

Assessment of Google Glass Determined by a Neurotypical Population

by

Merab Mushfiq¹, Martin L. Tanaka², Kelly Kelley³

¹Department of Chemistry and Physics, Western Carolina University

²Department of Engineering and Technology, Western Carolina University

³School of Teaching and Learning, Western Carolina University

Abstract:

Google glass is a new technology that was launched in March 2012. It is an augmented reality head-mounted display that projects an image onto the eye. This technology is in beta testing and research is underway to evaluate its performance. The purpose of the research was to determine how easily people learn and how comfortable they are with this new technology. Study participants donned the glasses and watched videos demonstrating basic functions. They performed these functions and their performance was assessed. The assessment was based on a four levels scoring system with higher scores indicating that less assistance was required to perform the task. Participant's ability to use Google glass was divided into two categories, gesture level activities and basic functions. Performance was high for both males (3.83) and females (3.56) on gesture level activities with both groups score above 3.0. Basic Functions were also performed well for both males (3.69) and females (3.47). Overall, Google Glass was determined to be an easy to use technology. In addition, to assessing how easily people are able to learn Google glass, this study will be used as a baseline for future research. A proceeding study assess how well student with mental disabilities are able to use this device as a tool to assist with activities of daily living.