Eye Gaze Calibration Tests August 28th

# *Legend for Data Titles (DLAB)*

## Calibration Test 1\_Vertical Plane:

Calibration done where the participant followed the wand as it hit all positions on the frames of the cart in the vertical plane.

## Calibration Test 2\_VH Plane

Calibration done where the participant followed the wand as it hit all positions on the frames of the cart in the vertical plane, and in the horizontal plane adding a component of depth.

## Calibration Test 3\_VHR Plane

Calibration done where the participant followed the wand as it hit all positions on the frames of the cart in the vertical plane, and in the horizontal plane adding a component of depth. In addition, points were calibrated for on all 4 corners of the side table where the pasta box exists. The head was rotating to look at the side table in this calibration

## Calibration Test 4\_Static Targets

Calibration done where the participant followed the wand as it rested statically on all areas of interest in the scene. Areas were: target 1(R shelf), target 2 (L shelf), home (bottom right of cart), start position (side table) and neutral position (top middle of cart)

## Calibration Test 5\_Dynamic No Rotation

Calibration done where the participant followed the wand as it dynamically moved through all areas of interest in the scene. Areas were: target 1(R shelf), target 2 (L shelf), home (bottom right of cart), and neutral position (top middle of cart). At the end, the wand also followed an S shape from the top of the cart to its base.

## Calibration Test 6\_Dynamic Rotation

Calibration done where the participant followed the wand as it dynamically moved through all areas of interest in the scene. Areas were: target 1(R shelf), target 2 (L shelf), home (bottom right of cart), start position (side table) and neutral position (top middle of cart). Looking at the side table prompted the subject to rotate their head in that direction. At the end, the wand also followed an S shape from the top of the cart to its base.

# *Ewen Eye Measurements*

X: 17 mm (offset to the left of Vicon marker)

Y: 54 mm (vertical offset from Vicon marker)

Z: 34 mm

Between eyes: 58 mm