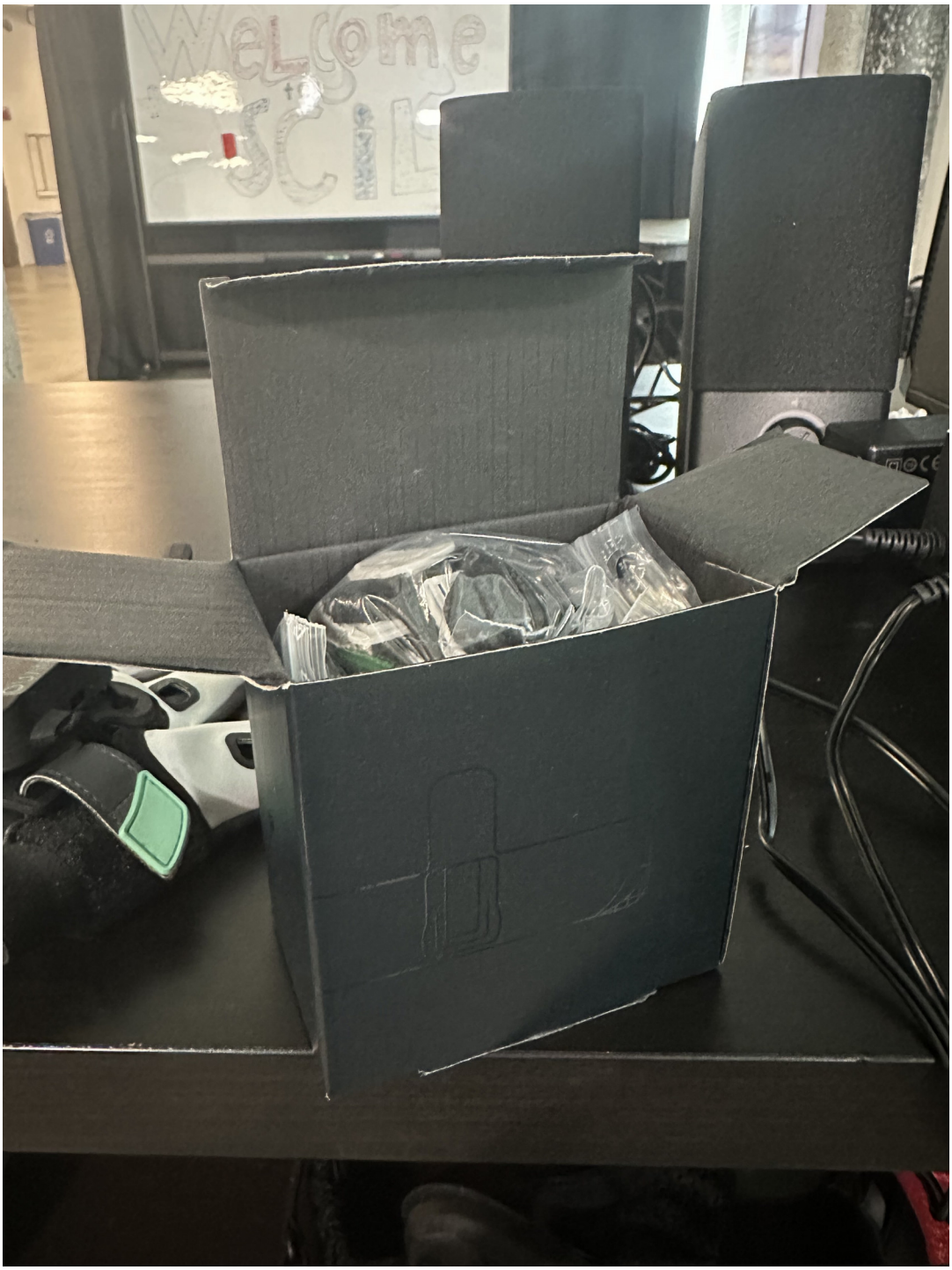


MANUS Quantum Metagloves Actor Setup

1. Locate the pair of MANUS Quantum Meta gloves. They can be found either within their storage case atop the charging station or within two of the compartments in the charging station.



2. Identify the box containing fingertip covers located on the top of the charging station. These covers are stored in small ziplock bags, which are housed inside a black box.



3. Within the box, you will find three main bags, labeled on the covers are the sizes 1, 2, and 3. Select the size that best fits the actor. Based on previous experiences, typically two size three covers for the thumbs, two size one covers for the pinkies, and six size two covers for the remaining fingers provide the best fit.



4. Once the appropriate fingertip covers are selected, gently assist the actor in putting on the gloves, one at a time. This process should involve two people for optimal efficiency and care.


QUANTUM
MANUS

5. After both gloves are worn by the actor, proceed to affix the selected fingertip covers onto each finger until all digits are covered.


QUANTUM

6. Attach the black sensor to each finger by sliding it onto the grey plastic slide rails attached to the fingertip covers. Do not allow the actor to perform this task; it requires two people to ensure proper and safe fitting. Slide the sensor until it locks into place or cannot slide any further.

Note: It is recommended to keep the black cords straight and untwisted once connected to the fingertip covers for optimal functionality.


QUANTUM

7. Locate the remaining two VIVE hand trackers and slide them onto the top of the gloves where the guard rail is located, one at a time. Slide each tracker until it locks into place or can't slide any further.


QUANTUM

8. Thoroughly inspect both gloves and confirm with the actor that everything feels comfortable and secure. This may include adjusting the green side straps on the gloves for a tighter fit if necessary.



9. Once the actor is comfortably equipped with both gloves and the eight trackers are appropriately positioned, please proceed to the MANUS Core Setup page.

Equipment Maintenance

Upon completion of your performance capture session, it is crucial to follow best practices for equipment maintenance and organization. Properly turning off all devices and ensuring they are charging will prolong their life span and prepare them for future use.

- Glove Removal: Begin by assisting the actor in removing the gloves. It is recommended that the actor does not attempt this task independently. Once the gloves are removed, return the fingertip covers to their respective bags and place the gloves in the charging station, ensuring they are plugged in for recharging.
- Vive Tracker Removal: Next, aid the actor in removing the eight Vive trackers. Ensure that all eight trackers are returned to the charging station and correctly plugged in for recharging.
- Power Down Equipment: Proceed by turning off the surge protector power strip that was initially activated. This action will switch off the LED lights and lighthouses.

Once these steps are completed, all hardware has been taken care of and prepared for the next session.

For the software component:

- Close Software: Exit out of the MANUS Core program, making certain that you have saved all data and finalized all tasks prior to shutting down the PC completely.
- Lastly, ensure that the computer and Motion Capture (MOCAP) workspace is clean and free from trash or miscellaneous items that might cause clutter or obstruction. Maintaining an organized work environment is critical for efficient operation.