

Video Showing Heart Detection Validation Deliverable Description

The deliverable is a video showing the heart rate detection system is valid. The main goal was to ensure that the heart rate detected was the same as the actual heart rate. The heart rate is detected through ECG leads placed in the left 5th intercostal space of the ribs, as proposed in the final design. The video shows the heart rate values being reported by the physiological measurement system next to an Apple Watch showing the heart rate for comparison. The Apple Watch was used for comparison because it is a newer model and is trusted by the general public for detecting accurate heart rates. The values reported by the physiological measurement system are very close to the values from the Apple Watch, and even change with it relatively quick. This shows that the heart rate detection is accurate and valid.