**Introduction**

This research study uses specialized equipment and software to track participants’ eye movements. The eye tracker device is an unmodified commercial product that uses a safe level of infrared light to track movements of the human eye. The system is not designed to record any biometric identifiers like iris or retina scans. No personally identifiable information (PII) will be collected, and the results will be kept anonymous. Red lights will illuminate on the left and right sides of the eye tracker during the study. This is normal and does not indicate a warning or problem with the device.

As stated in the Research Information Sheet, your participation is voluntary and you are free to withdraw at any time. Please let the test director know if you feel any discomfort during the study, or would like to stop for any other reason.

To participate you must have unimpaired normal or corrected to normal vision. Please let the test director know if you usually wear prescription eyeglasses or contact lenses while operating a computer.

There are two (2) parts to the study: *system calibration* and *data collection*.

**System Calibration**

|  |  |
| --- | --- |
|  | D:\Lucas\projects\eyetracking\EyeTribe\pic\calib-target-transparent.png |
|  | Calibration  target. |

You will be asked to place your chin on the chin rest and look at the center of the screen while the test director sets up the calibration procedure. Rest the weight of your head on the chin rest, but do not exert additional force down or to either side. The test director will confirm proper alignment of the equipment, then let you know when calibration begins.

The procedure involves following a calibration target as it moves to several points on the screen. When the target stops, the small black circle in the center will expand and contract a number of times while the system calibrates at that point. Focus on the center of the circle and do not blink until the target moves to another point on the screen.

It takes about 20 seconds to complete all the calibration points. After the last point is completed, you will have a few seconds to rest your eyes before the next part of the study begins. However, keep your chin on the chin rest in order to maintain alignment

**Data Collection**

Data collection is similar to calibration. A series of round targets will be shown on the screen. The gray dot in the center of the target will turn black while data is being collected at each point. Focus on the center of the dot and do not blink until the target moves to another point on the screen. If you have difficultly focusing on the dot, look carefully and try to determine what shape it is (circle, rectangle, diamond, etc.).

For both system calibration and data collection, remember this tips:

* Keep your chin on the chin rest, and let it support the weight of your head.
* Face straight ahead and keep your head still.
* Follow the target with your eyes – do not turn your head to face it.
* Do not close your eyes or look away from the screen.
* Do not blink while the calibration target is at each point.