



VR Equipment Setup - HTC Vive

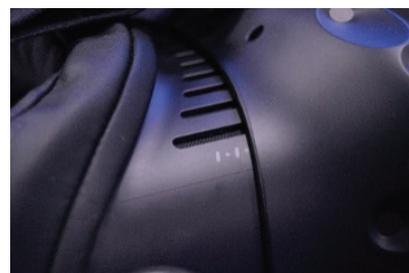
Adjusting the HMD to Optimize User Experience

The HTC Vive virtual reality headset has several mechanisms to adjust for proper fit onto the users head, including: three head straps, optical lens depth setting, and interpupillary distance (IPD) setting. There are also hygiene, cleaning, and foam pad considerations when demoing the headset in a commercial setting.



Headset Adjustments

The Vive headset is equipped with three Velcro-style straps to allow the user to adjust the placement on the head as seen in the figure to the right. The back of the strap should be situated at the rear of the head for a proper fit. The first step is to loosen all of the velcro straps and place the headset on the head. The two side straps should be tightened first to a comfortable fit which will ensure there are no deep imprints on the skin afterward. The top strap should then be tightened until it rests on the top of the head such that it distributing the weight across the head.



The Vive headset allows the user to adjust the ocular lens depth to accommodate glasses. The adjustment knobs are gray plastic rings that are found around the Vive logo on the sides of the headset. Pull the rings out (to the left and right) until they click and turn the knobs until the desired depth is found. Then, push the knobs back into place. There are fiducial marks to ensure the depth is the same on both sides of the headset as seen in the figure to the left.

Interpupillary distance (IPD) is the distance between a person's pupils, and the center of the two lenses should be properly adjusted to match. This will provide the clearest view. There is a turn knob located on the bottom right corner of the headset that will display a numerical value to the user with the headset on. It is best to adjust the IPD while looking at

a familiar image and find the point when the image is crisp and clear. An alternative would be to schedule a professional IPD test or look at a glasses prescription to find the exact value and adjust the headset IPD accordingly. It is also important to note that there is no knob for vertical adjustment, the user should move the headset up and down on their face to find the desired image clarity.

Hygiene, Cleaning, and Pad Replacements

Hygiene is vitally important for shared hardware environments such as showrooms and conference demos. Any hardware that comes in contact with a user should be disinfected after each use. Plastic can easily be cleaned with disinfectant wipes or other cleaning agents. Avoid immersing hardware in cleaning solutions.



Additional care must be taken with the Vive headset. Lenses will become smudged as it comes in contact with users' foreheads, hair, and other skin, especially when putting on or removing the headset. The lenses inside the faceplate are delicate and should only be cleaned with microfiber cloth supplied with headset. Failure to use the correct cleaning cloth may result in scratching.

The hygiene of the foam face cushion is crucial. Ideally, it is replaced between different users, but this may not be financially feasible. Replacement pads are available through Vive's accessory store and third party vendors such as www.vrcover.com. There is a waterproof cover offered by that website that can easily be disinfected between uses. For high volume demos, several companies offer thin disposable masks and covers for the headset.

Other Considerations

The current headstrap for the HTC Vive does not have integrated headphones, however, at CES 2017 HTC announced a new headstrap that is more rigid and includes headphones. Availability is targeted for Q2 of 2017. The Deluxe Audio Strap will have a ratcheting knob on the back for easy adjustment and a new cable guide along the side of the headset.

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