

# Leap Motion

## What is a Leap Motion?

A Leap Motion is a computer hardware sensor that is able to interpret hand and finger motions as input, almost like a computer mouse. The device does not require any actual contact. The Leap Motion itself consists of two cameras and three infrared LEDs. These allow the Leap Motion to track hand and finger motion, as well as light outside of the visible range. The Leap Motion utilizes wide angle lenses to provide a large interactive space for the user. With the current software, the viewing range is 80 centimeters above the device. From here, the device's USB controller interprets the sensor data and makes adjustments to the resolution. This information is streamed via USB to the Leap Motion Tracking software (Orion beta). The Leap Motion Controller applies advanced algorithms to interpret the raw sensor data. Here, this compensates for irrelevant data from background images.<sup>1</sup>

## Downloading Orion (Leap Motion software) (Windows)

1. Click <https://developer.leapmotion.com/windows-vr>
2. Scroll down and click on "Download Orion Beta." This will download the Leap Motion development kit.
3. Open LeapDeveloperKit once it's downloaded.
4. Extract all the items within the file.
5. Open the unzipped LeapDeveloperKit ("LeapDeveloperKit\_3.2.0+45899\_win"), and click on the LeapMotion Orion Setup Window.
6. Install the Orion software. If successful, you should be able to see a LeapMotion icon when you click the "Show Hidden Icons" button on the bottom right-hand corner of the screen (shown below).

Note: Once completed, you should be able to plug in a Leap Motion and use it with compatible software.

